Book "H"

BOOK 3524

FIELD NOTES

OF THE SURVEY OF THE

	the East boundary.	
	Would hound one	•
	the North boundary,	·
	and the Subdivision lines of	
		·
	Township 41 North, Range 13 West,	·
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the State ofarizon	a	
	EXECUTED BY	
	Joseph P. Davis, U. S. Cadastral Engi	neer,
	and Claude F. Warner, U. S. Transit	man .
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ii a a a a a a a a a a a a a a a a a a	Surveyor. s ., under Special Instructions da	uted Sentember 29 192
the capacity of U.S.	Surveyor.s., under Special Histractions ad	voor
*	States Surveyor General to govern sur	
	which were approved by the Commission	ner of the General La
o. 112, Arizona , u		ted Dogember 15 191
	., 19 20 , and Assignment Instructions dat	rea <u>Dosambor 10.,</u> 10.
	., 19 20 , and Assignment Instructions dat	rea <u>December 11,</u> 10.

BOOK 3524

INDEX DIAGRAM.

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	1	Tenth Sta	ndard Paral	lel North			
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Lines surveyed under this Group.

____ Unsurveyed.

Book "H" Group 112- Arizona

Date Diagram

Township 41 North, Range 13 West,

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	4-19-21 4-19-21		4-18-21	4-18-21 _N	4-18-21	4-18-21	
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400 410 0140	18 -61 12-	4-25-21 17 -23-4	16 -56-21	15 - 92-	14 - 5-	13 -82 -82 -82 -82	
	4-18-21	4-1-21	4-4-21	4-5-21	4-1-21	3-29-21	
W ABYBB AF	19 19 -30-5	3-29-21 3-1-2	21 -2-7 21 -2-21	4-5-21 22 -7-4 22 13-4-4	23 ^[2] -62 -62 -62 -62 -62 -62 -62 -62 -62 -62	24 & 24 & 2-29-21	
K		3-28-21			•		
1100	30 -83-21	29 R	& -31-21	27 12- 4- 4	26 26 26 Z	, 25 ^{[2} -22-	
2000	3-23-21	3-22-21	3-24-21	3-25-21	3-26-21	3-28-21	
1	0-20-21 0-22				3-25-21		
	31 -22	32 - 33 - 32	33 -42-	12-92-£ 34	35 - 21 25-21	36 -82- 13-83-	
	3-21-21	3-21-21	3-22-21	3-22-21	3-22-21	3-22-21 ¹⁹	

Tenth Standard Parallel North

On the above diagram:-

black lines indicate surveys executed by Joseph P. Davis,
U. S. Cadastral Engineer,

and red lines indicate surveys executed by <u>Claude F. Warner</u>, <u>U. S. Transitman</u>, all on dates shown thereon.

Surveys hereinafter described executed by J. P. Davis, U. S. Cadastral Engineer and C. F. Warner, U. S. Transitman on dates shown on diagram on page 1 hereof, using respectively Buff light mountain transit No. 10125 and Young and Sons light mountain transit No. 8532. For description of instruments and certificate of approval, see Book "A".

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

Examine the adjustments of the transits and correct all errors; then, to test the solar apparatus, by comparing their indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris at elongation, proceed as follows:

March 20, 1921.

At camp in sec. 2, T. 40 N., R. 13 W., G. and S. R. B. and M., lat. 36°58½'N., long. 113°40½'W., at 9 hrs. 0 m.a.m., l.m.t., set off 36°53½'N. on the lat. arcs; 0°10'S. on the decl. arcs; and determine a meridian with each solar.

- At apparent noon, with the lat. arcs unchanged, e observe the sun on the meridian; the resulting decl. with each instrument is 0°7½'S., which is the computed decl. of the
- At 3 hrs. 0 m. p.m., 1.m.t., with the lat. arcs unchanged, set off 0°4'S. on the decl. arcs, and determine a meridian with each solar, which agrees with the morning observations.
- At 7 hrs. 36.5 m., p.m., l.m.t., observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark a point in the Line thus determined by a tack in a stake, firmly driven in the ground 5 chs. N. of station.
- March 21, 1921. At 8 hrs. 0 m., a.m., 1.m.t., lay off the azimuth of Polaris, 1°23 to the E., and find that the true meridian thus determined coincides with the meridian determined by observations with the solars.
- As all of the solar observations during the usual hours of solar work come within 1'30" of the true meridian, conclude hat the adjustments of the solars are satisfactory.

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Survey of the 10th Std. Par. North, thru. Range 13 West.
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Chains.

From a point 4 lks.S. of the standard cor. of Ts. 41 N., Rs. 13 and 14 W., on 10th Standard Parallel North, described in Book "F,"

N.39°58'E., on the secant, south of sec.31.

Over mountainous land, thru. scattering undergrowth. Ascend 100 ft.

4.28 7.50 20.10 Ridge, brs.N.30°W. and S.30°E. Thence across top of ridge

Descend 200 ft., over NE. slope.

Draw, course N. Asc. 120 ft., over NW. slope, to
Spur, slopes N. Desc. 85 ft., over NE. slope, to
North, 2 lks. from the secant,

31.80

40.00 Set an iron post, 3 ft.long, 1 in. in diam., 20 ins.in the ground, for standard tector. of sec.31, marked on brass cap,

s c <u>4</u>s 31

1921

and raise a mound of stone, 2 ft. base, 12 ft. high, N.

of cor. Ascend 15 ft.

43.00 Spur, slopes N.15°W. Desc. 005 ft., over broken NE. slope. 70.75 Gulch, course N.10°W. Asc. 70 ft., over SW. slope, to 80.00 Set an iron post, 3 ft.long, 3 ins., in diam., on bedrock, with marked stone, for standard cor. of secs. 31 and 32, and raise a mound of stone around post, with brass cap, marked

> SC T41N R13W S31 | S32

> > 1921

Land, rough, mountainous. Soil, rocky, gravel and brown loam, 4th rate.

No timber. Undergrowth, cedar, pinyon, sagebrush and black brush.

N.89°59'E., on the secant, thru. sec.32. Over mountainous land, thru. scattering undergrowth. Ascend 25 ft.

2.96 Spur, slopes N. o0°W. Desc. 170 ft., over NE. slope. 20.80 Gulch, course N. Asc. 150 ft., over W. slope. 31.05 Ridge, brs. N. and S. Desc. 85 ft., over NE. slope, to 40.00 South, 1 lk.from the secant,

Set an iron post, 3 ft. long, l in. in diam., on bedrock, with marked stone for standard 4 sec.cor. of sec.32, and raise a mound of stone around post, with brass cap, marked

Descend 100 ft., over NE. slope, to
40.00 Short draw, course S.80°E. Descend 40 ft.
51.00 Draw, course N.15°E. Ascend 135 ft., over NW. slope.
62.15 Ridge, brs.N.10°E. and S.10°W. Desc. 200 ft., over NE.

slope, to

80.00 South, 2 1ks.from the secant, at head of draw, course N. 50°E. Set an iron post, 3 ft.long, 3 ins. in diam., 8 ins.in

the ground, with marked stone, for standard cor. of secs. 32 and 33, and raise a mound of stone around post with brass cap, marked

> T41N R13W , **S**32 S33 1921

226

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Std. Par. North thru. Range
            Land, mountainous.
           Soil, rocky, 4th rate.
            No timber.
            Undergrowth, cedar, black brush and sage brush.
           1.89°59'Z., on the secant, thru. sec.33.
            Over mountainous land, thru. scattering undergrowth. .
           Ascend 10 ft. over N.slope.
           Low spur, slopes N.10°E. Descend 110 ft.to , Spur, slopes N.45°E. Desc.175 ft., to
  9.20
24.90
40.00 South, 3 lks.from the secant, set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, with marked stone, for standard a sec.cor. of sec.33, and raise a mound of stone around post, with brass cap, marked
                                                        ຸຮັບ
                                                        <u>-8 33</u>
                                                        1921
Descend 172 ft.

57.40 Gulch, course N.30°E. Ascend 100 ft.

60.50 Point of spur, sloping N.30°E. Desc. 150 ft.

77.30 Draw, course N. 45°E. Ascend 25., to as 3 H.; as course 15
                 ft., over NW. slope, to
80.00 South 3 lks.from the secant,
Set an iron post, 3 ft.long, 3 ins. in diam., on bed rock,
with marked stone, for standard cor. of secs. 33 and 34,
and raise a mound of stone around post, with brass cap
                 marked
                                                     T411 R13W
                                                      S33 S34
                                                        1921
            Land, mountainous.
            Soil, rocky, 4th rate.
            No timber.
            Undergrowth, black brush and cactus.
            East, on the secant, thru. sec. 34.
7.47 Sour, slopes N. Descend 95 ft., over E.slope.
17.40 Narrow gulch, course N.30°E. Ascend 60 ft., over NW.slope.
21.90 Point of spur, slopes N. Desc. 50 ft., over NE.slope, to Slope to Slope to slope to
 slope, to

40.00 South 3 lks. from the secant,
Set an iron post, 3 ft.long, 1 in. in diam., 18 ins.in
the ground, with marked stone, for standard 2 sec.cor.,
of sec.34, and raise a mound of stone around post, with
                  brass cap, marked
                                                         ₹$ 34
                                                          1921
 Descend 45 ft.

43.90 Head of draw, course N. Ascend 20 ft.

49.10 W. rim of canyon, brs. N. and S. Desc. 200 ft.

78.10 Box canyon, course N. 10 E. Asc. 90 ft. to
 80.00 South 2 lks.from the secant, at L. rim of canyon, bearing
                  N.10°E. and S.10°W.
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Set an iron post, 3 ft.long, 3 ins. in diam. on bed rock.

Standard Par. North, thru. Lange 13 West.

with marked stone, for standard cor. of secs. 34 and 35, and raise a mound of stone around post, with brass

T41 N | R13 W 834 835

1921,

Land, mountainous. Soil, rocky, 4th rate. No timber.

cap, marked

black brush and greasewood. Undergrowth.

S.89° 59'E., on the sec nt, thru. sec.35. Over mountainous land, thru. scattering undergrowth. Across nearly level top of point of short spur, sloping

. 1.92 W. rim of Black Rock canyon, brs. N. and S. Leave top of spur, and descend 270 ft., over W. wall of canyon. Chaining is impractizable; therefore, triangulate as described as follows, and as shown on the diagram hereon:

Leave flag at this point on secant.

From a point ahead on secant at E. rim of canyon, measure a Base, N. 0°1'L., 1.47 chs., which is as long a base as can be chained with accuracy. From N. end of base, flag brs. S. 84°18'W.

Included angles are 84°17', 90°00' and 5°43', the sum of which is 180°00'.

Triangulated dist. on secant is obtained by Tang. 84°17' x Base, or 9.98931 x 1.47 = 14.08 chs., which added to 1.92 chs. gives 10.60 chs. S.89°59'E., for the position of the triangulation point on secant. 9.50 (Approximate) Bottom of Black Rock canyon, course N. Asc.

250 ft., over E. wall of canyon. Triangulation pt. on E. rim of canyon, bearing N. and S. 16.60 Continue line and measurement, by chaining. Ascend of ft., over gradual N. 75° W. slope, to Descend 12 ft. to

Draw, course N.15°W. Ascend 10 ft.to

South 1 lk.from the secant, Set an iron post, 3 ft.long, 1 in in diam on bed rock with marked stone; for standard sec. cor. of sec. 35, 11. shdaraise, aamoundiof stone around post, with brass ith capa marked samed

SAC <u></u>\$\$ 35

1921

Ascend 185 ft., over W. slope. ol.80 Ridge, brs. N. and S. Descend 110 ft., over E. slope. 71.65 Box gulch, course N. At 15 lks. S. in this gulch is the mouth of a gulch, course W. Asc. 35 ft. to sec. cor., over SW. slope, along N. side of gulch.

30.00 Set an iron post, 3 ft.long, 3 ins.in diam., 4 ins.in the ground, with marked stone for standard cor. of secs. 35 and 36, and raise a mound of stone around post, with brass cap, marked

T41N R13W 835 S30

Oth Standard Parallel North thru Range 10 West. Chains Land, rough, mountainous. Soil, lava rock and light loam, 3rd rate. No timber. Undergrowth, black brush and cactus. S.89°58'E., on the secant, S. of sec. 30. Over mountainous land, thru. scattering undergrowth. Ascend 435 ft., over SW. slope, to # sec. cor.
Road brs. S. to Black Rock Springs, Arizona, and N. to Bloomington and St. George, Utah. 40.00 North, 2 lks.from the secant, Set an iron post, 3 ft.long, 1 in. in diam., 20 ins. in the ground, for standard + sec.cor. of sec.30 marked on brass cap. s c , 2s 36 1921 and raise a mound of stone, 2 ft.base, 12 ft. high, n. of cor.

Ascend 100 ft., over SW. slope.

45.00 Ridge, brs. N. 30°W.from S. 75°E. Thence along broken N. slope of this ridge. Ascending gradually to

Head of draw, course N. 55°W. Continue along N. slope of Head of draw, course N.55°W. Continue along N.slope of ridge, ascending 130 ft.to
80.00 North, 4 lks.from the secant, at SW. edge of wash, course Set an iron post, 3 ft.long, 3 ins. in diam., 10 ins.in the ground, with marked stone, for standard cor. of 41 N., Rs. 12 and 13 W., and raise a mound of stone around post, with brass cap, marked T41 N R13W|R12W. S36 S31 1921 Land, mountainous. Soil, light loam, with lava rocks, and gravel, 3rd rate. No timber. Undergrowth, black brush and cactus.

Chains.

From the standard cor. of Ts. 41 North, Ranges 12 and 13 West, on 10th Standard Parallel North, hereinbefore described,

North, on true line, bet. secs. 31 and 30. Over mountainous land, thru. scattering undergrowth. Across bottom of wash, course NV.

Leave bottom of wash. Descend 600 ft., over NW. slope, to 0.30

37.65 Wash, course N.45°W. Asc. 25 ft., over SW.slope, to 40.00 Set an iron post, 3 ft. long, 1 in. in diam., on bed rock with marked stone for 4 sec.cor., and raise a mound of stone around post, with brass cap, marked

S30 S31

Ascend of ft., over SW. slope.

Ascend of ft., over SW. slope.

49.00 Spur, slopes NW. Descend 250 ft., over N. slope.

Short gulch, course W. near mouth of same. Ascend 50 ft.

O4.00 Point of short spur, slopes W. Descend 135 ft.

Gulch, course N.15°E. Asc. 75 ft., over Sh. slope, to

Spur, sloping NE. Set an iron post, 3 ft.long, 3 ins.in

diam., 8 ins.in the ground, with marked stone, for corof secs. 25, 30, 31 and 30; and raise a mound of stone

around post, with brass cap, marked

T4111 R13W R12W S25 S30 830 831 1921

Land, mountainous. Soil, lava rock and gravelly, light loam, 3rd rate. No timber. Undergrowth, black brush.

North, on true line, bet. secs.25 and 30.

Over rolling land, thru. scattering undergrowth.

Second 145 ft., over NW. slope of spur, to

Thence over W. slope from spur, with very little change in

elevation to

40.00 Set an iron post 3 ft.long, 1 in. in diam., 20 ins. in the ground, for 1/2 sec.cor., marked on brass cap,

325 350 3921

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

Ascend 70 ft., over SW.slope of same spur. 54.80 Top of same spur, slopes N.75°W. Descend 120 ft., over N.

slope, to

Gulch, course A. Asc. 140 ft., over broken SW.slope, to Top of spur, sloping SE. Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 19,24, 25 and 50, marked on brass cap,

T41N R13W R12W S24 S19 S25 S30 1921

and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor.

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Last boundary of Township 41 North, Range 13 West.
Chains.
           Land, rolling and broken.
           Soil, gravel and light loam, rocky 3rd rate.
           No timber.
           Undergrowth, black brush and shellac brush.
           North, on true line, bet. secs. 19 and 24.
 Over rolling land; thru. scattering undergrowth. Descend 105 ft., over NE. slope.

23.20 Gulch, course N.60°E. Ascend 10 ft.
  27.30 Descend 35 ft., over rolling NE. slape, to 2 sec.cor. 37.50 Road brs. W. to Black Rock Spring, Arizona, and N. 75°E. to
  Bloomington and St. George, Utah.
40.00 Set an iron post, 3 ft.long, 1 in. in diam., on bed rock, with marked stone, for $\frac{1}{2}$ sec.cor., and raise a mound
                of stone around post, with brass cap, marked
                                               S24[S19
  Descend 120 fts, over rolling NE. slope.

75.00 Draw, course N.30°E. Asc. 15 ft. to

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins.

in the ground, for cor. of secs. 13,18,19 and 24,
                marked on brass cap,
                                                  T41N
                                               R13W R12W
                                                S13 | S18
                                                324 319
                                                  1921
                and raise a mound of stone, 2 ft. base, 12 ft. high, W.
                of cor.
           Land, rolling.
Soil, light loam, rocky, 3rd rate.
           No timber.
           Undergrowth, shellac brush and black brush.
             North, on true line, bet. secs.13 and 18.
           Over rolling and hilly land, thru. scattering undergrowth.
           Descend 25 ft.
  7.00 Ascend 100 ft. 11.00 Descend 80 ft.
  22.60 Ascend 30 ft.
  27.00 Descend o0 ft.
  Draw, course N. 75°L. Ascend 100 ft.to

40.00 Set an iron post, 3 ft.long, 1 in. in diam., 12 ins. in
the ground, with marked stone, for \( \frac{1}{2} \) sec.cor., and raise
a mound of stone around post, with brass cap, marked
  Ascend slightly to
Top of hill, brs. L. and W.
Descend 50 ft.
Ascend 25 ft.
  53.50 Descend 120 ft.
63.20 Draw, course N.15°E. Ascend 15 ft.
  70.00 Descend 10 ft.
 75.80 Draw, course N.75°E. Ascend 10 ft.
80.00 Set an iron post, 3 ft.long, 3 ins.in diam., 24 ins.in the ground, for cor. of secs. 7, 12, 13 and 18, marked on
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East boundary of Township 41 North, Range 13
                                                 West.
Chains.
          brass cap,
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14**T41N**R13W|R12W
S12|S 7 S13 S18 1921

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

Land, rolling and hilly.

Soil, gravel and light loam, rocky, 3rd rate.

Undergrowth, shellac brush and black brush.

North, on a true line, bet. secs.7 and 12. Over rolling and hilly land, thru. scattering undergrowth. Descend 75 ft., over NE.slope. Ascend 20 ft.

Wash, course E.

13.00 22.50 27.50 40.00

80.00

Descend 30 ft.
Ascend 55 ft.to

Set an iron post, 3 ft.long, 1 in. in diam., 20 ins. in the ground, for \(\frac{1}{4} \) sec.cor., marked on brass cap,

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

Ascend of ft.
Top of ascent, brs. E and W. Apex of round hill, brs.
West 8 chs.dist. Descend 100 ft. over NE. slope, near 50.00 foot of same.

On W. side of wash, course N. Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 1,0,7 and 12, marked on brass cap,

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

Land, rolling.

Soil, gravel, 3rd rate.

No timber.

Undergrowth, black brush and shellac brush.

North, on true line, bet. secs.l and 6. Over rolling land, thru. scattering undergrowth. Cross wash, mourse N., and descend 60 ft. along E. side of same.

39.60 40.00 Dim road, brs.N. 75° E., and S.75°W.

Set an iron post, 3 ft.long, 1 in. in diam., 26 ins.in the ground, for ½ sec.cor., marked with brass cap,

East boundary of Township 41 North, Hange 13 Wast. Chains. S 1 | S 6 1921 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. Same wash, course NE. Ascend 45 ft. Descend 25 ft. 44.60 65.00 71.50 80.00 wash, course NE. Ascend 15 ft., over E. slope, to set an iron post, 3 ft.long, 3 ins. in diam., on bedrock, with marked stone, for cor. of Ts. 41 N., as. 12 and 13 W., and fracl. Ts. 42 N., Rs. 12 and 13 W.; and raise a mound of stone around post, with brass cap, marked T42N R13W R12W 836 831 S 1 S, 6 Land, rolling. Soil, gravelly, 3rd rate. No timber. Undergrowth, black brush and shellac brush.

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Survey of North boundary of Township 41 North, Range 13 West. 17
Chains.
                From the cor. of Ts. 41 N., Rs. 12 and 13 W., and fracl. Ts. 42 N., R. 12 and 12 W., hereinbefore described,
                West, on random line, setting temp. 2 sec. and sec.cors. at intervals of 40.00 chs.
               Set temp.cor.of secs. 3 and 4, and fract. secs. 33 and 34. Discontinue chaining at this point. The line W. of this
 240.00
 240.73
                       point passes over a deep gulch, course N., the sides
                      of which are very steep and broken and beyond the gulch are steep cliffs. The line then passes over the Virgin River Canyon. Chain measurement between the 240.73
                       ch. station, and a point on random line on right or N. rim of Virgin River canyon being impracticable, make
                       a series of triangulations to obtain measurement of this
                       interval, as described as follows, and as shown on the
                       diagram hereon:
                 From 240.73 ch. station on random Tp., bdy. indicated on diagram at "A," measure a Base, South, 30.28 chs. to point
                         3,"
                Set flag ahead on random Tp. bdy. at "C," at point of spur, at left or S. rim of Virgin River Canyon.

Bearing from "B" to "C," = N.48°00'W.
                 Included angles of triangle "ABC" are 90°00', 48°06' and
                 41°54', the sum of which is 180°00'.

Vertical angle from "A" to "C" is + 2°.

Triangulated dist. on random Tp. bdy. from "A" to "C" is
                       obtained by
                 Tang. 48°00'x Base "A B" or 1.11452 x 36.28 = 40.44 chs., which added to 240.73 chs. gives 281.17 chs.W.from Tp. cor. for the position of flag point "C."

From point "C," chain measurement 1.17 chs. East to
                Set temp. sec. cor. of sec. 4 and fracl. sec. 33.
  280.00
                 Plag point of triangle "ABC".
  281.17
                 From point ahead on random Tp; bdy. indicated on diagram at "D," measure a Base, South 12.58 chs. to point "E." Bearing from "E" to "C" = N.71°50'E.
                 Included angles of triangle "CDE" are 18°04', 90°00' and 71°50', the sum of which is 180°00'.

Vertical angle from "C" to "D" is 222.°.
                 Triangulated dist. on random Tp. bdy. from "C" to "D" is
                obtained by Tang. 71°50'x Base "DE" or 3.06554 x 12.58=38.56chs. which added to 281.17 chs. gives 319.73 chs.W. from Tp. cor. for the position of triangulation point
                       "D. "
  Triangulation point "D" of triangle "CDE".
Chain measurement, West, 0.27 chs. to
320.00 Set temp.cor.of secs, 4 and 5, and fracl, secs. 32 and 33.
                 Set flag ahead on random Tp. bdy. at point "F," From S. end of base "DE", flag brs. N. 75°13'W. Included angles of triangle "DEF" are 90°00; 75°13' and
                Included angles of triangle "DEF" are 90°00; 75°13' and 14°47', the sum of which is 180°00'.

Vertical angle from "D" to "F" is + 20°.

Triangulated distance on random Tp. bdy.from "D" to "F" is obtained by Tang. 75°13' x Base "DE" or 3.78931 x 12.58 = 47.67 chs., which added to 319.73 chs.gives 307.40 chs.W.from Tp. cor.for the position of flag point "F."

Point for $\frac{1}{2}$ sec.cor. of sec.5, and fract.sec.32 falls on
360.00
```

North boundary of Township 41 North, Range 13 West

Chains.

367:40

M. face of cliff and is inaccessible. Flag point "F" of triangle "DBF" Set temp.witness cor.to sec.cor. of sec.5, and fracl.sec.32 at this point.

Continue line and measurement, by chaining. Set temp, cor. of secs. 5 and o, and fracl. secs. 31 and 32.

400.00 432.44 Traverse point. 434.50

Discontinue chaining on random Tp. bdy. at this point. Set temp.witness cor. to $\frac{1}{4}$ sec. cor. of sec. o, and fracl. sec. 31 here, and obtain the measurement of the remain der of the random Tp, bdy. by traverse thru. fracl. sec. 31, as described as follows, and as shown on the dia-This process is necessary for the gram hefeon. reason that the remainder of the random Tp.bdy.passes over steep, high cliffs facing SW. The traverse follows the rim of these cliffs.

"E" cor. of Ts.41N.Rs13414W.

From 432,44 ch. station on random Tp. bdy., designated on diagram at "A, flag set at 42 lks.N. of the cor. of Ts. 41 N., Rs. 13 and 14 W., and fracl. Ts. 42 N., Rs.13 and 14 W., bears west.

The falling of the random Tp. bdy. is therefore 42 lks. N. of said Tp.cor. and gives a true bearing for the Tp. bdy. of N. 89 57'E.

From "A"

 $N.77\frac{1}{2}$ °W.; 3.90 chs. to "3." Thence, N.45°W., 13.52 chs. to "C:"

Thence, N.60°W., 116.51 chs., to "D"

Thence,
N.68°W.,21.19 chs. to point "E," from which the
flag "F" 42 lks.N.of Tp. cor., bears South. Point "E" of traverse is therefore on the range line bet. fracl. Ts. 42 N., Rs. 13 and 14 W., and the dist. from same to Tp. cor. is obtained by Northing of traverse (E-F) + 42 lks. or 26.59 chs. + 0.42 chs. = 27.01

chs. The Westing of traverse "A-F" is computed to be 47.32 chs., which added to 432.44 chs. gives 479.76 chs. as the total length of the Tp. bdy. The true course and length of Tp. bdy. are therefore N.

89°57'E., 479.70 chs.

From cor. of Ts. 41 N., Rs. 13 and 14 W., and fracl. Ts: 42 N., Rs. 13 and 14 W., described in Book "F," N.89°57'2., on true line, bet. sec.6 and fracl.sec.31. Over mountainous land, thru. scattering undergrowth. Ascend about 1200 ft., over SW.face of cliffs. Measurement of 47.32 chs. by traverse hereinbefore described.

39.76 45.26

Point for \$\frac{1}{4}\$ sec.cor. is inaccessible.

Rim of cliffs, brs. NW. and SE. Set an iron post, 3 ft.

long, 1 in. in diam., on bed rock, with marked stone,

for witness cor. to \$\frac{1}{4}\$ sec.cor., and raise a mound of

stone around post, with brass cap, marked

 $WC_{\frac{1}{4}} \stackrel{S}{=} \frac{31}{6}$ 1921

Descend 200 ft., over rolling and broken top of mesa. Traverse point. Set an iron post, 3 ft.long, 3 ins. in diam, 5 ins.in

47.32 79.76

North boundary of Township 41 North, Range 13 West. Chains. the ground, on bed rock, with marked stone, for cor. of secs. 5 & 6 and, frac. secs. 318-32, and raise a mound of stone around post, with brass cap, marked T42N R13W S31 S32 S 6 S 5 **T41**N 1921. Land, mountainous and rolling. Soil, rocky, 4th rate W.half; E.half, gravel, 3rd rate. No timber. Undergrowth, black, brush. N.89°57(E., on a true line, bet. sec. 5 and fraces 232. Over mountainous land, thru. scattering undergrowth. Descend 35 ft.

Draw, course S. 45°E. Ascend 155 ft. to

Point of spur, sloping SE, and right rim of Virgin river canyon, bearing NE, and SW.

Set an iron post, 3 ft.long, 1 in. in diam., on bed rock, with marked stone, for witness cor. to a sec. cor., and raise a mound of stone around post. With brass cap. 10.30 32.00 raise a mound of stone around post, with brass cap, Descend 1535 ft. over cliffs, facing SE, on right or N. wall of Virgin River Canyon by triangulated measurement of 47.67 chss. to 80.27 ch. station, from which chain measurement 0.27 chs., S.89°57'W. to
On bench, brs.N. and S., Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 80.00 4 and 5 and frad secs 32 and 33, marked on brass cap, T42N R13W S32 S33. cs5ls4T41N 1921 and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high, W of cor. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, black brush. N. 89°57' N., on true line, beto sec. 4 and frac. sec. 33. Over mountainous land, thru. scattering undergrowth. Chain measurement to Triangulation point at L. side of bench, bearing N. and S. 0.27 Continue measurement by triangulation of 38.56 chs. to 38.83 ch. station.

Descend 925 ft., over steep 1. slope of right or N. wall of Virgin River canyon. (Approximate) Right bank of Virgin River, brs. N.30°E. 12.50 and S.30°W. Thence across Virgin River, course S.30°W. in bottom of canyon.

(Approximate) Left bank of river, brs.N.30°E. and S.30°W. Leave bottom of canyon. Asc. 1965 ft., over NW.slope, to 14.50 38.83 Triangulation point, on top of short, sharp, steep spur,

sloping N. at left or S. rim of Virgin river canyon.

```
boundary of Township
Chains.
           Descend 64 ft. over NE.slope to 2 sec.cor.

Set an iron post, 3 ft.long, 1 in. in diam., on bed rock, rock, with marked stone, for 2 sec.cor., and raise a
 40.00
                 mound of stone around post, with brass cap, marked
                                                  1921
            Discontinue chaining. Triangulate measurement of 40.44 chs. from 38.63 ch. station to 79.27 ch. station, as hereinbefore described; and from 79.27 ch. station chain back 4.67 chs. to E. rim of gulch, at 74.00 ch.
                 station.
            Descend ood ft. from * sec.cor. to (Approximate) Bottom of gulch, course N. Ascend 035 ft. to L. Fimlof-gulch; brs. WrandtStThencecatong N. slope. Chain measurement to sec.cor.
 02.50
 74.00
 79.27
             Triangulation point.
            Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins.in the ground, for cor. of secs. 3 and 4 and fractions 33 and 34,
                 markedoop brass cap
                                               T42N R13W
S33 S34
                                                s 41s 3
                                                  T41N
                                                  1921
                 and raise a mound of stone, 2 ft. base, 12 ft. high, W.
                 of cor.
            Land, mountainous.
            Soil, rocky, 4th rate.
            No timber.
            Undergrowth, shellac brush and black brush.
            N. 89°57 E., on a true line, bet sec. 3 and frac sec. 34.
            Over mou tainous land, thru. scattering undergrowth.
            Descend 60 ft.
           Draw, course N.30°W. Ascend 55 ft.
Ridge, brs.N. and S. Desc. 95 ft.to
Set an iron post, 3 ft.long, 1 in. in diam., on bed rock,
with marked stone, for 2 sec.cor., and raise a mound
of stone around post, with brass cap, marked
12.70
27.00
40.00
            Descend 03 ft.to
43,50
47.50
54.00
           Gulch, course N. 00°E. Desc. over N. slope, to
           Same gulch, course S.45°E. Ascend 50 ft. Descend 35 ft.
           Draw, course S.30°E. Asc. 35 ft.
Ridge, brs. NW. and E. Short spur, slopes S.from ridge
at this point. Continue along top of ridge, descending
50.20
61.00
                slightly to
           Leave top. of riage, brs. SE. and W. Desc. 45 ft., over NE.
76.00
                slope, to
           Setuan iron post 3 ft.long, 3 ins. in diam., on bed rock,
80.00.
                with marked stone, for cor. of secs 2 and 3 and frac secs 34
                and 35 and vaise amound of stone around post, intarked on bross cap,
                                              T42N R13W
                                                S'3 S 2
                                                 T41N
           Land, mountainous.
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```
North boundary of Township 41 North, Range 13 West.
Chains.
           Undergrowth, shellac brush and black brush.
           Soil, gravelly and rocky, 3rd rate.
           No timber.
           N.39°57'E., on a true line, bet sec. 2 and frac. sec. 35.
Over mountainous land, thru. scattering undergrowth.
           Descend 5 ft. over NE. slope, to
           Head of draw, course N.15°E. Ascend 35 ft. Saddle in ridge, brs. N. and S. Descend 50 ft. Head of draw, course SE. Ascend 30 ft. Descend 155 ft.
  1.40
  4.00
10.50
15.55
24.20
           Draw, course SE.
                                        Asc. 55 ft.
           Spur, extends 10 chs. S. 00°E. Descend 90 ft. to
Set an iron post, 3 ft. long, 1 in. in diam., on bed rock,
with marked stone, for a sec.cor., and raise a mound
of stone around post, with brass cap, marked
31.80
40.00
                                                1921
           Descend 95 ft.
Center of draw, 4 chs.wide, course S. Asc. 55 ft.
Short spur, slopes S. Desc. 30 ft.
Gulch, course SW. Ascend 75 ft.
Descend 25 ft.in saddle of ridge, bearing NW. and SE.
 50.00
 57.40
60.00
 71.50
80.00
            Set an iron post, 3 ft.long, 3 ins. in diam. 24 ins.in the ground, for cor.of secs.land Z and fracisecs. 35 and 36,
                marked on brass cap,
                                              T42N R13W
S35 S36
S 2 S 1,
                                                 T41N
                                                 1921
                 and raise a mound of stone, 2 ft. base, la ft. high,
                 W. of cor. This cor. is in saddle of ridge, bearing IW.
                 and SE.
            Land, mountainous.
            Soil, gravelly and rocky, 3rd rate.
            No timber.
           Undergrowth, shellac brash and black brush.
                       endo om divido. Dan H.l
            N. 89°57'E., on a true line, bet secoland fracisec 36.
            Over rolling land, thru. scattering undergrowth.
            Descend of ft. from saddle in ridge. Draw, course N.45°E. Ascend 35 ft.
 21.25
            Descend 115ft. to

Set an iron post, 3 ft.long, 1 in. in diam., o ins. in the ground, with marked stone, for psec.cor., and raise a mound of stone around post, with brass cap,
 23.00
 40.00
                 marked
                                                 1921
             Descend slightly to
            Gulch, course N. 00°E. Ascend 10 ft.
 40.20
 43.00
48.05
            Descend 55 ft.
             Gulch, course N.30° A.
                                               Ascend 45 ft.
 52.00
80.00
            Descend 100 ft. to
             The cor. of Ts. 41 N., Rs. 12 and 13 W., and fracl. Ts. 42 N.,
              VRs.12 and 13 W., hereinbefore described.
            Land, rolling.
```

Soil, gravelly and rocky, 3rd rate.

North boundary of Township 41 North, Range 13 West.

No timber., and a Undergrowth, shellac brush and black brush.

Boundaries of Township 41 North, Range 13 West.
Latitudes, departures, and closing errors.

Line des	ignated. True		Dist.	Latitudes.		Departures.	
• • • • • • • • • • • • • • • • • • • •	٠,	bearing.	,	N.	S.	B .	W.
South bo	undary, d.Par.N.)	West,	480.00	ţ			480.00
West bou	ndary,	North,	4 89. 00	480.00			
North bo	un dary,	N.89°57'E.	479.76	• 42	•	479•70	
dast bou	ndary,	South,	480.00	å	480.00	•	
Converge	ncy, .	Service a	r	ţ	· ·	• 55	n.
Totals,			ja.	480.42	480.0 0	480.31	480.0
				480.00		480.00	
grror in latitude. 0.42 grror in departure.					0.31		

```
Survey of Subdivision of Township 41 North, Range 13 West.
Chains.
             From the standard cor. of secs. 35 and 30, on the S.bdy. of the Tp. (10th Std. Parallel North), hereinbefore de-
                   scribed,
             N.0°1'W., bet. secs.35 and 30.
Over mountainous land, thru. scattering undergrowth.
             Ascend o0 ft.
             Descend 50 ft.
Ascend 30 ft.
Descend 70 ft.
17.00
23.00
27.50
35.00
             Ascend 10 ft.to
             Set an iron post, 3 ft. long, 1 in. in diam., on bed rock with marked stone, for ½ sec.cor., and raise a mound of stone around post, with brass cap, marked
 40.00
                                                     835 836
             Descend 105 ft.
             Shallow draw, course N.45°W. Ascend 30 ft.to
Set an iron post, 3 ft.long, 2 ins. in diam., on bedrock,
with marked stone, for cor. of secs.25,20, 35 and 30,
and raise a mound of stone around post, with brass cap
 65.00
 80.00
                   marked
                                                    T41N R13W.

$20 $25

$35 $30
                                                        1921
             Land, mountainous.
             Soil, rocky, 3rd rate.
             No timber.
             Undergrowth, black brush and shellac brush.
             East, on a random line, bet. secs. 25 and 36.
             Set temp. 4 sec.cor.
 40.00
80.04
             Fall 5 lks.S. of the cor: of secs. 25,30, 31 and 36, on the E. bdy. of Tp., hereinbefore described.
             Thence,
S.89°58'W., on a true line, bet. secs. 25 and 36.
Over nearly level land, thru. scattering undergrowth.
Set an iron post, 3 ft.long, 1 in. in diam., 27 ins.in
the ground, for ‡ sec.cor., marked on brass cap,
 40.02
                   and raise a mound of stone, 2 ft. base, 12 ft. high, N.
                   of cor.
             Ascend over rolling land.
42.50
45.50
48.00
             Descend 30 ft.
             Ascend 25 ft.
             Road brs. N.15°E. to Bloomington, and St. George, Utah, and S.15°W. to Black Rock Springs, Arizona.

Descend 20 ft.
 59.30
54.00
             Draw, course'N.15°E. Asc. 90 ft. Low ridge, brs. N. and S. Desc. 25 ft. to The cor. of secs. 25, 20, 35 and 30. Land, nearly level and rolling.
73.00
             Soil, rocky and gravelly, 3rd rate.
             No timber.
             Undergrowth, black brush and shellac brush.
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Subdivision of Township 41 North, Range 13 West.
Chains.
          N.0°1'W., bet. secs. 25 and 20.
          Over rolling land, thru. scattering undergrowth.
         Descend 30 ft.
Head of draw, course W. Ascend 35 ft.
Low ridge, brs. NW and SE. Descend 90 ft.
12.00
22.00
32.50.
37.80
          Head of draw, course NE. Ascend 15 ft.
          Descend 20 ft., to
         Set an iron post, 3 ft.long, 1 in. in diam., 27 ins. in the ground, for \frac{1}{4} sec.cor., marked on brass cap,
40.00
                                        , $20 $25
               and raise a mound of stone, 2 ft.base, 12 ft. high, W
               of cor.
         Descend slightly to Head of draw, course E. Ascend of ft. Descend 80 ft.
41.20
53.00
75.10
          Draw, course W. Ascend 30 ft.to
Set an iron post, 3 ft.long, 2 ins.in diam., 20 ins.in the
86.00
               ground, for cor. of secs. 23, 24,25 and 20, marked on
               brass cap,
                                          T41N R13W
                                           S23 S24
                                           S20 S25
                                            1921
               and raise a mound of stone, 2 ft.base, 12 ft. W.of cor
          Land, rolling
          Soil, gravelly and rocky, 3rd rate.
          No timber.
          Undergrowth, shellac brush and black brush.
         N.89°58'E., on a random line, bet. secs.24 and 25. Set temp: sec.cor. Fall 2 lks.N. of the cor. of secs.19, 24, 25 and 30, on E.
40.00
79.98
              bdy. of Tp., hereinbefore described.
          Thence,
          S.89°59'W., on a true line, bet. secs.24 and 25.
          Over rolling and mountainous land, thru. scattering under-
               growth.
          Descend 100 ft., over SW.slope.
Draw, course S. Ascend 85 ft., over E.slope.
Road, brs.N. to St.George, Utah and S. to Black Rock
 8.00
12.00
          Springs, Ariz.
Spur, slopes SE. Desc. 40 ft.
23.30
38.00
          Draw, course SE. Ascend 30 ft., to
Set an iron post, 3 ft.long, 1 in. in diam., 10 ins. in
the ground, with marked stone, for \( \frac{1}{4} \) sec.cor., and
raise a mound of stone around post, marked on brass
39.99
                                            S 25
                                            192Í
          Ascend 95 ft.to
Spur, slopes SE. Desc. 35 ft.
Draw, course SE. Asc. 75 ft.
47.50
51.10
          Descend 10 ft.
60.25
75.00
          Head of draw, course NE. Ascend 15 ft. to The cor. of secs. 23, 24, 25 and 20.
79.98
          Land, rolling and mountainous.
           Soil, rocky, 4th rate.
           No timber.
           Undergrowth, shellac brush and black brush.
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Subdivision of Township 41 North, Range 13 West.
         N.0°1'W., bet. secs. 23 and 24.
         Over rolling and mountainous land, thru. scattering under
              growth.
         Ascend 10 ft.
         Ridge, brs. NW. and SE. Desc. 35 ft.
 5.00
 9.00
          Thence along H. slope.
         Draw, course 2. Ascend 45 ft.
17.20
          Descend 70 ft...
27.00
         Draw, course E. Ascend 50 ft.
Set an iron post, 3 ft.long, 1 in. in diam., 6 ins. in
35.00
40.00
              the ground, with marked stone, for 2 sec.cor., and raise a mound of stone around post, with brass cap,
             marked
                                         323 S24
                                          1921
          Ascend 140 ft.
          Apex of round hill, brs. West 1 ch. dist.
51.00
63.00
          Draw, course N.85°E. Asc. 55 ft., over SE. slope.
         Descend 50 ft. to

Head of shallow draw, course N.75°E. Set an iron post,

3 ft.long, 2 ins. in diam., 24 ins. in the ground, for
cor. of secs. 13, 14, 23 and 24, marked on brass cap,
70.00
80.00
                                       T41N = 13W
S14 S13
                                         S23 S24
                                          1921
              and raise a mound of stone, 2 ft. base, 12 ft. high, W.
              of cor.
          Land, rolling and mountainous.
          Soil, gravelly and rocky, 3rd rate.
          Undergrowth, black brush, and shellac brush.
          N.89°59' E., on a random line, bet. secs.13 and 24.
          Set temp. 4 sec. cor.
40.00
79.98
          Fall 5 lks. N. of the cor. of secs. 13, 18, 19 and 24, on i.
              ody. of Tp., hereinbefore described.
          Thence
          N.89°59'W., on a true line, bet.secs. 13 and 24.
          Over rolling and moustainous land, thru. scattering un-
              dergrowth.
          Ascend lo5 ft.
          Ridge, brs. N. and S. Descend of ft. Draw, course N. Ascend 30 ft. Spur, slopes N. Descend 25 ft.
 9.40
17.00
20.90
          Draw, course NE. Ascend 75 ft.

Spur, slopes N.75°E. Descend 15 ft. to

Set an iron post, 3 ft.long, 1 in. in diam., 6 ins. in the

ground, with marked stone, for \( \frac{1}{2} \) sec.cor., and raise
24.20
34.00
39.99
             a mound of stone around post, with brass cap, marked
                                          1921
          Descend 10 ft.to
          Draw, course N.80°E. Asc. 240 ft.to
Spur, slopes N.75°E. Ascend 75 ft.to
The cor. of secs.13,14,23 and 24 in head of draw, course
43.50
70.00
79.98
          Land, rolling and mountainous. Soil, 3rd rate.
          No timber.
          Undergrowth, black brush.
```

Subdivision of Township 41 North, Range 13 West.

Chains.

80.00

N.0° 1'W., bet. secs. 13 and 14.

Swer rolling land, thru. scattering undergrowth. Ascend 15 ft.

•5•50 19•70 29•00

Spur, slopes N. 00°E. Desc. 130 ft.
Gulch, course N. 75°E. Asc. 40 ft.
Low spur, slopes N. 75°E. Desc. 20 ft. to
Set an iron post, 3 ft.long, 1 in.in diam., 20 ins. in the
ground, for ½ sec.cor., marked on brass cap, 40.00

> S14[S13 1921

and raise a mound of stone, 2 ft.base, $l_2^{\frac{1}{2}}$ ft.high, W. of cor.

Descend 35 ft.

42.50 51.20 Gulch, course N.60°1. Ascend 40 ft. Point of spur, sloping NE. Desc. 160 ft. to

W. rim of deep gulch, brs. AW. and SE. Set an irnn post, 3 ft.long, 2 ins. in diam., 8 ins. in the ground, with marked stone for witness cor. to cor. of secs. 11,12,13 77•90 and 14, and raise a mound of stone around post, with brass cap, marked

> MIC, T4111 R13W S11 S12 S14 S13 1921

Discontinue chaining at this W.C.

Descend 175 ft., over precipitous NElslope, to

The true point for.cor.of secs. 11,12,13 and 14 falls

on steep NE.slope, where it is inaccessible. Land, rolling and mountainous. Soil, rocky and gravelly, 3rd rate. No timber. Undergrowth, black brush and shellac brush.

From true, point, for cor. of secs. 11,12,13 and 14, S.89°59'E., on random line, bet. secs.12 and 13. The beginning of this sec. line passes over a wide deep gulch, with orecipitous sides, over which chaining is impracticable; therefore, triangulate a traverse thru.sec.13, as described as follows, and as shown

50°1'E. sec. 13

on the diagram hereon:

From point indicated on. diagram at "A" Which is on sec.line, bet. secs.13 and 14, S 0°1'E., 0.13 chs. from W.C. to cor. of secs. 11,12,13 and 14,, or 2.23 chs.S.O°l'E,from cor.point "E." Measure a Base, S 0°1'E.

.12.21 chs. to point "3." Set flag on top of spur A. of gulch at point "C."

Bearing "BC"= N. 07°33'E.

Bearing "AC" N. 80°48'E.

Included anyles of triangle "ABC" are 93°11', 07°34' and

19°15', the sum of which is 180°00'.

Vertical angle from "A" to "C" is + 6½°.

Triangulated dist. from "A" to "C" is obtained by $\frac{\text{sine } 67^{\circ}34^{\prime}x \text{ Base}}{700^{\circ}34^{\prime}x \text{ Base}}$ or $\frac{.92432 \times 12.21}{700^{\circ}34^{\circ}23} = 34.23 \text{ chs.}$. 32969 sine 19°15'

```
21.
chains.
          Point "F" on diagram indicates point on sec.line, bet.
          secs.15 and 14.
N.89°59'W.from flag point "C."
          Included angles of triangle "ACF" are 80^{\circ}49', 3^{\circ}13' and 89' 58', the sum of which is 180^{\circ}00'.

Length of line from "F" to "C" is obtained by

Sine 86^{\circ}49'x "AC" or 99840 \times 34.23 = 34.18 chs., which \sin 789^{\circ}58'
              is identical with distance on random sec.line from
          point for sec.cor. "E,"
s.89° 59'E. to point "D," N.0°1(W. from flag point "C."
Distance on sec.line, bet. secs. 13 and 14 from "A" to "F"
              sine 89°58' or -05011x 34.23 = 1:92 chs.
              is obtained by
          "A" to "I" being 2.23 chs., the distance from "I" to "I" identical with "C" to "D" is obtained by 2.23 chs.-
              1.92 chs.= 0.31 chs.
           Therefore from flag point."C" traverse, N. 0°1'W., 0.31 chs.
          Point "D" on random seq.line on top of spur.
34.18
          Continue line and measurement, by chaining.
40.00
80.16
          Set temp. 4 sec. cor.
          Fall 5 lks. N. of cor. of secs. 7, 12, 13 and 18, on E. bdy. of
              Tp., hereinbefore described.
           Thence,
          N.89°57'W., on true line, bet. secs. 12 and 15.
          Over mountainous land, thru. scattering undergrowth.
          Ascend 40 ft.
          Low spur, slopes NE. Descend j0 ft.
  6.00
          Head of draw, course NE. Ascend 390 ft., over NE. slope.
 14.00
          Spur, slopes N.10°W. Descend 20 ft. Head of draw, course N.15°W. Ascen
 33.65
37.15
40.08
                                                    Ascend slightly to
          Set an iron post, 3 ft.long, 1 in. in diam., 20 ins. in the ground for a sec.cor., marked on brass cap,
                                           S 13
               and raise a mound of stone, 2 ft.base, 12 ft.high, N.
           Ascend 30 ft, to
 45.98
           Spur, slopes IW.
                                  Discontinue chaining on sec.line, and
               measure to sec.cor.point by a triangulated traverse,
           thru.sec.13, as hereinbefore described. Descend 520 ft., over steep broken W.slope.
           (Approximate) Bottom of gulch, course NW. Ascend about
 74.00
               100 ft.to.
           True point for cor. of secs.11,12,13 and 14 on steep NE. slope, witnessed 2.10 chs.S.0.1'E., as hereinbefore described.
 80.16
           Eand, mountainous.
           Soil, rocky and gravelly, 3rd rate.
           No timber.
           Undergrowth, shellac brush and black brush.
           From true point for cor. of secs.11,12,13 and 14, N.0°1'W., bet. secs.11 and 12.
           Over mountainous land, thru. scattering undergrowth.
```

Descend about 150 ft., over steep N. slope, to bottom of gulch. The cor.point being inaccessible, and it being impracticable to chain measurement across deep gulch, triangu late the beginning of this line as described as follows, and as shown on the diagram hereon.

Township 41 North, Range 13 West. Subdivision of Chains. Set flag on line bet.secs.13 and 14, S. 0°1'E., 2.23 chs.from sec. cor.point. From a point on line bet. secs. 11 and 12, at E.rim of gulch, measure a Base, N. 89°59'E., 1.15 chs., which is as long a Base as it is practicable to chain. From A. end of base, flag brs. S.5°42'W. Included angles are 84°17',5°43' sec. line and 90°00!, the sum of which is 180°00!. Vertical angle from flag to triangulation point at W. end of base is - 4°. Triangulated dist. on sec. line is obtained by Tang. 84° 17'x Base or 9.98931 x 1.15 = 11.49 chs. N.0°1' W. from flag point, or 9.20 chs.N.0°1'W.from cor.of secs.11,12,13 and 14.

(Approximate) Bottom of gulch, course NW. into Black Rock canyon. Ascend 245 ft., over steep SW.slope, to 5.50 9.20 Triangulation point on A. rim of gulch, brs. NW and SE. Continue line and measurement by chaining. Ascend, o0 ft. Spur, slopes N.75°W. Desc. 140 ft., over NE. slope to \frac{1}{2} sec 20.00 COT. 26.00 Head of draw, .course NE. . Set an iron post, 3 ft.long, l in. in diam., on bed rock, with marked stone, for \(\frac{1}{2} \) sec.cor., and raise a mound of stone around post, with brass cap, marked 40.00 .S11|S12 , 1921 Descend 105 ft., over NE.slope.
Draw, course N. 75°E. Ascend 215 ft., over SE.slope.
Spur, slopes N.75°E. Desc. 305 ft., over N.slope, to
Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in
the ground, for cor. of secs. 1, 2, 11 and 12, marked on 51.00 69.00 80.00 brass'cap, T41N R13W S 2 S 1 S11 S12 1921 raise a mound of stone, 2 ft. base, l_2 ft. high, W. of cor. Land, mountainous. Soil, rocky and gravelly, 3rd rate. No timber. Undergrowth, black brush., S.39°57'E,, on a random line, bet. secs.1 and 12. 40.00 Set temp. 2 sec.cor. Fall 7 lks. S. of the cor. of secs. 1, 6, 7 and 12, on the E. bdy.of Tp., hereinbefore described. West, on a true line, bet.secs.1 and 12. Over rolling land, thru. scattering undergrowth, Asc. 35 ft. - 5.50 31.80 Spur, slopes N. Desc. 100 ft. Wash, 6 lks.wide, course N.15°W. Asc.gradually over N. slope. 40.04 Set an iron post, 3 ft.long, 1 in. in diam., 20 ins.in the ground, for \$\frac{1}{2}\$ sec.cor., marked on brass cap.

23

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and raise a mound of stone, 2 ft. base, 12 ft. high, N.
                of cor. Continue over N. slope, with little change in
                elevation.
           Wash, 6 1ks.wide, course N.10°W. Wash, 7 1ks.wide, course N. Ascend 30 ft.to The cor.of secs. 1, 2, 11 and 12.
41.10
60.50.
80.08
           Land, rolling.
           Soil, sandy and gravelly, ord rate.
           No timber.
           Undergrowth, black brush and shellac brush.
          N.0°1' W., on a random line, bet. secs.l and 2. Set temp. 4 sec.cor. Fall 19 lks.W. of the cor.of secs.l, and 2 and fracil secs. 35 and 36 on N. bdy. of Tp., hereinbefore described.
40.00
80.13.
           Thence,
           S.0°7'W., on a true line, bet. secs. 1 and 2.
           Over mountainous land, thru. scattering undergrowth.
           Descend 130 ft., over SW. slope.
           Draw, course W. Ascend 130 ft.

Spur, slopes W. Desc. 185 ft. to

Set an iron post, 3 ft.long, 1 in. in diam., on bed rock,

with marked stone, for 1 sec.cor., and raise a mound

of stone around post, with brass cap, marked
23.00
30.25
40.13
           Leave mountainous and enter rolling land.
           Descend 85 ft.
           Wash, 7 lks.wide, course W. Asc. 45 ft.to
64.15
80.13
           The cor. of secs. 1,2,11 and 12.
           Land, mountainous and rolling.
           Soil, rocky and gravelly, 4th rate.
           No timber.
           Undergrowth, shellac brush and black brush.
           From the standard cor. of secs. 34 and 35, on the S. bdy. of Tp. (10th Std.Par.), here inbefore described, N. 0°1'W., bet. secs. 34 and 35.

Over mountainous land, thru. scattering undergrowth.
           Descend 195 ft., over MW. slope.
           Bottom of side canjon from S., course NE.into Black Rock
 7.35
           Canyon. Asc. o7 ft.over SE.slope. Descend 40 ft.
18.55
28.55
30.85
           Ascend 15 ft.
Descend 50 ft.
Ascend 95 ft. to
34.65
           Set an iron post, 3 ft.long, 1 in. in diam., 5 ins. in the ground, with marked stone, for 4 sec.cor., and raise a mound of stone ground post, with brass cap,
40.00
                marked .
                                               S34 |S35
                                                1921
           Ascend 15 ft.
Point & spur, slopes NE. into Black Rock Canyon. Descend grad-
```

41.50

to

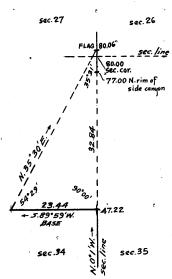
ually

Subdivision of Township 41 North, Range 13 West.

chains. 47.22

BOOK 3524

S. rim of side canyon, brs. E. and W., joins W. rim of Black Bock canyon, about 5 chs. E. of line. Descend about 500 ft. to bottom of side canyon. Chaining is impracticable on the remainder of this sec.
line; therefore, triangulate as described as follows,
and as shown on the diagram hereon:



From 47.22 ch. station, measure a Base S.89°59!W.,23.44 chs. Set flag ahead on sec. line, beyond W. rim of side canyon. From W. end of Base, flag brs. N. 35°30 1 E。

Included angles are 54°29',35°31' and 90°00!, the sum of which is 180°00'.

Triangulated dist. on sec.line is obtained by

Tang. 54°29'x Base or 1.40109x
23.44 = 32.84 chs., which added
to 47.22 chs. gives 80.06.
chs., N. 0°1'W. from std. cor. of secs.34 and 35 for the position of the flag point.

From flag point chain measurement, S.0°1'E., 3.06 chs.to
N.rim of side canyon at 77.00 ch.station on line bet.

65.00

77.00

secs.34 and 35. (Approximate) Bottom of side canyon, course E. into Black Rock Canyon. Ascend about 500 ft. to

N. rim of side canyon, and West rim of Black Rock canyon,

80.00

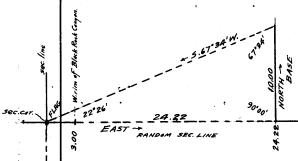
brs. NE, and SW. Asc. gradually over broken E. slope. Continue line and measurement, by chaining. Set an iron post, 3 ft.long, 2 ins. in diam., 6 ins. in the ground, with marked stone, for cor. of secs, 26,27, 24 and 35 and raise a mound of stone around raise. 34 and 35, and raise a mound of stone around, post, with brass cap, marked

> T41N R13W \$27 | \$26 1921

Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, shellac brush and cactus.

3.00

East, on a random line, bet. secs. 20 and 35. Discontinue chain measurement here, as the line H. of this point passes over Black Rock canyon. Triangulate as described as follows, and as shown on the diagram hereon:



Set flag at cor. of secs. 20,27, 34 and 35.

From a point ahead on random sec.line at E.rim of Black

Rock Canyon, measure a Base, North, 10.00 chs. From N. end of base, flag brs. S. o7°34'W.

Included angles are 67°34',90° 00' and 22°20', the sum of which is 180°00'.

Triangulated dist. on random sec. line is obtained by Tang. $67^{\circ}34$ 'x Base or 2.42218 x 10.00 = 24.22 chs. Triangulation point at E. rim of Black Rock canyon. Continue line and measurement by chaining.

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Subdivision of Township 41 North,
                                                        Range 13 West.
chains.
           S. rim of gulch, brs.E. and W. Desc. 75 ft.

Bottom of gulch, course N.75°L. Asc. o5 ft.

N. rim of gulch, brs.NE. and SW. Asc. 30 ft.

Descend 50 ft.to

S.rim of gulch, brs.NE. and SW. Desc. 25 ft.

Bottom of gulch, course N.00°E. Ascend, 10 ft.to

Set an iron post, 3 ft.long, 2 ins. in diam., on bed rock, with marked stone, for cor. of secs. 22, 23, 20 and 27, and raise a mound of stone around post, with brass cap,
 56.00
57.75
61.00
69.50
77.00
78.56
80.00
               marked
                                          T41N R13W
                                          S22 S23
                                            $27 | $26
                                             1921
           Land, mountainous.
            Soil, rocky, 4th rate.
            No timber.
           Undergrowth, shellac brush, black brush and cactus.
             N.89°57'E.,
                             on random line, bet. secs. 23 and 20.
            The West half of this sec. line crosses Black Rock canyon
                the steep broken walls of which render chaining im-
                practicable; therefore, triangulate as described as follows, and as shown on the diagram hereon:
                                                  Set flag ahead, on random sec.line at A. rim
     ec. cor.
                                                     Black Rock Canyon. From cor. of secs. 23, 23, 26
      BASE
← 5.0°3'.
                                                           and 27, measure a base S.
                                           sec. 26
                                                           0°3'玉., 10.43 chs.
                                                       From S. end of base, flag
                                                           brs.N.71°23'E.
                                                         Included angles are 71°20' 90°00' and 18°34', the
                                                            sum of which is 180°00'.
            Vertical angle from sec.cor. to flag point is + 1°.
            Triangulated didistate on random sec. line is obtained by
            Tang. 71^{\circ}26'x Base or 2.97717x 10.43 = 31.05 chs.
            Flag point of above described triangulation.
 31.05
            Continue line and measurement by chaining.
 40.00
            Set temp. \( \frac{1}{4} \) sec.cor.

Intersect N. and S\( \frac{1}{4} \) line, 2 lks.S.of the cor.of secs.23, 24, 25 and 20.
            Thence,
            S.89°50'W., on true line, bet. secs.23 and 26.
            Over mountainous land, thru. scattering undergrowth.
            Descend 65 ft.
   8.00
            Draw, course NW. Ascend 40 ft.
            Low ridge, brs. N. and S. Descend 25 ft. to
Set an iron post, 3 ft.long, 1 in. in diam., on bed rock,
with marked stone, for a sec.cor., and raise a mound
of stone around post, with brass cap, marked
  26.00
  40.00
                                              S 20
                                              1921
            Ascend lo ft.
  43.60
48.95
            Descend 30 ft.to
            Triangulation point at E. rim of Black Rock Canyon, brs.
                 M.and S.
            Continue line by triangulated measurement of 31.05 chs.
                 to sec.cor., as hereinbefore described.
            Descend 540 ft., over steep broken W. slope.
            (Approximate) Bottom of Black Rock Canyon, course N. Asc.
 63.00
               about 750 ft.to sec.cor.
  76.00
80.00
            (Approximate) Bottom of gulch, course N. 60°E. Ascend.
            The cor. of secs. 22,23,20 and 27.
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Land, mountainous.

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Subdivision of Township 41 North, Range 13 West.
            Soil, rocky and gravelly, 3rd and 4th rate.
           No timber.
           Undergrowth, black brush and shellac brush.
           N.0°1'W., bet. secs. 22 and 23.
           Over mountainous land, thru. scattering undergrowth, along
                broken L.slope, following W. rim of Black Rock canyon, which is about 10 chs. E. of line.
           Ascend 16 ft. to
           N. rim of gulch, brs. NE. and SW. Descend 20 ft. to
 1.08
                                                                Ascend 10 ft.
8.30
14.50
16.10
          South rim of gulch, brs. E. and W.; descend 75 ft. Bottom of gulch, course E. Ascend 55 ft. to N. rim of gulch, brs. E. and W. Asc. 112 ft. Descend slightly to
19.50
35.30
33.25
           S. rim of gulch, brs. L. and W. Descend 25 ft. to
Set an iron post, 3 ft. long, 1 in. in diam., on bed rock,
with marked stone, for ** sec. cor., and raise a mound of
stone around post, with brass cap, marked
40.00
                                                322 $23.
           Descend 230 ft.
Bottom of gulch, course L. from NV. Ascend 200 ft. to
44.05
47.86
           North rim of gulch, brs. H. and W. Asc. 40 ft.
56.75
           Descend. 40. ft.to
            Top of cliff, bearing MW. and SE. facing NA. The almost perpendicular descent from this cliff renders continu-
72.16.
                ation of chaining impracticable; therefore, triangulate the measurement of the remainder of the line, as
                 described as follows, and as shown on the diagram
                here on:
                                                      . Leave flag at this point on
                                                            sec.line.
                          N.89°59'E. +
                                    29'21'
                                                          From a point ahead on sec.
                                                            line, measure a base N.89°
                                                              59'E., 14.00 chs.
                                                          From E.end of Base, flag brs. 3.00°38'W.
                                                           Included angles are 29°21',
                      72.16
                                                              00°39' and 90°00', the sum
                                                              of which is 180°00'.
            Vertical angle from flag to triangulation point on sec.
                 line is -20\frac{1}{2}°.
            Triangulated dist. on sec. line is obtained by
            Tang. 29°21'x Base or .56232 x 14.00 = 7.87 chs., which added to 72.10 chs.gives 80.03 chs. N. 0°1'W. from cor. of secs. 22, 23, 20 and 27, for the position of the trian-
                 gulation point.
            From triangulation point at 80.03 ch.station, measure 0.03 chs.S.0°1' E. to 80.00 ch.station, and establish
           the sec.cor., as hereinafter described.

(Approximate) Bottom of gulch, course A.about 350 ft.below 72.10 ch.station. Ascend about 100 ft.to
On point of spur, sloping E. Set an iron post, 5 ft.long,
76.00
80.00
                2 ins.in diam., on bed rock, with marked stone, for cor. of secs. 14,15, 22 and 23, and raise a mound of stone around post, with brass cap, marked

1411 R13V

S15 S14
                                                S22 S23.
                                                  1921
```

Land, mountainous.

No timber.

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

Undergrowth, black brush and shellac brush.

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Subdivision of Township 41 North, Range 13 West.
Chains.
             N.89°50 M., on random line, bet. secs.14 and 23. Discontinue chaining at this point, owing to steep descent
 14.06
                  to Black Rock canyon. Triangulate measurement on random line to a sec.cor., and to point on a rim of canyon, as described as follows, and as shown on the diagram hereon:
                              N.89° 56'E. -- "D"
                                                                    + N.84 09 W.
              Leave flag at this point, indicated on diagram at "A."
              Set flag on line at "D" on W.wall. of canyon, near point for 2 sec.cor.
              From point on line at. "B" on L. rim of canyon, measure, a
                   Base S.0°4'E., 4.49 chs., Which is as long a Base as
                   it is practicable to chain.
              From S. end of base, indicated on diagram at "C" flag at "A" brs. N. 84°9'W., and flag at "D" brs. N. 77°35'W.
              Included angles of triangle "ABC" are 5°55',90°00' and
              Included angles of triangle "ABC" are 5°55',90°00' and 84°5', the sum of which is 180°00'.

Included angles of triangle "DBC" are 12°29',90°00' and 77°31', the sum of which is 180°90'.

Vertical angle "A" to "B" is + 1°.

Vertical angle "D" to "B" is + 14½°.

Triangulated distance from "A" to "B" is obtained by .

Tang. 84°5' x Base or 9.04935 x 4.49 = 43.32 chs., which added to 14.06 chs. gives 57.38 chs. N.89°50'E. from sec.cor. for position of triangulation point "B.".

Triangulated dist. from "D" to "B" is obtained by Tang. 77°31' x Base or 4.61693 x 4.49 = 20.28 chs., which subtracted from 57.38 chs. gives 37.10 chs.N.89°50'E. from sec.cor. for triangulation point "D."
                    rom sec.cor. for triangulation point "D."
              Triangulation point "D."
  37.10
              Chain measurement of.2.90 chs. N.89°50'E. to
              Set temp. - sec. cor.
Thence by triangulated measurement to
  40.00
               Triangulation point "B."
  57.38
               Continue line and measurement by chaining.
               Intersect N. and S. line, 5 lks.S. of the cor. of secs.
 80.08
                    13,14,23 and 24.
               Thence,
               S.89°54'W., on true line, bet. secs.14 and 23.
               Over mountainous land, thru. scattering undergrowth.
               Ascend 47 ft.
    2.80
              Ridge, brs. N. and S. Descend 206 ft. to
Triangulation point on . L. rim of Black Rock canyon, brs.
  22.70
                   N. and S.
               Continue line and measurement by triangulation.
               Descend about 575 ft., over steep broken W. slope, to (Approximate) Bottom of Black Rock Canyon, course N. Asc.
  36.00
                    about 190 ft. to
               On ledge bearing N. and S. Set an iron post, 3 ft.long, 1 in. in diam., 6 ins. in the ground, with marked stone for \(\frac{1}{2}\) sec.cor. and raise a mound of stone around
  40.04
                   post, with brass cap, marked
                                                    3 14
  thain measurement 2.94 chs.S.89°54'W., to
Triangulation point, 50 ft. above \(\frac{1}{2}\) sec.cor.
Continue line and measurement by triangulation.
               Ascend about 295 ft.over steep broken SE. slope, to
               Triangulation point at W. rim of Black Rock Canyon, brs.
   66.02
                    NE. and SW.
               continue line and measurement by chaining.
```

Subdivision of Township 41 North, Range 13 West. Chains. Descend 25 ft., over S.slope, to North rim of gulch, brs. NW. and SE. Desc. 107 ft. Bottom of gulch, course S.75°E. Asc. 110 ft. to The cor. of secs. 14,15,22 and 23 on point of spur, sloping 68.90 77.52 80.08 Land, mountainous. Soil, rocky and gravelly, 3rd and 4th rate. No timber. Undergrowth, black brush and shellac brush. N.0°1'W., bet. secs.14 and 15. Over mountainous land, thru. scattering undergrowth. The beginning of this sec. line passes over the steep broken sides of a gulch, rendering chaining impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon. 16.33 N.89 59 E -- 84 17' Set flag on line, bet. secs.22 and 23 at 72.10 ch. station thereon, or 7.84 chs, S.0°1'E. from cor.of secs.14,15,22 and sec. 15 sec.14 23. N.O. 1 W - Sec line From point ahead on sec. line, bet. secs. 14 and 15, measure a base N.89°59'E., 2.42 chs. which is as long a base as it practicable to chain. sec. line S.5°42'W. Included angles are 84°17',5° 43' and 90°00', the sum of which is 180°00'.
Vertical angle from flag to 72.16 sec.22 triangulation point at W. end of base is 0°. Triangulated dist. on sec. line is obtained by Tang. 84°17'x Base or 9.98931 x 2.42 = 24.17 chs., which added to 72.10 chs. gives 90.33 chs. N.0°1' W., from cor.of secs. 22,23,20 and 27, or 10.33 chs. N.0°1'W. යා රජුරාගයට සමලසි. from cor. of sees. 14,15,22 and 23, for the position of the triangulation point. (Approximate) Bottom of gulch, course 3.80°E., about 100 3.00 ft.below sec.cor. Asc. about 120 ft.to (Approximate) N. rim of gulch, brs. NW. and SE. Asc. about **0.**00 250 ft. Triangulation point on top of sour, sloping S. 75° E. 16.33 Continue line and measurement, by chaining. Descend 80 ft. Gulch, course E. Asc. 72 ft. Desc. 100 ft. 25.85 29.30 Gulch, course S.75° E. Ascend 183 ft.to.

Set an iron post, 3 ft.long, 1 in. in diam., on bed rock, with marked stone, for \(\frac{1}{4}\) sec.cor., and raise a mound of stone around post, with prass cap, marked 32.00 315 314 1921 Ascend 20 ft. 47.00

47.00 59.00 67.00 80.00

Spur, slopes S.45°E. Desc.35 ft.

Hea: of gulch, course N.30°W. Descend slightly to

Spur, slopes N.30°W. Desc. 40 ft:to

Set an iron post.3 ft.long; 2 ins. in diam., 24 ins. in

et an iron post of ft.long; 2 ins. in diam., 24 ins. in the ground; for cor. of secs. 10, 11, 14 and 15, marked on brass cap.

Subdivision of Township 41 North, Range 13 West. Chains. T41N R13W \$10 \$11 s15 s14 1921, Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, black brush. N.89° 54'E., on random line, bet. secs.ll.and 14. W. rim of Black Rock canyon, brs.N. and S. Impracticable 29.40 to continue measurement on random line by either chain ing or triangulation from this point: therefore, chain and triangulate an offset line thru.sec.ll, as described as follows and as shown on the diagram hereon: "E" 5 5 5 5 7 2 W S 50 60 N.89°54'E. ->
PROJECTION OF RANDOM SEC, LINE From 29.40 ch. station indicated on diagram at "A," chain From 29.40 ch. station indicated on diagram at "A," chain measurement, N.0°1'W., 9.26 chs. to offset point "B." Set flag at offset point "B".

From point ".0" N.89°54'E. from "B", measure a Base, S.0°
6'E., 3.49 chs. to point "D."

Bearing from "D" to "B" is N.77°35' W.

Included angles of triangle "BCD" are 12°31',90°00' and 77829', the sum of which is 180°00. Triangulated dist. on random offset line, from "B" to "C" is obtained by Tang. 77°29'x Base "CD" or 4.50451 x 3.49 = 15.72 chs., Which added to 29.40 chs. gives 45.12 chs. easting from sec.cor. for position of point "C." From point "C," measure S.89°,54' W., 5.12 chs. to point "B;" thence, S.0°1'E.,9.26 chs.to point "F" which is on random sec.line 40.00 chs. N.89°544E.from cor. of secs. 10,11,14 and 15. 40.00 Set temp. * sec. cor. Set flag on sec.line, bet. secs.ll and 12, N.89°54'E., from point "C, "at point indicated on diagram at "G." Bearing from "D" to "G" is N.84°11'E. Included angles of triangle "CDG" are 90:001,84°17' and 5° 43', the sum of which is 180°00'. Triang lated dist. on random offset line from "C" to "G" is obtained by Tang. 84° 17' x Base "CD" or 9.98931 x 3.49 = 34.80 chs., which added to 45.12 chs.gives 79.98 chs. easting from cor. of secs. 10,11,14 and .15, for the position of offset point "G." From offset point "G" S.0°1'E., 0.12 cas. on sec.line, bet.secs.ll and 12, to triangulation point of triangulation hereinbefore described. in notes of survey of said line. Thence measuring by said triangulation, S.0°1' E., 9.26 chs. to the true point for cor. of secs. 11,12,13 and 14. From the above described random offset line the falling of the random sec. line projected is found to be 12 lks.N. of cor. point, at 79.98 chs., N. 89°54'L., from cor. of secs. 10,11,14 and 15.
Intersect N. and S. line, 12 lks.N. of true point for cor. of secs.11,12,13 and 14, witnessed 2.10 chs. S. 0°1'E. 79.98 therefrom as hereinbefore described.

From true point for cor. of secs. 11,12,13 and 14,

Subdivision of Township 41 North. Chains. S:89°59'W:, on true line, bet. secs.11 and 14. Over mountainous land, thru. scattering undergrowth. Measurement of 50.58 cas., and to 4 sec. cor. position by offset line, as described as follows, and as shown on the diagram hereon: "E 10.50 TRUE POSITION OF SEC. LINE . + 5.89.59 W. From true point for cor. of secs. 11, 12, 13 and 14, indicated on diagram at "A," N.0°1'W., 9.20 chs. on sec. line, bet. secs.ll and 12, meas-urement by triangulation, as hereinbe fore described, to offset point "B." Thence, S.89°59'W:,39.99 chs.on offset line thru.sec.ll (E2),par-allel to,and 9.20 chs.H, of true posit tion of sec. line, measurement by triangulation for 34.80 chs., and chaining for 5.13 chs.

From offset point "3" desc. about 250 ft, over steep SW. slope to 7.00, (Approximate) ch. station on offset line, which is the bottom of gulch, course NW. Thence asc. about 100 ft. to 18.00° . (approximate) ch.station, which is point of spur, sloping MW. in Black Rock Canyon. Thence descend about 100 ft. to 30.00 (Approximate) chain station, which is the bottom of Black Rock Canyon, course N. Thence ascend about 210 ft. to 34.86 ch. station, which is the triangulation point. Thence . chain measurement of 5.13 chs., S.89° 50'W. on offset line, ascending of ft. over steep 1. slope to 39.99 ch. station indicated on diagram at "C." Thence chain measurement, S.0°1'E., 9.25 chs., on offset line, along steep E.slope, on W.wall of Black Rock canyon, descending 35 ft. to

Midpoint on true sec.line, Set an iron post, 3 ft.long, 39.99 1 in. in diam., 20 ins. in the ground, with marked stone, for a sec.cor., and raise a mound of stone, around post, with brase cap, marked and raise a mound of stone, 2 ft. base, la ft. high, N. of cor. From above described 1 sec. cor., indicated on diagram at N.0°1'W.,9.25 chs., returning to point "Q" on offset line. Thende, S.89°59'W.,10.59 chs. on offset line, in W. and of sec.11, measurement by triangulation, as hereinberore described. Ascend about 450 ft., over steep E. slope of W.wall of Black Rock, Can-yon, to offset and triangulation point at W.rim of said canyon, indicated on diagram at "E," which is

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Subdivision of Township 41, North, Range 13 West.
Chains.
                                          50.58 chs., S.89°59 W. from offset point "3" on sec.line
                                          bet.secs.11 and 12.
                                      'From offset point BEI't
          S.0°1'E., 9.26 chs., on offset line, along W. rim of Black Rock canyon, ascending
                                          slightly to
          Offset point "F," on true sec.line, bet. secs.11 and 14,
 50.58
            at W. rim of Black Rock canyon.
          Thence, S. 39°59'W., on true sec.line, continuing measurement, by
             chaining
          Ascend 92 ft.
 61.80
          Spur, slopes N. Desc. 47 ft.
 68.75
79.98
          Ascend oo ft.to
          The cor. of secs. 10,11,14 and 15.
          Land, mountainous.
          Soil; rocky, 4th rate.
          No timber.
          Undergrowth, black brush and sage brush.
          N:0°1'W.; bet. secs.10 and 11.
          Over mountainous land, thru. scattering undergrowth.
          Descend 35°ft.
          Draw, course N.60°W. 'Asc. 60 ft.
 12.50
 20.00
         Sour, slopes NW. Descend 30 ft. to
         Set an iron post, 3 ft. long, 1 in. in diam., on bed rock,
 40.00
             with marked stone, for \( \frac{1}{4} \) sec.cor., and raise a mound of stone around post, with brass cap, marked
                                     $10 S11
                                      1921
        Descend slightly over E.slope, to Same spur, slopes N.30°E. Desc.40 ft., over NW.slope, to Left rim of Black Rock Canyon, brs. NE. and SW. Desc.850
 46.50
 49.16
          ft., over steep NW. slope, to
Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in
 80.00
              the ground, for cor.of secs.2,3,10 and 11, marked on
             , brass cap,
                                    T41N R13W.
                                     S 3 | S 2
                                     siolsii
                                      1921
             and raise a mound of stone, 2 ft.base, 1 ft.high, W. or
             cor. This cor. is at left edge of the bottom of Black
             Rock Canyon, bearing E. and W.
          Land, mountainous.
          Soil, rocky, 3rd and 4th rate.
          No timber.
          Undergrowth, black brush, and shellac brush.
         N.89°59'E., on a random line, bet.secs.2 and ll. Set temp. sec.cor. Intersect N. and S. line, 2 lks.S. of the cor. of secs.1,
 40.00
79.80
             2,11 and 12.
          Thence
          S.89°58'W., on a true line, bet. secs.2 and 11.
          Over mountainous land, thru. scattering undergrowth.
          Ascend 185 ft.
-23.00
          Spur, slopes N.
                            Desc. 100 ft.
 31.05
38.50
          Ascend 30 ft.
         Point of spur, sloping N.20°E. from SE. Descend 15 ft.to
```

1921

of cor. Asc. 15 ft.

and raise a mound of stone, 2 ft. base, 12 ft. high, W.

256

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Subdivision of Township 41 North, Range 13 West.
chains.
41.10
           Spur, slopes N. 75°E. Desc. 30 ft.
43.20 Ascend 120 ft.
48.00 Sour, slopes N
           Sour, slopes N. 80°E. Desc. 110 ft. to
 61.37
           Triangulation point on right or N. rim of Black Rock
            Canyon, bearing NE. and SW.
Continue line and measurement by triangulation.
           Descend 400 ft., over cliffs, facing SE. Foot of descent at N. edge of bottom of Black Rock Canyon,
.76.12
            bearing M. and Wil.

Theheeracross bot tom of canyon, course wisting.

Descript 400 It. of exact slifts, fielding 31.

They are the descript of several sleek keek dealer,
 juli
                 beaggs .1 and M.
                                          - ມີມູອດຜູ້ອະສຸດທຽວ ກົວຄອນກ່ຽວມີ ອະລຸກ່ຽນ, ຮຽນນູ້ຂອ
            The cor, of secs. 2,3, 10 mand 11 at S., edge of bottom of, c
 80.12
                 canyon.
            Land, mountainous.
            Soil, rocky, 4th rate.
            No timber.
            Undergrowth, shellac brush and black brush.
            From the standard cor. of secs. 35 and 34, on the S. bdy. of the Tp. (10th Std. arallel North), hereinbefore de-
            N.0°2'W., bet. secs.33 and 34.
            Over mountainous land, thru. scattering undergrowth.
            Descend 25 ft.
  2.50
7.80
           Draw, course NE Ascend 35 ft. Spur, slopes N. 45°E. Desc. 22 ft.
 11.40
            Gulch, 2 chs.wide, course N.70°E. Asc. 15 ft.
           Descend 30 ft.
Asc. 25 ft.
Point of spur, slopes E. Desc. 12 ft.
 16.40
 23.90
28.90
32.00
38.10
            Gulch, course E. Asc. 20 ft.
           Desc. slightly to

Set an iron post; 3 ft.long, 1 in. in diam., on bed rock,

with marked stone, for 2 sec.cor., and raise a mound

of stone around post, with brass cap, marked
 40.00
            Descend 30 ft.
            Descend 30 ft.

Wash, course N.75°E. Ascend 75 ft.

Spur, slopes E. Desc. 515 ft.

Bottom of canyon, 2 chs. wide, course N.80°E. Ascend 500 ft.

Point of spur, slopes E. Desc. 40 ft. to

Set an iron post, 3 ft.long, 2 ins.in diam., on bed rock,

with marked stone, for cor. of secs. 27, 28, 33 and 34, and
and raise a mound of stone around post, with brass cap,
 45.30
 57.40
65.00
 72.45
                 marked
                                              T41N R13W
                                               $28 $27
                                               $33 S34
                                                 1921
            Land, mountainous.
            Soil, rocky, 4th rate.
            No timber.
            Undergrowth, sage brush, and black brush.
            East, on a random line, bet. secs. 27 and 34.
 40.00
            Set temp. $ sec. cor.
.79.88
            Intersect N. and S.line, 2 lks.N. of the cor. of secs. 20,
                 27, 34 and 35.
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Subdivision of Township 41 North.
                                                              Range 13 West.
Chains.
            Thence,
           N.89°59'W., on a true line, bet. secs.27 and 34.
            Over mountainous land, thru. scattering undergrowth.
            Ascend 15 ft.
  3.25
           Descend 20 ft.
9.19
13.80
18.20
           Ascend 50 ft.

Point of spur, slopes S.30°E. Descend 10 ft.

Wash, 25 lks.wide, course S.45°E. Asc. 100 ft.
           Spur, slopes S.10°E. Desc. 40 ft. to
Set an iron post 3 ft.long, 1 in. in diam., on bed rock,
with marked stone, for 4 sec.cor., and raise a mound
of stone around post, with brass cap, marked
 36.00
 39.94
                                               $ *27
                                                $ 34
                                                1921
           Descend 20 ft.
           Gulch, course S.10°W. Asc. 220 ft.
Spur, slopes N. Desc. 160 ft., over W. slope.
Center of wash, 1 ch. wide, course N.10°W. Ascend 220 ft. to
41.90
50.80
67.80
 79.88
            The cor. of secs. 27, 28, 33 and 34.
           Land, mountainous.
            Soil, rocky, 4th rate.
            No timber.
            Undergrowth, black brush and shellac brush.
           N.0°2'W., bet. secs.27 and 23:
Over mountainous land, thra. scattering undergrowth.
            Descend 57 ft.
  7.00
           Ascend 10 ft.
  7.90
           Descend 55 ft.
           Wash, oo iks. wide, course S. 45° .. Ascend 105 ft.
11.20
           Point of spur, sloping L. and left rim of canyon, brs.N. 60°W. and S.00°E. Descend 305 ft., over NE. slope. Center of bottom of Purgatory canyon, 4 chs.wide, course N.45°W., near head of same. Asc. 150 ft., over SW.
 19.40
32.20
                slope, on right wall of canyon.
           Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for 4 sec.cor., marked on brass cap,
40.00
                                               1921
                and raise a mound of stone, 2 ft.base, 1g ft. high, W.
           Continue over right wall of Burgatory Canyon, thru. remainder of mile.
Ascend 105 ft., over W.slope.
54.50
           Desc. 140 ft., over NW. slope.
60.60
           Ascend of ft., over SW. slope.
63.80
70.50
80.00
           Descend 15 ft. Asc. 20 ft. to
           Set an iron post, 3 ft.long, 2 ins. in diam., on bed rock, with marked stone for cor. of secs. 21,22,27 and 28,
                and raise a mound of stane around post, with brass cap
               marked
                                            141 N R13W
                                              321 322
                                              328 327
           Land, mountainous.
           Soil, rocky, 4th rate.
           No timber.
           Undergrowth, black brush and sagebrush.
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BOOK 3524

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Subdivision of Township 41 North.
Chains.
            S.39°59' E., on a random line, bet. secs.22 and 27. Set temp. 4 sec.cor. Intersect N. and S.line, 21.1ks.N. of the cor. of secs.22,
 40.00
79.82
                 23, 20 and 27.
            Thence,
            N.89°50'W., on a true line, bet. secs.22 and 27.
            Over mountainous land, thru. scattering undergrowth.
            Ascend 125 ft.
            South end of ridge, brs. N.10°W. and S.10°E. Desc.15 ft.
 12.00
           Ascendel5 ft.
Point of spur; slopes S. Desc. 15 ft.
 14.00
 17.50
20.30
           Wash, 60 lks.wide, course S.30°E. Asc. 45 ft. Point of spur, slopes SE. Desc. 10 ft.
 22.60
            Ascend 50 ft.
Descend 20 ft.
 23.85
 30.50
34.10
39.91
            Gulch, 40 lks.wide, course S.80°E. Asc. 140 ft.to Set an iron post, 3 ft.long, 1 in. in diam., on bed rock, with marked stone, for ½ sec.cor., and raise a mound of stone around post, with brass cap, marked
                                                 $ 27
                                                 1921
            Ascend 35 ft.to
 45.00
            Same gulch, course N.45° A. Ascend 145 ft. to
            East or right rim of Durgatory canyon, brs.N. and S.Desc. 315 ft., over steep W.slope, to
The cor. of secs. 21,22,27 and 28, on A.wall of Purgatory
 71.50
 79.82
                 Canyon.
             Land, mountainous.
             Soil, rocky, 4th rate.
             No timber.
             Undergrowth, sage brush, black brush, shellac brush and
                 juniper.
             N.0°2' W., bet. secs. 21 and 22.
            Over mountainous land, thru. scattering undergrowth, along E. wall of Purgatory Canyon, thru. entire mile.
            Descend 185 ft., along steep W. slope.

Ascend 50 ft., along W. slope.

Point of spur, slopes W. Desc. 30 ft., along W. slope, to Set an iron post, 3 ft.long, 1 in. in diam., 20 ins. in the ground, for 4 sec. cor., marked on brass cap,
 19.80
 31.40
  40.00
                                                S21 S22
                                                 1921
                 and raise a mound of stone, 2 ft. base, 12 ft. high,
                 W.of cor.
             Along broken W.slope, With very little change in eleva-
                 tion.
             Desc.135 ft., over W. slope, to
Top of cliff, brs. N. 10°E. and S. 10°W., facing W. Desc.132
  49.00
. 67.70
                  ft.to
            Foot of cliff. Desc. 80 ft., over steep W. slope, to Set an iron post, 3 ft.long, 2 ins. in diam., on bed rock with marked stone, for cor. of secs. 15, 10, 21 and 22,
  72.25
                 and raise a mound of stone around post, with brass
                  cap, marked
                                              T41N R13W
S10 S15
                                                S21 S22
                                                  1921 -
             Land, mountainous.
            Soil, rocky, 4th rate. No timber. Undergrowth, black brush, sagebrush and shellac brush.
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Subdivision of Township 41 North, Range 13 West.
Chains.
         S.89°48'E., on a random line, bet. secs.10 and 15.
40.00
30.02
        Set temp. 4 sec. cor.
        Intersect N. and S. line, 16 lks.S.of the cor.of secs.10
            11,14 and 15.
        Thence,
N.89°55'W., on a true line, bet. secs.10 and 15.
Over mountainous land, thru, scattering undergrowth.
        Point of spur sloping N. Desc. 175 ft. Gulch, course N. Ascend 350 ft. Spur, slopes N. Descend 15 ft. to
 4.00
13.50
34.70
        Set an iron post 3 ft.long, 1 in. in diam., on solid rock, with marked stone, for a sec. cor., and raise a mound of
40.01
             stone, around post, with brass cap, marked
                                      S 10
                                      S 15
         Descend 270 ft.
55.50
67.50
80.02
         Bottom of canyon, course N. Ascend 295 ft.
         Spur, slopes NW. Desc. 250 ft. to
         The co...of secs. 9, 10, 15 and lo.
         Land, mountainous.
         Soil, rocky, 4th rate.
         No timber.
         Undergrowth, black brush and cactus.
          N.0°2'W., bet. secs. 9 and 10.
         Over mountainous land, thru. scattering undergrowth.
         Ascend 240 ft.
        Descend 110 ft.
8.50
22.30
         Ascend 40 ft.
        3. or left rim of Black Rock Canyon, brs. H and W.facing
32.65
             N. Desc. 295 ft., to
         Set an iron post, 3 ft.long, 1 in. in diam., 15 ins.in the ground, with marked stone, for 4 sec.cor., and raise
40.00
             a mound of stone around post, with brass cap, marked
                                     S '9 S10
                                       1921
         Continue over S. wall of Black Rock Canyon.
         Descend 120 ft. to
         Top of cliffs, bearing E and W. Desc. 575 ft., over cliffs
52.52
         facing N.

Bottom of Black Rock Canyon, course W. Asc. 60 ft.to

Set an iron post, 3 ft.long, 2 ins. in diam., on solid rock,

with marked stone, for cor. of secs. 3, 4, 9 and 10, and
76.00
80.00
             raise a mound of stone around post, with brass cap,
             marked
                                    T4111 R13W
                                      S 4 S 3
                                      S 9 S10
         Land, mountainous.
         Soil, rocky, 4th rate.
         No timber.
         Undergrowth, black brush and shellac brush.
         S.89° 55!E., on random line, bet. secs.3 and 10. Chain measurement of this line is impracticable, owing
             to the steep walls of Black Rock Canyon, over which
             the line passes for nearly its entire length. Triangu-
             late measurement, as described as follows, and as
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brass cap, mafked

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Subdivision of Township 41 North.
Chains.
                                            3 3
3 10
1921
               and raise a mound of stone, 2 ft. base, 12 ft.high,
               N. of post.
           Discontinue chaining at this W.C., and triangulate the measurement of the remainder of the line, as hereinbe-
               fore described.
           Over cliffs on N. or right wall of canyon.
           Descend 570 ft.to
80.02
           Triangulation point at cor. of secs. 3, 4,9 and 10, on H wall
               of canyon.
           Land, mountainous.
           Soil, rocky, 4th rate.
           No timber.
           Undergrowth, shellac brush and black brush.
           N.0°2'1., on a random line, bet.secs. 3 and 4.
The beginning of this line passes over steep cliffs on
N.wall of Black Rock Canyon, and chaining is impracti-
               cable; therefore triangulate as described as follows.
               and as shown on the diagram hereon:
                                               Set a flag ahead on random line
                                                  at top of cliffs.
                        - N. 78.03'W.
                                               From the triangulation point on
                                                  random line, bet. secs. 3 and
           10. (44.19 chs. 5.89°55'E.from cor. of secs. 3.4, 9 and 10) the flag brs. N. 78°03'W.

Included angles are 11°52', 90°03' and 78°05', the sum of
cor of secs
3,4,9210
           which is 180°00'.
Vertical angle from sec.cor.to flag is + 403°.
           Triangulated dist. on random line is obtained by
            Sine 11°52'x Base or \frac{.20503 \times 44.19}{.07845} = 9.29 chs.
               sine 78° 05'
                                             •97845
           Flag point of above described triangulation.
  9.29
           Continue line and measurement by chaining.
           Set temp. 4 sec. cor. Intersect the cor. of secs. 3 and 4, and fract. secs. 33 and 34,
 40.00
 79.99
               on the N.bdy.of Tp., hereinbefore described.
           Thence,
           S.0°2'W., on a true line, bet. secs. 3 and 4. Over mountainous land, thrul scattering undergrowth.
           Ascend 85 ft.
Descend 30 ft.
Ascend 85 ft. to
 15.00
 20.00
           Set an iron post, 3 ft.long, 1 in. in diam., 20 ins. in the ground, for & sec.cor., marked on brass cap,
 39.99
                                           s 41s 3
               and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, W_{\bullet}
               of cor.
          Ascend 10 ft.

Ridge, brs. E and W. Descend 400 ft. to

Triangulation point at N. or right rim of Black Rock Canyon,

brs. E. and W. Continue line and measurement by trian-
           Ascend 10 ft.
 45.00
70.70
           gulation. Desc. 530 ft., over cliffs facing S., to The cor. of secs. 3,4, 9 and 10, on steep N. wall of Black
 79.99
               Rock Canyon.
           Land, mountainous.
           Soil, rocky, 3rd rate.
           No timber. Undergrowth, black brush and shellac brush.
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Subdivision of Township, 41 North, Range 13 West.
            From the standard cor. of secs. 32 and 33, on the S. bdy. of the Tp., (10th. Std. Parallel North), here inbefore de-
                scribed,
            N.0^{\circ}3^{\dagger}W., bet. secs. 32 and 33.
            Over mountainous land, thru. scattering undergrowth.
           Desc. of ft.
11.70
23.80
38.70
40.00
           Wash, 35 lks.wide, course N.70° E. Ascend 40 ft. Descend 75 ft.to
           Ridge, brs. N.45°E. and S.45°W. Descend 25 ft.to
Set an iron post, 3 ft.long, 1 in. in diam., on bed rock,
with marked stone, for $\frac{1}{4}$ sec.cor., and raise a mound of
stone around post, with brass cap, marked
           Descend 110 ft.
47.50
52.50
59.60
           Ascend 52 ft.
           Point of spur, slopes W. Desc. 140 ft.
Bottom of canyon, 150 lks.wide, course N.45°E. Asc. 150 ft.
Spur, slopes N.80°E. Desc. 15 ft.
67.80
78.10
            Ascend 10 ft.to
           Set an iron post, 3 ft. long, 2 ins. in diam., on bed rock,
80.00
                with marked stone for cor. of secs. 28, 29, 32 and 33, and raise a mound of stone around post, with brass cap,
                marked
                                              T41N R15V
                                               S29 S28
                                               532 533
                                                 1921
           Land, mountainous.
           Soil, rocky, 4th rate.
           Wo timber.
           Undergrowth, sagebrush and black brush.
           Set temp. 2 sec. cor.
40.00
           Intersect N. and S. line, 2 lks.N.or the cor.of secs.27, 28, 33 and 34.
80.10
           Thence,
           N.89°59'W., on a true line, bet. secs.28 and 33.
           Over mountainous land, thru. scattering undergrowth.
           Asc. 185 ft.
           Ridge, brs. N. and S. Descend 100 ft. Wash, 35 lks.wide, course N.30°E. Asc.15 ft. Desc. 10 ft.to
22.40
28.80
33.90
           Same wash, 45 lks.wide, course 3.60°E. Asc. Same wash, 40 lks.wide, course N.30°E. Asc. Set an iron post, 3 ft.long, 1 in. indiam., 20 ins.in the ground, for $\frac{1}{2}\text{ sec. cor., marked on brass cap,}
36.40
39.10
40.05
                and raise a mound of stone, 2 ft.base, 12 ft.high, N. of
           Ascend 125 ft.
           Point of spur, slopes 3.15°E. Desc. 40 ft. Wash, 20 lks.wide, course 5.45° E. Asc. 130 ft.
52.00
57.70
69.00
           Spur, slopes S. Desc. 70 ft. Wash, course S. 10 E. Asc. 50 ft. to The cor. of. secs. 23, 29, 32 and 33.
72.50
80.10
           Land, mountainous.
           Boil, rocky, 4th rate.
           No timber. Undergrowth, black brush.
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2	Su	odivision of Township 41 North, Range 13 West.
-	0.15	N.0°3'W., bet. secs.28 and 29. Over mountainous land, thru. scattering undergrowth. Descend 45 ft. Wash, 40 lks.wide, course S.30°E. Asc. 110 ft.
	15.45 32.63 40.90	Descend 100 ft. Wash, 60 lks.wide, course 2, Asc. 30 ft.to Set an iron post, 3 ft.long, 1 in. in diam., on bed rock, with marked stone for 4 sec.cor., and raise a mound of stone around post, with brass cap, marked
		\$29 \$28
		1921
	63.50 67.18	Descend 120 ft.to S. rim of canyon, brs. He and W Descend 320 ft
	72 •95 79 • 00	ft. Point of spur, slopes N.45°E. Desc. 185 ft. Wash, o5 lks, wide, course S. 75°E. in bottom of canyon. Ascend 25 ft.to
	80.00	Set an iron post, 3 ft.long, 2 ins. in diam., on bed rock with marked stone, for cor. of secs. 20,21, 28 and 29, and raise a mound of stone around post, with brass
	. ,	T41N/R13W
		Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, sagebrush, black brush and Spanish bayonet.
	40.00 79.98	S.89°59'E., on a random line, bet. secs.21 and 28. Set temp. sec.cor. Intersect N. and S. line, 11 lks.S.of the cor.of secs.21,
	·	22,27 and 28. Thence, S.89°50'W., on a true line, bet. secs.21 and 28. Over mountainous land, thru. scattering undergrowth,
	13.60	across Purgatory Canyon. Descend 345 ft., over W. slope on E. wall of canyon. Center of bottom of Purgatory Canyon., 5 chs.wide, course
	32.40	N.20°E. Asc. 550 ft., over W. wall of canyon. Point of spur, slopes S.at W. rim of canyon, bearing N.and S. Desc. 15 ft.
	33.60 39.99	Wash, 60 lks.wide, course S.45°E. Asc. 10 ft.to Set an iron post, 3 ft.long, 1 in. in diam., on bedrock, with marked stone, for 2 sec. cor., and raise a mound of stone around post, with brass cap, marked
		\$ 21 \$ 28 1921
	65.40 68.20 79.98	Ascend 320 ft. Spur, slopes S.10°E. Desc. 10 ft.to N. or left rim of canyon, brs. HW. and SE. Desc. 350 ft. to The cor. of secs. 20, 21, 28 and 29. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, black brush and sagebrush.
		1.0°3'W., bet. Sees.20 and 21.000

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Subdivision of Township 41 North, Range 13
                                                                                              43
                                                                          West.
          N.0°3' W., bet. secs.20 and 21.
Over mountainous land, thru. scattering undergrowth.
Ascend 245 ft., over SW. slope, on N. or left wall of canyon,
           N.or left rim of canyon, brs. NV and SE. Asc. 60 ft.
 8.70
          Descend 140 ft., over NE. slope, to
Set an iron post, 3 ft.long, 1 in. in diam., on bed rock,
with marked stone, for 4 sec. cor., and raise a mound
of stone around post, with orass cap, marked
24.20
40.00
                                             $20 $\frac{2}{5}$21
          Ascend 25 ft., over SE. slope.
Ridge, brs. N. 40°E. and S. 40°N. Desc. 135 ft.
Wash, oo lks.wide, course N. 30°E. Asc. 25 ft., over SE.
46.60
57.00
                slope.
59.10
63.80
           Point of short spur, slopes 2. Desc. 40 ft.
           Asc. 75 ft.
Descrid 25 ft.to
72.40
80.00
           Set an iron post, 3 ft.long, 2 ins. in diam., on bedrock,
                with marked stone, for cor. of secs. 10,17,20 and 21; and raise a mound of stone around post, with brass cap;
                                              T41N R13W
                                               317 | 516
                                               320 S21
                                                 1921
           Land, mountainous.
           Soil, rocky, 4th rate.
           No timber.
           Undergrowth, sagebrush, black brush and juniper.
                         N.89°50'E., on random line, bet, secs.16 and 21.
Set temp. sec.cor.
W. rim of Purgatory Canyon, brs.N.10°W.and S.20°E. Discon-
40.00
51.87
                 tinue chaining, as the line L. of this point crosses
            Purgatory Canyon.

Triangulate the measurement of the remainder of this line as described as follows, and as shown on the diagram
                hereon:
                                                            From this point, measure a
                                            cor. of secs.
15,16,21+22
                                                             Base S.18°04'E.,7.10 chs. Set flag 0.11 chs.S.of the
                                                             cor. of secs. 15, 16, 21 and 22. From 51.87 ch. station, or NW.
                                                              end of base, flag brs. N. 89° 50'E.; therefore, flag is at terminus of random line projected, and the falling
                                                              of the line is therefore
                                                              S.11 lks.from the cor. of
            secs. 15,16,21 and 22. The bearing to the flag from SE. end of base is N.75°23'E. Included angles are 93°27',72°00' and 14°33', the sum
               of which is 180°00 .
            Triangulated distance on random sec. line is obtained by
            \frac{\text{sine } 93^{\circ} \ 27' \times \text{Base}}{\text{sine } 14^{\circ}33'} or \frac{.99819 \times 7.10}{.25122}
                                                                          = 28.21 chs., which
                                                            25122
                added to 51.87 chs. gives 80.08 chs. as the total length of random sec.line.
80.08
            Triangulation point 11 1ks.S. of the cor. of secs. 15, 16,
                 21 and 22, on E. wall of Purgatory Canyon.
            S.89°51'W., on true line, bet. secs.16 and 21.
```

Subdivision of Township Al North Chains. over mountainous land, thru. scattering undergrowth. Desc. over steep W.slope, on E.wall of Purgatory Canyon. Measurement of 28.21 chs. by triangulation, hereinbefore described. 7.00 proximate) Bottom of Purgatory Canyon, with wash,150 lks.wide, course N.10°W. Ascend over steep E.slope, on W.wall of canyon. (Approximate) 28.21 Triangulation point at W. rim of canyon, brs. N. 10 °W. and S. 20°E. Continue line and measurement by chaining. Ascend 40 ft.to Set an iron post, 3 ft.long, 1 in. in diam., on bedrock, with marked stone, for 2 sec.cor., and raise a mound of stone around post, with brass cap, marked stone, for 40.04 S 19 5 21 1921 Ascend 35 ft. 43.80 Spur, slopes N. Descend 70 ft. Ascend 35 ft.
Point of spur, slopes N. Descend 140 ft.
Bottom of canyon, with wash 80 lks.wide, course N.10°W.
Ascend 130 ft.to 55.50 65.00 70.80 The cor. of secs. 10, 17, 20 and 21. 80.08 Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, black brush, sagebrush, scrub juniper and shellac brush. N:0°3'W., bet. secs.16 and 17. Over mountainous land, thru. scattering undergrowth. Descend 95 ft., over NE. slope, to 13.87 S. or right rim of canyon, brs. NE. and SW. Chaining across canyon being impracticable, triangulate as described as follows, and as shown on the diagram hereon: Leave flag at this point. From a point ahead on sec.line, -5.89°57'W. at N.or left rim of canyon. measure a Base, S.89°57'W., 10.00 chs. From W. end of base, flag brs. S. 210 51 'E. Included angles are 68°12',90°00' and 21°48', the sum of which is 180°00'. Triangulated dist. on sec.line is obtained by Tang. 68°12'x Base or 2.50016x
10.00= 25.00 chs., which added
to 13.87 chs. gives 38.87 chs.
N.0°3'W. from sec.cor.for position of triangulation point. (Approximate) Bottom of canyon, course NE. Asc. steep SE. 25.00 slope. 38.87 Triangulation point on N. or left rim of canyon, brs. NE. and SW. Continue line and measurement by chaining. Ascend very gradually to.
Set an iron post, 3. ft. long, 1 in. in diam., 12 ins. in 40.00 the ground, with marked stone, for & sec.cor., and raise a mound of stone around post, with brass cap, marked : S17|S16

1921

Subdivision of Township .41 North Kange 13 West. Chains. Thence over rolling top of mesa, with little change in elevation. 66.30 80.00 Leave top of mesa, and descend 110 ft. to Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground, with marked stone, for cor. of secs: 8,9,16 and 17, and raise a mound of stone around post, with orass cap, marked T41N R13W S 8 S 9 \$17\\$16 1921 Land, mountainous and rolling. Boil, rocky, 4th rate. No timber. Undergrowth, black brush. N.89°51'E., on random line, bet. secs.9 and lo.
W.or left rim of Purgatory Canyon, brs. N.and S. Owing to
steep cliffs on W. wall of Purgatory Canyon, which renders chaining impracticable, triangulate as described
as follows, and as shown on the diagram hereon: 10.26 Leave flag at this point. From a point ahead on random sec.line near foot of cliffs, measure a Base, N.0°9'W, 10.00 chs. From N.end of Base, flag brs. S.71°18'W. 18.33 Included angles are 71°27' 90°00' and 18°33', the sum of which is 180°00'. Triangulated dist. on random sec.line is obtained by Tang.71°27'x Base, or 2.98004 x 10.00 = 29.80 chs., which added to 10.20 chs., gives 40.00 chs. N.89°51'E.from sec.cor. for position of the triangulation point.

From triangulation point, chain measurement of 0.06 chs. S.89°51'W., to Set temp. 4 sec. cor. Continue line and measurement, by chaining to 40.00 Discontinue chaining at this point, owing to steep cliffs ahead on E. wall of Purgatory Canyon. Triangulate as described as follows, and as shown on the diagram 47.82 thereon: Leave flag at this point. rom point ahead on random sec.line at E.rim of Purga tory Canyon, measure a Base, N. 0°9'W., 5. 00 chs. From N. end of base, flag brs. S. 71°50'W. Included angles are 71°59', 90°00' and 18°01', the su the sum of which is 180°00'. Triangulated dist. on random sec. line is obtained by
Tang.71°59' x Base or 3.07464 x 5.00 = 15.37 chs., which
added to 47.82 chs. gives 63.19 chs. N.80°51'E.from sec.
cor. for position of the triangulation point.
Triangulation point at E. or right rim of Purgatory Can-63.19 yon, brs.N.10°W. and S.10°E. Continue line and measurement by chaining. Intersect N. and S. line, 21 lks.N.of the cor.of secs.9, 80.06 10;15 and 16: Thence, West, on true line, bet. secs. 9 and 16. Over mountainous land, thru. scattering undergrowth. Desc. 200 ft., over SWslope, to Triangulation point at E.or right rim of Purgatory 16.87

	46 8	ubdivision of Township 41 North Range 13 West.
	Chains.	
		Canyon, brs. N. 10°W. and S. 10°E.
	ţ. •	Descand over cliffs on E. wall of canyon. Measurement by triangulation to
	32.24	Majangulation point at foot of E. Wall of canyon. Thence
	J = - 4	across bottom of Purgatory Canyon, brs. N. 20 °W. and S:20
	•	l E
		Continue line and measurement by chaining.
	3 3.50	Wash, 50 lks.wide, course N.20°W. and C.20°L. Continue over bottom of canyon.
		Ascend slightly to
	40.00	Triangulation point.
	40.03	Set an iron post. 3 ft.long. 1 in. in diam. 8 ins. in the
		ground, with marked stone for 1 sec.cor., and raise a
	•	mound of stone around post, with brass cap, marked
		1 S 9
		1 S 9 S 16
		1921
	10	Ascend over cliffs, bearing N and S.facing E. on W.wall
		of Purgatory Canyon.
	69.80	Measurement by triangulation to Triangulation point at W. or left rim of Purgatory Canyon.
	09.00	brs. N. and S.
		Continue line and measurement, by chaining.
	-0.00	Ascend 45 ft.
	72.00 80.06	Descend 127 ft. to The cor. of secs. 8,9,10 and 17.
	00.00	Land mountainous.
		Soil, rocky, 4th rate.
	•	No timber.
	· · · · · · · · · · · · · · · · · · ·	Undergrowth, black brush and cactus.
	,	
	·	
	, ;	N.0°3'W., bet. secs. 8 and 9.
	,	Over mountainous land, thru. scattering undergrowth. Desc. 465 ft. to
	23.65	S.or left rim of Black Rock Canyon, brs. E. and W.
		Discontinue chaining, as the line now passes over steep
		cliffs bearing E. and W. facing N. on the S wall of
		the canyon. Triangulate from this point, as described as follows, and
		as shown on the diagram hereon:
		Measure a base from this point, N. 89°57'E., 8.00 chs.
		Set flag ahead on sec.line at
	•	foot of cliffs.
	■ Si se i → si →	From E. end of base, flag brs.
		N. 20°30 W. Included envilor and page 2771008
		Included angles are 03°33'90° 00' and 25°27', the sum of
	•	which is 180°00'.
		Vertical angle from triangula-
		tion to flag point is - 18°. Triangulated dist.on sec.line, is obtained by
	, "	Tang. 03°33'x Base or 2.01908 x 8.00 = 16.08 chs., which
	; ;	added to 23.05 chs.gives 39.73 chs. N.0°3'W. from
į	* Z \ 77	sec.cor., of the position of the flag point.
	39•73	Flag point of above described triangulation at foot of cliffs, bearing a and W., 325 ft. below S rim of
	4.4	Black Rock Canyon
		Continue line and measurement, by chaining.
	10'00	Descend slightly to
	40:00	Set an iron post, 3 ft. long, 1 in. in diam. 8 ins. in the ground, with marked stone, for $\frac{1}{2}$ sec. cor., and raise
		a mound of stone around post, with brass cap, marked
	_	
	•	ន ^ខ ្មីន 9 1921
		1,7,6,1

Subdiv	rision of Township 41 North, Range 13 West.
chains.	·
51.40	Descend 225 ft., over N. slope on S. wall of canyon to wash, 50 lks. wide, course W. in bottom of Black Rock Canyon.
• •	Thence over canyon wall, facing Black Rock Canyon on the S. and Virgin River canyon on the W.
63.60	Ascend 75 ft. Descend 25 ft. Ascend 115 ft.to Set an irnn post, 3 ft.long, 2 ins. in diam., on bed rock,
80.00	with marked stone, for cor. of secs. 4,5, 8 and 9, and raise a mound of stone around post, with brass cap, marked
,	T41N K13W S 5 8 4 S 8 8 9
	1921
	Eand, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, sagebrush and black brush.
40.00 79.96	East, on a random line, bet. secs.4 and 9. Set temp. 4 sec. cor. Intersect N. and S. line, 9 lks.N. of the cor. of secs. 3,
	Thence, N.89°56'W., on a true line, bet. secs.4 and 9.
16.00	Over mountainous land, thru. scattering undergrowth. Along steep S.slope, on N.wall of Black Rock Canyon. Ascend 50 ft.
21.00 39.80	bescend 55 ft.to Set an iron post, 3 ft.long, 1 in. in diam., on bed rock, with marked stone, for witness cor. to \(\frac{1}{4}\) sec.cor., and raise a mound of stone around post, with brass cap, marked
	l
	WC1 S 4 S 9 1921
39 . 98	The true point for a sec.cor. falls where it cannot be monumented. Continue along N.wall of Black Rock Canyon, slope change
46.50 66.00	ing from S. to SW. Ascend of ft. to Thence descending slightly to Ascend 80 ft.
71.50 79.96	Descend 110 ft.to The cor. of secs. 4,5,8 and 9. Land, mountainous.
• •	Soil, rocky, 4th rate. No timber. Undergrowth, black brush and sagebrush.
4 0.00 80.02	N.0°2'E., on a random line, bet. secs.4 and 5. Set temp. 4 sec.cor. Fall 2 lks.E. of the cor.of secs. 4 and 5, and fracl.secs. 32 and 33, on the N. bdy.of Tp., hereinbefore described.
•	Thence, S.021'W., on a true line, bet. secs.4 and 5. Over mountainous land, thru. scattering undergrowth.
3 9.00	Descend 100 ft., over broken SE.slope, on N. or right wall of Virgin river canyon, bearing NE and SW. Foot of descent at N. or right bank of Virgin river, brs. NE. and SW. Thence across river.
40.02	The true point for 4 sec. cor. falls in Virgin River, 2,50

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Subdivision of Township 41 North
chains.
             chs, wide, course SW.
South.or left bank of Virgin river, brs.NE. and SW.
10 ft. to
  43.50
                                                                                                    Asc.
             Set an iron post, 3 ft.long, 1 in. in diam., on solid rock with marked stone, for witness cor. to \(\frac{1}{4}\) sec.cor., and
  45.52
                  raise a.mound of stone around post, with brass cap,
                  mærked
             Ascend 120 ft., over broken W. and NW. slope on S. or left wall of Virgin River Canyon.
 73.52
             Top of ascent overlooking Black Rock Canyon to the S. and
             Virgin River Canyon to the W. Descend 107 ft., to The cor. of secs. 4,5,8 and 9.
 80.02
             Land, mountainous.
             Soil, rocky, 4th rate.
             No timber.
             Undergrowth, black brush.
            From the standard cor. of secs. 31 and 32, on the S. bdy. of the Tp. (10th Std.Par.N.), hereinbefore described, N.0°3'W., bet. secs. 31 and 32.

Over mountainous land, thru. scattering undergrowth.
             Ascend 10 ft.
            Descend 105 ft.

Wash, 40 lks.wide, course N.45° E. Ascend 95 ft.

Ridge, brs.E. and W. Desc. 15 ft.to

Set an iron post, 3 ft.long, 1 in. in diam., 13 ins. in
the ground, with marked stone, for \(\frac{1}{4}\) sec.cor., and
   2.80
 19.20
38.60
 40.00
                  raise a mound of stone around post, with brass cap;
                marked
                                                 S31 IS32
                                                  1921
            Descend 85 ft.
  52.80
            Ascend 17 ft.
             Descend 50 ft. to
 57.80
80.00
            Set an iron post, 3 ft.long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 29,30,31 and 32, marked on
                  brass cap,
                                               T41N R13W
                                                 S30 | S29
                                               - S31 S32
                                                  1921
                 and raise a mound of stone, 2 ft.base, 12 ft.high, W.
                 of eor.
            Land, mountainous.
            Soil, rocky, 4th rate.
            No timber.
             Undergrowth, sagebrush, black brush and juniper:
           East, on a random line, bet. secs.29 and 32.

Set temp. ½ sec. cor.

Intersect N. and S. line, 7 lks.S. of the cor. of secs.

28, 29, 32 and 33.
 40.00
 80.18.
             Thence
            S.89°57'W., on a true line, bet. secs. 29 and 32.
Over mountainous land, thru. scattering undergrowth.
             Ascend 125 ft.
 16.49
            Spur, slopes S.20°E. Desc.75 ft.
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Subdivision of Township 41 North, Range 13
thains.
            Wash, 60 lks.wide, course S.20°E. Asc. 25 ft.to
Set an iron post, 3 ft.long, 1 in. in diam., 6 ins. in
the ground, with marked stone, for \( \frac{1}{4} \) sec. cor., and
raise a mound of stone around post, with brass cap,
35.00
 40.09
                 marked
           Ascend 85 ft.

N. end of ridge, brs.N. and S. Desc. 40 ft.

Wash, 45 lks.wide, course N.30°E. Ascend 25 ft.

Point of spur, slopes S. Descend.

An lks.wide. course S.40°E. Asc. 20
52.19
62.70
66.30
68.80
            Same wash, 40 lks.wide, course S. 40°E. Desc. 10 ft. to
74.80
80.18
            The cor. of secs. 29,30,31 and 32.
            Land, mountainous.
            Soil, rocky, 4th rate.
            No timber.
            Undergrowth, sagebrush and black brush.
                     West, on a random line, bet. secs.30 and 31.
            Set temp. 1/2 sec. cor.
Intersect the cor. of secs. 25,30, 31 and 36, on the W.bdy.
of the Tp., described in Book "F."
40.00
            East, on a true line, bet. secs. 30 and 31.
            Over mountainous land, thru. scattering undergrowth.
            Ascend 160 ft.
           Spur, slopes N. 20°W. Desc. 180 ft.
Bottom of canyon, course N.20°E. Asc. 75 ft.
Ridge, brs.N. and S. Desc. 60 ft. to
Set an iron post, 3 ft.long, 1 in. in diam., on bed rock,
with marked stone for a sec cor and roise a mound
13.00
25.20
29.20
40.00
                 with marked stone, for \frac{1}{4} sec. cor., and raise a mound of stone around post, with brass cap, marked
                                             \frac{1}{4} S 30
S 31
1921
            Desc. 275 ft.
            Draw, course N.25°E. Asc. 10 ft. Spur, slopes N.20°E. Desc.30 ft.
66.30
70.20
            Asc. 35 ft. to
 71.60
 80.00
            The cor. of secs. 29,30, 31 and 32.
            Land, mountainous.
            Soil, rocky, 4th rate.
            No timber.
            Undergrowth, black brush and sagebrush.
            N.0°3'W., bet. secs. 29 and 30.
            Over mountainous land, thru. scattering undergrowth.
            Ascend 30 ft.
18,99
38.30
40.00
            Fork of spur to NE. and SE. from SW. Desc. 175 ft.
            Wash, 70 lks.wide, course N.70°E. Asc. 15 ft.to
Set an iron post 3 ft.long, 1 in. in diam., on bed rock,
with marked stone, for 2 sec.cor., and raise a mound of
                 stone around post, with brass cap, marked
                                                 $30 $ $29
                                                   1921
           Ascend 50 ft.
Point of spur, slopes S. 60°E.
43.70
47.10
                                                              Desc. 25 ft.
            Asc. 87 ft.
54.20
```

Point of spur, slopes E. Desc. 60 ft.

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Subdivision of Township 41 North, Range 13 West.
Chains.
            Ascend 25 ft.

Ridge, brs. N. 80°E. and S. 80°W. Desc. 145 ft. to

Set an iron post, 3 ft.long, 2 ins. in diam., 20 ins. in the

ground, for cor. of secs. 19420, 29 and 30, marked on
67.00
73.70
80.00
                                                      T41N R13W
                                                        S19 | S20
                                                        S30 S29
                   and raise a mound of stone, 2 ft.base, 12 ft.high, W. of
                  .cor.
             Land, mountainous.
              Soil, rocky, .4th rate.
              No timber.
              Undergrowth, sage brush and black brush. .
              N.89°57'E., on a random line, bet. secs.20 and 29.
              Set temp. 4 sec. cor. Intersect N. and S. line, 7 lks. N. of the cor. of secs. 20, 21, 28 and 29.
 40.00
80.16
              Thence.
              West, on a true line, bet. secs. 20 and 29.

Over mountainous land, thru. scattering undergrowth.

Ascend 380 ft., over E. slope, to

Set an iron post 3 ft.long, 1 in. in diam., on bed rock,

with marked stone, for t sec. cor., and raise a mound

of stone around rock.
 40/08
                    of stone around post, with brass cap, marked
                                                       1 S 20 · S 29
                                                           1921
              Ascend 20 ft., over E. slope.
Ridge, brs.N.10°E. and S.10°W. Desc.55 ft., over W.slope.
Wash, 30 lks.wide, course N.15° E. Asc. 45 ft.
Point of spur, slopes N. 10°E. Desc.120 ft.
Wash, 40 lks.wide, course N.40°E. Asc. 80 ft.
Point of spur, slopes N. Desc.125 ft. to
 42.10
  46.10
 52.10
61.20
  69.10
80.16
               The cor. of secs. 19,20, 29 and 30.
               Land, mountainous.
               Soil, rocky, 4th rate.
               No timber.
               Undergrowth, sagebrush, black brush and Spanish dagger.
               West, on a random line, bet. secs. 19 and 30. Set temp. \frac{1}{4} sec. cor.
  40.00
               Fall 21 1ks.S. of the cor. of secs. 19,24, 25 and 30,
 79.99
                     on the W. bdy. of Tp., described in Book "F."
               S.89°51'E., on a true line, bet. secs.19 and 30.

Over mountainous land, thru. scattering undergrowth.

Ascend 375 ft., over cliffs, facing N.80°W.

Rim of cliffs. brs.N. 10°E. and S.10°W. Desc.115 ft.
    6.00
  19.40
31.00
39.90
               Ascend 85 ft.
               Ascend 05 It.

Ridge, brs.N.50°E. and S.50°W. Desc. 45 ft.to

Set an iron post, 3 ft.long, l in. in diam., on bed rock,

with marked stone, for \(\frac{1}{4}\) sec.cor., and raise a mound

of stone around post, with brass cap, marked

\(\frac{1}{4}\) S 19
                                                            S 30
                                                            1921
                Descend 210 ft.
               Wash, 40 lks.wide, course N.40°E. Asc: 40 ft.
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	Sv	abdivision of Township 41 North, Range 13 West. 51
	Chains. 6 0.7 0	Point of spur, slopes N.45°E. Desc. 210 ft.
	74.90	Wash, 80 lks.wide, course N.20°E., near.head of same. Ascend 10 ft.
	77•50 79•90	Descend 50 ft.to The cor. of secs. 19,20, 29 and 30.
	·	Land, mountainous. Soil, rocky, 4th rate.
	• 1	No timber
		N.0°3'W., bet. secs.19 and 20. Over mountainous land, thru. scattering undergrowth.
	4.50	Descend 25 ft. Wash. 90 1ks.wide. course N.60°E. Ascend 180 ft.
	31.50.	Point of spur, slopes S.80°E. Desc. 45 ft.to Set an iron post, 3 ft.long, 1 in. in diam., on bed rock,
		with marked stone, for $\frac{1}{4}$ sec.cor., and raise a mound of stone around post, with brass cap, marked
		\$19\s20
		1921
	•	Ascend 50 ft.
	52.70 79.85	Spur, slopes N. 85°E. Desc. 145 ft. to Set an iron post, 3 ft. long, 2 ins. in diam., on bedrock,
-		with marked stone, for witness cor. to cor. of secs. 17, 18, 19 and 20, and raise acmound of stone around post,
		with brass cap, marked W C
1		T41 N R13W S18 S17
		\$19 \$20 1921
	80.00	The true point for cor. of secs. 17, 18, 19 and 20 falls on
		face of small cliff, where it cannot be monumented. Land, mountainous.
		Soil, rocky, 4th rate. No timber.
		Undergrowth, sage brush and black brush.
		From the true point point for cor.of secs. 17,18,19 and
	•	East, on a random line, bet. secs. 17 and 20.
	20.82	Discontinue chaining at this point, owing to steep walls of a canyon, over which the line passes. Triangulate
·		as described as follows, and as shown on the diagram hereon:
	. •	Measure a Base North, 7.00 chs.
	•	Set flag ahead on random sec.line at E.rim of can-
	· · · · · · · · · · · · · · · · · · ·	yon. From N. end of base, flag brs. S.74°53'E.
	t * * * * * * * * * * * * * * * * * * *	Included angles are 74°53', 15°7' and 90°00', the sum
		of which is 180°00'. Triangulated distance on random line is obtained by
		Tang. 74°53!x Base. or 3.70188 x 7.00 = 25.91 chs., which added to 20.82 chs. gives 46.73 chs. E. from sec. cor.
	40.00	for position of flag point. Point for temp. 4 sec. cor. falls on face of cliff on E.
	· · · · · · · · · · · · · · · · · · ·	wall of canyon, and is inaccessible.

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Subdivision of Township 41 North, Range 13 West.
Chains.
  46.73
             Flag point of above described triangulation at E. rim of
             Set temp.witness cor. to \(\frac{1}{4}\) sec.cor. at this point.
             Continue line and measurement, by chaining.
  80.14
             Intersect N. and S line, 9 lks. S. of the cor. of secs. 16,
                  17, 20 and 21.
             Thence,
             S.89°56'W., on a true line, bet. secs.17 and 20.
Over mountainous land, thru. scattering undergrowth.
             Ascend 15 ft.
             Ridge, brs. N. and S. Desc. 115 ft. Wash, 35 lks.wide, course N.10° E. Descend 10 ft.
   1.80
  11.69
18.80
                                                                       Ascend 27 ft.
             Wash, 30 lks.wide, course N. Asc. 100 ft.
Ridge, brs. N. and S. Desc. 22 ft. to.
Set an iron post.3 ft.long, 1 in. in diam., on bedrock,
with marked stone, for witness cor. to 1 sec. cor., and
  22.50
30.10
  33.30
                  raise a mound of stone around, post, with brass cap,
                  marked
                                            WC1 S 17
             Descend slightly to
             Triangulation point at E. rim of canyon, brs. N and S.
  33.41
             Continue line and measurement by a triangulation for 25.91 chs., as hereinbefore described.
             Descend about 800 ft. over cliffs, on E. wall of canyon.
             True point for 1 sec. cor. on face of cliff, and inaccess
  40.07
                  ible.
             (Approximate) Wash, 70 lks.wide, course N. Ascend about 800 ft., over steep E.slope on W.wall of canyon.
Triangulation point on W. rim of canyon, bearing N. and S.
  42.00
  59.32
             Continue line and measurement by chaining.
             Ascend 57 ft.
             Spur, slopes N. Desc. slightly to

E. rim of canyon, brs. N. and S. Desc. 205 ft.

Bottom of canyon, course N. Asc. 165 ft. to

The true point for cor. of secs. 17, 18, 19 and 20, witnessed

0.15 chs. S. 0°3'E., as here inbefore described.
  64.30
60.20
  72.05
  80.14
             Land, mountainous.
             Soil, rocky, 4th rate.
             No timber.
             Undergrowth, black brush and cactus.
   From true point for cor. of secs. 17,18,19 and 020, N.89°51'W., on random line, bet. secs.18 and 19. Top of cliffs, bearing NE and SW. Steep descent over these cliffs renders chaining impracticable; therefore, triangulate as described as follows, and as shown on
                the diagram hereon:
                                                             Measure a Base, S.0°9'W.,
                                                                10.00 chs.
                                                              Set flag on random line be-
                                                                 yond the base of cliffs.
                                                             From S. end of base, flag brs. N. 71°01'W.
                                                              Included angles are 71,210', 18°50' and 90°00', the
                                                                                               the
                                                                 sum of which is 180°00'.
             Triangulated dist. on random sec.line is obtained by Tang. 71°10'x Base or 2.93189 x 10.00= 29.32 chs., which added to 12.70 chs. gives 42.02 chs. for the position
                 of the flag point on random sec. line.
             From flag point, measure S.89°51'E., 2.02 chs. to
  40.00 | Set temp. 2 sec.cor.
             Continue line and measurement, chaining the remainder
                  of the line.
```

sec. cor., and raise a mound of stone around post, with

brass cap, marked

	5 4 S:	ubdivision of Township Al war to the same as well
	Chains.	
	•	\$18 \$17
	•	W C 1921
	80.00	Continue line and measurement, by chaining. Desc. 380 ft.to Set an iron post, 3 ft.long, 2 ins. in diam., 4 ins. in the ground, with marked stone, for cor. of secs. 7,8,17 and 18, and raise a mound of stone around post, with brass cap, marked
		T41N R13W S 7 S 8 S18 S17
		······································
		Land, mountainous. Soil, rocky, 4th rate. No timber.
		Undergrowth, black brush.
	40.00	N.89°56°N.; Sin a spandom line, bet. secs.8 and 17.
	40.00	The east half of this sec. line passes over cliffs, and chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon: Set flag at cor. of secs. 7,
,	1	8,17 and 18. A flag set 2 lks.N.of cor. of secs.8,9,10 and 17, brs. N.89°50'E. from flag at cor.of secs.7,8,17 and 18; therefore, the falling of
		the random line projected is 2 lks. N. of the cor. of secs. 8,9,16 and 17. The true bearing of the sec.
		line is therefore, S. 89° 57° W. From point 2 lks N of cor
	c E C 5. 7°	From point 2 lks. N. of cor. of secs. 8,9,16 and 17,
	COR. OF 7+18	64.27 chs. From N. end of base, flag brs.
	•	Included angles are 51°14',90°00' and 38°46', the sum of which is 180°00'.
	80.03	Triangulated length of random sec. line is obtained by Tang. 51°14'x Base or 1.24523x 64.27= 80.03 chs. Triangulation point 2 lks.N. of cor. of secs. 8,9,16 and
		From cor. of secs. 8,9.16 and 17, S.89°57'W., on a true line, bet. secs. 8 and 17. Over mountainous land, thru. scattering undergrowth.
		Over cliffs, facing NW. Measurement to 40.03 chs. station by triangulation of entire line, as hereinbefore described, from which
	40.01½	station measure N.89° 57' E., 0.012 chs. to Set an iron post 3 ft.long, 1 in. in diam., 8 ins. in the ground. With marked stone for 2 sec.cor. and raise
		'a mound of stone around post, with brass cap, marked \[\frac{1}{4} \frac{S}{S} \frac{8}{17} \]
- [. ون	$\mathbf{p} \cdot 1$

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Subdivision of Township 41 North, Range 13 west.
hains.
           This cor. is at the foot of the cliffs, over which the
                East half of the sec.line passes.
           Continue line and measurement by chaining.
           E. rim of canyon, brs. N. and S.
40.03
           Descend 265 ft., over steep W.slope.
           Bottom of canyon, course N. Asc. 150 ft. w. rim of canyon, brs. N. and S. Asc. 05 ft. to The cor. of secs. 7,8,17 and 18.
52.45
68.00
80.03
           Land, mountainous.
           Soil, rocky, 4th rate.
           No timber.
           Undergrowth, black brush.
           N.89°55'W., on a random line, bet. secs. 7 and 18.
           Set temp. 1/2 sec. cor.

S. or left rim of Virgin River Canyon, brs. N. and S. Steep descent over cliffs on S. wall of canyon renders chaining impracticable; therefore, triangulate as described
40.00
 62.90
                as follows, and as shown on the diagram hereon:
                                                       Measure a Base, N. 0°5'E., 5.00
                                                           chs.
                                                       A flag set at 0.02 chs.N.of the cor.of secs.7,12,13 and 18, on W. bdy.of Tp., brs.N. 89°55'W. from triangulation point at 62.90 ch. station, on random sec.line, and is
                                               + N.89°55'W.
                                                         therefore, at the terminus
                                                           of said random line.
                                                        The true course of the sec.
           line is therefore S.89°50'E. From N. end of base, flag brs. S.73° 26'W. Included angles are 73°21', 90°90' and 16°39', the sum of
                which is 180°00'.
           Triangulated distance on random sec. line is obtained by Tang. 73° 21' x Base or 3.34377 x 5.00 = 16.72 chs., which added to 62.90 chs. gives 79.62 chs. as the total
                length of random line.
           Flag point of above described triangulation 2 lks.N.of the cor.of secs.7,12,13 and 18, on W. bdy. of Tp.described in Book "F."
79.62
           From cor. of secs. 7,12,13 and 18,
           5.89^{\circ}56'E., on true line, bet. secs. 7 and 18.
           Over mountainous land, thru. scattering undergrowth, in
                Virgin River canyon.
           Descend slightly to
           W.or right bank of Virgin River, brs. NE. and SW. Thence
  6.77
               across river, course SW. or left bank of Virgin River, brs. NE. and SW.
  8.30
           Discontinue chaining. Measurement to top of cliffs by triangulation from cor. of secs. 7, 12, 13 and 18, as here-
                 inbefore described.
           Ascend over steep high cliffs, bearing N. and S.facing W.
             on S. or left wall of Virgin River canyon.
16.72
           Triangulation point at S.or left rim of Virgin River Canyon,
                brs. N. and S.
           Continue line and measurement by chaining.
           Ascend 45 ft.
Descend 35 ft.
Ascend 30 ft.
19.60
22.60
           Spur, slopes N.10°W. Desc.115 ft.to
Set an iron post, 3 ft.long, 1 in. in diam., 4 ins. in the
ground, with marked stone, for 1 sec.cor., and raise
a mound of stone around post, with brass cap, marked
29.40
39.62
```

S 18 1921

Subdivision of Township Al North. Range 13 West Chains. Descend 45 ft. Gulch, course N. Ascend 200 ft. to The cor. of secs. 7,8,17 and 18. **49.82 79.62** Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, black brush. N.0°3'W., bet. secs. 7 and 8. Over mountainous land, thru. scattering undergrowth. Descend 218 ft. to South or left rim of Virgin River canyon, brs.E and W. . 25.05 Steep descent, over the canyon wall renders chaining impracticable: therefore, triangulate as described as follows, and as shown on the diagram hereon: From this point, measure a Base, N. 89°57' E., 6.00 chs. Set flag ahead on sec. line in bottom of canyon beyond the river. From E. end of Base, flag brs. N. 27°19'W. Included angles are 62°44', 90°00' and 27°16', the sum of which is 180°00'. Triangulated dist. on sec. line is obtained by Tang. 62°44!x Base, or 1.94023 x 6.00 = 11.64 chs., which added to 25.05 chs. gives 30.09 chs., N.0°3'W. from cor. of secs. 7,8,17 and 18, for the position of the flag point. From flag point chain measurement S.0°3'E. 5.99 chs. to center of Virgin river.150 lks.wide, course W. Continue line and measurement, by chaining.

Ascend slightly across bottom of Virgin River canyon.

Flag point of above described triangulation.

Set an iron post 3 ft.long, 1 in. in diam., on surface rock, with marked stone, for 2 sec.cor., and raise a mound of stone around nost with breas can marked mound of stone around post, with brass cap, marked. s 7[s 8 Leave bottom of Virgin kiver canyon, and commence to ascend, over rocky, broken surface of N. or right wall of said canyon. Ascend 12b ft. Ascend 120 it.

Point of rocky spur, slopes W.from N. Desc.90 ft.over

NW. slope of this spur, to

Ascend 195 ft., along W.slope of same spur, to

Set an iron post, 3 ft.long, 2 ins. in diam., on surface

rock, with marked stone, for cor. of secs. 5, 6, 7 and 8,

and raise a mound of stone around post, with brass. 54.20 62.70 cap, marked T41N R13W S 0 S 5 s 7 s 8 1921 Land, mountainous. Soil, rocky, 4th rate: No timber. Undergrowth, black brush.

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Subdivision of Township 41 North Range 13 West
Chains.
             N.89°57'E., on random line, bet. secs.5 and 8. set temp. 4 sec. cor. Intersect the cor. of secs. 4,5, 8 and 9,
 40.00
 80.18
             Thence,
S.89°57'W., on true line, bet. secs.5 and 8.
Over mountainous land, thru. scattering undergrowth, over
S.or left wall of Virgin River Canyon at its junction
                   with Nor right wall of Black Rock Canyon.
             Descend 185ft.
Ascend 75 ft.
Descend 105 ft. to
 10.70
17.10
32.68
             Foot of canyon wall, brs. NE. and SW. T level bottom of Virgin River Canyon.
                                                                                  Thence across nearly
 38.10
                     or left bank of Virgin River, brs. NE. and SW. Thence
             across river, course SW.

True point for $\frac{1}{4}$ sec.cor. falls in river.

W.or right bank of river, brs. NE and SW. Leave river and bottom of canyon, and ascend 95 ft. to

Set an iron post, 3 ft.long, 1 in. in diam., 5 ins. in the ground, with marked stone for witness cor. to $\frac{1}{4}$ sec.

cor., and raise a mound of stone around post, with
 40.09
 41.10
 45.18
                   brass cap, marked
                                                   $ 5 WC
              Continue over N. or right wall of Virgin River Canyon,
                   throughout the remainder of mile.
             Ascend 270 ft.to
Point of spur, sloping S. Desc. 290 ft.to
Head of gulch, course SE. Ascend 70 ft.
Spur, slopes S. Desc. 15 ft.to
 52.15
 71.80
 78.20
 80.18
             The cor. of secs. 5, 6,7 and 8.
              Land, mountainous.
             Soil, rocky, 4th rate.
             No timber.
             Undergrowth, sagebrush and black brush.
             N.89°50'W., on a random line, bet. secs.6 and 7. Set temp. 4 sec. cor.
 40,00
             Fall 5 lks.S. of the cor. of secs.1,6,7 and 12, on W.bdy. of Tp., described in Book "F."
 79.36
              Thence,
             S.89°54'E., on true line, bet. secs.6 and 7.
             Over mountainous land, thru. scattering undergrowth, along N.or right wall of Virgin River Canyon, throughout
                   the entire mile.
             Descend slightly to
  0.20
             Gulch, course SE. Ascend 200 ft.
7.95
19.55
25.85
35.00
39.36
             Descend 120 ft.
             Gulch, course S. Asc. 105 ft. Descend 35 ft. Ascend 35 ft.to
             Set an iron post, 3 ft.long, 1 in. in diam., on surface rock, with marked stone, for \( \frac{1}{2} \) sec.cor., and raise a mound of stone around post, with brass cap, marked
                                                      S 7
                                                       1921
             Ascend 95 ft.
Point of spur, sloping S. Desc. 185 ft.
49.85
56.00
             Ascend 20 ft.
62.25
             Descend 115 ft.
68.15
             Gulch, course SE. Asc. 65 ft. to The cor. of secs. 5, 6, 7 and 8.
79.36
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	bdivision of Township 41 North, Range 13 West.
Chains.	·
	Land, mountainous.
	Soil, rocky, 4th rate. No timber.
	Undergrowth, black brush.
•	
	N.0°1' E., on random line, bet. secs. 5 and 6.
40.00	Set temp. 1/4 sec. cor.
	Beyond this point, high cliffs bearing E. and W.facing S., rander chaining impracticable; therefore, triangulate
	as described as follows, and as shown on the diagram
	hereon:
	From this point, measure a
,	Base S. 89°59'E., 10.00 chs.
	Set flag ahead on random line
	at top of cliffs.
. 14	From E. end of Base, flag brs. N.21.29 W.
•	Included angles are 68°30',
i,	90°00' and '21°30', the sum
	of which is 180°00'. 40.00 100 10.00 Triangulated dist.on random
,	TEMP. 1/4 SEC. COR. 5.89 E9 E. + Sec. line is obtained by
	Tang. 68°30'x Base or 2.53865x 10.00= 25.39 chs., which
-	added to 40.00 chs.gives 65.39 chs. N.0°1'E.from cor. of secs. 5, 6, 7 and 8, for the position of the flag
	noint.
65.39	Flag point of above described triangulation at top of
	cliffs.
80.10	Continue line and measurement, by chaining. Fall 28 lks. W. of the cor. of secs. 5 and 6, and fracl. secs.
00.20	31 and 32 on N. bdy. of Tp., hereinbefore described.
	Thence,
	S.0213'W., on true line, bet. secs.5 and 6. Over mountainous land, thru. scattering undergrowth.
	Ascend 40 ft.
4.00	Desc. 95 ft. to
14.71	Triangulation point at N.or right rim of Virgin River Canyon, bearing E. and W.
	Thence over cliffs on N. wall of canyon, measuring to
	the 4 sec. cor. by triangulation, as hereinbefore de-
40.10	scribed. Triangulation point at foot of cliffs, Set an iron post,
7,000	3 ft.long, l in. in diam., on surface.rock.with marked
	stone, for \(\frac{1}{2} \) sec.cor., and raise a mound of stone around post, with brass cap, marked
	alound bosi, alai prass cab, marked.
· ·	
,	s 6 s 5
	1921
	Continue line and measurement, by chaining. Over N. or right wall of Virgin River canyon. Desc. 372
	ft. over rocky S. slope, to
80.10	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous.
116	Soil rocky, 4th rate. No timber.
	Undergrowth, sagebrush and black brush.
	At the state of th
	FINAL FIELD TESTS OF INSTRUMENTS.
	In ander to determine whether the transite are in setim
	In order to determine whether the transits are in satis- factory adjustment, test them on the meridian at camp
	in sec. 2 P. Al N. R. IZ W. C. and S. R. R. and M. lat. 360
	582'N.; long.113°402'W., using the meridian determined as described in Book "G."
	The grant of the Book and a second of the Book

Subdivision of Township 41 North, Range 13 West.

chains.

- At 9h.0m., a.m., l.m.t., April 29, 1921, set off 36°58½'

 N. on the lat.arcs; 14°20½'N. on the decl.arcs; and
 determine a meridian with each solar which agrees with
 the true meridian.
- At 3h.0m. p,m.,l.m.t, with the lat. arcs unchanged, set off 14°31½'N., on the decl.arcs; and determine a meridian with each solar which agrees with the true meridian.
- As all of the solar observations during the usual hours of solar work come within 1:30 of the true meridian conclude that the adjustments of the solars during the survey of this township have been satisfactory.

GENERAL DESCRIPTION.

This township is very rough, broken, mountainous land, traversed by deep canyons, the largest of which is the Virgin River Canyon, in which the Virgin River flows thru. the NW.corner of the Tp., draining with its tributaries Purgatory Canyon and Black Rock Canyon, practically the entire area of the Tp. Along these canyons, no areas of cultivable land are found, but only barren rocky land. A sparse growth of cactus and black brush finds sustenance our these denuded, rocky slopes. No one has settled in this township; a road, winding thru. secs. 24,25, and 36 from Black Rock Springs, Ariz. to St. George, Utah is the only encreachment of civilization. No mineral has been found in the township, and the only permanent water is in the Virgin river.

BOOK 3524

4--680

FIELD ASSISTANTS. to

Claude F. Warne	r, U. S. Transitman,
NAMES.	. CAPACITY.
Milhart W. Martain	lat about men
Gilbert W. Hunter, A. S. 40	lst chainman,
Francis Hinton,	lst chainman,
Kanute Jensen,	2nd chainman,
Isaac Alldradge,	cornerman,
Wesley Pierce,	axnan,
Lee Alldradge,	flagman.
	,

BOOK SERT

CERTIFICATE OF UNITED STATES TRANSITMAN.

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	ions received from the U.S. Surveyor General for Group 112, Arizona,	
pearing date of the	ne 29th day of September, 1920, I have well, faithfully,	and truly
n my own proper	r person, and in strict conformity with said instructions, the Manual of Surveyin	g Instruc-
	vs of the United States, surveyed all those parts or portions of the Subdivision	
	Township 41 North, Range 13 West,	
	·	
	of the Gila and Sal	lt River
	Meridian, in the State of, which are repr and by diagram on page 1 hereof d notes as having been executed by me, and under my direction; and that all the	
said survey have b	been established and perpetuated in strict accordance with the Manual of Surveying	ng Instruc-
tions, and the spe	ecial written instructions of the U.S. Surveyor General for Group 112, Arizo	na
and in the specific	ic manner described in the field notes, and that the foregoing are the original field	ld notes of
such survey	lena Mont Claud J. Wars N/9/1922 U. S. Transitman	ues
Day Jan	V/9/922 U. S. Transitman	
Date -7	- 	
	-APPROVAL.	
	-APPROVAL.	
	-APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL,	
	-APPROVAL.	, 191 -
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The foregoing	-APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL,	
The foregoing	-APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, g field notes of the survey of	
The foregoing	—APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Instructions dated Juntations dated	aving been
The foregoing Executed by under his special critically examine	OFFICE OF THE UNITED STATES SURVEYOR GENERAL, of field notes of the survey of l instructions dated od, and the necessary corrections and explanations made, the said field notes, and	aving been
The foregoing Executed by under his special critically examine	—APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Instructions dated Juntations dated	aving been
The foregoing Executed by under his special critically examine	OFFICE OF THE UNITED STATES SURVEYOR GENERAL, of field notes of the survey of l instructions dated od, and the necessary corrections and explanations made, the said field notes, and	aving been
The foregoing executed by under his special critically examine they describe, are	-APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, ag field notes of the survey of linstructions dated od, and the necessary corrections and explanations made, the said field notes, and the hereby approved.	aving been

03

285

FIELD ASSISTANTS. to

Joseph P. Davis,	U.S. Cadastral Angineer.
NAMES.	CAPACITY.
Rogerod, Wilson, a land, page la.	lst chainman,
Irving Isom,	2nd chainman,
Thos. J. Lund.	cornerman,
Howard H.Briggs,	axeman,
Jay Pierce,	
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CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

I, Joseph P	Davis, U.	S. Cadastral Eng	$\mathtt{ineer}_{\mathscr{F}_{j}}_{\mathrm{her}}$	eby certify upon honor that, in pursuance
f special instructio	ns received from	m the U.S. Surveyor	General, for	Group 112, Arizona,
earing date of the	29th	day of Septemb	er ,	1920, I have well, faithfully, and truly
n my own proper j	person, and in	strict conformity with	h said instru	ctions, the Manual of Surveying Instruc-
ions, and the laws	of the United S	States, surveyed all th	nose parts or	portions of the Tenth Standard
•				North boundaries, and the
Subdivision li	nes of			
	Townsh	ip 41 North, Ran	ge 13 West	,
				of the Gila and Salt River
Base and				which are represented in
he foregoing field	and by dia notes _x as having	gram on page 1 h been executed by m	e, and under	my direction; and that, all the corners of
aid survey have be	en established	and perpetuated in st	rict accordar	nce with the Manual of Surveying Instruc-
	•			eneral for Group 112, Arizona,
				ne foregoing are the original field notes of
. 1	,		,	
Place - =	Bound, So		Ja	S. Cadastral Engineer
Date -	centary 4 6,	.y> <u>-</u>	// U•	S. Cadastral Engineer
		APPR	OVAL.	
•		OFFICE OF	THE UNITED	STATES SURVEYOR GENERAL,
			Phoen	ix, Arizona, January 25, 1922
The foregoing	field notes of t	he survey of _the_Te	enth Stand	ard Parallel North through Range
13 West, the	North and E	ast boundaries,	end Subdiv	ision lines of
	Tow	nship 41 North,	Range 13 W	est,
	of the Gila	and Salt River	Base and M	eridian,
				nd Claude F. Warner, U.S. Transit
				for Grp. 112, Arizo, having been made, the said field notes, and the surveys
they describe, are			. Aprilia di Oils	The same state and the same state of the same st
	- 		Stru	ncetrot
				U. S. Surveyor General
Trantify that	the foregoing t	ranscript of the field i	notes of the	bove-described surveys-in