FIELD NOTES

OF THE SURVEY OF

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~~~~~	TOWNSHIP 28 NORTH, RANGE 11 WEST
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C	Of the Gila and Salt River Base and Meridian,
In the State of	f Arizona
TO UTO SURE O	
	EXECUTED BY
	William E. Hiester, U.S.Surveyor,
In the capacit	
	y of $U.S.$ Surveyor, under Special Instructions dated ${\tt October\ 12}$ ,
issued by the	y of U.S. Surveyor, under Special Instructions dated October 12, e United States Surveyor General to govern surveys included in G
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OR G.



Book "G"
Group 74 - Arizona

#### INDEX DIAGRAM.

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				7th	Std.	Par.	<i>N</i> .			
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Lines surveyed under this group.

---- Unsurveyed.

Book "G"

Group 74 - - Arizona.

Township 28 North, Range 11 West.

DATE DIAGRAM 1923.

For elates of execution of survey of this line see Book" F"

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Indicates surveys executed by William E. Hiester, U.S. Surveyor, on dates shown thereon.

surveys cherein described were executed by enilitian Eulies tent, Folis Surveyor, the dates shown ion thingram ion epage be hereof his ing Buffl& chuffetrans the Nong 377 o The instrument ment was equipped with bulks iest tica I upirole and the smith solar tattachments. Unless actherwise is pecified, all azimuth determinations are accomplished with the solar attachments.

I examine the adjustments of the transit and correct all errors, then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined from observations on Polaris proceed as follows:

April 5, 1923: At camp which is located near the ½ seccor. of secs. 8 and 17, T. 28 N., R.11 W., Gila and Salt River Base and Meridian, in latitude 35°50 N., longitude 113°30 west of Greenwich at 6h. 36.1m.p.m., lim.t. observe Polaris at Western elongation making four observations, two each with telescope in direct and reversed positions, the mean of the readings being 2°30' to left of a prominent point on cliff about 3 miles distant which I use for a reference mark.

Azimuth of Polaris at Western elongation = 1°21'55".

Bearing of reference mark is therefore N.108'E.

pl.6,1923. At8h Om a.m. app.t. Iset off 35°50! N. on the latitude arc, 6°14. N. on the declination arc and determine a meridian with the solar, which I find agrees with the meridian determined from observation on Polaris.

At 4h 0m p.m. app.t. with the same latitude set off on the latitude arc, I set off 6°22t N. on the declination arc and determine a meridian with the solar which also agrees with the Polaris meridian.

I therefore conclude that the adjustments of the solar are satisfactory.

Unless otherwise specified all measurements are made with a 5 chain steel tape compared with a standard steel tape and found correct. The measurements are made on the slope, the slope angles determined with a clinometer and the slope measurements reduced to the horizontal equivelent for entry in the field notes.

1.65

🎘 a with a barbara

of part of Subdivision lines of T. 28 N

Chains.

At a point on the 7th. Standard Parallel North, 21.48 chs.

E.of the Std. cor. of secs. 32 and 33,T.29 N.,R.11 W., described in Book "F," of this group,
Set an iron post, 3 ft.long, 2 ins. in diam., 14 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for closing cor. of secs. 4 and 5, T. 28 N., R. 11 W., marked on brass cap, .

> T29N R11W S 5 S 4 T28N R11W CC 1923

No bearing trees or bearing objects available.

S.0°3'E., on a true line, bet. secs.4 and 5. Over mountainous land in canyon, thru. scattering under-

Descend about 570 ft. over precipitous SW. slope to bottom of canyon.

Chaining is impracticable; therefore, triangulate as fol-

Set flag on the closing sec.cor. From a point ahead on the sec. line at S. rim of canyon, measure a Base 1.88 24 W., 9.46 chs. along rim.

From W. end of Base, the flag brs. N. 15°49'E.

From E. end of Base, the vertical angle to flag is - 9° and to point on sec.line in bottom of canyon

is - 37.°

Dist. by triangulation = 33.54 chs.S.0°3'E.

(Approx.) Wash course NW. in bottom of canyon.

Ascend about 920 ft. over precipitous NE. and N. slopes.

(Approx.) New trail, brs.E. and W. 27.00 33-54

Triangulation point at rim of canyon, bearing N.88°W.and S.88°E. Leave canyon. Enter rolling land. scattering Enter rolling land, scattering timber and undergrowth.

Continue line and measurement by chaining.

Ascend gradually over W.slope, to

Set an iron post, 3 ft.long, 1 in. in diam., 12 ins.in the ground to bed rock, supported in a mound of stone, for 2 sec.cor., marked on brass cap. 40.00

> S 5 S 4 1923

from which. A pinyon, 8 ins.in diam., brs.S.56½°E.,87 lks.
dist., marked ½S 4 BT.
A pinyon, 6 ins.in diam., brs.S.23½°W.,120 lks.
dist., marked ½S 5 BT.
64 ft. even SW slene

over SW.slope. Descend 64 ft. 57.00 Wash, 30 lks.wide, course W. Enter mountainous land.

Ascend 236 ft., over NW.slope. 68.00

Spur slopes W. Enter rolling land.

75.65 80.00

Bescend 27. ft., over SW.slope.
Ascend 30 ft., over W.slope, to
Set an iron post, 3 ft.long, 2 ins. in diam., 6 ins. in the ground to bed rock, supported in a mound of stone, for cor of secs. 4,5, 8 and 9, marked on brass cap,

15.00

Survey of part of Subdivision lines of T. 28 N. 11 W Chains. T28N R11W <u>8 5 5 4</u> s 8 s 9 1923 from which. A. pinyon, 12 ins.in diam., brs.N.303°E., 344 lks.
dist., marked T28N R11W S4 BT.

A pinyon, 14 ins. in diam., brs.S.44½°E., 420 lks.
dist., marked T28N R11W S9 BT.

A pinyon, 14 ins.in diam., brs.S.35½°W., 136 lks.
dist., marked T28N R11W S8 BT.

A pinyon, 14 ins.in diam., brs.N.54°W., 310 lks.
dist., marked T28N R11W S5 BT. dist., marked T28N R11W S5 BT. Land, mountainous and rolling. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, black brush. S.0°3'E., bet. secs. 8 and 9.

Over rolling land, thru. scattering timber and undergrowth.

Ascend 80 ft., over W. and NW.slopes.

Point of spur, slopes W.

Descend 60 ft., over SW.slope. 12.50 Wash, 30 1ks.wide, course W. 22.00 Ascend 95 ft., over N.slope, to
Set an iron post, 3 ft.long, l in. in diam., 6 ins. in
the ground to bed rock, supported in a mound of stone,
for 2 sec.cor., marked on brass cap, 40.00 s 8 s 9 1923. from which, A pinyon, 12 ins. in diam., brs.S.10°E., 185 lks.dist., marked 15 9 BT. A pinyon, 6 ins.in diam., brs. S. 292°W.,77 lks.dist., marked 4 S 8 BT.

Continue over rolling land, thru. scattering timber and undergrowth. Ascend 20 ft., over N.slope, to 49.30 Enter mountainous land. Ascend 67 ft., over N.slope, to Spur, slopes W. Descend 113 ft.; over S. slope, to Enter rolling land. 52,65 57.35 Descend 25 ft., over SW.slope. Wash, 20 lks.wide, course W. 69.05 Ascend 45 ft., over NW.slope.

Descend 25 ft., over S.slope.to

Set an iron post, 3 ft.long, 2 ins. in diam., 12 ins. in
the ground to bed rock, supported in a mound of stone,
for cor.of secs.8,9,16 and 17, marked on brass cap, 77.50 80.00 T28N R11W 1923 from which, A pinyon, 10 ins. in diam., brs. N, 142°E., 60 lks. dist., marked T28N R11W 59 BT. A pinyon, 12 ins. in diam, brs. S. 682 E., 120 lks. dist., marked T28N R11W S16 BT.

A pinyon, 10 ins. in diam, brs. S. 55 W., 74 lks. dist., marked T28N R11W S17 BT. A cedar, 4 ins.in diam., brs. N. 34°W., 114 Land, rolling and mountainous.

Survey of part of Subdivision lines of T128 N. Chains. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, black brush. S. 0° 3' E., bet. secs.16 and 17.
Over ralling land, thru. scattering timber and undergrowth.
Descend 135 ft., over S.slope, to. Enter mountainous land. 14.35 Descend 75 ft., over S.slope, to Enter gently rolling land. 19.20 Descend gradually, over S. slope, to Rim of canyon, brs. E. and W. . Enter muntainous land. Leave timber. 30.40 Descend 190 ft., over steep S.slope, to Bottom of canyon, course SW. 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 10 ins.in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for \( \frac{1}{2} \) sec.cor., marked on brass - cap. s17 s16 1923 No bearing trees or bearing objects available. Ascend 215 ft., over NW.slope. Point of spur, slopes W. Leave canyon. Descend 170 ft., over SW.slope. 51.00 Bottom of gulch, course SW.
Ascend 100 ft., over steep NW.slope, to
Point of spur, slopes W. 61.50 64.80 Descend gradually over SW. slope, to
Top of cliffs, bearing NW and SE., facing SW. Pretous descent beyond this point prevents chaining; therefore, triangulate as follows: Set flag at this point. From point ahead on sec.line measure a Base N.87°3' W. sec. 16 10.00 chs. From W. end of Base, the flag brs. N.35° 56' E. From E. end of Base, the vertical angle to flag is + 20°. Dist. on sec. line = 65.79chs.S.0°3'E. Dist. triangulated = 14.28chs.S.0°3'E. =80.07chs.S.0°3'E. Total distance Dist.by return = 0.07chs.N.0°3' $\Psi$ . measurement 80.00chs.S.0°3'E. to sec.cor. Descent from 65.79 ch. station to sec. cor. is 345 ft. Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bed rock, supported in a mound of stone for cor. of secs. 16,17,20 and 21, marked on brass cap, 80.00

6 Survey of part of Subdivision lines of T.28 N., R. 11 W.

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T28N R11W
 S17 S16
    S21
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1923

from which. A pinyon, 8 ins. in diam., brs.N.801°E.,236
lks.dist., marked T28N R11W S16 BT.
A pinyon, 8 ins.in diam., brs.S.642°E.,176
lks.dist., marked T28N R11W S21 BT. A pinyon, 12 ins.in diam., brs.S.9½°W.,180 lks.dist., marked T28N R11W S20 BT.

A pinyon, 6 ins.in diam., brs.N.49½°W., 79 lks.dist., marked T28N R11W S17 BT.

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

S.0°3'E., bet. secs. 20 and 21. Over rolling land, thru. very scattering timber and scattering undergrowth.

Descend 40 ft., over SW.slope, to Top of cliffs, bearing NW. and SE., forming left rim of can-

Enter mountainous land in canyon.

Descend 364 ft., over steep SW.slope, to Wash, 20 lks.wide, course SE. in bottom of canyon.

Ascend 185 ft., over steep NE.slope, to

Set an iron post, 3 ft.long, 1 in, in diam., 14 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post for 2 sec.cor., marked on brass cap, 40.00

> S20 S21 1923

No bearing trees or bearing objects available. Continue over mountainous land. Ascend 300 ft., over E.slope, to Draw, course NE from W.

75.00

80.00

19,20

37.80

Ascend 96 ft., over NE.slope, to
Set an iron post, 3 ft.long, 2 ins. in diam., 8 ins. in
the ground to bed rock, deposit a stone marked with a cross (x) at base of post, with mound of stone around post for cor. of secs. 20, 21, 28 and 29, marked on brass cap,

> T28N R11W 1923

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

of Subdivision lines of T. Chains S.0°3'E., bet. secs.28 and 29. Over mountainous land, thru. very scattering timber and scattering undergrowth. Ascend 350 ft., over steep NE.slope, to Top of steep ascent, brs. NW and SE. Thence across nearly 19.00 level top of spur, sloping SE. Leave top of spur. 22-.70 Descend 200 ft., over steep S.slope. Draw, course SW. Enter rolling land. 30.00 Descend gradually over W.slope, to

Set an iron post, 3 ft.long, 1 in. in diam., 16 ins. in.

the ground to bed rock, deposit a stone, marked with
a cross (x) at base of post, and raise a mound of 40.00 stone around post, for # sec.cor., marked on brass No bearing trees or bearing objects available. Continue over rolling land, thru. very scattering timber and undergrowth. Descend 80 ft., over W.slope, to
Ascend 70 ft., over NW.slope, to
Thence over W.slope, ascending gradually to
Set an iron post, 3 ft.long, 2 ins. in diam., 26 ins. in
the ground for cor. of secs. 28, 29, 32 and 33, marked 68.400 75.00 80.00 on brass cap, T28N R11W S29 S28 S32 S33 1923 No bearing trees or bearing objects available.
Raise a mound of stone, 4 ft.base, 3 ft.high, W.of cor. Land, mountainous and rolling. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, black brush, cactus and yucca. S.0°3' E., bet. secs. 32 and 33. Over rolling land, thru. scattering undergrowth. Ascend gradually over W.slope, to 8.30 Enter mountainous land. Ascend 30 ft., over NW.slope. Descend 65 ft., over SW.slope. Ascend 60 ft., over NW.slope. 10.40 Descend gradually over W.slope,to

Descend 82 ft., over S.slope,to

Set an iron post, 3ft. long, 1 in. in diam., 18 ins.

in the ground to bed rock, supported in a mound of stone for \(\frac{1}{4}\) sec.cor., marked on brass cap, 28.00 34.00 40.00

No bearing trees or bearing objects available.
Raise a mound of stone, 3 ft. base, 2 ft. high, W of cor.

8 Survey of part of Subdivision lines of T. 28 N., R. 11 W.

Chains.

At 11.80 chs.S. of this. \( \frac{1}{4} \) sec.cor., the line intersects edge of bluff, 250 ft. high, on N. rim of the canyon of the Colorado river. The river is about 2500 ft. below the rim. Being unable to continue farther on account of precipitous slopes and cliffs, discontinue the survey of this line at the \( \frac{1}{2} \) sec.dor.

Land, rolling and mountainous. Soil, rocky, 3rd and 4th rate. Timber, none. Undergrowth, black brush.

The 7th Standard Parallel North, being unsurveyable west of the standard \$\frac{1}{4}\$ sec.cor. of sec.32, the point for closing cor. of secs. 5 and 6 thereon is inaccessible; and as the N. half of line bet. secs.5 and 6 falls on precipitous slopes in a canyon, no point thereon within prescribed limits is accessible for the establishment of a witness cor. to said closing cor. The north half of line bet. secs.5 and 6 is therefore, unsurveyable. No portion of said sec.line can be chained, but establish witness cor. to \$\frac{1}{4}\$ sec. cor. by a traverse triangulated and chained from closing cor. of secs.4 and 5, and then measure the south half of the sec. line by a traverse chained from said witness cor. thru. sec.6 to the cor.of secs.5,6, \$\frac{1}{4}\$ and \$8\$, both of which processes are described as follows, and illustrated on the accompanying diagrams:

5ec. 32

# BOOK 3646 POOK 3646

Survey of part of Sabdivision lines of Tl 28 N., R.11 W.

36.27

Set flag on the closing cor.of secs.4 and 5, on 7th Std.

Par.N., indicated on diagram at "A,"

From point "B"on 7th.Std.Par.N., measure a Base S.22°2'W.

11.21 chs.to point "C."

flag at point "D" which brs.S.40°00'E.from "B"and S. 65.55'E. from "C."

By solution of triangle "B-C-D" the length of "B-D" is

found to be 25.63 chs.
From "D"to flag at "A" brs.N.79°49'E..
By solution of triangle "A-B-D"the length of "A-B"on the 7th.Std.Par.N.is found to be 125.78 chs.

The triangulated portion (A-B-D) of the traverse is therefore

125.78 chs: West

S.40 00E. 25.63 chs. thence chaining measurement of traverse from point"D"along rim of canyon, as follows:

S.27°15'E. 22.02 chs.to point "E."

Thence, 9.10 chs.to point "F." East,

Thence

0.64 chs.to point "G." North.

Thence,
0.35 chs.to point "H" which is as close to East. the point for \frac{1}{2} sec.cor., indicated on diagram at "L."as it is possible to measure.

The latitude of traverse "A-B-D-E-F-G-H" is 38.57 chs.S., and the departure is 89.78 chs.W.

The latitude of traverse "A-K-L" (West 80.00 chs., and S.O.)

3'E.,40.00 chs is 40.00 chs.S., and the departure is

79.97 chs.W.

Point "H" is therefore 1.43 chs.(40.00 chs.- 38.57 chs.)

north of E and W line thru.point for ½ sec.cor.(L)

and 9.81 chs. (89.78 chs.- 79.97 chs.) west of N.and

S. line, thru.point for ½ sec.cor.(L).

Point "H" is therefore 9.91 chs.N.81°42'W.from 1 sec.cor. point.

Establish with ess cor. to \frac{1}{4} sec. cor. of secs. 5 and 6 at point "H" as follows:

Mark a cross (x) on surface rock, and over same set an iron post, 3 ft.long, 1 in. in diam., supported in a mound of stone for witness cor. to \frac{1}{4} sec.cor., of secs. 5 and 6, marked on brass cap,

> s 6 s 5 wc 1923

No bearing trees or bearing objects available.

From true.point for \$\frac{1}{2}\text{.sec.cor.,}\$\$.0°3'E., bet. secs.5 and 6 (S.\$).

Over mountainous land in canyon, thru.scattering undergrowth.

Chaining is impracticable. Measurement by traverse as described as follows, and as shown on the diagram hereon:

W#\$T)

NO 42'W A PT. FOR 1/4 SET. COM

From point for 1 sec.cor.indicated

at "Aon diagram, N.81°42'W., 9.91 chs. (measurement computed by previous traverse) to the witness cor. "B."

Thence chaining the measurement of the remainder of the traverse along rim of canyon, as follows:

West, 0.35 chs. to point "C." Thence,

342 31

TO L.

0.64 chs.to point "D." South.

Thence, 7.76 chs.to point "E." s 5°15'W.

Thence.

BOOK 3646 1185 1100 (3

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Survey of Subdivision lines of T
Chains
         S.10°56'E., 24.74 chs. to point "F."
                                        Thence.
         S.0°3'E., 8.77 chs.to point "G".
                                        Thence.
                            6.21 chs.to point "H."
         East. 6.21 chs.to point "H."
The latitude of the traverse "A-B-C-D-E-F-G-H" is 40.00
             chs.S and the departure is 0.035 chs.E., which agrees with the latitude and departure of the S. 2 of the sec.
              line bet. secs. 5 and 6 (A-H).
         Point "H" is therefore 40.00 chs.S.0°3'E.from "A" and is
              the true point for the establishment of the cor. of secs.
             5,6,7 and 8.
          (Approx.) Bottom of canyon, course NW.
 3.00
         Ascend over precipitous NE. and E. faces of cliffs, to Top of cliffs. bearing NW. and S. facing E. Set an iron post, 3 ft.long, 2 ins. in diam., 12 ins. in the ground to bed rock, deposit a stone marked with a
80.00
              cross (x) at base of post, and raise a mound of stone
              around post, for corrof secs. 5,6,7 and 8, marked on
              brass cap.
                                        T28N R11W
                                         $56 $55
                                          S 7 S 8
          No bearing trees or bearing objects available.
          Land mountainous.
          Soil, rocky, 4th rate.
          Timber, none.
          Undergrowth, black brush yucca and cactus.
          East, on random line, bet. secs. 5 and 8.

The cor. of secs. 5,6,7 and 8 is at the top of cliffs on
              W. side of canyon; therefore, it is impracticable to
              chain measurement on random sec.line therefrom.
          Triangulate from sec.cor. as follows:
          Set flag ahead on random line,
              the vertical angle to which is
          From sec.cor. measure & Base, S.0°36'W.,8.91 chs.
          From S.end of Base, the flag
              brs.N.80°07'E.
          Dist.by triangulation = 51.04 chs.East. Dist.by return measure-
                                           = 11.04 chs.West.
              ment
                                             40.00 chs.East.
40.00
          Set temp. 4 sec.cor.
          Continue line and measurement by chaining.
          Triangulation point. Continue chaining.
51.04
79.84
          Fall 7 lks.S.of the cor. of secs.4,5,8 and 9.
          Thence
          S.89 57.W., on a true line, bet. secs. 5 and 8.
          Over rolling land, thru scattering timber and undergrowth. Descend 30 ft., over W. slope, to
          Enter mountainous land.
  3.17
          Descend 96 ft. over steep & slope to
New trail, brs. NW and SE. at foot of steep descent,
  8.00
              same bearing. Enter rolling land.
          Descend 87 ft., over SW. slope, to
Triangulation point at top of cliffs, bearing SE. and NW.,
facing W. Enter mountainous land. Continue chaining.
Descend 380 ft., over cliffs and steep W. slope, to
Set an iron post, 3 ft.long, l in. in diam., on surface
rock, deposit a stone, marked with a cross (x) at base
of rock and raise a mound of stone around post for
28.80
39.92
              of post and raise a mound of stone around post, for t sec.cor., marked on brass cap,
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Ç	Survey of	Prart of Subdivigiôn lines of T. 28 N. R. 11 W. 11
	Chains.	
		1 S 5 S 8 1923
	7	1923
		No bearing trees or bearing objects available.
		Discontinue chaining. Measurement of W.z of line by triangulation, hereinbefore described.
_	<b>50</b> .00	Descend about 700 ft. to cor. of secs + 5,6,7 and 8.
,	50.00	(Approx.) Bottom of canyon, course NW. about 900 ft.below sec.cor:
	60.00	Ascend about 500 ft.over NE.slope.  Spur.slopes NW.
	•	Descend about 900 ft:, over W.slope.
	70.00	Wash, in bottom of canyon, course NW. Ascend about 600 ft., over cliffs, facing E, to
•	79.84	The cor. of secs. 5,6, 7 and 8 at top of cliffs, bearing NW. and S.
		Land, rolling and mountainous.
		Soil, rocky, 4th rate. Timber, cedar and pinyon.
		Undergrowth, black brush, cactus and yucca.
		S.0°3'E., bet. secs. 7 and 8.
,		Over mountainous land, in. canyon, thru. scattering timber and undergrowth. Precipitous E.slope and cliffs pre-
	e de la companya de l	-vent chaining on the dec. line; therefore, survey
		the line by offset, as described as follows:
		From cor. of secs. 5,6,7 and 8, West. 6.2 chs. to W. or lieft rim
	*	of canyon, bearing N.
		and S.ahout 100 ft.  above sec.cor.
	e e	Thence, 5.0%3'E.,40.00 chs.on offset line
		parallel to and 6.21
		chs.W.of sec.line.
		sloping N.at W.rim of canyon.
•		Asc. 225 ft. to offset
	\$ 5 F	point. Thence.
	00 7 ( <b>1</b> ) 33 70 €	East, 6.21 chs.descending over steep  NE.slope.to
	40.00	Set an iron post. 3 ft. long. 1 in. in diam., 24 ins.in
,		the ground, for \$ sec.cor., marked on brass cap,
		s 7 s 8
	γ : . Ο γ	
		1923 · · · · · · · · · · · · · · · · · · ·
		from which, A cedar, 8 ins.in diam., brs.N.83°E., 37 lks.
2.		dist. marked 1 S 8 BT.
	6	A pinyon, 10 ins.in diam., brs. N. 662°W., 223 lks. dist., marked \$\frac{1}{2}S 7 BT.
	.01084	Cliffs facing NE. beyond this cor. prevent chaining on sec. line; therefore, measure by offset line as fol-
		lows:
		From 4 sec.cor.,  Best, 1.40 chs. Ascending 60 ft.,
		over steep E.slope to offset pt. Thence,
	•	S.0.3'E., 9.82 chs.on offset line,
		· parallel to and 1.40 chs. W. of sec.line.
	Principles and the second	Asc. 70 ft. over NE.
		slope to offset point on ridge, bearing NW. and SE.

Survey of part of Subdivision lines of T.28 N. R.11 W. Chains. Thence,
East, 1.40 chs., descending slightly over NE.slope, to
Thence, S 0°3'E., on sec.line, continuing measurement.
Over mountainous land, thru. scattering timber and under-49.82 growth. Ascend 20 ft., over NE.slope.

Ridge, brs.NW. and SE.

Descend 62 ft., over SW.slope, to

North, or right rim of canyon, brs.NW. and SE.

Descend 340 ft., over steep SW.slope, to

Set an iron post, 3 ft.long, 2 ins. in diam., 12 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of mpost, and raise a mound of stone around post, for cor. of secs. 7.8.17 and 18. marked 52.75 61.12 80.00 around post, for cor of secs. 7,8,17 and 18, marked on brass cap, T28N R11W s18|s17 1923 No bearing trees or bearing objects available. Land, mountainous. Soil rocky 4th rate. Timber, cedar and pinyon. Undergrowth, black brush. East, on random line, bet. secs. 8 and 17. Precipitous ascent prevents chaining on random sec.line from the sec.cor.; therefore, measure the W. 2 of line by offset line as follows: From cor.of secs.7,8,17 and 18. North, 2.35 chs. to offset point. Thence East, 40.00 chs. on offset line parallel to and 2.35 chs.N.of random sec. line, to offset point. Thence South, 2.35 chs.returning to random sec.line.at 40.00 Set temp. * sec.cor. Thence, East, on random line, bet. secs. 8 and 17, continuing measurement. Fall 21 lks.S. of the cor. of secs. 8,9.16 and 17. 79.92 S.89?51'W., on true line, bet. secs.8 and 17. Over mountainous land, thru. scattering timber and undergrowth.

Descend 135 ft., over steep SW.slope.

Ascand 165 ft., over SE. slope. 14.50 Spur, slopes SW. Descend 45 ft. over N. slope, to Set an iron post, 3 ft. long, l'in. in diam., 6 ins. in the ground to bed rock, supported in a mound of stone, for \( \frac{1}{4} \) sec.cor., marked on brass cap, 39.96 from which, A pinyon, 10 ins. in diam., brs. N. 72°E., 63 lks.dist., marked 1.S 8 BT.
A pinyon, 6 ins.in diam., brs.S.62°W.,143
lks.dist., marked 28 17 BT.

urvey of part of SUbdividion lines of T. 28 N. R.11 W. Chains. Measurement of W. of line by offset line as follows: From 🖶 sec.cor. 2.35 chs.to offset pt., North, in sec.8. Thence S.89°51'W.,39.96 chs.on offset line in sec.8, parallel to and 2.35 chs. N.of sec.line, to offset point. Thence. South, 2.35 chs.to cor.of
secs.7,8,17 and 18.

From f sec.cor.descend 120 ft., over NW.slope, to
(Approx.) Rim of canyon, brs.NE. and SW. Enter canyon.
Descend 285 ft., over steep W.slope, to
The cor.of secs. 7,8,17 and 18.
Land mountainous. 70.15 79.92 Land, mountainous. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, black brush and sagebrush. S.0°3'E., bet. secs.17 and 18. Over mountainous land, in canyon, thru.seattering under-· growth. Precipitous slopes in canyon prevent chaining on sec. line from sec.cor.; therefore, triangulate as follows: Set flag on the cor.of secs. 7,8,17 and 18. The vertical angle from said sec. cor.to point on sec, line in bottom of gulch is .- 26°. From point ahead on sec.line at rim of canyon, measure a Base, S.58°10'E., 5.00 chs.
From SE. end of Base, the flag brs.N.7°53'W. From NW. end of Base, the vertical angle to flag is Dist. triangulated = 28.22 chs.5°0°3'E. (Approx.) Wash, 20 lks.wide, in bottom of gulch.course W., about 195 ft.below cor.of secs. 7,8,17 and 18.
Ascend about 420 ft., over N.slope, to 6.00 28.22 Triangulation point on short spur, projecting NW.from canyon rim. Leave canyon. Enter rolling land, scattering timber and undergrowth. Centinue line and measurement by chaining.
Ascend 65 ft., over NW.slope.to

Set an iron post, 3 ft.long, 1 in. in diam., on surface rock, supported in a mound of stone, for 4 sec.cor., 40.00 marked on brass cap. from which, A pinyon, 8 ins. in diam., brs. S. 892°E., 79 1ks.dist., marked 2 SI7 BT. A pinyon, 6 ins. in diam., brs. N.12°W., 60 lks. dist., marked 48 18 BT.

Continue over rolling land, thru.scattering timber and

undergrowth.

Ascend 70 ft., over NW.slope.

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Survey of part of Subdavision lines of m
🖫 Chains.
               Descend gradually over SE. slope, to
72.00
80.00
               Set an iron post, 3 ft.long, 2 ins, in diam., 24 ins. in the ground for cor. of secs. 17,18,19 and 20, marked on
                     brass cap, ..
                                                           T28N R11W
$18 S17
                                                             $19 520
                                                               1923
                     from which,
              A pinyon, 14 ins. in diam., brs.N.264°E.,51

lks.dist., marked T28N R11W S17 BT.

A pinyon, 12 ins.in diam., brs.S.43°E.,215

lks.dist., marked T28N R11W S20 BT.

A pinyon, 10 ins.in diam., brs. S.294°W.,120

lks.dist., marked T28N R11W S19 BT.

A pinyon, 10 ins.in diam., brs.N.643°W.,60

lks.dist., marked T28N R11W S18 BT.

Land, mountainous and rolling.

Soil rocky 3rd and 4th rate.
               Soil, rocky, 3rd and 4th rate.
               Timber, pinyon and cedar,
               Undergrowth, black brush.
              East, on a random line, bet. secs. 17 and 20. Set temp. 2 sec. cor.
40.00
              Fall 7 1ks.S.of the cor.of secs.16,17,20 and 21.
79.78
             Thence,
S.89° 57'W., on a true line, bet, secs.17 and 20.
Over rolling land, thru.scattering timber and undergrowth.
Descend 57 ft., over SW.slope, to
Rim of canyon, brs.NE and SW. Enter mountainous land in
22.00
               Descend 153 ft., over W.slope.to
              Wash, 50 1ks.wide in.gulch, course SW. Ascend 60 ft., over SE.slope. Point of spur, slopes S.
33.50
35.80
               Descend 70 ft., over SW.slope.
              Wash, 20 lks.wide, course SE.in bottom of canyon.
Ascend 34 ft., over NE.slope, to
Set an iron post, 3 ft.long, 1 in. in diam., 18 ins. in
the ground to bed rock, supported in a mound of stone
for 2 sec.cor., marked on brass cap.
37.85
39.89
                                                              1923
                     from which.
                                A pinyon, 8 ins.in diam. brs. N. 412°E., 116 lks.
              dist., marked $\frac{1}{4}$S 17 BT.

A pinyon, 6 ins. in diam., brs. East 123 lks.

dist., marked $\frac{1}{4}$S 20 BT.

Continue over mountainous land in canyon, thru. scattering
               timber and undergrowth.
Ascend 90 ft., over NE.slope.
43.50
48.80
              Descend 46 ft., over NW.slope.
Wash, 20 lks.wide, in gulch, course NE.
               Ascend 130 ft., over SE.slope.
53.20
               Point of spur, slopes S.
              Descend 27 ft., over SW.slope.
Same wash,10 lks.wide, course SE.
Ascend 52 ft., over NE.slope, to
west rim of canyon, brs.NW. and SE. Leave canyon. Enter
rolling land.
59.86
64.80
              Ascend gradually over SE.slope, to The cor. of secs. 17,18,19mand 20: Land, rolling and mountainous. Soil, rocky, 3rd and 4th rate.
79.78
               Timber, cedar and pinyon.
               Undergrowth, black brush, catclaw and cactus.
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Survey of part of Subdivision lines of T.28 N.
Chains.
           S.0°3'E., bet. secs. 19 and 20.
           Over gently rolling land, thru. scattering timber and
               undergrowth.
           Descend gradually over SE. slope.
          Rim of canyon, brs.NW and E.
                                                      Leave gently rolling land
 22.50
               and timber, and enter mountainous land in canyon.
          Descend 350 ft., over steep S.slope. Wash, 20 lks.wide, in gulch, course W. Ascend 112 ft., over steep NW.slope, to
 33.30
           Set an iron post, 3 ft.long, 1 in. in diam., 12 ins. in the ground to bed rock, deposit a stone, marked with
 40.00
               cross (x) at base of post, and raise a mound of stone around post, for 4 sec.cor., marked on brass cap, *
                                          S19 S20
                                           1923
           No bearing trees or bearing objects available.
           Continue along E.side of canyon.
           Ascend 300 ft., over steep NW.slope, to Rim of canyon, brs.NE and SW. Leave
                                                       Leave canyon. Enter roll-
 51.46
               ing land.
          Ascend 46 ft., over NW.slope. Point of spur, slopes W.
 66.03
           Descend 20 ft., over SW.slope, to
           Same canyon rim, brs. SE. and NW.
                                                           Enter mountainous land
 71.00
               in canyon.
          Descend 125 ft., over SW.slope, to
Set an iron post, 3 ft.long, 2 ins. in diam., on surface
rock, deposit a stone marked with a cross (x) at base
 80.00
            of post, and raise a mound of stone around post, for cor. of secs. 19, 20, 29 and 30, marked on brass cap,
                                         T28N R11W
                                          S19 S20
                                          $30 L$29
                                           .1923
           No bearing trees or bearing objects available.
           Land, gently rolling, mountainous.
           Soil, rocky, 4th rate,
           Timber, cedar and pinyon. Undergrowth, black brush.
           East on a random line, bet. secs. 20 and 29. Set temp. 2 sec.cor.
 40.00
           Fall 12 lks.N.of the cor.of secs. 20, 21, 28 and 29.
 79.96
           Thence, N.89°55'W., on a true line, bet. secs.20 and 29.
           Over mountainous land, in canyon, thru.scattering timber
               and undergrowth.
           Ascend 280 ft., over NE.slope, to
Right rim of canyon, brs. SE. and NW. Leave canyon. Enter
gently rolling land on mesa.
 21.00
           Ascend gradually over SE.slope, to
Set an iron post, 3 ft.long, 1 in. in diam., on surface
rock, supported in a mound of stone, for $\frac{1}{4}$ sec.cor.,
 39.98
               marked on brass cap,
                                           S 20
                                            1923
               from which,
                      A pinyon, 10 ins.in diam., brs.N.48°W.,100
                            lks.dist., marked 1/4 S 20 BT.
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A pinyon, 8 ins, in diam., brs.S.213°E.,41

lks.dist., marked  $\frac{1}{4}$ S 29 BT.

100

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16 Survey of part of Subdivision lines of T. 28 N. R.11
               Continue over gently rolling land on mesa, thru. scattering
                    timber and undergrowth.
               Descend gradually over St. and SW. slopes, to
               Rim of canyon, brs.N. and S. Enter mountainous land in
  70.60
                    canyon.
               Descend 130 ft., over W.slope, to
The cor. of secs. 19, 20, 29 and 30.
  79.96
               Land, mountainousnand gently rolling.
               Soil, rocky, 4th rate.
               Timber, cedar and pinyon. Undergrowth, black brush.
               S.0°3'E., bet. secs.29 and 30.
Over mountainous land, in canyon, thru.very scattering
              Over mountainous land, in canyon, thru.very scattering timber and scattering undergrowth.

Descend 360 ft., over steep SW.slope.

Wash, 30 lks.wide, in gulch, course W.

Ascend 280 ft., over NW.slope.to

Set an iron post, 3 ft.long, 1 in. in diam., 6 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for \( \frac{1}{2} \) sec.cor., marked on brass
  20.80
  40.00
                                                      s30 s29
                                                        1923
               No bearing trees or bearing objects available.
               Continue along E.side of canyon.
               Ascend 490 ft., over NW.slope, to
Rim of canyon, brs.E. and W. Leave canyon. Enter rolling
   61.44
                   land.
               Ascend 46 ft., over NW.slope, to
               Same canyon rim, brs. SE. and NW.
   72.79
               Set an iron post, 3 ft.long, 2 ins. in diam., 12 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for witness cor. to the cor. of secs. 29, 30,31 and 32, marked on brass cap,
                                                     T28N R11W
                                                       S30 | S29
                                                       831 832
W C
                                                        1923
               No bearing trees or bearing objects available. Precipitous descent over cliffs prevent chaining farther
                     on the sec.line.
               True point for cor.of secs.29,30, 31 and 32 falls on face of cliffs, where it is inaccessible:
Land, mountainous and rolling.
   80.00
               Soil, rocky, 4th rate.
                Timber, cedar and pinyon:
               Undergrowth, black brush, cactus and yucca.
               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 being inaccessible and part of the
                     random line falling on cliffs in canyon, begin measurement by offset line, as described as follows:
```

From sec.cor.point,

Survey of part of Subdivision lines of T. 2**8** N. N.0°3'W. 7.21 chs. (computed) on the sec.line, bet.secs.29 and 30, to the W.C. to sec.cor. Thence, East. 2.61 chs.on offset line in sec.29, parallel to, and 7.21 chs.N.of random sec. line, to offset point. Thence, S.0°3'E. 7.21 chs.on offset line, returning to point on ran-dom sec.line at Offset point. Thence East, on random line, bet. secs. 29 and 2.61 32, continuing measurement from point for cor. of secs. 29,30,31 and 32.

Set temp. 2 sec. cor.

Fall 14 1ks.N. of the cor. of secs. 28,29,32 and 33. 40.00 79.68 Thence,
N.89.54'W., on true line, bet. secs.29 and 32. Over rolling land, thru scattering undergrowth. Descend 165 ft., over W.slope. Wash, 30 lks. wide, course S. 15.85 Enter mountainous land. Ascend 206 ft., over SE.slope. 26.70 Point of spur, slopes S. Enter rolling land. Point of spur, slopes b. Enter rolling land.

Descend 30 ft., over SW.slope.

Wash, 10 lks.wide, course SE. near head.

Ascend 17 ft., over SE.slope, to

Set an iron post, 3 ft.long, 1 in.in diam., 12 ins.in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for 4 sec.cor., marked on brass cap, 37.20 39,84 No bearing trees or bearing objects available. Thence, over mountainous land, thru. scattering undergrowth. Ascend 200 ft., over SE.slope. 50.70 Point of spur, slopes SE. Descend 75 ft., over Sw. slope. 55.70 Draw, course S. Ascend 225 ft., over E.slope, to Rim, brs.NW, and SE. Enter rolling land. 64.50 Ascend 64 ft., over SE.slope. Descend slightly over SW.slope, to 72.90 E. rim of canyon, brs.Nw. and Sw. Descend over cliffs to sec.cor.point. 77.07 Measurement by offset. line as follows: From 77.07 ch. station on sec. line, N.0°3'W., 7.21 chs. on offset line in sec. 29, to offset point. Thence. 2.61 chs.on offset line, parallel to and 7.21 chs.N.of sec.line, to N.89°54'W. the W.C. to sec.cor. Thence, S.0°3'E. 7.21 chs. (computed) on sec. line, bet. secs. 29 and 30. ·to The true point for cor. of secs. 29,30,31 and 32, on face of cliffs on E. side of canyon, where it is inaccessible. 79.68 Land, rolling and mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, black brush.

Survey of part of Subdivision lines of T. 28 N., R. 11

From true point for cor. of secs. 29;30,31 and 32; 8.0°3'E., bet. secs. 31 and 32 (N. \frac{1}{2}). Over mountainous land, on E. side of canyon, thru. scattering undergrowth. The sec.cor.point being inaccessible, and part of the sec. line impassable owing to cliffs, measure by offset line as follows:

From point for cor. of secs. 29,30,31 and 32. N.0°3'W. 7.21 chs. (computed) on sec. line, bet. secs. 29 &30, to the W.C. to cor. of secs. 29,30,31 and 32, at E.rim of canyon. Thence.

2.61 chs: chaining measure-East. ment to offset point in sec. 29. Thence,

S.0°3'E., 7.21 chs.chaining measurement to a point at same canyon rim at 2.61 chs.E. of sec.cor. point.

Thence

S.0°3'E.,37.42 chs chaining measurement on offset line in sec. 32 parallel to and 2.61 chs.E. of sec.line, to offset point.

Thence,

West.

2.61 chs.chaining measure ment to offset point on sec.line at 37.42 chs.S.0°3'E.from sec. cor . point .

Ascend over NW.face of cliffs to 10.00

(Approx.) Spur, slopes SW. between two canyons, one in sec.

31, and the other in sec. 32.

Descend about 300 ft., over steep SE. slope, to (Approx.) Foot of steep descent, bearing NE and SW. Thence 25.00 over ledge, same bearing.

(Approx.). Leave ledge.

From sec.cor.point,

32.00

Descend 75 ft., over S. slope, to Offset point at foot of descent. 37.42

Thence, S.0°3'E. on sec.line, bet. secs.31 and 32, continuing measurement.

Descend slightlynover ledge to

Top of perpendicular cliff about 400 ft.high, bearing E. and W., facing S., and forming North or right rim of

the Colorado River Canyon.

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

.**S31 | S**32

40.00

No bearing trees or bearing objects available.

The true point for 4 sec.cor. falls on face of cliffs and is inaccessible.

The S. 2 of this line is in the Colorado River Canyon, and is unsurveyable. The Colorado River is about 3000 ft: below and about three quarters of a mile south from the above described W.C.

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Survey of part of Subdivision lines of T. 28 N. R.

Chains

Land, mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, black brush.

The continued satisfactory adjustment of the solar apparatus of the instrument used in the execution of the surveys described in the foregoing notes is indicated from field tests described in Book "H."

Boundaries of that part of T. 28 N., R. 11 W.surveyed under this Group (secs.8, 17, 20 and 29).

Latitudes, departures and closing errors.

				<del></del>		·	
Line des	ignated.	True course.	Dist.	Latitud N.	es. I S.	Departur	460000000000000000000000000000000000000
		COULSE.		1/1 •	N.	E.	W.
Subdivi	sional dary.	N.89°54'W. N.0°3'W. N.89°57'E.	79.68 320.00 79.84	.14 320.00 .07	The state of the s	79.84	79.68 .28
	,	S.0°31 E.	320.00		320.00	79.84	
Converg	ency,	(				.06	
	Totals	131		320.21	320.00	80.18	79.96
				320.00		79.96	
	Error i	n latitude.		0.21			
	Error i	n departure.				0.22	
				•		`	

#### GENERAL DESCRIPTION.

The portion of T.28 N., R.11 W., Aubdivided as described in the foregoing notes includes all of the land in the town-which practical to survey. The unsurveyed portion is in the Colorado River Canyon and deep side canyons thereto from 2000 to 3000, ft. deep. The area surveyed has a mountainous and rolling surface. On a mesa in secs. 20 and 29 this surface is gently rolling.

The soil is rocky, 4th rate, tho. a part might be classed as 3rd rate.

The timber condisting of cedar and pinyon is scattering over secs. 5,8, and 17, and very scattering in sec. 20, and part of sec. 29. There is no timber in sec. 32, and part of sec.

There is a scattering undergrowth of black brush, cactus, catclaw, sagebrush and yucca in nearly all parts of the surveyed area.

There are no water courses carrying a permanent flow of water, and no springs. No indications of valuable mineral deposits were observed during the progress of the survey. No settlers are located in the townhip, and there are no

A new trail extends northerly from the improvements. A new trail extends northerly from the southern part of sec.8, thru.secs.5 and 4, leaving the Tp.on the N.bdy.of sec.4.

There are no other trails and no roads. At the present time this township is almost inaccessible, and the land is unsuitable for any purpose.

4--680

#### FIELD ASSISTANTS. to

NAMES.	U.S. Surveyor.  CAPACITY.			
John Boggs,	lst chainman,			
Thomas Tennison,	2nd chainman,			
Lowell McAllister,	cornerman,			
Aza Alldredge	axman,			
Reed Hunt	flagman.			
t diguis sever este a como es				
. 1.24 to 1.77				
/	•			
<u> </u>				

22 CERTIFICATE OF UNITED STATES SURVEYOR.

I, William E. Hiester,	, U. S. Surveyor, hereby certify upon honor that, in pursuance
of special instructions received from the U.S.	Surveyor General, for Group 74, Arizona,
bearing date of the12th day of	October,
in my own proper person, and in strict confor	rmity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United States, surve	eyed all those parts or portions of _the
•	· P. C. C. C. C. C. Arrighton
· · · · · · · · · · · · · · · · · · ·	NORTH, RANGE 11 WEST.
	Market Market in the Control of the Control of the Control of the
	6.1. 02.1. 0.3.4
	of the Gila and Salt
and by diagram on	
the foregoing field notes/as having been execut	ted by me, and under my direction; and that all the corners of
said survey have been established and perpetus	ated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of t	the U.S. Surveyor General, for Group 74, Arizona,
and in the specific manner described in the fie	eld notes, and that the foregoing are the original field notes of
such survey.	(Q) 10. 500 p
Place Lunicanu Star	h. (William Edliester U. S. Surveyor.
Date: Jan 24 1925	
A	APPROVAL.
Ora	FICE OF THE UNITED STATES SURVEYOR GENERAL,
	Phoenix, Arizona, FEB 1 6 1925 , 1925
	the
Subdivision lines of	
TOWNSHIP 28 N	WORTH, RANGE 11 WEST.
of the Gila and Salt River Ba	ase and Meridian, in the State of Arizona,
	en e
executed by .William E. Hiester U	J.S.Surveyor.
under his special instructions dated Octob	per 12,1916, for Gro 74, Arizons, having been
critically examined, and the necessary correction	ons and explanations made, the said field notes, and the surveys
they describe, are hereby approved.	The man of
	Garles M. Dous los. U. S. Surveyor General.
I certify that the foregoing transcript of the	he field notes of the above described surveys in
, has been e	correctly copied from the original notes or file in this office.