

3818

Book "G"

BOOK 3818

127  
ORIG  
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# FIELD NOTES

OF THE SURVEY OF THE

Part of the South Boundary,

and

Part of the Subdivisional Lines of

TOWNSHIP 36 NORTH, RANGE 5 EAST.

3818

Of the Gila & Salt River Base & Meridian,

In the State of Arizona

EXECUTED BY

W. E. Hiester, U. S. Surveyor,

and

Otis O. Gould, U. S. Transitman,

In the capacity of U. S. Surveyors, under Special Instructions dated April 23, 1926, issued by the District Cadastral Engineer to govern surveys included in Group No. 139 Arizona, which were approved by the Commissioner of the General Land Office, May 20, 1926, and Assignment Instructions dated Nov. 11, 1926 and Jan. 29, 1927.

Survey commenced March 10, 1927.

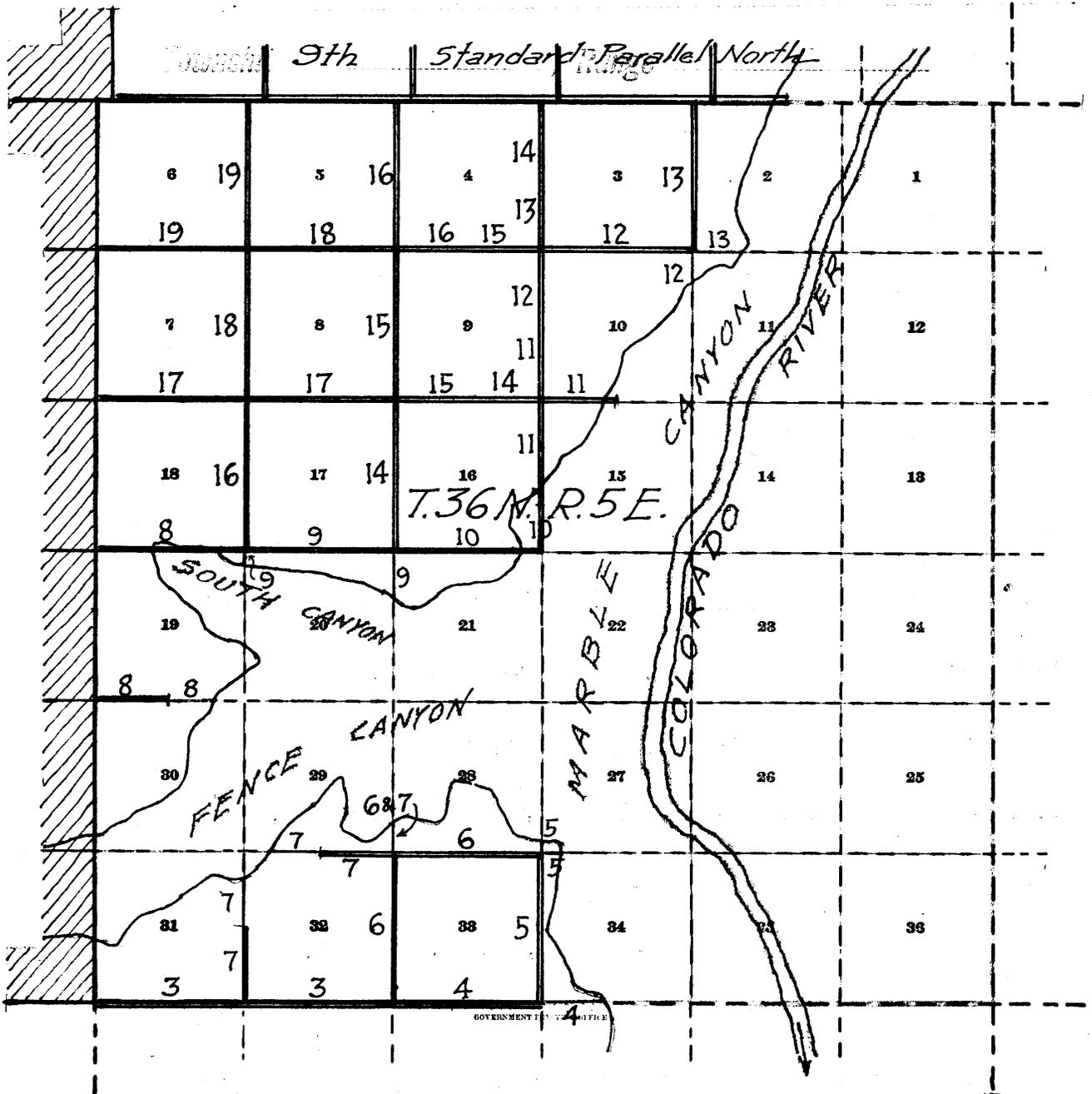
Survey completed April 1, 1927.

3818

Group 139 - Arizona

Field notes of Traverse of Canyon Rims on pages 22 to 26 hereof

INDEX DIAGRAM.



- Surveyed under this group.
- Blank lines measured to canyon rim intersections.
- Accepted surveys
- Unsurveyed.
- Areas surveyed as per accepted plats on file.

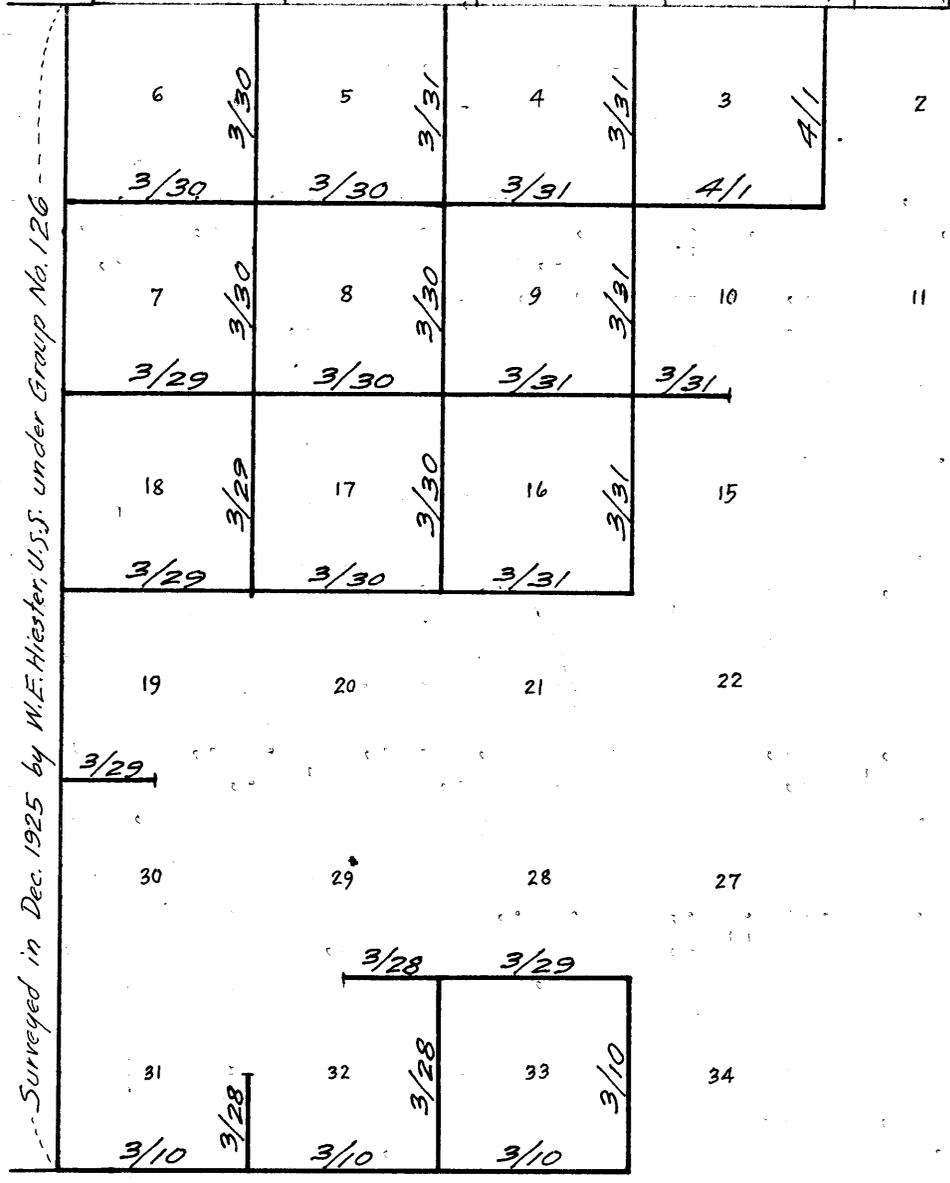
BOOK 3818

Book "G"  
GROUP 139- ARIZONA  
DATE DIAGRAM  
- 1927 -

1B

Township 36 North, Range 5 East

9th Standard Parallel North  
Notes and dates in Book "F" of this group



Surveyed in Dec. 1925 by W.E. Hiestor, U.S.S. under Group No. 126

Surveyed by Wm. E. Hiestor, U.S. Surveyor, on dates shown thereon.

Surveyed by Otis O. Gould, U.S. Transitman on dates shown thereon

Surveyed under this group. Notes and dates in other books.

Accepted surveys.

Surveys herein described were executed by William E. Hies-ter, U. S. Surveyor, using Buff light mountain transit No. 9208 and Otis O. Gould, U.S. Transitman, using Buff light mountain transit No. 9305, on dates shown on diagram on page 1 hereof. The instruments are equipped with U-shaped standards  $4\frac{1}{2}$  inch horizontal circles, 4 inch vertical circles, and improved Smith solar attachments; unless otherwise specified all azimuth determinations are accomplished with the solar attachments.

TEST OF BUFF TRANSIT NO. 9208.

March 9, 1927. Examine the adjustment of Buff transit No. 9208 and find no errors, then to test the solar apparatus by comparing its indications from observations made during a. m. and p.m. hours with a meridian established by Polaris observation, proceed as follows:

March 9, 1927, in camp near cor. of secs. 15, 16, 21 and 22, T. 37 N., R. 5 E., G. & S. R. B. & M., Ariz., latitude  $36^{\circ} 35' 52''$  N., long.  $111^{\circ} 52' 16''$  W., at 8 h. 25 m., 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 about 10.00 chs. North.

Azimuth of Polaris at western elongation =  $1^{\circ} 21' 4''$ .

March 10, 1927, at 7 h. 30 m., a.m., lay off the azimuth of Polaris  $1^{\circ} 21'$  to the east, and mark the meridian thus determined by a tack in a stake driven firmly in the ground about 10.00 chs. N.

March 10, 1927, at 8 h. 00 m., a.m., app. t., set off  $36^{\circ} 36'$  N., on the lat. arc.,  $4^{\circ} 12'$  S., on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

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

TEST OF BUFF TRANSIT NO. 9305.

March 21, 1927. Examine the adjustment of Buff transit No. 9305 and correct all errors, then to test the solar apparatus by comparing its indications from observations made during a. m. and p.m. hours, with the meridian established by Polaris observation March 9, 1927, as described above, proceed as follows:

March 21, 1927, at 8 h. 0 m., a.m., app. t., set off  $36^{\circ} 36'$  N., on the lat. arc,  $0^{\circ} 8'$  N., on the decl. arc, and determine a meridian with the solar which agrees within 1' with the true meridian.

At 4 h. 0 m., p.m., app. t., with the lat. arc, unchanged, set off  $0^{\circ} 16'$  N. on the decl. arc, and determine a meridian with the solar, which agrees within 1' with the true meridian.

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

Survey of part of the South Boundary of T.36 N., R.5 E.

Chains.

From the cor. of Tps. 35 and 36, N., Rs. 4 and 5, E. G. and S.R., Base and Meridian., which is an iron post 3 ins. in diam., projecting 26 ins. above ground, firmly set in a mound of stone 5 ft. base 2 ft. high, and properly marked on brass cap,

38.40 East, on true line, bet. secs. 6 and 31. Over rolling land, thru scattering undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 2 ins. in the ground to bedrock, supported in a mound of stone, 5 ft. base, 2 1/2 ft. high, deposit a stone 12x8x6 ins. marked with a cross (X) at base of post, for the 1/4 sec. cor. of secs. 6 and 31, with brass cap marked,

1/4 S31 / S 6

1927

53.40 Head of draw, course NE.  
67.90 Wash, 20 lks. wide, course NW.

78.40 Set an iron post 3 ft. long, 2 ins. in diam., 2 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base 2 1/2 ft. high, deposit a stone 12x10x8 ins. marked with a cross (X) at base of post, for the cor. of secs. 5, 6, 31 and 32, with brass cap marked,

T36NR5E  
S31 | S32  
S 6 | S 5  
T35N  
1927

Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
No timber.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

5.90 East, on true line, bet. secs. 5 and 32.  
10.00 Over rolling land, thru scattering undergrowth.  
Descend 29 ft. over E. slope.  
Wash, 10 lks. wide, course N.  
Spur, slopes N.  
Descend 50 ft. over E. slope.  
19.40 Wash, 10 lks. wide, course NW.  
Ascend 31 ft. over W. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 2 ins. in the ground to bedrock, supported in a mound of stone, 5 ft. base, 2 1/2 ft. high, deposit a stone 12x12x12 ins. marked with a cross (X) at base of post, for the 1/4 sec. cor. of secs. 5 and 32, with brass cap marked,

1/4 S32 / S 5

1927

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

T36NR5E  
S32 | S33  
S 5 | S 4  
T35N  
1927

Chains.

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

Land, rolling prairie,

Soil, gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, sagebrush, blackbrush, cactus and grass.

7.31

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

Over rolling land, thru scattering undergrowth.

Descend 63 ft. over E. slope.

Wash, 20 lks. wide, course N.

Ascend 23 ft. over W. slope.

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for the  $\frac{1}{4}$  sec. cor. of secs. 4 and 33, with brass cap marked,

$$\frac{1}{4} \begin{array}{l} S33 \\ S 4 \end{array}$$

1927

80.00

Dig pits 18x18x12 ins., one each, E. and W. of cor. 3 ft. dist.

Set an iron post 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 10x10x10 ins. marked with a cross (X) at base of post, for the cor. of secs. 3, 4, 33 and 34, with brass cap marked,

$$\begin{array}{l} T36NR5E \\ \hline S33 | S34 \\ \hline S 4 | S 3 \\ T35 N \\ 1927 \end{array}$$

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, sagebrush, blackbrush, cactus and grass.

27.68

East, on blank line, bet. secs. 3 and 34 (W.  $\frac{1}{2}$ )

Over rolling land, thru scattering undergrowth.

Set temp. point, on rim of Marble Canyon, bearing, NW and SE., about 2,000 ft. above the Colorado River; as the rest of the S. Bdy. of the Tp. and all of the East Bdy., fall in the Marble Canyon of the Colorado River, where it is impracticable to survey, the line is discontinued at this point.

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, sagebrush, blackbrush, cactus and grass.

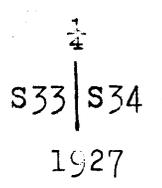
Survey of a portion of the Subdivision lines of T.36 N., R.5 E.

Chains.

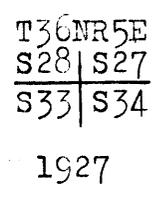
As portions of the following sections fall in Marble Canyon of the Colorado River, Fence Canyon and South Canyon, on very precipitous slopes, it is impracticable to complete secs. 2, 10, 11, 15, 19, 20, 21, 27, 28, 29, 30, 31, 32, and 34. All of secs. 1, 12, 13, 14, 22, 23, 24, 25, 26, 35 and 36 fall in Marble Canyon of the Colorado River and were not surveyed at this time. In running the blank line a temp. point is set upon reaching the rim of the Canyons, and the lines are discontinued at said points.

From the cor. of secs. 3, 4, 33 and 34, on the south boundary of the township, hereinbefore described, N.0°02'W., on true line, bet. secs. 33 and 34.

40.00 Over rolling land, thru scattering undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 10 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 12x12x10 ins. marked with a cross (X) at base of post, for the 1/4 sec. cor. of secs. 33 and 34, with brass cap marked,



80.00 Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, supported in a mound of stone 4 ft. base, 1 1/2 ft. high, deposit a stone 12x10x10 ins. marked with a cross (X) at base of post, for the cor. of secs. 27, 28, 33 and 34, with brass cap marked,



Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
No timber.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

7.96 East, on blank line, bet. secs. 27 and 34, (W 1/2) in. Over rolling land, thru scattering undergrowth. Set temp. point on the rim of the Marble Canyon, bears N. and S., about 2,000 ft. above the Colorado River. Land, rolling prairie. Soil, gravelly, 2nd and 3rd rate. No timber. Undergrowth, sagebrush, blackbrush, cactus and grass.

2.82 N.0°02'W., on blank line, bet. secs. 27 and 28, (S 1/2) in. Over rolling land, thru scattering undergrowth. Set temp. point on the Rim of Fence Canyon, bears NW. and SE., about the same depth as the Marble Canyon of the Colorado River. Land, rolling prairie. Soil, gravelly, 2nd and 3rd rate. No timber. Undergrowth, sagebrush, blackbrush, cactus and grass.

## Survey of a portion of the Subdivision lines of T.36 N., R.5 E.

6

Chains.

From the cor. of secs. 4, 5, 32 and 33, on the south boundary of the township, hereinbefore described,

Thence,

N.0°03'W., on true line, bet. secs. 32 and 33.

Over rolling land, thru scattering undergrowth.

Descend 73 ft. over NE. slope.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 2 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2½ ft. high, deposit a stone 12x12x12 ins. marked with a cross (X) at base of post, for the ¼ sec. cor. of secs. 32 and 33, with brass cap marked,

$$\frac{1}{4}$$

S32	S33
-----	-----

1927

53.50

Wash, 20 lks. wide, course NW.

80.00

Set an iron post 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 12x10x8 ins. marked with a cross (X) at base of post, for the cor. of secs. 28, 29, 32 and 33, with brass cap marked,

T36NR5E	
S29	S28
S32	S33

1927

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00

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

80.04

Set temp. ¼ sec. cor.

Fall 3 lks. N. of the cor. of secs. 27, 28, 33 and 34.

Thence,

N.89°59'W., on true line, bet. secs. 28 and 33.

Over rolling land, thru scattering undergrowth.

40.02

Set an iron post 3 ft. long, 1 in. in diam., 2 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2½ ft. high, deposit a stone 12x8x8 ins. marked with a cross (X) at base of post, for the ¼ sec. cor. of secs. 28 and 33, with brass cap marked.

$$\frac{1}{4} \frac{S28}{S33}$$

1927

45.30

Wash, 20 lks. wide, course NW.

46.90

Wash, 20 lks. wide, course N.

Ascend 65 ft. over E. slope.

80.04

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

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, sagebrush, blackbrush, cactus and grass.

N.0°03'W., on blank line, bet. secs. 28 and 29, (S½) in.  
Over rolling land, thru scattering undergrowth.

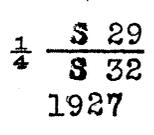
Survey of a portion of the Subdivision Lines of T. 36 N., R. 5 E.

Chains

13.87 Set temp. point on the rim of Fence Canyon, bears E. and W., about the same depth as the Marble Canyon of the Colorado River.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

-----  
 From cor. of secs. 28, 29, 32 and 33.  
 West, on true line, bet. secs. 29 and 32 (E.  $\frac{1}{2}$ ).  
 Over rolling land, thru scattering undergrowth.  
 Descend 119 ft. over SW. slope.

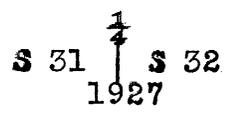
11.35 Wash, 20 lks. wide, course NW. Ascend 74 ft. over E. slope.  
 31.30 Descend 65 ft. over W. slope.  
 34.10 Wash, 20 lks. wide, course NE. Asc. 60 ft. over E. slope to  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 10 x 8 x 6 ins. marked with a cross (X) at base of post, for the  $\frac{1}{4}$  sec. cor. of secs. 29 and 32, with brass cap marked



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 Thence, West, on blank line, bet. secs. 29 and 32 (W.  $\frac{1}{2}$ ).  
 24.31 Set temp. point on the South Rim of Fence Canyon, bears NE. and SW., about the same depth as the Marble Canyon of the Colorado River.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

-----  
 From the cor. of secs. 5, 6, 31 and 32, on the South boundary of the Tp., hereinbefore described.  
 N. 0° 3' W., on true line, bet. secs. 31 and 32 (S.  $\frac{1}{2}$ ).  
 Over rolling land, thru scattering undergrowth.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 2 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2  $\frac{1}{2}$  ft. high, deposit a stone 24 x 12 x 8 ins. marked with a cross (X) at base of post, for the  $\frac{1}{4}$  sec. cor. of secs. 31 and 32, with brass cap marked,



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 Thence, N. 0° 03' W., on blank line, bet. secs. 31 and 32 (N.  $\frac{1}{2}$ ).  
 26.10 Set temp. point on the South Rim of Fence Canyon, bears NE. and SW., about the same depth as Marble Canyon of the Colorado River.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

## Survey of a portion of the Subdivision Lines of T. 36 N., R. 5 E.

Chains	<p>The cor. of secs. 19, 24, 25 and 30, on W. bdy. of Tp., is an iron post, 2 ins. in diam., projecting 30 ins. above ground, firmly supported in a mound of stone, and properly marked on brass cap.</p> <p>Thence East, on true line, bet. secs. 19 and 30 (W. <math>\frac{1}{2}</math>). Over rolling land, thru scattering undergrowth. Ascend 70 ft. over W. slope.</p> <p>8.60 Top of ascent, thence over rolling land.</p> <p>38.26 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 10 x 8 x 5 ins. marked with a cross (X) at base of post, for the <math>\frac{1}{4}</math> sec. cor. of secs. 19 and 30, with brass cap marked</p> <p style="text-align: center;"><math>\frac{1}{4}</math> <math>\frac{S 19}{S 30}</math> 1927</p> <p>Thence East, on blank line bet. secs. 19 and 30 (E. <math>\frac{1}{2}</math>). 26.66 Set temp. point on the rim of Fence Canyon, bears NE. and SW., about the same depth as Marble Canyon of the Colorado River. Land, rolling prairie. Soil, gravelly, 2nd and 3rd rate. No timber. Undergrowth, sagebrush, blackbrush, cactus and grass.</p> <p>-----</p> <p>The cor. of secs. 13, 18, 19 and 24, on W. bdy. of Tp., established in 1925, is an iron post 2 ins. in diam., projecting 30 ins. above ground, firmly set in a mound of stone 5 ft. base, 2 ft. high, and properly marked on brass cap.</p> <p>Thence East, on true line, bet. secs. 18 and 19. Over rolling land, thru scattering undergrowth. Descend 155 ft. over SE. slope.</p> <p>10.80 Wash, 40 lks. wide, course N. Asc. 75 ft. over NW. slope.</p> <p>23.20 Spur, slopes NE. Descend 230 ft. over E. slope.</p> <p>30.90 Wash, in bottom of South Canyon, 40 lks. wide, course S. Ascend 140 ft. over W. slope.</p> <p>34.70 Spur, slopes S.</p> <p>35.44 Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, supported in a mound of stone, 5 ft. base, 2 <math>\frac{1}{2}</math> ft. high, mark a cross (X) on surface rock at base of post, for the witness cor. to <math>\frac{1}{4}</math> sec. cor. of secs. 18 and 19, with brass cap marked</p> <p style="text-align: center;"><math>\frac{1}{4}</math> <math>\frac{S 18}{S 19}</math> W C 1927</p> <p>38.19 True point for <math>\frac{1}{4}</math> sec. cor. falls on side of cliffs where it can not be monumented, therefore, establish W.C. at 2.75 chs. W. as described above. Descend 500 ft. over SE. slope.</p> <p>50.00 Head of gulch, course SE. Asc. 500 ft. over SW. slope</p> <p>65.30 North rim of South Canyon, bears NW. and SE. Set temp. point for traverse of rim. Asc. 30 ft. over gradual SW. slope.</p> <p>68.40 Top of ascent, thence over rolling land.</p> <p>78.19 Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 17, 18, 19 and 20, with brass cap marked,</p>
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Survey of a portion of the Subdivision lines of T. 36 N., R. 5 E.

Chains

T 36 N R 5 E  
 $\frac{S 18}{S 19} | \frac{S 17}{S 20}$   
 1927

Dig pits 18 x 18 x 12 ins., one each NE., SE., SW. and NW. of cor. 3 ft. dist.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

3.75 S. 0° 03' E., on blank line, bet. secs. 19 and 20 (N.  $\frac{1}{4}$ ).  
 Over rolling land, thru scattering undergrowth.  
 Set temp. point on the N. rim of South Canyon, bears E. and W., about the same depth as Fence Canyon.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00 From cor. of secs. 17, 18, 19 and 20, East, on true line bet. secs. 17 and 20.  
 Over rolling land, thru scattering undergrowth.  
 Set an iron post 3 ft. long, 1 in. in diam., 10 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 10 x 8 x 7 ins. marked with a cross (X) at base of post, for the  $\frac{1}{4}$  sec. cor. of secs. 17 and 20, with brass cap marked

$\frac{1}{4} \frac{S 17}{S 20}$   
 1927

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 1  $\frac{1}{2}$  ft. high, deposit a stone 10 x 8 x 6 ins. marked with a cross (X) at base of post, for the cor. of secs. 16, 17, 20 and 21, with brass cap marked

T 36 N R 5 E  
 $\frac{S 17}{S 20} | \frac{S 16}{S 21}$   
 1927

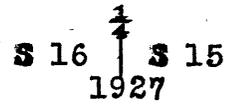
Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

22.40 S. 0° 3' E., on blank line bet. secs. 20 and 21 (N.  $\frac{1}{2}$ ).  
 Over rolling land, thru scattering undergrowth.  
 Set temp. point on N. rim of South Canyon, bears E. and W., about the same depth as Fence Canyon.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

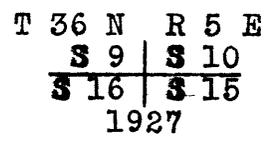


Survey of a portion of the Subdivision lines of T. 36 N., R. 5 E.

Chains Thence N. 0° 2' W., on true line, bet. secs. 15 and 16, continuing measurement from point for cor. of secs. 15, 16, 21 and 22.  
 Over rolling land, thru scattering undergrowth  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 4 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 12 x 8 x 8 ins. marked with a cross (X) at base of post, for  $\frac{1}{4}$  sec. cor. of secs. 15 and 16, with brass cap marked

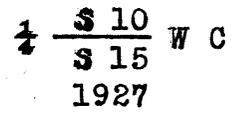


80.00 Set an iron post 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 12 x 8 x 5 ins. marked with a cross (X) at base of post, for the cor. of secs. 9, 10, 15 and 16, with brass cap marked



Land, mountainous and rolling.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

-----  
 East, on true line, bet. secs. 10 and 15 (W.  $\frac{1}{2}$ ).  
 Over rolling land, thru scattering undergrowth.  
 33.67 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, supported in a mound of stone, 5 ft. base, 2 ft. high, deposit a stone 8 x 8 x 7 ins. marked with a cross (X) at base of post, for witness cor. to  $\frac{1}{4}$  sec. cor., with brass cap marked



33.70 W. rim of Marble Canyon, bears NE. and SW., about 2000 ft. above the Colorado River. Discontinue chaining.  
 40.00 True point for  $\frac{1}{4}$  sec. cor. falls on W. wall of Marble Canyon where it can not be monumented, therefore establish W. C. at 6.33 chs. W. as described above.

Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

-----  
 From cor. of secs. 9, 10, 15 and 16,  
 N. 0° 02' W., on true line, bet. secs. 9 and 10.  
 Over rolling land, thru scattering undergrowth.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the  $\frac{1}{4}$  sec. cor. of secs. 9 and 10, with brass cap marked

Chains

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 9 \quad | \quad \text{S } 10 \\ \hline 1927 \end{array}$$

80.00 Dig pits 18 x 18 x 12 ins., one each N. and S. of Cor. 3 ft. dist.  
 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 3, 4, 9 and 10, with brass cap marked

$$\begin{array}{c} \text{T } 36 \text{ N } \quad \text{R } 5 \text{ E} \\ \text{S } 4 \quad | \quad \text{S } 3 \\ \hline \text{S } 9 \quad | \quad \text{S } 10 \\ \hline 1927 \end{array}$$

Dig pits 18 x 18 x 12 ins., one each NE., SE., SW. and NW. of cor. 3 ft. dist.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00 East, on true line, bet. secs. 3 and 10.  
 Over rolling land, thru scattering undergrowth.  
 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the  $\frac{1}{4}$  sec. cor. of secs. 3 and 10, with brass cap marked

$$\frac{1}{4} \frac{\text{S } 3}{\text{S } 10}$$
 1927

80.00 Dig pits 18 x 18 x 12 ins, one each E. and W. of cor., 3 ft. dist.  
 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 2, 3, 10 and 11, with brass cap marked

$$\begin{array}{c} \text{T } 36 \text{ N } \quad \text{R } 5 \text{ E} \\ \text{S } 3 \quad | \quad \text{S } 2 \\ \hline \text{S } 10 \quad | \quad \text{S } 11 \\ \hline 1927 \end{array}$$

Dig pits 18 x 18 x 12 ins. NE., SE., SW. and NW., of cor. 3 ft. dist.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

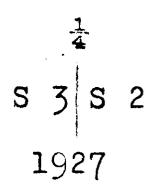
16.84 S. 0° 01' E., on blank line, bet. secs. 10 and 11 (N.  $\frac{1}{2}$ ).  
 Over rolling land, thru scattering undergrowth.  
 Set temp. point on the rim of Marble Canyon, bears NE. and SW. about 2000 ft. above the Colorado River.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

From cor. of secs. 2, 3, 10 and 11.

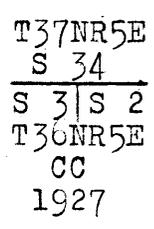
Survey of a portion of the Subdivision lines of T.36 N., R.5 E.

Chains. East, on ~~blank~~ line, bet. secs. 2 and 11 ( $W\frac{1}{2}$ ) in.  
 27.58 Over rolling land, thru scattering undergrowth.  
 Set temp. point on the rim of Marble Canyon, bears NE  
 and SW., about 2,000 ft. above the Colorado River.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00 From cor. of secs. 2, 3, 10 and 11,  
 N.0°01'W., on true line, bet. secs. 2 and 3.  
 Over rolling land, thru scattering undergrowth.  
 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in  
 the ground, for the  $\frac{1}{4}$  sec. cor. of secs. 2 and 3, with  
 brass cap marked.

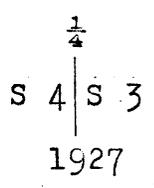


80.32 Dig pits 18x18x12 ins., one each, N. and S. of cor. 3 ft. dist.  
 Intersect the Ninth Standard Parallel North, 10.76 chs.  
 west of the Standard cor. of secs. 34 and 35, T.37 N.,  
 R.5 E., described in book "F". At intersection,  
 set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in  
 the ground, for the closing cor. of secs. 2 and 3,  
 with brass cap marked.



Dig pits 18x18x12 ins., one each, E., W. and S. of cor., cor.  
 3 ft. dist.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00 From the cor. of secs. 3, 4, 9 and 10, hereinbefore described,  
 N.0°02'W., on true line, bet. secs. 3 and 4.  
 Over rolling land, thru scattering undergrowth.  
 Set an iron post 3 ft. long, 1 in. in diam., 2 ins. in  
 the ground to bedrock, supported in a mound of stone  
 5 ft. base, 2 $\frac{1}{2}$  ft. high, deposit a stone 10x10x6 ins.  
 marked with a cross (X) at base of post, for the  $\frac{1}{4}$   
 sec. cor. of secs. 3 and 4, with brass cap marked.



Chains.

40.20  
80.24

Wash, 20 lks. wide, course NW.  
Intersect the Ninth Standard Parallel North, 10.75 chs. west of the Standard Cor. of secs. 33 and 34, T.37 N., R.5 E., as described in Book, "F". At intersection, set an iron post 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 10x7x3 ins. marked with a cross (X) at base of post, for the closing cor. of secs. 3 and 4, with brass cap marked,

T37NR5E  
S 33  
S 4 | S 3  
T36NR5E  
CC  
1927

Land, rolling.  
Soil, gravelly and sandy, 2nd and 3rd rate.  
No timber.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00

From the cor. of secs. 16,17,20 and 21, hereinbefore described,  
Thence,  
N.0°03'W., on true line, bet. secs. 16 and 17.  
Over rolling land, thru scattering undergrowth.  
Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/4 sec. cor. of secs. 16 and 17, with brass cap marked,

1/4  
S17 | S16  
1927

80.00

Raise a mound of stone 3 ft. base, 2 ft. high, W. of cor.  
Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 8,9,16 and 17, with brass cap marked.

T36NR5E  
S 8 | S 9  
S17 | S16  
1927

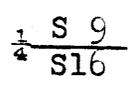
Dig pits 18x18x12 ins, one each, NE., SE., SW., and NW., of cor., 3 ft. dist.  
Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
No timber.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00  
80.02

East, on random line, bet. secs. 9 and 16.  
Set temp. 1/4 sec. cor.  
Fall 5 lks. N. of the cor. of secs. 9,10,15 and 16.  
Thence,  
N.89°58'W., on true line, bet. secs. 9 and 16.  
Over rolling land, thru scattering undergrowth.

Survey of a portion of the Subdivision lines of T.36 N., R.5 E.

Chains.  
 40.01 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the  $\frac{1}{4}$  sec. cor. of secs. 9 and 16, with brass cap marked.

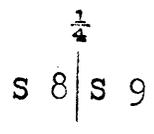


1927

Raise a mound of stone 3 ft. base, 2 ft. high, N. of cor.

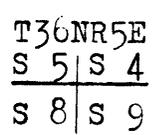
80.02 The cor. of secs. 8, 9, 16 and 17.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00 N.0°03'W., on true line, bet. secs. 8 and 9.  
 Over rolling land, thru scattering undergrowth.  
 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the  $\frac{1}{4}$  sec. cor. of secs. 8 and 9, with brass cap marked.



1927

80.00 Dig pits 18x18x12 ins. one each, N. and S. of cor. 3 ft. dist.  
 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 4, 5, 8 and 9, with brass cap marked.



1927

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

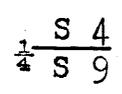
Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00 East, on random line, bet. secs. 4 and 9.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.02 Fall 9 lks. N. of the cor. of secs. 3, 4, 9 and 10.  
 Thence,

N.89°56'W., on true line, bet. secs. 4 and 9.  
 Over rolling land, thru scattering undergrowth.

35.80 Wash, 10 lks. wide, course NW.

40.01 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the  $\frac{1}{4}$  sec. cor. of secs. 4 and 9, with brass cap marked.



1927

Chains.

Raise a mound of stone 3 ft. base, 2 ft. high, N. of cor.

73.80 Wash, 5 lks. wide, course NW.

80.02 The cor. of secs. 4,5,8 and 9.

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00 N.0°03'W., on true line, bet. secs. 4 and 5.  
Over rolling land, thru scattering undergrowth.

Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 10x7x5 ins. marked with a cross (X) at base of post, for the 1/4 sec. cor. of secs. 4 and 5, with brass cap marked.

1/4  
S 5 | S 4  
1927

54.10 Wash, 5 lks. wide, course NW.

80.15 Intersect the Ninth Standard Parallel North, 10.75 chs. west of the Standard Cor. of secs. 32 and 33, T.37 N., R.5 E., described in Book, "F", At intersection,

set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 10x8x7 ins. marked with a cross (X) at base of post, for the closing cor. of secs. 4 and 5, with brass cap marked,

T37NR5E  
S 32  
S 5 | S 4  
T36NR5E  
CC  
1927

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, sagebrush, blackbrush, cactus and grass.

From the cor. of secs. 17,18,19 and 20, hereinbefore described.

40.00 N.0°03'W., on true line, bet secs. 17 and 18.  
Over rolling land, thru scattering undergrowth.

Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/4 sec. cor. of secs. 17 and 18, with brass cap marked.

1/4  
S18 | S17  
1927

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, supported in a mound of stone 5 ft. base, 2 ft. high, deposit a stone 8x5x5 ins. marked with a cross (X) at base of post, for the cor. of secs. 7,8,17 and 18, with brass cap marked.

Survey of a portion of the Subdivision lines of T.36 N., R.5 E.

Chains.

T36NR5E	
S 7	S 8
S18	S17

1927

Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

- 40.00 East, on random line, bet. secs. 8 and 17.  
Set temp.  $\frac{1}{4}$  sec. cor.
- 80.02 Fall 5 lks. N. of the cor. of secs. 8, 9, 16 and 17.  
Thence,  
N.  $89^{\circ}58'$  W., on true line, bet. secs. 8 and 17.  
Over rolling land, thru scattering undergrowth.
- 40.01 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, supported in a mound of stone, 5 ft. base, 2 ft. high, deposit a stone 8x5x5 ins. marked with a cross (X) at base of post, for the  $\frac{1}{4}$  sec. cor. of secs. 8 and 17, with brass cap marked.

$\frac{1}{4}$ S 8
S17

1927

- 80.02 The cor. of secs. 7, 8, 17 and 18.  
Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
No timber.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

- 40.00 West, on random line bet. secs. 7 and 18.  
Set temp.  $\frac{1}{4}$  sec. cor.
- 78.08 Intersect the cor. of secs. 7, 12, 13 and 18, on the west boundary of the Tp., which is an iron post, 2 ins. in diam., projecting 32 ins. above ground, firmly set in ground and mound of stone, and properly marked on brass cap. No accessories.  
Thence,  
East, on true line, bet. secs. 7 and 18.  
Over rolling land, thru scattering undergrowth.
- 38.08 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the  $\frac{1}{4}$  sec. cor. of secs. 7 and 18, with brass cap marked.

$\frac{1}{4}$ S 7
S18

1927

- 78.08 Raise a mound of stone 3 ft. base, 2 ft. high, N. of cor.  
The cor. of secs. 7, 8, 17 and 18.  
Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
No timber.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

## Survey of a portion of the Subdivision lines of T.36 N., R.5 E.

18

Chains.

N.0°03'W., on true line, bet. secs. 7 and 8.  
Over rolling land, thru scattering undergrowth.  
40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the  
ground to bedrock, supported in a mound of stone 5 ft.  
base, 2 ft. high, deposit a stone 10x7x6 ins. marked  
with a cross (X) at base of post, for the  $\frac{1}{4}$  sec. cor.  
of secs. 7 and 8, with brass cap marked.

$\frac{1}{4}$   
S 7 | S 8  
1927

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 10 ins. in  
the ground to bedrock, supported in a mound of stone  
5 ft. base, 2 ft. high, deposit a stone 12x8x5 ins.  
marked with a cross (X) at base of post, for the cor.  
of secs. 5,6,7 and 8, with brass cap marked.

T36NR5E  
S 6 | S 5  

---

S 7 | S 8  
1927

Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
No timber.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00 East, on random line, bet. secs. 5 and 8.  
Set. temp.  $\frac{1}{4}$  sec. cor.  
80:08 Fall 5 lks. N. of the cor. of secs. 4,5,8 and 9.  
Thence,

40.04 N.89°58'W., on true line, bet. secs. 5 and 8.  
Over rolling land, thru scattering undergrowth.  
Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in  
the ground to bedrock, supported in a mound of stone  
5 ft. base, 2 ft. high, deposit a stone 10x5x5 ins.  
marked with a cross (X) at base of post, for the  $\frac{1}{4}$   
sec. cor. of secs. 5 and 8, with brass cap marked,

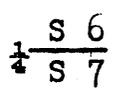
$\frac{1}{4}$  S 5  
S 8  
1927

60.30 Wash, 5 lks. wide, course NW.  
80.08 The cor. of secs. 5,6,7 and 8.  
Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
No timber.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00 West, on random line, bet. secs. 6 and 7.  
Set temp.  $\frac{1}{4}$  sec. cor.  
77.88 Fall 5 lks. S. of the cor. of secs. 1,6,7 and 12, on the  
west boundary of the Tp., which is an iron post, 2 ins.  
in diam., projecting 28 ins. above ground, firmly set  
in ground and mound of stone & properly marked on  
brass cap. No accessories.  
Thence,

Survey of a portion of the Subdivision lines of T.36 N., R.5 E.

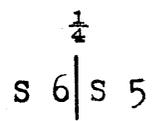
Chains. S.89°58'E., on true line, bet. secs. 6 and 7.  
 Over rolling land, thru scattering undergrowth.  
 37.88 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in  
 the ground, for the  $\frac{1}{4}$  sec. cor. of secs. 6 and 7, with  
 brass cap marked.



1927

77.88 Dig pits 18x18x12 ins., one each, E. and W. of cor., 3 ft. dist.  
 The cor. of secs. 5, 6, 7 and 8.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

40.00 N.0°03'W., on true line, bet. secs. 5 and 6.  
 Over rolling land, thru scattering undergrowth.  
 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in  
 the ground, for the  $\frac{1}{4}$  sec. cor. of secs. 5 and 6, with  
 brass cap marked.



1927

80.09 Dig pits 18x18x12 ins., one each, N. and S. of cor., 3 ft. dist.  
 Intersect the Ninth Standard Parallel North, 10.79 chs.  
 west of the Standard cor. of secs. 31 and 32, T.37 N.,  
 R.5 E., as described in book "F". At intersection,  
 set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in  
 the ground to bedrock, supported in a mound of stone  
 5 ft. base, 2 ft. high, deposit a stone 10x8x5 ins.  
 marked with a cross (X) at base of post, for the closing  
 cor. of secs. 5 and 6, with brass cap marked,



Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

Boundaries of sec. 33, T. 36 N., R. 5 E. Latitudes, Departures and closing Errors.							
Lines Designated	True course	Distance	Latitudes		Departures		
			North	South	East	West	
South Bdy. of Tp.	East	80.00			80.00		
East Boundary	N. 0° 02' W.	80.00	80.00				.05
North Boundary	N. 89° 59' W.	80.04	.02				80.04
West Boundary	S. 0° 03' E.	80.00		80.00	.07		
Convergency							.02
TOTALS			80.02	80.00	80.07	80.11	
			80.00				80.07
	Error in latitude		0.02				
	Error in departure						0.04

Boundaries of secs. 3, 4, 5, 6, 7, 8, 9, 16, 17 and 18. of township 36 North., Range, 5 East. Latitudes Departures and closing Errors.							
Lines Designated	True course	Distance	Latitudes		Departures		
			North	South	East	West	
S. Bdrs. of secs. 18, 17 and 16.	East	238.19			238.19		
E. Bdrs. of secs. 16 and 19.	N. 0° 2' W.	160.00	160.00				.05
S. bdy. sec. 3.	East	80.00			80.00		
E. Bdy. sec. 3.	N. 0° 01' W.	80.32	80.32				.02
North Bdy. of Tp. (19th Std. Road N.)	West	317.78					317.78
West bdy. of Tp. (secs. 3, 4, 5, 6, 7, 8, 9, 16, 17, 18)	South	240.00		240.00			
Convergency							.15
TOTALS			240.32	240.00	318.19	318.00	
			240.00		318.00		
	Error in latitude		0.32				
	Error in departure						0.19

GENERAL DESCRIPTION.

The surface of the surveyed land in Township 36 North, Range 5 East, is level and rolling. The soil is of a sandy, gravelly composition of second and third rate. There is no timber within this township. The undergrowth consists of scattering sagebrush, black-brush, cactus and grass. Fence Canyon traverses thru a portion of this township, entering the township near the cor. of secs. 25, 30, 31 and 36, on the west boundary. The Canyon is from one to two miles wide, and from 1,500 to 2,000 feet deep. The Colorado River enters the township near the north east township corner and traverses Marble Canyon thru the eastern portion of the township, in a general south westerly direction, and averages about 2,000 feet lower than the upper rim. There are no improvements in this township in the way of houses or roads, and the only water is that of the Colorado River. This township at present is being used for grazing purposes only. There is no known mineral in this township.

FINAL TESTS.

March 28, 1927, in camp in the SE. quarter of sec. 8, T. 36 N., R. 5 E., G. and S. R. Base and Meridian, Arizona, in latitude  $36^{\circ} 31' 45''$  N., and longitude  $111^{\circ} 53' 30''$  W., at 7 h. 10 m., p.m., l.m.t., observe Polaris at western elongation making four observations, two each with the telescope in direct and reversed positions, and marking a mean point in the line thus determined by a tack set in a peg driven in the ground about 10 chs. north.

Azimuth of Polaris at western elongation =  $1^{\circ} 21' 10''$ .

March 29, 1927, at 8 h. 0 m., a. m., lay off the azimuth of Polaris  $1^{\circ} 21'$  to the east, and mark the meridian thus determined by a tack in a stake, driven firmly in the ground about 10 chs. north.

April 1, 1927, in camp at the same station as described above, examine the adjustments of the instruments and find no errors. Then to test the adjustments of the solar attachments, proceed as follows.

At 8 h. 0 m., a.m., app. t., set off  $36^{\circ} 32'$  N., on the latitude arcs, and  $4^{\circ} 20'$  N., on the declination arcs, and determine meridians with the solars, which agree with the true meridian.

At 4 h. 0 m., p.m., app. t., with the latitude arcs unchanged set off  $4^{\circ} 27'$  N., on the declination arcs, and determine meridians with the solars, which agree with the true meridian.

As all of the observations taken within the usual hours of solar work, agree within 1' of the true meridian, conclude that the adjustments of the instruments have been maintained during the survey of this township.

Traverse of West Rim of Marble Canyon and South Rim  
of Fence Canyon in T. 36 N., R. 5 E.

Traverse west rim of Marble Canyon.

From the temp. point bet. secs. 3 and 34, on South boundary of the Tp., set at 27.68 chs. east from cor. of secs. 3, 4, 33 and 34.

Traverse thru sec. 34.

Over rolling land, thru scattering undergrowth.

N.  $76\frac{3}{4}^{\circ}$  W., 13.00 chs.

N.  $22^{\circ}$  W., 40.00 " to  $\frac{1}{4}$  sec. cor. of secs. 33 and 34.

N.  $11\frac{1}{4}^{\circ}$  E., 40.80 " to temp. point set at 7.96 chs. east from cor. of secs. 27, 28, 33 and 34.

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

Timber, none.

Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse thru sec. 27.

Over rolling land, thru scattering undergrowth.

North 2.83 chs.

West 8.00 chs. to temp. point set at 2.82 chs. N.  $0^{\circ} 2'$  W. from cor. of secs. 27, 28 33 and 34.

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

Timber, none.

Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse of South Rim of Fence Canyon.

From temp. point set at 2.82 chs. N.  $0^{\circ} 2'$  W., from cor. of secs. 27, 28, 33 and 34.

Traverse thru sec. 28.

Over rolling land, thru scattering undergrowth.

S.  $87^{\circ}$  W., 4.10 chs.

N.  $56\frac{3}{4}^{\circ}$  W., 10.00 "

N.  $29^{\circ}$  W., 29.20 "

N.  $75^{\circ}$  W., 20.00 "

S.  $4^{\circ}$  W., 17.00 "

S.  $17^{\circ}$  W., 10.50 "

S.  $39\frac{1}{4}^{\circ}$  W., 4.30 "

S.  $82\frac{1}{4}^{\circ}$  W., 4.30 "

N.  $76\frac{1}{4}^{\circ}$  W., 12.00 "

N.  $67\frac{1}{4}^{\circ}$  W., 8.50 "

S.  $87\frac{1}{4}^{\circ}$  W., 3.30 " to temp. point set at 13.87 chs. N.  $0^{\circ} 3'$  W., from cor. of secs. 28, 29, 32 and 33.

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

Timber, none.

Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse thru sec. 29.

Over rolling land, thru scattering undergrowth.

S.  $65^{\circ}$  W., 8.00 chs.

S.  $35\frac{1}{4}^{\circ}$  W., 4.00 "

S.  $42\frac{1}{2}^{\circ}$  W., 9.70 "

N.  $37\frac{1}{2}^{\circ}$  W., 4.80 "

N.  $67\frac{1}{2}^{\circ}$  W., 14.20 "

N.  $38^{\circ}$  E., 5.90 "

N.  $3\frac{1}{2}^{\circ}$  E., 9.70 "

N.  $19\frac{1}{2}^{\circ}$  W., 14.80 "

S.  $45\frac{3}{4}^{\circ}$  W., 4.20 "

Traverse of South Rim of Fence Canyon  
and North Rim of Fence Canyon,  
in Township 36 North, Range 5 East.

S. 39 $\frac{1}{2}$ ° W., 44.90 chs. to temp. point set at 24.31 chs.  
W. of the  $\frac{1}{4}$  sec. cor. of secs. 29  
and 32.

Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
Timber, none.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse thru sec. 32.

S. 48 $\frac{3}{4}$ ° W., 2.60 chs.  
S. 48° W., 18.36 " to temp. point set at 26.10  
chs. N. 0° 03' W. of the  $\frac{1}{4}$  sec.  
cor. of secs. 31 and 32.

Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
Timber, none.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse thru sec. 31.

Over rolling land, thru scattering undergrowth.  
S. 36° W., 9.00 chs.  
N. 65° W., 12.00 "  
S. 64 $\frac{3}{4}$ ° W., 47.60 "  
S. 35° W., 17.00 "  
N. 70° W., 10.00 " to the witness cor. to  $\frac{1}{4}$  sec.  
cor. of secs. 31 and 36 on  
W. bdy. of Tp., which is 7.00  
chs. S. from cor. point

Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
Timber, none.  
Undergrowth, sagebrush, blackbrush, cactus and grass.

North Rim of Fence Canyon.

From the witness cor. to cor. of secs. 25, 30, 31 and 36,  
on W. bdy. of Tp., set at 7.00 chs. N. of true point  
for cor. . .

Traverse thru sec. 30.

Over rolling land, thru scattering undergrowth.  
N. 41 $\frac{1}{8}$ ° E., 6.00 chs.  
N. 67 $\frac{3}{8}$ ° E., 10.40 "  
N. 64 $\frac{1}{2}$ ° E., 19.00 "  
N. 53 $\frac{3}{4}$ ° E., 10.00 "  
N. 73° E., 4.40 "  
N. 46 $\frac{1}{4}$ ° E., 6.00 "  
N. 19 $\frac{3}{4}$ ° E., 5.00 "  
N. 9° E., 30.10 "  
N. 50° E., 11.40 "  
N. 37° E., 3.95 " to temp. point set at 26.66  
chs. East from  $\frac{1}{4}$  sec. cor. of  
secs. 19 and 30.

Land, rolling prairie.  
Soil, gravelly, 2nd and 3rd rate.  
Timber, none.  
Undergrowth, sagebrush, blackbrush, cactus and grass

Traverse of the North Rim of Fence Canyon,  
South Rim of South Canyon and  
North Rim of South Canyon  
in T. 36 N., R. 5 E.

(North Rim of Fence Canyon, Continued)

Traverse thru sec. 19.

Over rolling land, thru scattering undergrowth.

N. 44° E.,	19.26	chs.,	
N. 32° E.,	13.60	"	
N. 3° W.,	3.00	"	to junction of N. rim of Fence Canyon with S. rim of South Canyon.
N. 67° W.,	7.66	"	on South rim of South Canyon.
N. 79 $\frac{3}{4}$ ° W.,	13.00	"	
N. 62 $\frac{1}{4}$ ° W.,	14.00	"	
N. 24 $\frac{1}{2}$ ° W.,	19.00	"	
N. 23° 18' W.,	24.67	"	to witness cor. to $\frac{1}{4}$ sec. cor. of secs. 18 & 19, set at 2.75 chs. west from cor. point.

Land, rolling and mountainous.

Soil, gravelly, 2nd and 3rd rate.

Timber, none.

Undergrowth, sagebrush, blackbrush, cactus and grass.

North Rim of South Canyon.

Traverse thru sec. 18.

Over rolling land, thru scattering undergrowth.

N. 40° E.,	6.00	chs.,	
S. 79° 57' E.,	26.36	"	to temp. point on sec. line bet. secs. 18 and 19, set at 12.89 chs. W. from cor. of secs. 17, 18, 19 and 20.

Land, rolling and mountainous.

Soil, gravelly, 2nd and 3rd rate.

Timber, none.

Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse thru sec. 19.

Over rolling land, thru scattering undergrowth.

S. 28° E.,	6.53	chs.	
N. 77 $\frac{3}{4}$ ° E.,	10.00	"	to temp. point set at 3.75 chs. S. 0° 03' E., from cor. of secs. 17, 18, 19 and 20.

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

Timber, none.

Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse thru sec. 20.

Over rolling land, thru scattering undergrowth.

S. 84 $\frac{1}{4}$ ° E.,	15.50	chs.	
S. 75 $\frac{1}{2}$ ° E.,	15.00	"	
S. 84 $\frac{1}{4}$ ° E.,	9.00	"	
S. 73 $\frac{3}{4}$ ° E.,	42.00	"	
S. 45 $\frac{1}{4}$ ° E.,	1.14	"	to temp. point set at 22.40 chs. S. 0° 03' E., from cor. of secs. 16, 17, 20 and 21.

Land, rolling prairie.

Soil, gravelly, 2nd and 3rd rate.

Timber, none.

Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse of the North Rim of Fence Canyon and West Rim of Marble Canyon, in T. 36 N., R. 5 E.

North Rim of South Canyon and North Rim of Fence Canyon.

Traverse thru sec. 21.  
 Over rolling land, thru scattering undergrowth.  
 S.  $46\frac{3}{4}^{\circ}$  E., 13.30 chs. to junction of N. rim of South Canyon with N. rim of Fence Canyon,  
 N.  $45^{\circ}$  E., 19.10 " on N. rim of Fence Canyon,  
 N.  $67\frac{1}{2}^{\circ}$  E., 11.00 "  
 East 15.40 "  
 N.  $75\frac{1}{2}^{\circ}$  E., 15.50 "  
 N.  $38^{\circ}$  E., 12.50 " to witness cor. to cor. of secs. 15, 16, 21 and 22, set at 8.73 chs. west of cor. point.

Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 Timber, none.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse of West Rim of Marble Canyon in T. 36 N., R. 5 E.

From witness cor. to cor. of secs. 15, 16, 21 and 22 (8.73 chs. W. of cor. point).

Traverse thru sec. 16.  
 Over rolling land, thru scattering undergrowth.  
 N.  $26^{\circ}$  W., 11.90 chs.  
 N.  $11^{\circ}$  E., 17.00 chs.  
 N.  $64\frac{1}{8}^{\circ}$  E., 9.20 "  
 N.  $24^{\circ}$  E., 5.90 " to temp. point set on sec. line bet. secs. 15 and 16, at 36.76 chs. N.  $0^{\circ} 2'$  W., from point for sec. cor.

Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 Timber, none.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse thru sec. 15.  
 Over rolling land, thru scattering undergrowth.  
 N.  $40\frac{1}{2}^{\circ}$  E., 8.00 chs.  
 N.  $61\frac{1}{2}^{\circ}$  E., 12.00 "  
 N.  $29\frac{1}{4}^{\circ}$  E., 36.20 " to witness cor. to  $\frac{1}{4}$  sec. cor. of secs. 10 and 15, set at 6.33 chs. W. from point for  $\frac{1}{4}$  sec. cor.

Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 Timber, none.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse thru sec. 10.  
 Over rolling land, thru scattering undergrowth.  
 N.  $34^{\circ}$  E., 13.75 chs.  
 N.  $17^{\circ}$  E., 15.20 "  
 N.  $61^{\circ}$  E., 11.90 "  
 N.  $48\frac{1}{4}^{\circ}$  E., 22.40 "  
 N.  $23\frac{1}{4}^{\circ}$  E., 18.00 " to temp. point set at 16.84 chs. S.  $0^{\circ} 1'$  E., from cor. of secs. 2, 5, 10 and 11.

Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 Timber, none.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

## Traverse of West Rim of Marble Canyon in T. 36 N., R. 5 E.

Chains Traverse thru sec. 11.  
 Over rolling land, thru scattering undergrowth.  
 N.  $22\frac{3}{4}^{\circ}$  E., 9.82 chs.  
 N.  $57^{\circ}$  E., 8.20 "  
 S.  $84\frac{3}{4}^{\circ}$  E., 15.70 "  
 N.  $14\frac{3}{4}^{\circ}$  E., 5.00 " to temp. point set at 27.58  
 chs. East from cor. of secs.  
 2, 3, 10 and 11.  
 Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 Timber, none.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

Traverse thru sec. 2.  
 Over rolling land, thru scattering undergrowth.  
 N.  $4\frac{1}{2}^{\circ}$  E., 5.35 chs.  
 N.  $25\frac{1}{8}^{\circ}$  W., 10.90 "  
 N.  $1\frac{1}{2}^{\circ}$  E., 9.90 "  
 N.  $18^{\circ}$  E., 12.40 "  
 N.  $11^{\circ}$  E., 10.70 "  
 N.  $19\frac{1}{2}^{\circ}$  E., 22.70 "  
 N.  $42^{\circ}$  E., 15.60 " to the witness cor. to std.  
 $\frac{1}{4}$  sec. cor. of sec. 35, T.  
 37 N., R. 5 E., on the 9th  
 Std. Par. N., set at 3.52  
 chs. west from cor. point  
 and monumented with an iron  
 post as described in Book  
 "F" of this group.

Land, rolling prairie.  
 Soil, gravelly, 2nd and 3rd rate.  
 Timber, none.  
 Undergrowth, sagebrush, blackbrush, cactus and grass.

Boundaries of S. Portion of T. 36 N., R. 5 E. Latitudes, Departures and closing Errors.						
Lines Designated	True course	Distance	Latitudes		Departures	
			North	South	East	West
S. Bdy. of secs. 31 32, 33 and 34.	East	266.08			266.08	
Trav. of sec. 34	N. 76 $\frac{3}{4}$ ° W. N. 22° W. N. 11 $\frac{1}{4}$ ° E.	13.00 40.00 40.80	2.98 37.09 40.01		7.96	12.65 14.98
Traverse of sec. 27.	North West	2.83 8.00	2.83			8.00
Traverse of sec. 28	S. 87° W. N. 56° W. N. 29° W. N. 75° W. S. 4° W. S. 17° W. S. 39 $\frac{1}{2}$ ° W. S. 82 $\frac{1}{4}$ ° W. N. 70 $\frac{1}{4}$ ° W. N. 67 $\frac{1}{4}$ ° W. S. 87 $\frac{1}{4}$ ° W.	4.10 10.00 29.20 20.00 17.00 10.50 4.30 4.30 12.00 8.50 3.30	5.48 25.53 5.18	.21 16.96 10.04 3.32 .58		4.09 8.36 14.16 19.32 1.19 3.07 2.74 4.26 11.66 7.84 3.30
Traverse of sec. 29	S. 65° W. S. 35 $\frac{1}{4}$ ° W. S. 42 $\frac{1}{2}$ ° W. N. 37° W. N. 67 $\frac{3}{4}$ ° W. N. 38° E. N. 34° E. N. 19 $\frac{1}{4}$ ° W. S. 45 $\frac{3}{4}$ ° W. S. 39 $\frac{1}{2}$ ° W.	8.00 4.00 9.70 4.80 14.20 5.90 9.70 14.80 4.20 44.90	3.83 5.38 4.65 9.68 13.98	3.38 3.27 7.16 2.93 34.64	3.63 .55	7.25 2.31 6.55 2.89 13.15 4.88 3.01 28.56
Traverse of sec. 32	S. 48 $\frac{3}{4}$ ° W. S. 48 $\frac{1}{2}$ ° W.	2.60 18.36		1.71 12.17		1.95 13.75
Traverse of sec. 31	S. 36° W. N. 65° W. S. 64 $\frac{3}{4}$ ° W. S. 35° W. N. 70° W.	9.00 12.00 47.60 17.00 10.00	7.28 5.07 3.42	20.30 13.93		5.29 10.88 43.05 9.75 9.40
W. Bdy. of Sec. 31	South	33.00		33.00		
Convergency						.05
<b>TOTALS</b>			171.25	171.04	278.22	278.34
			171.04			278.22
Error in latitude			.21			
Error in departure						.12

Boundaries of North Portion of T.36 N., R.5 E. Latitudes, departures and closing errors.						
Lines designated	True course	Distance	Latitudes		Departures	
			North	South	East	West
Traverse of sec. 30	N.41 $\frac{1}{4}$ °E.	6.00	4.49		3.98	
	N.67°E.	10.40	4.07		9.58	
	N.64 $\frac{1}{2}$ °E.	19.00	8.18		17.15	
	N.53 $\frac{3}{4}$ °E.	10.00	5.91		8.06	
	N.73°E.	4.40	1.29		4.21	
	N.46 $\frac{1}{2}$ °E.	6.00	4.15		4.33	
	N.19°E.	5.00	4.73		1.63	
	N.9°E.	30.10	29.73		4.71	
	N.50°E.	11.40	7.33		8.74	
N.37°E.	3.95	3.16		2.38		
Traverse of sec. 19	N.44°E.	19.26	13.86		13.38	
	N.32°E.	13.60	11.53		7.21	
	N.3°W.	3.00	3.00			.16
	N.67°W.	7.66	3.00			7.05
	N.79 $\frac{3}{4}$ °W.	13.00	2.31			12.79
	N.62 $\frac{3}{4}$ °W.	14.00	6.41			12.45
	N.24 $\frac{1}{2}$ °W.	19.00	17.29			7.88
	N.23°18'W.	24.67	22.60			9.73
Traverse of sec. 18	N.40°E.	6.00	4.60		7.86	
	S.89°57'E.	26.36		4.60	25.96	
Traverse of sec. 19	S.28°E.	6.53		5.87	3.12	
	N.77 $\frac{3}{4}$ °E.	10.00	2.12		9.77	
Traverse of sec. 20	S.84 $\frac{1}{2}$ °E.	15.50		1.49	15.43	
	S.75 $\frac{3}{4}$ °E.	15.00		3.76	14.52	
	S.84 $\frac{1}{4}$ °E.	9.00		.90	8.95	
	S.73 $\frac{3}{4}$ °E.	42.00		11.75	40.32	
	S.45 $\frac{1}{4}$ °E.	1.14		.80	.81	
Traverse in sec. 21	S.46 $\frac{3}{4}$ °E.	13.30		9.12	9.69	
	N.45°E.	19.10	13.51		13.51	
	N.67 $\frac{3}{4}$ °E.	11.00	4.21		10.16	
	East	15.40			15.40	
	N.75 $\frac{1}{4}$ °E.	15.50	3.95		14.99	
N.38°E.	12.50	9.85		7.70		
Traverse in sec. 16	N.26°W.	11.90	10.70			5.21
	N.11°E.	17.00	16.69		3.24	
	N.64 $\frac{3}{4}$ °E.	9.20	3.96		8.30	
	N.24°E.	5.90	5.39		2.40	
Traverse in sec. 15.	N.40 $\frac{3}{4}$ °E.	8.00	6.08		5.20	
	N.61 $\frac{3}{4}$ °E.	12.00	5.73		10.55	
	N.29 $\frac{3}{4}$ °E.	36.20	31.43		17.96	
Traverse in sec. 10	N.34°E.	13.75	11.40		7.69	
	N.17°E.	15.20	14.53		4.45	
	N.61°E.	11.90	5.77		10.41	
	N.48 $\frac{1}{4}$ °E.	22.40	14.92		16.71	
	N.23 $\frac{1}{4}$ °E.	18.00	16.54		7.11	
Traverse in sec. 11	N.22 $\frac{3}{4}$ °E.	9.82	9.06		3.80	
	N.57°E.	8.20	4.47		6.88	
	S.84 $\frac{1}{4}$ °E.	15.70		1.57	15.62	
	N.14 $\frac{1}{4}$ °E.	5.00	4.84		1.27	
Traverse in sec. 2	N.4 $\frac{1}{2}$ °E.	5.35	5.33		.42	
	N.25 $\frac{1}{2}$ °W.	10.90	9.84			4.70
	N.1 $\frac{1}{2}$ °E.	9.90	9.90		.22	
	N.18°E.	12.40	11.79		3.83	
	N.11°E.	10.70	10.51		2.04	
	N.19 $\frac{1}{4}$ °E.	22.70	21.43		7.48	
N.42°E.	15.60	11.60		10.44		
N.Bdy.secs.2,3,4, West 5 and6.		367.02				367.02
W.Bdy.of secs.6, South 7,18,19 and30.		393.00		393.00		
Convergency						.19
Totals			433.19	432.86	426.57	426.18
			432.86		426.18	



TRANSITMAN  
CERTIFICATE OF UNITED STATES ~~SURVEYOR~~

I, Otis O. Gould, U.S. Transitman, ~~U. S. Surveyor~~, hereby certify upon honor that, in pursuance of special instructions received from the ~~U. S. Surveyor General~~ <sup>U.S. District Cadastral Engineer,</sup> for Group 139, Arizona bearing date of the 23rd day of April, 1926, 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 subdivision lines of~~

Township 36 North, Range 5 East of the Gila and Salt

River Base Meridian, in the State of Arizona, which are represented in the foregoing field notes <sup>and by diagram on page 1 hereof</sup> as having been executed by me, and under my direction; and that all the corners of

said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the ~~U. S. Surveyor General~~ <sup>U.S. District Cadastral Engineer,</sup> for Group 139, Arizona,

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

Place : San Francisco, Calif.  
Date : May 13, 1927.

Otis O. Gould  
U.S. Transitman ~~U. S. Surveyor~~

~~APPROVAL.~~

~~OFFICE OF THE UNITED STATES SURVEYOR GENERAL,~~

~~10~~

~~The foregoing field notes of the survey of~~

~~executed by~~

~~under his special instructions dated~~ 10 ~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.~~

~~U. S. Surveyor General~~

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

~~U. S. Surveyor General~~



CERTIFICATE OF UNITED STATES SURVEYOR.

BOOK 3818

I, William E. Hiester, U.S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U.S. District Cadastral Engineer, U.S. Surveyor General for far Group 139, Arizona,

bearing date of the 23rd day of April, 1926, 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

South Boundary

and

Subdivision Lines of

Township 36 North, Range 5 East of the Gila and Salt River Base and Meridian, in the State of Arizona,

which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions,

and the special written instructions of the U.S. District Cadastral Engineer, U.S. Surveyor General for far Group 139, Arizona,

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

Place: San Francisco Calif. William E. Hiester U.S. Surveyor.

Date: May 13, 1927

APPROVAL.

OFFICE OF THE U.S. SUPERVISOR OF SURVEYS,

Denver, Colorado, Feb. 23, 1928

The foregoing field notes of the survey of

Part of the South Boundary

and

Part of the Subdivision Lines

of

Township 36 North, Range 5 East of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by William E. Hiester, U.S. Surveyor and Otis O. Gould, U.S. Transitman

under his special instructions dated April 23, 1926 for Group 139, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U.S. 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.