

4-679  
(April 1933)

(1)

BOOK 4156

# FIELD NOTES

OF THE SURVEY OF

PART OF THE SUBDIVISION LINES of,

and

TRAVERSE OF RIGHT RIM OF MARBLE CANYON

OF THE COLORADO RIVER thru

TOWNSHIP 38 NORTH, RANGE 6 EAST

Of the GILA AND SALT RIVER Meridian,

In the State of ARIZONA

EXECUTED BY

Elliott Pearson, Transitman (P.W.)

supplemental  
Under special instructions dated March 27, 1936, which provided  
for the surveys included under Group No. 181, Arizona, bearing the approval of the  
Commissioner of the General Land Office under date of July 24, 1936  
and assignment instructions dated November 9, 1936

Survey commenced January 29, 1937

Survey completed March 27, 1937

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# INDEX DIAGRAM.

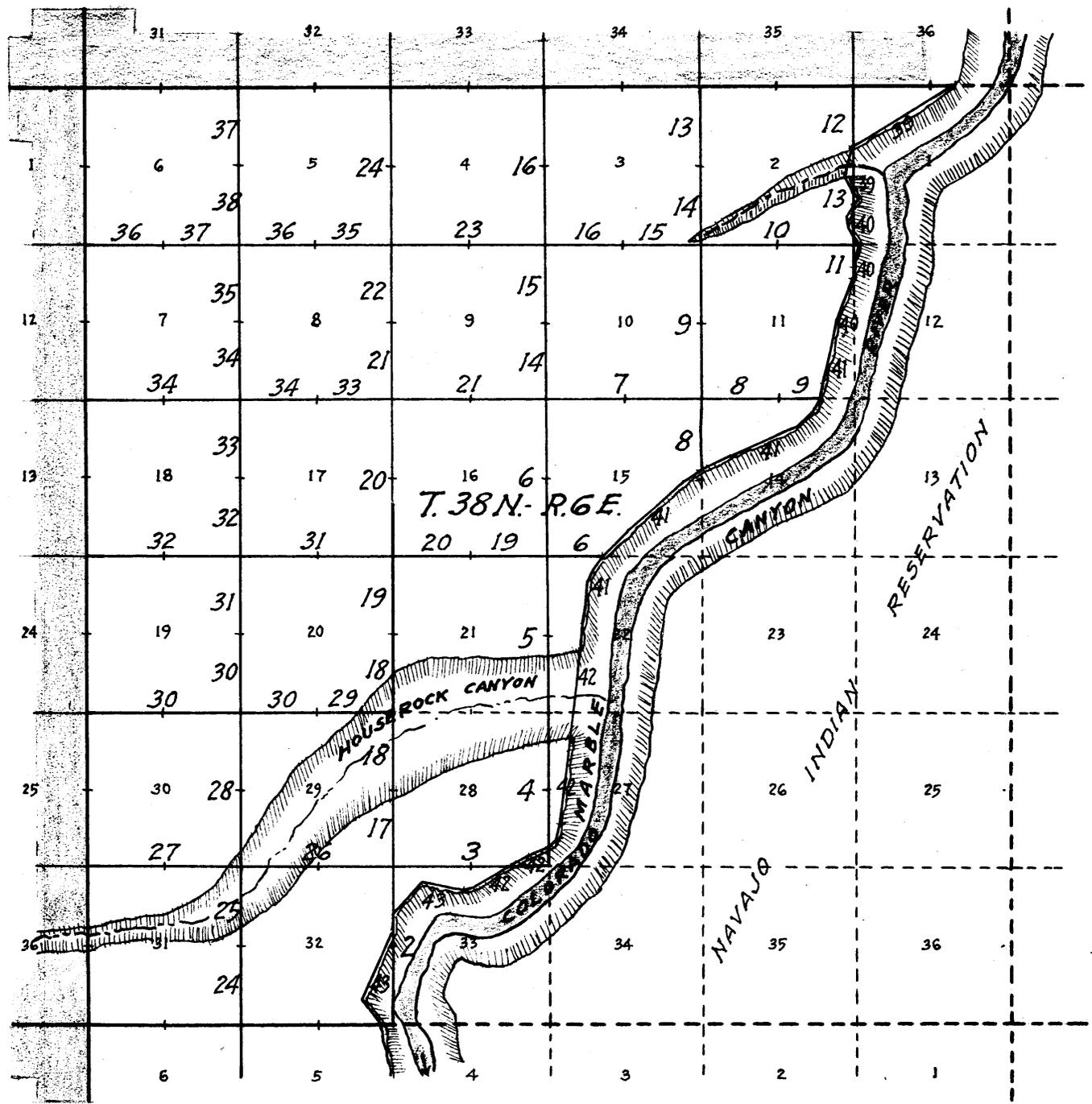
Township \_\_\_\_\_, Range \_\_\_\_\_

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
36	35	34	33	32	31



~INDEX~ DIAGRAM~

BOOK 4156



———— Lines of accepted surveys.

----- Unsurveyed lines.

———— Lines surveyed under this group.

 Areas surveyed as per accepted plats on file.

The surveys herein described were executed by Elliott Pearson, Transitman (PW) using Young and Sons transit No. 8526. The instrument is equipped with the Smith solar attachment and otherwise conforms to the standard requirements of the General Land Office.

PRELIMINARY FIELD TEST  
of  
BUFF TRANSIT NO. 18,000  
and  
YOUNG & SONS TRANSIT No. 8526  
By BENJAMIN J. KINSEY, SURVEYOR.

January 26, 1937: at station at the  $\frac{1}{4}$  sec. cor. of secs. 13 and 18, T. 40 N., Rs. 7 and 8 E., G. & S.R.B. & M., Arizona, in lat.  $36^{\circ}52'N.$ , and long.  $111^{\circ}35'W.$ , examine the adjustments of the transit and find no errors; then to test the workings of the solar apparatus as compared with meridian determined by observation on Polaris, proceed as follows: using Buff transit No. 18,000.

At 11h.15m., p.m., l.m.t., observe Polaris at western elongation, making four observations, two each with telescope in direct and reversed positions and marking the mean point in the line thus determined by a tack set in top of a peg, driven firmly in the ground about 5 chs. North.

Azimuth of Polaris:  $1^{\circ}17'$ .

January 27, daylight: lay off the azimuth of Polaris,  $1^{\circ}17'$  to the east and mark the true meridian thus determined by a tack set in top of a peg driven firmly in the ground about 5 chs. North.

At 9h.00m., a.m., app.t., set off  $36^{\circ}52'N.$  on the lat. arcs,  $18^{\circ}24'S.$  on the decl. arcs and determine meridians with the solar attachments, both of which agree with the true meridian.

At app. noon, with the lat. arcs unchanged, observe the sun on the meridian; the resultant readings of the decl. arcs are  $18^{\circ}23'S.$ , which agrees with the computed declination of the sun.

At 3h.00m., p.m., app.t., with the lat. arcs unchanged, set off  $18^{\circ}20\frac{1}{2}'S.$  on the decl. arcs, and determine meridians with the solars, both of which agree within 1' of the true meridian.

As all of the observations taken during the usual hours of solar work agree within 1' of the true meridian, conclude that the instruments are both in satisfactory adjustment on this date.

Unless otherwise specified, all measurements are made with a Lallie steel tape, 5 chs. in length, compared with a Lufkin standard and found correct. The measurements are made on the slope, the vertical angles determined with clinometer in good adjustment and slope measurements properly reduced to true horizontal values for entry in the field notes.

SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

2

Chains

Commence the survey of the subdivision lines of that part of T. 38 N., R. 6 E. situate west of the right or west rim of the Marble Canyon of the Colorado River at the true point for cor. of secs. 4, 5, 32 and 33 on the south bdy. of the Tp., established under this group and witnessed 5.17 chs. west, as described in the field notes of survey of T. 37 N., R. 6 E.

Thence

N. 0°03'W. bet. secs. 32 and 33.

Over mountainous land on precipitous E. slope of the west or right wall of Marble Canyon, measurement of 46.91 chs. on sec. line by traverse along canyon rim thru sec. 32 as hereinafter described to point on sec. line, thence S. 0°03'E. to rim of canyon.

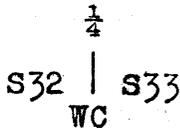
10.00 (Approx.) Gulch, course E.

40.00 True point for  $\frac{1}{4}$  sec. cor. falls on canyon wall where it cannot be monumented, therefore witness cor. is established on sec. line at 6.91 chs. N. 0°03'W.

46.81 Right rim of Marble Canyon, bears E. and W. At 10 lks. E. of this point the rim turns to N., and at 50 lks. W. turns to SW.

Leave canyon. Continue line and measurement by chaining, over gently rolling and broken land, parallel to and 10 lks. W. from canyon rim. Asc. slightly over SE. slope to

46.91 Traverse point  
Set an iron post, 3 ft. long, 1 in. in diam., 22 ins. in the ground to bed rock, deposit a stone 8x6x4 ins. marked with a cross (+) at base, and in a mound of stone to top, for witness cor. to  $\frac{1}{4}$  sec. cor. with brass cap mkd.



1937

Asc. 23 ft. over SE. slope.

51.90 Toe of spur, slopes E. Desc. 40 ft. over NE. slope.

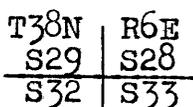
56.36 Set temp. mon. for traverse of canyon rim thru sec. 33. At 10 lks. E. from this point the canyon rim turns from S. to NE.

61.90 Gully, course E. Asc. 31 ft. over SE. slope.

68.25 Toe of spur, slopes E. Desc. 92 ft. over NE. slope.

78.15 Wash, 5 lks. wide, course E. Asc. gradually over SE. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bedrock, deposit a stone 6x6x6 ins. mkd. with a cross (+) at base and in a mound of stone to top for cor. of secs. 28, 29, 32 and 33, with brass cap mkd.



1937

## Chains

Land, mountainous, gently rolling and broken.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

East bet. secs. 28 and 33.

Over gently rolling land, thru scattering undergrowth.

Desc. gradually over SE. slope.

- 6.20 Wash, 10 lks. wide, course SE.; asc. 30 ft. over SW. slope.  
14.50 Point of low spur slopes S.; desc. 6 ft. over SE. slope.  
15.78 Wash, 5 lks. wide, course SW.; asc. 69 ft. over SW. slope.  
24.48 Ridge, bears NW. and SE.; desc. 15 ft. over NE. slope.  
29.47 Wash, 10 lks. wide, course NW.; asc. 40 ft. over SW. slope.  
34.50 Spur, slopes NW.; desc. 12 ft. over NE. slope.  
38.73 Head of wash, course NW.; asc. slightly over NW. slope to  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in  
the ground to bed rock and in a mound of stone to top,  
for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

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

1937

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

Asc. 10 ft. over NW. slope.

- 43.20 Low ridge, bears NE. and SW.; desc. 47 ft. over E. slope.  
52.47 Wash, 10 lks. wide, course S.; asc. 58 ft. over NW. slope  
to canyon rim.  
61.09 Set temp. monument for traverse of canyon rim thru secs.  
28 and 33.  
61.20 Right rim of Marble Canyon of the Colorado River, bears  
NE. and SW. Precipitous descent over canyon wall pre-  
vents chaining farther on sec. line.  
80.00 True point for cor. of secs. 27, 28, 33 and 34, falls in  
the canyon, where it is inaccessible and cannot be monu-  
mented, and no point within prescribed limits is avail-  
able for the establishment of a witness cor.

Land, gently rolling, broken and mountainous.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

From true point for cor. of secs. 27, 28, 33 and 34.

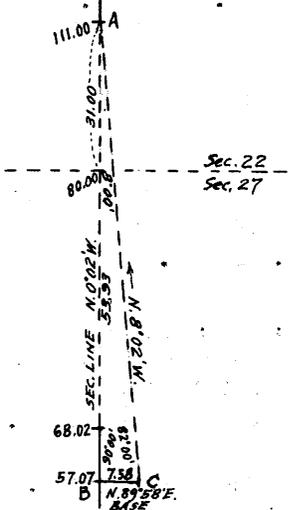
N.  $0^{\circ}02'W.$ , bet. secs. 27 and 28.

Over mountainous land, in Marble Canyon, no timber or  
undergrowth.

Ascend over precipitous broken SE. slope.

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

4.

Chains	Measurement of 10.77 chs. N. 0°02'W. by traverse thru sec. 28 as hereinafter described, and return measurement of 10 lks. S. 0°02'E. to
10.67	Right rim of Marble Canyon, bears NE. and SW. Leave canyon. Thence over gently rolling land, thru scattering undergrowth, along E. slope.  Continue line and measurement by chaining.
10.77	Set temp. monument for traverse of canyon rim, thru secs. 22, 27 and 28.
25.75	Descend 70 ft. over NE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bedrock, deposit a stone 10x0x8 ins. marked with a cross (+) at base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked  $\frac{1}{4}$ s28   s27 1937
	Desc. 32 ft. over NE. slope.
43.97	Rocky wash, 12 lks. wide, course NW.; asc. 35 ft. over SW. slope
51.75	Spur, slopes NW.; desc. 30 ft. over NE. slope to canyon rim.
57.07	Triangulation point for triangulation across Houserock Canyon as hereinafter described.
68.02	Right rim of Houserock Canyon, bears E. and W. Leave gently rolling and enter mountainous land in canyon. Precipitous descent over broken N. slope renders chaining impracticable beyond this point therefore triangulate measurement across Houserock Canyon as follows:    Set flag "A" N. 0°02'W. on the left or N. rim of Houserock Canyon. From 57.07 ch. station on sec. line bet. secs. 27 and 28 designated as point "B", chain a base N. 89°58'E. 7.58 chs. to point "C" (longer base impracticable). From point "C" the flag "A" bears N. 8°02'W. The vertical angle from "B" to "A" is 0°. Included angles of the triangle "A-B-C" are 8°00', 90°00' and 82°00'; the sum of which is 180°00'.  Dist. to point "B" = 57.07 chs. N. 0°02'W. Dist. "B" to "A" = 53.93 chs. N. 0°02'W. Bet. secs. 27 and 28 = 111.00 chs. N. 0°02'W. Bet. secs. 21 and 22 = 80.00 chs. N. 0°02'W. 31.00 chs. N. 0°02'W.
80.00	True point for cor. of secs. 21, 22, 27 and 28 falls on precipitous N. slope on right wall of Houserock Canyon where it is inaccessible and cannot be monumented, and no point within prescribed limits is available for the establishment of a witness cor.

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

5.

## Chains

Land, mountainous, gently rolling and broken.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

From true point for cor. of secs. 21, 22, 27 and 28.

N. 0°02'W., bet. secs. 21 and 22.

Over mountainous land, across precipitous broken slopes in Houserock Canyon. Measurement to N. or left rim of said canyon by triangulation from 57.07 ch. station of line bet. secs. 27 and 28 as hereinbefore described.

12.00 (Approx.) Bottom of Houserock Canyon, 100 lks. wide, course N. 80°E. Asc. about 1300 ft. over precipitous S. slope to

31.00 Left or N. rim of Houserock Canyon, bears N. 80°E. and S. 80°W. Leave canyon. Thence over rolling land, thru scattering undergrowth.

Continue line and measurement by chaining.

Ascend 32 ft. over S. slope.

33.20 Top of knoll, about 5 chs. diam. at base; desc. 34 ft. over NE. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., over a cross (+) chiseled in exposed surface rock, and in a mound of stone to top, for  $\frac{1}{4}$  sec. cor., with brass cap marked

$\frac{1}{4}$   
S21 | S22

1937

Thence over gently rolling land, thru scattering undergrowth.

Desc. 68 ft. over N. slope to

59.36 Wash, 20 lks. wide, course NE.; asc. 10 ft. over SE. slope.

70.00 Point of spur, slopes E.; desc. 30 ft. over NE. slope.

76.50 Wash, 20 lks. wide, course E.; asc. 12 ft. over S. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in the ground to bedrock, deposit a stone 6x10x14 ins., marked with a cross (+) at base, and in a mound of stone to top, for cor. of secs. 15, 16, 21 and 22, with brass cap marked

T38N R6E  
S16 | S15  
S21 | S22

1937

Land, mountainous, rolling, broken and gently rolling.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

6.

Chains	
	East, bet. secs. 15 and 22 (Part)
	Over rolling land, thru scattering undergrowth; along S. slope.
10.00	Asc. 23 ft. over SW. slope.
14.50	Point of low spur, slopes S.; desc. 23 ft. over SE. slope.
19.50	Draw, course S.; asc. 52 ft. over NW. slope to canyon rim.
28.10	Set temp. monument for traverse of canyon rim thru secs. 15, 22 and 27.
28.20	Right rim of Marble Canyon of the Colorado River, bears NE. and SW.
	Discontinue chaining at this point owing to precipitous descent into Marble Canyon. The point for $\frac{1}{4}$ sec. cor. is inaccessible, and no point within prescribed limits is available for the establishment of a witness cor.
	Land, rolling and broken. Soil, rocky, 3rd and 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	From the cor. of secs. 15, 16, 21 and 22,
	N. $0^{\circ}02'W.$ , bet. secs. 15 and 16.
	Over rolling land, thru scattering undergrowth. Asc. 86 ft. over S. slope to
8.70	Rim of plateau, bears E. and W. Leave rolling and enter nearly level land on plateau. Asc. 11 ft. over S. slope.
13.70	Top of low ridge, bears E. and W., continue over nearly level land on plateau. Desc. 32 ft. over N. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, with a stone 12x12x14 ins. marked with a cross (+) deposited at base, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S16   S15 1937
	and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Continue over nearly level land, on plateau, thru scattering undergrowth.
	Desc. 47 ft. over N. slope to
65.00	Leave nearly level and enter gently rolling land. Desc. 47 ft. over NW. slope.
74.17	Wash, 15 lks. wide, course NE.; asc. 48 ft. over SE. slope to
80.00	Spur, slopes NE.
	Set an iron post, 3 ft. long, 2 ins. in diam., 19 ins. in the ground to bedrock, with a stone 6x8x10 ins., marked with a cross (+) deposited at base, and in a mound of

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

BOOK 4100

7.

## Chains

stone to top, for cor. of secs. 9, 10, 15 and 16, with  
brass cap marked

T38N	R6E
S9	S10
S16	S15

1937

Land, rolling, nearly level and gently rolling.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

East, bet. secs. 10 and 15.

Over rolling land, thru scattering undergrowth.

Desc. 54 ft. over SE. slope.

5.30 Wash, 30 lks. wide, course NE.; asc. 20 ft. over NW. slope.

8.00 Point of spur slopes N.; desc. 15 ft. over NE. slope.

16.60 Wash, 15 lks. wide, course N.; asc. 35 ft. over W. slope.

24.50 Spur, slopes N.; desc. 6 ft. over E. slope.

25.70 Wash, 10 lks. wide, course N.; asc. 25 ft. over NW. slope.

32.90 Spur, slopes NE.; desc. 6 ft. over SE. slope.

35.00 Wash, 25 lks. wide, course NE.; asc. 15 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, with a stone 6x4x8 ins. marked  
with a cross (+) deposited at base, and in a mound of  
stone to top, for  $\frac{1}{4}$  sec. cor., with brass cap marked

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

1937

Continue over gently rolling land thru scattering under-  
growth.

Asc. 55 ft. over NW. slope to

55.00 Rim of plateau, bears NE. and SW. Leave gently rolling  
and enter nearly level land on plateau.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in  
the ground to bedrock, with a stone 10x6x3 ins., marked  
with a cross (+) deposited at base, and in a mound of  
stone to top, for cor. of secs. 10, 11, 14 and 15, with  
brass cap marked

T38N	R6E
S10	S11
S15	S14

1937

Land, rolling, gently rolling and nearly level.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, black brush, brigham tea and cacti.

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

8.

Chains	
	<p>S. 0°01'E., bet. secs. 14 and 15 (N. <math>\frac{1}{4}</math>)</p> <p>Over nearly level plateau, draining N. thru scattering undergrowth.</p> <p>Asc. gradually over N. slope to</p>
29.50	<p>Rim of plateau, brs. E. and W. Leave nearly level and enter rolling land.</p>
	<p>Desc. 54 ft. over S. slope to rim of canyon.</p>
37.39	<p>Set an iron post, 3 ft. long, 1 in. in diam., 3 ins. in the ground to bedrock, with a stone 6x4x12 ins., marked with a cross (+) deposited at base, and in a mound of stone to top, for witness cor. to <math>\frac{1}{4}</math> sec. cor. of secs. 14 and 15, with brass cap marked</p>
	<p style="text-align: center;"><math>\frac{1}{4}</math></p> <p style="text-align: center;">S15   S14</p> <p style="text-align: center;">WC 1937</p>
37.50	<p>Right rim of Marble Canyon of the Colorado River, bears NE. and SW.</p>
	<p>Discontinue chaining at this point owing to precipitous broken descent over the canyon wall.</p>
40.00	<p>True point for <math>\frac{1}{4}</math> sec. cor. of secs. 14 and 15 falls on the right wall of Marble Canyon where it is inaccessible and cannot be monumented, therefore witness cor. is established at 2.61 chs. N. 0°01'W., as hereinbefore described.</p>
	<p>Land, nearly level, rolling and mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.</p>
	<p>From cor. of secs. 10, 11, 14 and 15.</p>
	<p>East, bet. secs. 11 and 14 (Part)</p>
	<p>Over nearly level land, draining N., thru scattering undergrowth.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, with a stone 4x6x12 ins. marked with a cross (+) deposited at base, for <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p>
	<p style="text-align: center;"><math>\frac{1}{4}</math> S 11 S 14</p> <p style="text-align: center;">1937</p>
	<p>and raise a mound of stone, 3 ft. base, 1<math>\frac{1}{2}</math> ft. high, N. of cor.</p>
	<p>Continue over nearly level land, thru scattering undergrowth.</p>
	<p>Desc. gradually over NE. slope.</p>
49.20	<p>Wash, 5 lks. wide, course NE., near head. Asc. gradually over NW. slope to canyon rim.</p>

SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

Chains

63.20 Set temp. monument for traverse of canyon rim thru secs. 11 and 14.

63.30 Right rim of Marble Canyon of the Colorado River, bears NE. and SW.

Discontinue chaining at this point owing to precipitous descent over the canyon wall. The point for cor. of secs. 11, 12, 13 and 14 is inaccessible and cannot be monumented, and no point within prescribed limits is available for establishment of a witness cor. thereto.

Land, nearly level.  
Soil, sandy and rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

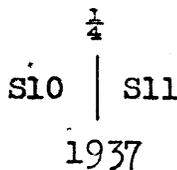
From the cor. of secs. 10, 11, 14 and 15.

N. 0°01'W., bet. secs. 10 and 11.

Over nearly level land, thru scattering undergrowth.

Desc. gradually over N. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, over a cross (+) marked on bedrock, and in a mound of stone to top, for  $\frac{1}{4}$  sec. cor., with brass cap marked



Leave nearly level and enter gently rolling land.  
Desc. 30 ft. over gradual NW. slope to

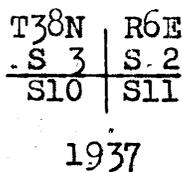
49.20 Leave gently rolling, and enter broken and mountainous land. Desc. 177 ft. over NW. slope to bottom of gulch.

58.90 Toe of spur, slopes NW.

63.66 Wash, 25 lks. wide, course NE., in bottom of gulch.  
Asc. 173 ft. over SE. slope.

72.49 Spur, slopes NE.; desc. 144 ft. over NW. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bedrock, with a stone 3x8x12 ins., marked with a cross (+) deposited at base, and in a mound of stone to top, for cor. of secs. 2, 3, 10 and 11, with brass cap marked



Land, nearly level, gently rolling, broken and mountainous.  
Soil, gravelly and rocky, 3rd and 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

10

Chains	East, bet. secs. 2 and 11.
	Over mountainous and broken land, thru scattering undergrowth. Desc. slightly over N. slope to
1.80	Enter wash, 30 lks. wide, course E. from NW.; desc. gradually in wash to
5.40	Leave wash, course NE. from W.; asc. 96 ft. over NW. slope.
11.50	Spur, slopes NE.; desc. 127 ft. over SE. slope.
18.28	Wash, 30 lks. wide, course NE.; asc. 195 ft. over NW. slope.
26.40	Spur, slopes NE.; desc. 56 ft. over SE. slope.
32.99	Wash, 10 lks. wide, course NE.; asc. 45 ft. over NW. slope.
36.40	Toe of spur, slopes N. Leave mountainous and enter rolling land. Desc. 32 ft. over NE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bedrock, with a stone 5x8x6 ins. marked with a cross (+) deposited at base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4} \begin{array}{c} S 2 \\ S 11 \end{array}$ 1937
	Desc. gradually over NE. slope.
44.20	Drain, course N.; asc. 39 ft. over W. slope.
47.00	Spur, slopes N. 15°E.; desc. 10 ft. over E. slope.
49.50	Drain, course N. 15°E.; asc. 15 ft. over W. slope.
52.00	Spur, slopes N. 15°E.; desc. 17 ft. over E. slope.
54.70	Drain, course NE.; asc. 10 ft. over NW. slope.
57.00	Spur, slopes NE.; desc. 46 ft. over SE. slope.
62.50	Wash, 7 lks. wide, course NE.; desc. gradually over NE. slope to
65.86	Rocky wash, 15 lks. wide, course N.; asc. 25 ft. over W. slope.
68.60	Spur, slopes N.; desc. 12 ft. over E. slope.
71.04	Wash, 6 lks. wide, course N. 5°W.; asc. 57 ft. over broken W. slope
76.70	Spur, slopes N. 5° W.; desc. 15 ft. over NE. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, with a stone 8x12x14 ins., marked with a cross (+) deposited at base, and in a mound of stone to top, for cor. of secs. 1, 2, 11 and 12, with brass cap marked
	$\begin{array}{c c} T38N & R6E \\ S 2 & S 1 \\ \hline S11 & S12 \end{array}$ 1937

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

BOOK 4156

11

Chains	Land, mountainous, broken and rolling. Soil, rocky, 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	S. 0°01'E., bet. secs. 11 and 12 (Part) Over gently rolling land, thru scattering undergrowth. Asc. 29 ft. over NE. slope.
11.63	Set temp. monument for traverse of right rim of Marble Canyon of the Colorado River thru sec. 12. At 10 lks. E. of this point said canyon rim bears NE. and S. Continue line and measurement, parallel to and 10 lks. W. of canyon rim.
17.63	Set temp. monument for traverse of right rim of Marble Canyon thru sec. 11. At 10 lks. E. of this point the canyon rim bears N. and SW.
17.75	Right rim of Marble Canyon, bears NE. and SW. Discontinue survey of the section line at this point as the remainder of the line is in the Marble Canyon, and both the $\frac{1}{4}$ sec. cor. and sec. cor. points are inaccessible and cannot be monumented or witness cors. thereto established within prescribed limits.  Land, gently rolling and broken. Soil, rocky, 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	From the cor. of secs. 1, 2, 11 and 12. East, bet. secs. 1 and 12 (Part) Over gently rolling land, thru scattering undergrowth. Desc. gradually over NE. slope to canyon rim.
1.40	Set temp. monument for traverse of the right rim of Marble Canyon, thru secs. 1 and 12.
1.50	Right rim of Marble Canyon, in bend, bears NW. and SW. Discontinue survey of the section line at this point owing to precipitous broken descent over the canyon wall.  Land, gently rolling. Soil, rocky, 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
2.60	From the cor. of secs. 1, 2, 11 and 12. N. 0°01'W., on random line, bet. secs. 1 and 2. Triangulation point.
2.70	Right rim of Marble Canyon, bears NW. and SE. Discontinue chaining at this point owing to precipitous slopes on the canyon wall ahead, and a side canyon from the SW. crossing the line. Triangulate as follows:  Designate 2.60 ch. station on random sec. line as "A".



## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

13

Chains	
	continue chaining at this point owing to precipitous broken slopes in the mouth of the side canyon, entering Marble Canyon here. Measurement across side canyon to point on sec. line near right rim of Marble Canyon by traverse in sec. 2 as hereinafter described.
40.25	True point for $\frac{1}{4}$ sec. cor. falls on canyon wall where it is inaccessible and cannot be monumented, therefore establish witness cor. at 9.92 chs. N. $0^{\circ}11'W.$ , as hereinbefore described.
45.00	(Approx.) Bottom of side canyon, course E. from S. $70^{\circ}W.$ Asc. over precipitous NE. slope to
54.90	Right rim of Marble Canyon, bears NW. and SE. Leave canyon and enter gently rolling land. Continue line and measurement by chaining.
54.99	Set temp. monument for traverse of canyon rim.
62.30	Set temp. monument for traverse of canyon rim.
62.40	Right rim of Marble Canyon, bears NE. and SW. Leave gently rolling land and enter mountainous land in canyon. Discontinue chaining owing to precipitous slopes on canyon wall. Measurement by traverse in sec. 2.
77.55	Right rim of Marble Canyon, bears NW. and SE. Leave canyon and enter gently rolling land. Continue line and measurement by chaining. Asc. gradually over NE. slope to sec. cor.
77.65	A point 1 lk. W. of triangulation point "A". Set temp. monument for traverse of right rim of Marble Canyon thru sec. 1 and part of sec. 2.
80.25	Cor. of secs. 1, 2, 11 and 12. Land, rolling, broken and mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	From the cor. of secs. 2, 3, 10 and 11. N. $0^{\circ}11'W.$ , on random line, bet. secs. 2 and 3.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect the N. bdy. of the Tp., 2 lks. E. of the cor. of secs. 2, 3, 34 and 35, which is an iron post, 2 ins. in diam., projecting 10 ins. above ground, firmly set, marked on brass cap and witnessed as described in the official record. Thence S. $0^{\circ}12'E.$ , on true line, bet. secs. 2 and 3. Over rolling and broken land, thru scattering undergrowth. Desc. 40 ft. over SW. slope.
1.70	Wash, 5 lks. wide, course NW.; asc. 95 ft. over N. slope.
16.86	Spur, slopes NE.; desc. 21 ft. over SE. slope.

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

14

Chains	
20.22	Wash, 5 lks. wide, course NE.; asc. 39 ft. over NW. slope.
25.36	Spur, slopes NE.; desc. 41 ft. over SE. slope.
29.89	Wash, 7 lks. wide, course NE.; asc. 35 ft. over NW. slope.
33.06	Point of spur, slopes NE.; asc. 16 ft. over E. slope to
40.06	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$
	.S3   S2
	1937
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Asc. gradually over E. slope to
43.00	Wash, 5 lks. wide, course N. 15° E.; asc. 40 ft. over NW. slope.
58.00	Spur, slopes N. 30° E.; desc. 10 ft. over SE. slope.
63.00	Wash, 5 lks. wide, course E., near head; asc. 30 ft. over N. slope to
72.25	Rim of gulch, bears E. and W.; leave rolling and enter mountainous land. Desc. 120 ft. over broken S. slope to
79.25	Wash, 25 lks. wide, in bend, course SE. from SW.; asc. slightly over N. slope to
80.06	The cor. of secs. 2, 3, 10 and 11.
	Land, rolling, broken and mountainous. Soil, rocky, 3rd and 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	From the cor. of secs. 9, 10, 15 and 16.
	N. 0° 02' W., bet. secs. 9 and 10.
	Over gently rolling land, thru scattering undergrowth.
	Desc. 65 ft. over NW. slope to
13.25	Wash, 10 lks. wide, course NE.; thence over E. slope.
16.85	Wash, 15 lks. wide, course E.; asc. 50 ft. over SE. slope to
29.30	SE. edge of top of ridge, bears NE. and SW. Thence across nearly level top of ridge.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$
	S9   S10
	1937

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

BOOK 488

15

- Chains
- and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
- 40.50 NW. edge of nearly level top of ridge, bears NE. and SW. Leave top of ridge, and enter gently rolling land; desc. 56 ft. over NW. slope.
- 54.00 Wash, 10 lks. wide, course NE.; asc. 30 ft. over SE. slope.
- 60.00 Spur, slopes NE.; desc. 68 ft. over NW. slope to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bedrock, with a stone 6x6x5 ins. marked with a cross (+) deposited at base, and in a mound of stone to top, for cor. of secs. 3, 4, 9 and 10, with brass cap marked

T38N	R6E
S4	S3
S9	S10

1937

Land, gently rolling and nearly level.  
Soil, gravelly and rocky, 3rd and 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

- East, on random line, bet. secs. 3 and 10.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.14 Intersect N. and S. line 4 lks. N. of the cor. of secs. 2, 3, 10 and 11.
- Thence,
- N. 89°58'W., on true line, bet. secs. 3 and 10.
- Over mountainous land, near bottom of gulch, thru scattering undergrowth.
- Asc. 25 ft. over N. slope.
- 1.34 Desc. 10 ft. over NW. slope.
- 2.35 Wash, 25 lks. wide, course NE. in bottom of gulch. Asc. 35 ft. over SE. slope.
- 6.35 Thence over steep broken S. slope, ascending gradually to
- 19.24 Wash, 5 lks. wide, course SE.; asc. 60 ft. over E. slope.
- 32.60 Point of spur slopes SE.; leave mountainous and enter rolling and broken land. Desc. 14 ft. over SW. slope to
- 35.15 Thence over S. slope; asc. gradually over S. slope to
- 40.07 Set an iron post, 3 ft. long, 1 in. in diam., 3 ins. in the ground to bedrock, with a stone 16x8x5 ins., marked with a cross (+) deposited at base, and in a mound of stone to top, for  $\frac{1}{4}$  sec. cor., with brass cap marked

$\frac{1}{4}$	S 3
S 10	

1937

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

16

Chains	
	Asc. 30 ft. over S. slope to
50.00	Edge of top of spur, bears N. 80°E. & S. 80°W., thence across nearly level land on top of spur, sloping NE.
70.00	Edge of top of spur, bears NE. and SW. Leave top of spur. Enter gently rolling and broken land; desc. 25 ft. over NW. slope to
80.14	The cor. of secs. 3, 4, 9 and 10.  Land, mountainous, rolling, broken and nearly level. Soil, rocky, 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	N. 0°13'W., on random line, bet. secs. 3 and 4.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.03	Intersect the N. bdy. of the Tp. at 16 lks. W. from the true point for cor. of secs. 3, 4, 33 and 34, which is witnessed 50 lks. E. by an iron post, 2 ins. in diam., projecting 30 ins. above ground, firmly set in ground and mound of stone and marked on brass cap as described in the official record.  From true point for cor. in wash,  S. 0°06'E., on true line, bet. secs. 3 and 4.  Over mountainous land, thru scattering undergrowth.  Across wash, 50 lks. wide, course SE.
0.39	Right bank of wash, brs. NW. and SE. Leave wash; asc. 105 ft. over NE. slope.
7.00	Spur, slopes E.; desc. 202 ft. over SE. slope.
11.70	Wash, 30 lks. wide, course N. 30° E.; in bottom of canyon. Asc. 220 ft. over NW. slope to
21.00	Rim of canyon, bears NE. and SW. Leave canyon and mountainous land.  Thence over gently rolling land; asc. 57 ft. over NW. slope to
35.00	Flat topped spur, slopes NE. from S.; asc. 17 ft. over top of spur to
40.03	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked  $\frac{1}{4}$ S4   S3 1937  and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.  Ascend gradually over flat topped spur, sloping N.
46.70	Leave top of spur, slopes N. from SW.; desc. 23 ft. over SE. slope.
50.50	Ascend 23 ft. over E. slope.



## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

18

Chains	<p>Included angles of the triangle "A-B-C" are <math>15^{\circ}38'</math>, <math>90^{\circ}00'</math> and <math>74^{\circ}22'</math>, the sum of which is <math>180^{\circ}00'</math>.</p> <p>Chained dist. from cor. of Secs. 28, 29, 32 and 33 to "B" = 25.22 chs. N. <math>0^{\circ}03'W</math>.          Triangulated dist. "B" to "A" = <u>66.40</u> " " " "          Dist. from cor. of secs. 28, 29, 32 and 33 to "A" = 91.62 chs. N. <math>0^{\circ}03'W</math>.          Sec. line bet. secs. 28 and 29 = <u>80.00</u> " " " "          Dist. point for cor. of secs. 20, 21, 28 and 29 to "A" = 11.62 chs. N. <math>0^{\circ}03'W</math>.</p>
40.00	<p>True point for <math>\frac{1}{4}</math> sec. cor. falls on precipitous NW. slope of right wall of Houserock Canyon where it is inaccessible and cannot be monumented, therefore establish witness cor. thereto at 3.50 chs. S. <math>0^{\circ}03'E</math>. as hereinbefore described.</p>
72.00	<p>(Approx.) Wash, 100 lks. wide, course NE. in bottom of Houserock Canyon, about 1100 ft. below the rims of the canyon. Ascend over precipitous broken SE. slope to</p>
80.00	<p>True point for cor. of secs. 20, 21, 28 and 29, falls on precipitous SE. slope of the left wall of Houserock Canyon where it is inaccessible and cannot be monumented and no point within prescribed limits is available for the establishment of a witness cor.</p>
<p>Land, gently rolling, nearly level, broken and mountainous.          Soil, rocky, 4th. rate.          Timber, none.          Undergrowth, blackbrush, brigham tea and cacti.</p>	
<p>The entire line between secs. 21 and 28 is in Houserock Canyon and is unsurveyable owing to the precipitous broken slopes on the walls of said canyon.</p>	
<p>From the true point for cor. of secs. 20, 21, 28 and 29. N. <math>0^{\circ}03'W</math>., bet. secs. 20 and 21.</p>	
<p>Over mountainous land, ascending precipitous broken SE. slope on left wall of Houserock Canyon.</p>	
<p>Measurement by triangulation from 25.22 ch. station on line bet. secs. 28 and 29 to 11.62 ch. station, on line bet. secs. 20 and 21 as hereinbefore described, from which point chain S. <math>0^{\circ}03'E</math>., 10 lks. to</p>	
11.52	<p>Left rim of Houserock Canyon, bears NE. and SW. Leave canyon and enter rolling land. Continue line and measurement by chaining.</p>
11.62	<p>Triangulation point. Continue chaining. Desc. 80 ft. over E. and NE. slopes to</p>
24.92	<p>Wash, 30 lks. wide, course SE.; asc. 20 ft. over SW. slope to</p>
37.22	<p>Wash, 10 lks. wide, course SW.; asc. 35 ft. over S. slope to</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, with a stone 4x6x8 ins. mkd. with a cross (+) deposited at base, and in a mound of stone to top, for <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p>

## SURVEY; SUBDIVISION OF PART OF T. 38 N., R. 6 E.

ECCN 4130

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Chains							
	$\frac{1}{4}$ S20   S21 1937						
	Asc. 12 ft. over S. slope to .						
45.00	S. edge of flat topped ridge bearing NE. and SW. Thence across nearly level top of ridge.						
62.00	N. edge of ridge bears E. and W. Leave ridge and enter gently rolling land. Desc. 44 ft. over N. slope to						
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, with brass cap marked						
	<table border="1" style="margin: auto;"> <tr><td>T38N</td><td>R6E</td></tr> <tr><td>S17</td><td>S16</td></tr> <tr><td>S20</td><td>S21</td></tr> </table> 1937	T38N	R6E	S17	S16	S20	S21
T38N	R6E						
S17	S16						
S20	S21						
	and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.						
	Land, mountainous, broken, rolling, nearly level and gently rolling. Soil, rocky, 3rd and 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.						
	East, on random line, bet. secs. 16 and 21.						
40.00	Set temp. $\frac{1}{4}$ sec. cor.						
80.00	Intersect the cor. of secs. 15, 16, 21 and 22. Thence, West, on true line, bet. secs. 16 and 21. Over gently rolling land, thru scattering undergrowth. Asc. slightly over S. slope.						
7.00	Wash, 15 lks. wide, course SE.; asc. gradually over SE. slope to .						
10.70	Bend in wash 10 lks. wide, course SE. from SW.; asc. 70 ft. over SE. slope to						
21.00	S. edge of flat topped ridge, bears NE. and SW. Thence across nearly level top of ridge.						
25.00	N. edge of flat topped ridge, bears NE. and SW. Leave top of ridge and enter gently rolling land; desc. 40 ft. over NW. slope to .						
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bedrock, with a stone 10x12x6 ins., marked with a cross (+) deposited at base and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked						
	$\frac{1}{4}$ $\frac{S 16}{S 21}$ 1937						

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

20

Chains	Continue over gently rolling land, thru scattering undergrowth. Desc. 16 ft. over NW. slope.
50.50	Wash, 15 lks. wide, course N.; thence over nearly level land sloping N.
80.00	The cor. of secs. 16, 17, 20 and 21. Land, gently rolling and nearly level. Soil, gravelly and rocky, 3rd and 4th rates. Timber, none. Undergrowth, blackbrush, soto, brigham tea and cacti.
	N. 0°03'W., bet. secs. 16 and 17. Over nearly level land, thru scattering undergrowth. Desc. gradually over N. slope.
10.00	Enter shallow drain, course N. from SE.; desc. gradually in drain to
15.00	Leave same drain, course NW. from S.; desc. gradually over NW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, with a stone 12x6x3 ins. marked with a cross (+) deposited at base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S17   S16 1937
	Continue over nearly level land, thru scattering undergrowth. Desc. gradually over NW. slope.
53.40	Shallow wash, 10 lks. wide, course NW.; asc. gradually over SW. slope.
62.00	Low spur, slopes NW.; desc. 12 ft. over NE. slope.
66.00	Wash, 10 lks. wide, course NW.; asc. gradually over SW. slope.
72.50	Low spur, slopes NW.; desc. gradually over N. slope.
76.50	Shallow drain, course NW.; asc. gradually over SW. slope.
79.50	Point of low spur, slopes W.; desc. slightly over NW. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bedrock, with a stone 10x6x4 ins. marked with a cross (+) deposited at base, and in a mound of stone to top, for cor. of secs. 8, 9, 16 and 17, with brass cap mkd. T38N R6E S 8   S 9 S17   S16 1937

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

21

Chains	Land, nearly level. Soil, rocky, 3rd and 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	East, on random line, bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the cor. of secs. 9, 10, 15 and 16.
	Thence,
	West, on true line, bet. secs. 9 and 16.
	Over gently rolling land, thru scattering undergrowth.
	Desc. 25 ft. over NW. slope.
9.10	Wash, 10 lks. wide, course N.; asc. 15 ft. over NE. slope.
11.50	Point of spur, slopes N.; desc. 45 ft. over NW. slope.
23.80	Wash, 10 lks. wide, course NE.; asc. 35 ft. over SE. slope to
30.00	SE. edge of mesa, bears NE. and SW.; thence over nearly level land on mesa.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4} \frac{S 9}{S 16}$
	1937
	and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	Continue over nearly level land, on mesa, thru scattering undergrowth.
50.00	Edge of mesa, brs. NE. and SW.; leave mesa and enter gently rolling land.
	Desc. 11 ft. over NW. slope to
55.00	Thence over N. slope, descending 40 ft. to
76.00	Desc. 12 ft. over NW. slope to
80.00	The cor. of secs. 8, 9, 16 and 17.
	Land, gently rolling and nearly level. Soil, gravelly and rocky, 3rd and 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	N. 0°03'W., bet. secs. 8 and 9.
	Over gently rolling land, thru scattering undergrowth.
	Desc. 45 ft. over NW. slope.
10.00	Wash, 5 lks. wide, course NW.; enter mountainous land. Asc. 60 ft. over SW. slope.
19.00	Point of spur, slopes NW.; desc. 112 ft. over NW. slope to

SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

22

Chains	
27.90	Bend in wash, 30 lks. wide, course NW. from SW.; asc. 40 ft. over SW. slope.
31.00	Toe of spur, slopes W.; desc. 50 ft. over N. slope.
34.36	Same wash, course E. for about 5 chs. thence N.; asc. 97 ft. over SE. slope to
38.00	Thence along broken E. slope.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ s8   s9 1937
	and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
	Desc. 46 ft. over broken NE. slope.
45.00	Asc. 23 ft. over SE. slope.
47.00	Point of low spur, slopes NE.; desc. 75 ft. over N. slope.
53.80	Wash, 5 lks. wide, course NE.; asc. 114 ft. over SE. slope to
58.00	Edge of top of spur, bears NE. and SW. Thence across nearly level top of spur sloping NE. near point of same.
63.00	Edge of top of spur, bears E. and W. Leave top of spur, and desc. 34 ft. over N. slope to
68.00	Drain, course NE., near head; asc. 10 ft. over SE. slope.
70.20	Spur, slopes NE.; desc. 127 ft. over N. slope.
79.47	Wash, 20 lks. wide, course E. from SW.; asc. 7 ft. over S. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, with brass cap mkd.
	T38N   R6E S 5   S 4 S 8   S 9 1937.
	and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, gently rolling, broken, nearly level and mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	East, on random line, bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.04	Intersect N. and S. line 4 lks. S. of the cor. of secs. 3, 4, 9 and 10.
	Thence

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

23

Chains	S. 89°58'W., on true line, bet. secs. 4 and 9. Over gently rolling land, thru scattering undergrowth. Desc. 61 ft. over NW. slope.
6.44	Wash, 15 lks. wide, course NE.; asc. 21 ft. over SE. slope to
10.00	Thence over nearly level land, bearing NE. and SW.. Asc. gradually over SE. slope to
32.00	Top of ascent, bears NE. and SW.; desc. gradually over NW. slope to
40.02	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, with a stone 8x8x3 ins. marked with a cross (+) deposited at base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4} \frac{S 4}{S 9}$
	1937
	Leave nearly level, and enter gently rolling land, bears NE. and SW. Desc. 30 ft. over NW. slope to
46.30	Drain, course NW.; near head; desc. 10 ft. over NW. slope to
50.00	Rim, bears NE. and SW.; leave gently rolling and enter mountainous land. Desc. 95 ft. over broken NW. slope.
58.50	Wash, 40 lks. wide, course NE.; asc. 32 ft. over E. slope.
60.00	Point of spur, slopes NE.; desc. 15 ft. over NW. slope.
62.80	Wash, 5 lks. wide, course NE.; asc. 78 ft. over SE. slope.
71.00	Spur, slopes NE.; desc. 90 ft. over NW. slope.
75.50	Wash, 30 lks. wide, course NE.; asc. 16 ft. over SE. slope to
76.50	Thence along S. slope, ascending gradually to
80.04	The cor. of secs. 4, 5, 8 and 9. Land; gently rolling, nearly level, broken and mountainous. Soil, rocky, 3rd and 4th rates. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	N. 0°07'W., on random line, bet. secs. 4 and 5.
40.00	Set temp: $\frac{1}{4}$ sec. cor.
79.97	Intersect the cor. of secs. 4, 5, 32 and 33, on N. bdy. of the Tp., which is an iron post, 2 ins. in diam., projecting 10 ins. above ground, firmly set, marked on brass cap and witnessed as described in the official record. Thence,

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

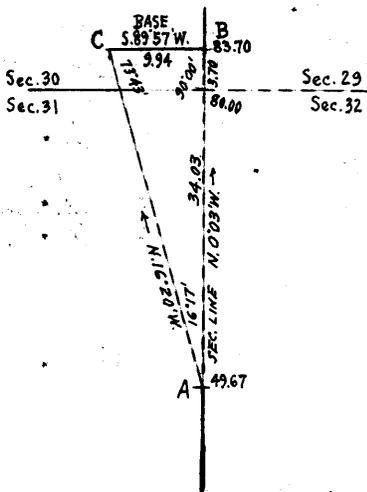
24

Chains	
	S. 0°07'E., on true line, bet. secs. 4 and 5. Over gently rolling land, thru scattering undergrowth. Desc. 40 ft. over SE. slope to
21.67	Wash, 10 lks. wide, course SE.; continue gradual descent over SE. slope.
27.47	Old road, bears NE. and SW.
30.57	Center of U.S. Highway No. 89, bears N. 45° E. and S. 45° W.
31.27	Concrete bridge, bears W. 60 lks. dist.
31.57	Shallow wash, 10 lks. wide, course SE.
39.97	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd. $\frac{1}{4}$ S5   S4 1937 and raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Continue over gently rolling land, thru scattering undergrowth. Desc. 50 ft. over SE. slope to
64.00	Thence over nearly level land, bearing NE. and SW.; descending slightly to
78.25	Rim of ravine, bears NE. and W.; leave nearly level and enter mountainous land. Desc. 50 ft. over S. slope to
79.97	The cor. of secs. 4, 5, 8 and 9. Land, gently rolling, nearly level and mountainous. Soil, rocky, 3rd and 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., established under this group, and described in field notes of survey of T. 37 N., R. 6 E. N. 0°03'W., bet. secs. 31 and 32. Over nearly level top of ridge, bearing N. and S., thru scattering undergrowth.
15.00	Leave top of ridge, bears NE. and S., and enter rolling and mountainous land. Desc. 105 ft. over N. slope.
30.38	Wash, 5 lks. wide, course NW., near head; asc. 48 ft. over SW. slope.
35.00	Spur, slopes NW.; desc. 20 ft. over N. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 1 in. into exposed surface rock, with a stone 8x8x6 ins. mkd. with a cross (+) deposited at base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S31   S32 1937

SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

Chains

49.67 Desc. 82 ft. over N. slope to Right rim of Houserock Canyon, bears NE. and SW. Enter said canyon.  
Discontinue chaining on sec. line at this point owing to precipitous broken slopes in the canyon, and triangulate across canyon as follows:



Designate 49.67 ch. station on line bet. secs. 31 and 32 as point "A". Set flag "B" N. 0°03'W. at a point 10 lks. N. from the left or N. rim of Houserock Canyon, the vertical angle to which from point "A" is 0°. From flag "B" chain a base S. 89° 57'W., 9.94 chs. and set flag "C" which bears N. 16°20'W. from point "A". Included angles of the triangle "A-B-C" are 16°17', 90°00' and 73°43', the sum of which is 180° 00'.

- Chained dist. to "A" = 49.67 chs. N. 0°03'W.
- Triangulated dist. "A" to "B" = 34.03 "
- From cor. of secs. 5, 6, 31 and 32 on S. bdy. to point "A" = 83.70 chs. N. 0°03'W.
- Line bet. secs. 31 and 32 = 80.00 "
- From point for cor. of secs. 29, 30, 31 and 32 to point "A" = 3.70 chs. N. 0°03'W.

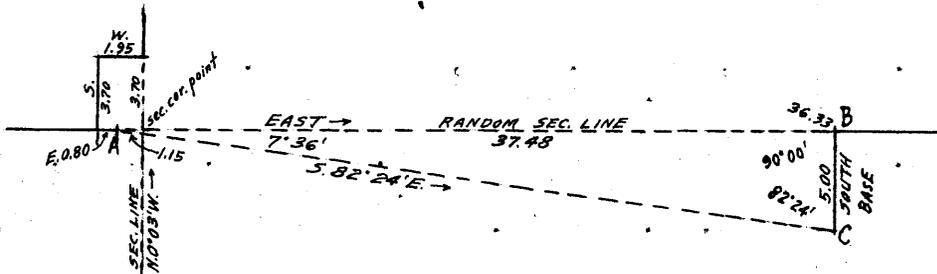
63.00 (Approx.) Wash, 50 lks. wide, course NE. in bottom of Houserock Canyon, course NE., about 760 ft. below the rims. Ascend over precipitous broken SE. slope to

80.00 True point for cor. of secs. 29, 30, 31 and 32, on precipitous slope on left wall of Houserock Canyon, where it is inaccessible and cannot be monumented, therefore establish witness cor. thereto at a point 3.70 chs. N. 0°03'W., as hereinafter described.

Land, nearly level, broken, rolling and mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.

From true point for cor. of secs. 29, 30, 31 and 32. East, on random line; bet. secs. 29 and 32.

The sec. cor. point, and approximately the W. 1/2 of this sec. line, are in the Houserock Canyon where chaining is impracticable, therefore triangulate as follows:



To attain a point on left rim of canyon West from the point for cor. of secs. 29, 30, 31 and 32, proceed to the point on sec. line bet. secs. 29 and 30 at 3.70 chs.

## SRUVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

26

Chains	
	<p>N. 0°03'W. from said sec. cor. point as determined by the triangulation on N. <math>\frac{1}{2}</math> of line bet. secs. 31 and 32 hereinbefore described. Thence West, 1.95 chs.; thence South 3.70 chs.; thence East 0.80 chs. to point "A" on left rim of Houserock Canyon 1.15 chs. W. from sec. cor. point.</p> <p>Set flag "B" on right rim of Houserock Canyon bearing East from "A" with a vertical angle of 0°.</p> <p>From flag "B" chain a base South 5.00 chs. and set flag "C" which bears S. 82°24'E.</p> <p>Included angles of the triangle "A-B-C" are 7°36', 90°00' and 82°24', the sum of which is 180°00'.</p> <p style="margin-left: 40px;">Triangulated dist. "A" to "B" = 37.48 chs. East</p> <p style="margin-left: 40px;">Dist. "A" to point for cor. of secs. 29, 30, 31 and 32 = <math>\frac{1.15}{30.33}</math> " "</p> <p style="margin-left: 40px;">Dist. sec. cor. point to "B" = 30.33 chs. East</p>
36.33	<p>Triangulation point "B".</p> <p>Continue line and measurement by chaining.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	<p>Intersect the cor. of secs. 28, 29, 32 and 33.</p> <p>Thence</p> <p>West, on true line, bet. secs. 29 and 32.</p> <p>Over gently rolling land, thru scattering undergrowth. Asc. 63 ft. over SE. slope.</p>
17.56	Ridge, bears NE. and SW.; desc. 10 ft. over NW. slope.
21.00	Asc. 17 ft. over NE. slope.
27.55	Spur, slopes N.; desc. 79 ft. over W. slope.
35.86	Wash, 10 lks. wide, course N.; asc. 55 ft. over E. slope to
39.99	<p>Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bedrock, with a stone 6x4x10 ins. mkd. with a cross (+) deposited at base, and in a mound of stone to top, for <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p> <p style="text-align: center;"><math>\frac{1}{4} \frac{S 29}{S 32}</math></p> <p style="text-align: center;">1937</p> <p>Asc. 18 ft. over E. slope.</p>
43.65	<p>Right rim of Houserock Canyon, bears NE. and SW. Enter mountainous land in canyon. Discontinue chaining. Measurement of remainder of line by triangulation hereinbefore described.</p>
59.00	Wash, 50 lks. wide, course NE. in bottom of Houserock Canyon. Ascend over precipitous broken SE. slope to
79.98	<p>The true point for cor. of secs. 29, 30, 31 and 32, on left wall of canyon. Witness cor. established at 3.70 chs. N. 0°03'W. as hereinafter described.</p> <p>Land, gently rolling, broken and mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.</p>

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

27

Chains	
	From true point for cor. of secs. 29, 30, 31 and 32. West, on random line, bet. secs. 30 and 31. Measurement to left rim of Houserock Canyon by offset from 3.70 ch. station on line bet. secs. 29 and 30, as hereinbefore described in connection with triangulation of part of line bet. secs. 29 and 32.
1.15	Left rim of Houserock Canyon, bears NE. and SW. Leave canyon. Continue line and measurement by chaining.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.39	Intersect W. bdy. of the Tp. 7 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, 2 ins. diam., projecting 12 ins. above ground, firmly set, mkd. on brass cap and witnessed as described in the official record.  Thence N. 89°57'E. on true line, bet. secs. 30 and 31. Over nearly level land, thru scattering undergrowth.
10.00	Desc. gradually over NE. slope.
12.50	Small drain, course N. near head; asc. gradually over NW. slope.
20.00	Point of low spur slopes NE.; desc. 35 ft. over E. slope.
28.00	Wash, 10 lks. wide, course SE.; asc. 15 ft. over SW. slope to
36.74	Drain, course SW.; asc. 17 ft. over NW. slope to
39.39	Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bedrock, with a stone 12x8x4 ins. marked with a cross (+) deposited at base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. with brass cap marked  $\frac{1}{4} \frac{S \ 30}{S \ 31}$ 1937
	Asc. slightly over N. slope to
41.50	Same drain; course NW. from E., in botton of rocky ravine. Asc. 69 ft. along bottom of ravine to
49.40	Head of ravine; course W.; asc. 35 ft. over SW. slope to
59.35	Saddle between spur sloping S. and rocky knoll S. of line; desc. 80 ft. over SE. slope to
78.24	Left rim of Houserock Canyon, bears NE. and SW. Discontinue chaining. Descend over precipitous SE. slope on canyon wall. Measurement to sec. cor. point by triangulation and offset as hereinbefore described.
79.39	The true point for cor. of secs. 29, 30, 31 and 32, witnessed 3.70 chs. N. 0°03'W. as hereinafter described.  Land, nearly level, gently rolling, broken and mountainous. Soil, rocky, 3rd and 4th rates.

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

28

Chains	<p>Timber, none. Undergrowth, blackbrush, brigham tea and cacti.</p> <hr/> <p>From true point for cor. of secs. 29, 30, 31 and 32. N. 0°03'W., bet. secs. 29 and 30.</p> <p>Over mountainous land, ascending precipitous broken SE. slope of left wall of Houserock Canyon. Measurement to 3.70 ch. station by triangulation hereinbefore described and return chaining of 10 lks. to</p> <p>3.60 Left rim of Houserock Canyon, bears NE. and SW. Leave canyon and mountainous land. Thence over rolling land, thru scattering undergrowth. Continue line and measurement by chaining.</p> <p>3.70 Set an iron post, 3 ft. long, 2 ins. in diam., over a cross (+) chiseled in exposed surface rock, and in a mound of stone to top, for witness cor. to cor. of secs. 29, 30, 31 and 32, with brass cap marked</p> <div style="text-align: center;"> <table border="1"> <tr><td>T38N</td><td>R6E</td></tr> <tr><td>S30</td><td>S29</td></tr> <tr><td>S31</td><td>S32</td></tr> </table> <p>WC 1937</p> </div> <p>Ascend 78 ft. over SE. slope to</p> <p>13.10 Rim of bench, bears NE. and NW. Leave rolling and enter nearly level land on bench.</p> <p>37.00 Descend slightly over NW. slope to</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor. with brass cap marked</p> <div style="text-align: center;"> <table border="1"> <tr><td>S30</td><td>S29</td></tr> </table> <p>1937</p> </div> <p style="text-align: right;">and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor.</p> <p>40.50 Head of draw, course W.; leave nearly level and enter gently rolling land. Ascend 25 ft. over SW. slope.</p> <p>54.50 Low spur, slopes NW.; desc. 20 ft. over N. slope to</p> <p>65.00 Reenter nearly level land, bears E. and W.</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, with brass cap marked</p> <div style="text-align: center;"> <table border="1"> <tr><td>T38N</td><td>R6E</td></tr> <tr><td>S19</td><td>S20</td></tr> <tr><td>S30</td><td>S29</td></tr> </table> <p>1937</p> </div> <p style="text-align: right;">and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.</p> <p>Land, mountainous, rolling, nearly level and gently rolling. Soil, rocky, 3rd and 4th rates. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.</p>	T38N	R6E	S30	S29	S31	S32	S30	S29	T38N	R6E	S19	S20	S30	S29
T38N	R6E														
S30	S29														
S31	S32														
S30	S29														
T38N	R6E														
S19	S20														
S30	S29														

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

29

Chains	East, on random line, bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
63.20	Traverse point.
65.00	Left rim of Houserock Canyon, bears NE. and SW. Discontinue chaining on sec. line owing to precipitous slopes of the canyon wall ahead, and obtain measurement and bearing to the true point for cor. of secs. 20, 21, 28 and 29 by a traverse in sec. 20 as follows:  From 63.20 ch. station,  N. $57^{\circ}00'E.$ , 17.78 chs. thence North, 1.94 chs. thence East, 1.88 chs. to point on sec. line bet. secs. 20 and 21, 11.62 chs. N. $0^{\circ}03'W.$ : from sec. cor. point, determined by triangulation hereinbefore described in notes of survey of line bet. secs. 28 and 29.  The latitude and departure of the traverse from 63.20 ch. station on random line bet. secs. 20 and 29 to 11.62 ch. station on line bet. secs. 20 and 21, are 11.62 chs. N. and 16.79 chs. E. respectively. The random line extended East would therefore at  80.00 Intersect the true point for cor. of secs. 20, 21, 28 and 29.  Thence,  West, on true line, bet. secs. 20 and 29.  Over mountainous land, in Houserock Canyon, ascending over precipitous broken SE. slope on the left wall of the canyon.  Measurement by traverse in sec. 20 as hereinbefore described.  15.00 Left rim of Houserock Canyon, bears NE. and SW. Leave canyon and mountainous land, and enter rolling and broken land.  Continue line and measurement by chaining.  Ascend slightly over SE. slope.  16.55 Toe of spur, slopes S., desc. 100 ft. over SW. slope.  26.70 Wash, 25 lks. wide, course SE.; asc. 73 ft. over E. slope to  35.00 Point of flat topped spur, sloping E. Thence over nearly level land on top of spur, ascending slightly to  40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked  $\frac{1}{4} \begin{array}{l} S 20 \\ S 29 \end{array}$  1937  and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

30

Chains	
	Continue over nearly level top of spur sloping E.; ascending gradually to
55.00	Low rim of mesa, bears NE. and SW. Leave top of spur. Thence over mesa.
70.00	Desc. gradually over nearly level NW. slope to
80.00	The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous, broken, rolling and nearly level. Soil, rocky, 3rd and 4th rates. Timber, none. Undergrowth, blackbrush, brigham tea, soto and cacti.
	S. 89°57'W., on random line, bet. secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.31	Intersect the W. bdy. of the Tp. at 7 lks. S. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, 2 ins. diam., projecting 10 ins. above ground, firmly set, marked on brass cap and witnessed as described in the official record.
	Thence, East, on true line, bet. secs. 19 and 30. Over level land, thru scattering undergrowth.
10.00	Begin gradual ascent over nearly level NW. slope.
39.31	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4} \frac{S 19}{S 30}$
	1937
	dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist.
	Continue over nearly level land, thru scattering undergrowth. Asc. gradually over NW. slope to
59.30	Low rim of mesa, bears NE. and SW. Thence over mesa, continuing over nearly level land, ascending slightly over NW. slope to
79.31	The cor. of secs. 19, 20, 29 and 30.
	Land, level and nearly level. Soil, gravelly and rocky, 3rd and 4th rates. Timber, none. Undergrowth, blackbrush, brigham tea, soto and cacti.
	N. 0°03'W., bet. secs. 19 and 20.
	Over nearly level land, on mesa, thru scattering undergrowth.
	Desc. gradually over NW. slope to
25.00	Low rim of mesa, bears NE. and SW.; leave mesa. Thence over gently rolling land, continuing gradual descent over NW. slope.

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

31

## Chains

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

$\frac{1}{4}$   
S19 | S20

1937

dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist.

Continue over gently rolling land, descending over NW. slope to

62.00 Drain, 5 lks. wide, course NW.; thence along W. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, with brass cap marked

T38N R6E  
S18 | S17  
-----  
S19 | S20

1937

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

Land, nearly level and gently rolling.

Soil, gravelly and rocky, 3rd and 4th rates.

Timber, none.

Undergrowth, blackbrush, brigham tea, soto and cacti.

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

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

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

Thence

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

Over nearly level land, sloping N., thru scattering undergrowth.

28.80 Small drain, course N.

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

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

1937

dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist.

Continue over nearly level land, sloping N.

57.00 Desc. slightly over NW. slope.

70.00 Low rim bears N. and S. Thence over gently rolling land. Desc. 15 ft. over W. slope to

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

Land, nearly level and gently rolling.

Soil, gravelly and rocky, 3rd and 4th rates.

Timber, none.

Undergrowth, blackbrush, brigham tea, soto and cacti.

## SURVEY: SUBDIVISIONS OF PART OF T. 38 N., R. 6 E.

32

Chains	West, on random line, bet. secs. 18 and 19.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.30	Intersect the cor. of secs. 13, 18, 19 and 24, on the W. bdy. of the Tp., which is an iron post, 2 ins. diam., projecting 10 ins. above ground, firmly set, mkd. on brass cap and witnessed as described in the official record.
	Thence
	East, on true line, bet. secs. 18 and 19.
	Over gently rolling land, thru scattering undergrowth. Desc. 22 ft. over SE. slope.
10.00	Wash, 30 lks. wide, course NE., asc. 30 ft. over NW. slope.
25.00	W. edge of top of spur, brs. NE. and SW. Thence across nearly level top of spur sloping N.
30.00	E. edge of top of spur, brs. NW. and SE. Leave top of spur.
	Desc. 30 ft. over NE. slope to
39.30	Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bedrock, with a stone 6x8x12 ins. marked with a cross (+) deposited at base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4} \begin{array}{c} S 18 \\ S 19 \end{array}$
	1937
	Continue over gently rolling land; desc. gradually over NE. slope.
44.28	Drain, course N.; asc. 30 ft. over W. slope.
65.30	Spur, slopes N.; desc. 25 ft. over E. slope.
71.25	Wash, 5 lks. wide, course N.; asc. 33 ft. over W. slope to
79.30	The cor. of secs. 17, 18, 19 and 20.
	Land, gently rolling and nearly level. Soil, rocky, 3rd and 4th rate, Timber, none. Undergrowth, blackbrush, brigham tea, soto and cacti.
	N. 0°03'W., bet. secs. 17 and 18.
	Over gently rolling land, thru scattering undergrowth. Desc. 16 ft. over W. slope.
10.00	Asc. 22 ft. over SW. slope.
18.00	Desc. 29 ft. over NW. slope.
23.00	Asc. 10 ft. over SW. slope.
26.50	Desc. 38 ft. over NW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

33

Chains							
	$\frac{1}{4}$ S18   S17 1937 and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.						
	Desc. 50 ft. over NW. slope.						
47.70	Wash, 40 lks. wide, course NE.; asc. 25 ft. over SE. slope.						
57.50	Point of spur, slopes E.; desc. 10 ft. over NE. slope.						
63.00	Wash, 25 lks. wide, course E.; asc. gradually over SE. slope to						
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, with brass cap marked						
	<table border="1" style="margin: auto;"> <tr> <td>T38N</td> <td>R6E</td> </tr> <tr> <td>S 7</td> <td>S 8</td> </tr> <tr> <td>S18</td> <td>S17</td> </tr> </table> 1937 dig pits 18x18x12 ins. in each sec. 3 ft. dist. Land, gently rolling. Soil, gravelly and rocky, 3rd and 4th rates. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.	T38N	R6E	S 7	S 8	S18	S17
T38N	R6E						
S 7	S 8						
S18	S17						
	East, on random line, bet. secs. 8 and 17.						
40.00	Set temp. $\frac{1}{4}$ sec. cor.						
80.00	Intersect the cor. of secs. 8, 9, 16 and 17.						
	Thence						
	West, on true line, bet. secs. 8 and 17.						
	Over gently rolling land, thru scattering undergrowth. Desc. 53 ft. over W. slope to						
8.50	Wash, 10 lks. wide, course N. 70°W.; asc. 8 ft. over NE. slope.						
11.80	Desc. 23 ft. over W. slope.						
15.75	Wash, 20 lks. wide, course N.; asc. 37 ft. over E. slope.						
20.00	Spur, slopes N.; desc. 62 ft. over NW. slope.						
32.22	Wash, 15 lks. wide, course NE.; asc. 33 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, with a stone 6x6x12 ins. mkd. with a cross (+) deposited at base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked						
	$\frac{1}{4}$ $\frac{S 8}{S 17}$ 1937 Asc. gradually over E. slope.						

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

34

Chains	
46.20	Spur, slopes NE.; desc. 57 ft. over NW. slope.
59.20	Wash, 30 lks. wide, course NE.; asc. 35 ft. over SE. slope to
80.00	The cor. of secs. 7, 8, 17 and 18. Land, gently rolling. Soil, gravelly and rocky, 3rd and 4th rates. Timber, none. Undergrowth, blackbrush, soto, brigham tea and cacti.
	West, on random line, bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.19	Intersect W. bdy. of the Tp. 11 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, 2 ins. diam., projecting 8 ins. above ground, firmly set, mkd. on brass cap and witnessed as described in the official record.
	Thence
	S. 89°55'E., on true line, bet. secs. 7 and 18.
	Over gently rolling land, thru scattering undergrowth. Desc. 85 ft. over SE. slope to $\frac{1}{4}$ sec. cor.
4.00	Old road, bears N. 70°E. and S. 70°W.
21.80	U.S. Highway No. 89 bears N. 60°E. and S. 60°W.
39.19	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ $\frac{S 7}{S 18}$
	1937
	and raise a mound of
	stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
	Continue over gently rolling land; desc. 90 ft. over SE. slope to
79.19	The cor. of secs. 7, 8, 17 and 18. Land, gently rolling. Soil, gravelly and rocky, 3rd and 4th rates. Timber, none. Undergrowth, blackbrush, brigham tea, soto and cacti.
	N. 0°03'W., bet. secs. 7 and 8.
	Over gently rolling land, thru scattering undergrowth. Asc. gradually over SE. slope.
5.00	Thence over E. slope, descending gradually to
20.00	Desc. 28 ft. over NE. slope to wash.
33.40	U.S. Highway No. 89, bears N. 60°E. and S. 60°W.
33.60	Wash, 12 lks. wide, course E.; asc. 15 ft. over SE. slope to $\frac{1}{4}$ sec. cor.
35.00	Old road, bears NE, and SW.

SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

Chains

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

$\frac{1}{4}$   
 S7 | S8  
 1937

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

Thence over E. slope

55.00 Desc. gradually over NE. slope to

61.50 Wash, 15 lks. wide, course E.; asc. slightly to

63.60 Wash, 15 lks. wide, course S. 70°E.; asc. slightly over S. slope.

65.00 Point of spur, slopes SE.; desc. 25 ft. over NE. slope.

73.50 Asc. 29 ft. over S. slope.

78.50 Spur, slopes E.; desc. slightly over NE. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for the cor. of secs. 5, 6, 7 and 8, with brass cap marked

T38N R6E  
 S 6 | S 5  
 S 7 | S 8  
 1937

and raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Land, gently rolling.  
 Soil, gravelly and rocky, 3rd and 4th rates.  
 Timber, none.  
 Undergrowth, blackbrush, brigham tea and cacti.

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

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

80.02 Intersect N. and S. line 4 lks. S. of the cor. of secs. 4, 5, 8 and 9.

Thence

S. 89°58'W., on true line, bet. secs. 5 and 8.

Over rolling land, thru scattering undergrowth, along S. slope.

4.00 Enter wash, 10 lks. wide, course SE. from W.; asc. gradually in wash to

10.70 Leave same wash, course E. from NW.; asc. 58 ft. over NE. slope.

17.00 Desc. slightly over NW. slope.

20.30 Drain, 5 lks. wide, course NE. Thence over gently rolling land. Asc. gradually over NE. slope.

34.70 Old road, bears NE. and SW.

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

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Chains

37.40 Wash, 15 lks. wide, course NE.; asc. slightly 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., with brass cap marked

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

1937

and raise a mound of stone, 3 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Continue over gently rolling land; asc. gradually over S. slope.

41.13 U.S. Highway No. 89, bears N. 45°E. and S. 45°W.

65.57 Same wash crossed at 37.40 ch. station, 15 lks. wide, course SE.; asc. gradually over NE. slope to

67.67 Same wash, course NE.; thence along S. slope.

70.95 Same wash, course SE.; asc. 60 ft. over NE. slope to

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

Land, rolling and gently rolling.

Soil, gravelly and rocky, 3rd and 4th rates.

Timber, none.

Undergrowth, blackbrush, brigham tea, soto and cacti.

N. 89°55'W., on random line, bet. secs. 6 and 7.

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

79.16 Intersect W. bdy. of the Tp., 7 lks. N. of the cor. of secs. 7 and 12, which is an iron post, 2 ins. in diam., projecting 16 ins. above ground, firmly set in ground and mound of stone, mkd. on brass cap and witnessed as described in the official record.

Thence

S. 89°58'E., on true line, bet. secs. 6 and 7.

Over mountainous land, thru scattering undergrowth. Desc. 516 ft. over steep rocky NE. slope.

22.75 Wash, 15 lks. wide, in bottom of gulch, course SE.; asc. 157 ft. over steep broken SW. slope to

31.86 Point of spur, slopes S.; desc. 144 ft. over steep broken SE. slope to

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

$$\frac{1}{4} \frac{S 6}{S 7}$$

1937

and raise a mound of stone, 3 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Desc. 68 ft. over SE. slope to

42.76 Wash, 10 lks. wide, in gulch, course SE.; desc. 98 ft. over steep broken S. slope to

## SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

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Chains	
47.43	Same wash, course NE.; asc. 25 ft. over NW. slope.
51.00	Desc. 39 ft. over NE. slope.
55.12	Same wash, course SE.; asc. 79 ft. over SW. slope.
64.00	Spur, slopes SE. from N.; desc. 114 ft. over NE. slope to
79.16	The cor. of secs. 5, 6, 7 and 8.  Land, mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, blackbrush, brigham tea and cacti.
	N. 0°07'W., on random line, bet. secs. 5 and 6.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.05	Intersect the N. bdy. of the Tp. 2 lks. W. of the cor. of secs. 5, 6, 31 and 32, which is an iron post, 2 ins. in diam., projecting 10 ins. above ground, firmly set, mkd. on brass cap and witnessed as described in the official record.  Thence,  S. 0°06'E. on true line, bet. secs. 5 and 6.  Over mountainous land, thru scattering undergrowth. Desc. 150 ft. over SE. slope.
19.12	Wash, 5 lks. wide, course SE.; asc. 26 ft. over NE. slope.
20.00	Point of spur, slopes SE.; desc. 33 ft. over S. slope.
24.14	Wash, 5 lks. wide, course E.; asc. 18 ft. over N. slope.
25.15	Point of spur, slopes E.; desc. 69 ft. over S. slope.
28.61	Wash, 7 lks. wide, course E.; asc. 52 ft. over N. slope.
30.15	Spur, slopes E.; desc. 73 ft. over S. slope.
35.76	Wash, 10 lks. wide, course E.; asc. 49 ft. over N. slope.
37.35	Spur, slopes E.; desc. 38 ft. over broken SE. slope to
40.05	Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, with a stone 12x10x6 ins. mkd. with a cross (+) deposited at base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. with brass cap mkd.  $\frac{1}{4}$ S6   S5 1937
	Desc. 135 ft. over broken SE. slope to
47.33	Wash, 5 lks. wide, course SE.; asc. 10 ft. over NE. slope.
48.50	Spur slopes SE.; desc. 100 ft. over SW. slope.
50.65	Wash, 10 lks. wide, course SE.; asc. 54 ft. over NE. slope.
52.60	Point of spur, slopes E.; desc. 132 ft. over SE. slope.

SURVEY: SUBDIVISION OF PART OF T. 38 N., R. 6 E.

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Chains

- 57.40 Wash, 10 lks. wide, course E.; asc. 71 ft. over NE. slope.
- 59.75 Point of spur, slopes E.; desc. 91 ft. over S. slope.
- 68.35 Drain, 5 lks. wide, course SE.; asc. 10 ft. over NE. slope.
- 69.20 Point of spur, slopes SE.; desc. 49 ft. over S. slope.
- 75.55 Wash, 10 lks. wide, course E.; asc. 46 ft. over NE. slope to
- 80.05 The cor. of secs. 5, 6, 7 and 8.

Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, none.  
 Undergrowth, blackbrush, brigham tea and cacti.

TRAVERSE OF RIGHT RIM OF MARBLE CANYON OF THE  
COLORADO RIVER thru T. 38 N., R. 6 E.

BOOK 150

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## Chains

The following notes describe survey of a traverse of the right or west rim of the Marble Canyon of the Colorado River, downstream thru T. 38 N., R. 6 E. This traverse is chained unless otherwise stated, and follows said rim as closely as is practicable consistent with safety and the number of courses is reduced to the minimum.

From a point on N. bdy. of Tp. 11.96 chs. E. from the  $\frac{1}{4}$  sec. cor. of secs. 1 and 36, Ts. 38 and 39 N., R. 6 E. and 1.04 chs. W. from the right rim of Marble Canyon.

Traverse thru sec. 1.

Over rolling and broken land, thru scattering undergrowth.

S. 59°41'W., 60.08 chs. to the witness cor. to  $\frac{1}{4}$  sec. cor. of secs. 1 and 2, at 30.33 chs. S. 0°11'E. from the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the Tp. and 12 lks. N. from point where right rim of Marble Canyon merges with left rim of a side canyon from SW.

Land, rolling and broken.

Soil, rocky, 4th rate.

Timber; none.

Undergrowth, blackbrush, brigham tea and cacti.

From the witness cor. to  $\frac{1}{4}$  sec. cor. of secs. 1 and 2.

Traverse thru sec. 2.

Over mountainous land, across mouth of side canyon, course NE.

S. 9°16'W., 16.64 chs. to a point near right rim of Marble Canyon bearing SE. and right rim of side canyon bearing SW. This course was triangulated.

Thence

S. 18°30'E., 8.69 chs. over gently rolling land to temp. monument set on sec. line bet. secs. 1 and 2 at 54.99 chs. S. 0°11'E. from cor. of secs. 1, 2, 35 and 36 on N. bdy. of the Tp.

Land, mountainous and gently rolling.

Soil, rocky, 4th rate.

Timber; none.

Undergrowth, blackbrush, brigham tea and cacti.

From 54.99 ch. station on sec. line bet. secs. 1 and 2.

Traverse thru sec. 1.

Over gently rolling land, thru scattering undergrowth.

S. 18°30'E., 3.63 chs., thence,

S. 16°17'W., 4.04 chs. to temp. monument on sec. line bet. secs. 1 and 2 at 62.30 chs. S. 0°11'E. from cor. of secs. 1, 2, 35 and 36 on N. bdy. of the Tp.

TRAVERSE OF RIGHT RIM OF MARBLE CANYON OF THE  
COLORADO RIVER thru T. 38 N., R. 6 E.

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Land, gently rolling.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

From 62.30 ch. station on sec. line bet. secs. 1 and 2.

Traverse thru sec. 2.

Over gently rolling land, thru scattering undergrowth.

S. 16°30'W., 7.20 chs., thence,

S. 10°30'E., 4.92 chs., thence,

S. 18°15'E., 3.80 chs., to temp. monument on sec. line  
bet. secs. 1 and 2 at 77.65 chs.  
S. 0°11'E., from cor. of secs. 1,  
2, 35 and 36, on N. bdy. of the  
Tp.

Land, gently rolling.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

From 77.65 ch. station on sec. line bet. secs. 1 and 2.

Traverse thru sec. 1.

Over gently rolling land, thru scattering undergrowth.

S. 28°32'E., 2.96 chs. to temp. monument on sec. line bet.  
secs. 1 and 12 at 1.40 chs. E.  
from cor. of secs. 1, 2, 11 and  
12.

Land, gently rolling.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

From point on sec. line bet. secs. 1 and 12 at 1.40 chs.  
E. from sec. cor.,

Traverse thru sec. 12.

Over gently rolling land, thru scattering undergrowth.

S. 6°52'W., 11.72 chs. to temp. monument on sec. line bet.  
secs. 11 and 12, at 11.63 chs. S.  
0°01'E. from cor. of secs. 1, 2,  
11 and 12.

Land, gently rolling.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

From temp. monument on sec. line bet. secs. 11 and 12 at  
17.63 chs. S. 0°01'E. from cor. of secs. 1, 2, 11 and  
12.

Traverse thru sec. 11.

Over rolling and broken land, thru scattering undergrowth.

TRAVERSE OF RIGHT RIM OF MARBLE CANYON OF THE  
COLORADO RIVER thru T. 38 N., R. 6 E.

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## Chains

S. 21°07'W., 24.19 chs.; thence,  
S. 12°45'W., 33.38 chs.; thence,  
S. 5°30'W., 7.29 chs., to temp. monument on sec. line  
bet. secs. 11 and 14 at 63.20 chs.  
E. from cor. of secs. 10, 11, 14  
and 15.

Land, rolling and broken.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

From 63.20 ch. station on sec. line bet. secs. 11 and 14.

Traverse thru sec. 14.

Over rolling and broken land, thru scattering undergrowth.

S. 30°15'W., 5.69 chs., thence,

S. 40°17'W., 12.60 chs., thence,

S. 67°45'W., 40.08 chs., thence,

S. 62°59'W., 16.92 chs. to witness cor. to the  $\frac{1}{4}$  sec. cor.  
of secs. 14 and 15 on sec. line  
bet. said secs. at 37.39 chs. S.  
0°01'E., from cor. of secs. 10,  
11, 14 and 15.

Land, rolling and broken.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush; brigham tea and cacti.

From witness cor. to  $\frac{1}{4}$  sec. cor. of secs. 14 and 15.

Traverse thru sec. 15.

Over rolling and broken land, thru scattering undergrowth.

S. 62°32'W., 10.58 chs., thence,

S. 50°00'W., 37.47 chs.; thence,

S. 45°19'W., 19.40 chs., to temp. monument on sec. line  
bet. secs. 15 and 22 at 28.10 chs.  
E. from cor. of secs. 15, 16, 21  
and 22.

Land, rolling and broken.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush; brigham tea and cacti.

From temp. monument on line bet. secs. 15 and 22 at  
28.10 chs. East from sec. cor.

Traverse thru secs. 22 and 27.

Over rolling and broken land, thru scattering undergrowth.

S. 38°00'W., 7.95 chs., thence,

S. 27°00'W., 4.96 chs., thence,

TRAVERSE OF RIGHT RIM OF MARBLE CANYON OF THE  
COLORADO RIVER thru T. 38 N., R. 6 E.

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South 13.63 chs., thence,  
S. 6°00'W., 10.17 chs., thence,  
S. 6°43'W., 13.40 chs., to point where the right rim of Marble Canyon bearing NE., merges with the left rim of Houserock Canyon, bearing S. 80°W. Discontinue chaining and triangulate across the mouth of Houserock Canyon, and mountainous land along the Marble Canyon rim to the south thereof.

S. 7°44'W., 90.08 chs. At approximately 15 chs. on this course cross bottom of Houserock Canyon, about 150 lks. wide, course E. At approximately 40 chs. cross rocky broken point where the right rim of Marble Canyon, bearing SW. merges with right rim of Houserock Canyon, bearing W. At the end of this course, leave mountainous and enter rolling land, resuming chaining.

S. 16°02'W., 9.06 chs., thence,  
S. 45°38'W., 5.05 chs., to temp. monument on sec. line bet. secs. 27 and 28 at 10.77 chs. N. 0°02'W. from the true point for cor. of secs. 27, 28, 33 and 34.

Land, rolling, broken and mountainous.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

From 10.77 ch. station on line bet. secs. 27 and 28.  
Traverse thru sec. 28.  
Over gently rolling land, thru scattering undergrowth.

S. 45°00'W., 2.89 chs., thence,  
S. 57°30'W., 7.18 chs., thence,  
S. 65°45'W., 11.85 chs., to temp. monument on sec. line bet. secs. 28 and 33 at 61.09 chs. E. from cor. of secs. 28, 29, 32 and 33.

Land, gently rolling.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

From 61.09 ch. station on line bet. secs. 28 and 33.  
Traverse thru sec. 33.  
Over rolling and broken land, thru scattering undergrowth.

S. 65°46'W., 25.73 chs., thence,  
S. 68°30'W., 1.58 chs., thence,

TRAVERSE OF RIGHT RIM OF MARBLE CANYON OF THE  
COLORADO RIVER thru T. 38 N., R. 6 E.

BOOK 107

43

Chains

N. 78°00'W., 21.81 chs., thence,  
S. 42°00'W., 20.35 chs., thence,  
S. 32°00'W., 2.25 chs., to temp. monument on sec. line  
bet. secs. 32 and 33 at 56.36  
chs. N. 0°03'W. from the true  
point for cor. of secs. 4, 5, 32  
and 33 on the S. bdy. of the Tp.

Land, rolling and broken.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

From witness cor. to  $\frac{1}{4}$  sec. cor. of secs. 32 and 33 on  
sec. line bet. said secs. at 46.91 chs. N. 0°03'W. from  
true point for cor. of secs. 4, 5, 32 and 33 on S. bdy.  
of Tp.

Traverse thru sec. 32.

Over rolling and broken land, thru scattering undergrowth.

West, 0.54 chs., thence,

S. 24°30'W., 39.18 chs., thence,

S. 46°00'E., 16.21 chs., to the witness cor. to cor. of  
secs. 4, 5, 32 and 33 on the S.  
bdy. of the Tp. which is 5.17  
chs. W. from true cor. point.

Land, rolling and broken.  
Soil, rocky, 4th rate.  
Timber, none.  
Undergrowth, blackbrush, brigham tea and cacti.

GENERAL DESCRIPTION.

The portion of this township surveyed as described in the foregoing field notes includes all of the surveyable land situate west of the Colorado River. The said river flows southwesterly thru the township from the northeast corner to the south boundary of section 33, thru a deep canyon with almost perpendicular rock walls about 1800 feet deep known as Marble Canyon. This canyon is broken into in sections 22 and 27 by a side canyon known as Houserock Canyon which heads about one mile west of the southwest corner of the township. What is known as Houserock Wash is in the bottom of this canyon but carries no permanent flow of water. Another small side canyon enters Marble Canyon in section 2.

This part of the township contains nearly every variety of surface from level to mountainous, the mountainous land being confined mostly to the canyons and the northwest part of the township which lies on the southeast slope of the Vermillion Cliffs, the top of which, bearing northeast and southwest, is a short distance west from the northwest corner of the township.

The greater part of the surveyed portion of this township lies on a broad bench between the foot of the slopes of the Vermillion Cliffs and the Colorado River. The predominating surface is nearly level and gently rolling. The Houserock Canyon drains most of the southwest quarter of the township, except a small portion which drains directly into the Colorado River. Most of the northwest

quarter drains northeasterly into Soap Creek Canyon, in the adjoining township to the north, from which it drains easterly into the Colorado River. The side canyon in section 2, drains the greater portion of the northeast quarter of the township.

Aside from the bare rock walls of the canyons, the soil of most of the surveyed area is gravelly and rocky, 3rd and 4th rate.

There is no timber in any part of the township.

The undergrowth, which is scattering over all parts, consists of blackbrush, brigham tea, soto and cacti.

There are no settlers in this township or improvements.

There are no springs and the only permanent water supply is that in the Colorado River.

There are no indications of valuable mineral deposits in any part.

U.S. Highway No. 89, crosses the northwest quarter of the township in a northeasterly southwesterly direction, extending northeasterly about six miles from the north boundary of the township to the Marble Canyon bridge over the Colorado River and southwesterly and westerly along the foot of Vermillion Cliffs to Jacobs Lake, thence northwesterly thru Fredonia, Arizona to Utah points. This highway carries all of the travel between Arizona and Utah points. The old road which was used prior to the construction of the highway, crosses the township in close proximity to the highway, crossing and recrossing same.

The center line of the Colorado River forms a part of the boundary of the Navajo Indian Reservation and all of this township to the east of the river is in said Indian Reservation and is unsurveyed at the present time.

The only present value of the lands in the surveyed portion is stock grazing, the quality of which is only fair.

#### FINAL TEST OF INSTRUMENT

March 28, 1937: at station at the  $\frac{1}{4}$  sec. cor. of secs. 13 and 18, T. 40 N., Rs. 7 and 8 E., G. & S.R. Meridian, Arizona, in latitude  $36^{\circ}52'N.$ , longitude  $111^{\circ}35'W.$ , and on the meridian determined at this station by Polaris observation on January 26 and 27, 1937, as hereinbefore described, test the solar apparatus of Young and Son's transit No. 8526 as follows:

At 9h. 00m., a.m., app.t., set off  $36^{\circ}52'N.$  on the lat. arc;  $2^{\circ}50\frac{1}{2}'S.$  on the decl. arc; and determine a meridian with the solar which agrees with the true meridian.

At app. noon, with the lat. arc unchanged, observe the sun on the meridian, and obtain a reading of  $2^{\circ}48'S.$  on the decl. arc, which agrees with the computed declination of the sur.

At 3h. 00m., p.m., app.t., with the lat. arc unchanged, set off  $2^{\circ}45'S.$  on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

As all of the solar observations taken during the usual

hours of solar work agree within 1' with the true meridian, conclude that this instrument has remained in satisfactory adjustment throughout the surveys executed with same, which are described in the foregoing field notes.

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BOOK 4156

CERTIFICATE OF UNITED STATES SURVEYOR

I, Elliott Pearson, Transitman (P.W.), hereby certify upon honor that, in pursuance  
 supplemental  
 of special instructions received from the District Cadastral Engineer for Arizona  
 bearing date of the 27th day of March, 19 36, I have well, faithfully, and truly  
 in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-  
 tions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_  
 Subdivision Lines of,  
 \_\_\_\_\_  
 and  
 \_\_\_\_\_  
 Traverse of Right Rim of Marble Canyon  
 \_\_\_\_\_  
 of the Colorado River thru  
 \_\_\_\_\_  
 Township 38 North, Range 6 East of the Gila and  
Salt River Meridian, in the State of Arizona, which are represented in  
 the foregoing field notes as having been executed by me, and under my direction; and that all the corners of  
 said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-  
 tions, and the supplemental  
 special written instructions of the District Cadastral Engineer for Arizona  
 and in the specific manner described in the field notes, and that the foregoing are the original field notes of  
 such survey.

Fredonia, Arizona  
January 4, 1938

*Elliott Pearson*  
 \_\_\_\_\_  
 Transitman (P.W.)

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,  
 Denver, Colorado, June 29, 1938

The foregoing field notes of the survey of \_\_\_\_\_  
 Part of the Subdivision Lines of  
 \_\_\_\_\_  
 and  
 \_\_\_\_\_  
 Traverse of Right Rim of Marble Canyon  
 \_\_\_\_\_  
 of the Colorado River thru  
 \_\_\_\_\_  
 Township 38 North, Range 6 East  
 \_\_\_\_\_  
 of the Gila and Salt River Meridian, in the State of Arizona  
 executed by Elliott Pearson, Transitman (P.W.)  
 supplemental  
 under special instructions dated March 27, 1936 for Group 181, Arizona, having been  
 critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys  
 they describe, are hereby approved.

*Charles J. Limson*  
 \_\_\_\_\_  
 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.