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SEP 21 1910

179

(1)

Subdivisional  
Book E

2375

BOOK 2375

SEP 24 1913

# FIELD NOTES

79210

OF THE SURVEY OF THE

A PARTIAL

SUBDIVISION OF T 20 N R 19 W

Of the Gila and Salt River Base and Meridian,

ARIZONA

AS SURVEYED BY

William B. Alexander, United States Deputy Surveyor,

Under his Contract No. 156, dated May 26, 1909, 19

Survey commenced June 10, 1910, 19

Survey completed June 15, 1910, 19

BOOK 2375

For NAMES AND DUTIES OF ASSISTANTS.

*See Subdivisional Books "B" and "G"*

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1A

BOOK 2375

INDEX DIAGRAM.

Township 20 N, Range 19 W

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For these 3 Miles see Supplemental Notes Book "E"

Meanders Page \_\_\_\_\_

For PRELIMINARY OATHS OF ASSISTANTS.  
See Subdivisional Books "B" and "G"

WE, \_\_\_\_\_ and \_\_\_\_\_  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tully pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of \_\_\_\_\_  
\_\_\_\_\_, Chainman.  
\_\_\_\_\_, Chainman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 19 \_\_\_\_\_ }



WE, \_\_\_\_\_ and \_\_\_\_\_  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_  
\_\_\_\_\_, Moundman.  
\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 19 \_\_\_\_\_ }



WE, \_\_\_\_\_ and \_\_\_\_\_  
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_  
\_\_\_\_\_, Axman.  
\_\_\_\_\_, Axman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 19 \_\_\_\_\_ }



I, \_\_\_\_\_, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of \_\_\_\_\_  
\_\_\_\_\_, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 19 \_\_\_\_\_ }



Chains.

Survey commenced June 10, 1910, and was executed with a Young and Sons' light mountain transit No. 7520, with a Smith Solar Attachment. The horizontal limb is provided with two double verniers placed opposite to each other, and reading to single minutes of arc, which is also the least reading of the latitude and declination arcs of the solar attachment.

The instrument was examined, tested on a true meridian at Phoenix, Arizona, found correct, and approved by the Surveyor General for Arizona, June 25, 1904.

I examine all of the adjustments of the transit, and find them correct, and then in order to test the solar apparatus by comparison of a.m. and p.m. observations with a true meridian deflected from a Polaris observation at elongation, I proceed as follows:

At the cor. of secs. 1, 2, 35 and 36 on the S. boundary of T. 20 N. R. 10 W. recently established by me, and described, I set off 35° 04 1/2' N. on the lat. arc; this being the latitude of the place; 23° 01 1/2' N. on the decl. arc; and at 4h. 00m. p.m., l.m.t., determine a meridian with the solar, and mark the line thus determined by a tack driven in a stake set about five chains N. of my station.

June 10, 1910.

June 11, 1910. At 2h. 12m. a.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark the line thus secured by a tack driven in a stake set about 5.00 chains north of my station to the east of the stake driven last night after the solar observation.

At 5h. 00m. a.m., l.m.t., I turn off 1° 26' W., and mark the true meridian thus determined by a tack driven in the same stake set yesterday afternoon at 4h. 00m. p.m., The p.m. solar observation marks a meridian 0.1 of an inch west of the true meridian.

At 7h. 00m. a.m., l.m.t., I set off 35° 04 1/2' N. on the lat. arc; 23° 04 1/2' N. on the decl. arc, and determine a meridian with the solar. This, the a.m. observation falls 0.15 inch east of the true meridian. I conclude the observations and declare the instrument in satisfactory adjustment throughout.

Thence I run, N. 0° 14' E., bet. secs. 35 and 36. Over rolling land, covered with dense undergrowth of greasewood, catclaw and yucca.

Descend.

- 1.50 Wash, 10 lks. wide, course E.
- 21.00 Gulch, 30 lks. wide, course S. 70° E.
- 28.50 Draw, course SE.
- 39.00 Wash, 20 lks. wide, course E.
- 40.00 Set a granite stone 7x9x16 ins., 11 ins. in the ground, for the 1/4 sec. cor., marked 1/4 on the W. face, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
- 46.00 Wash, 50 lks. wide, course SE.
- 70.00 Wash, 150 lks. wide, course SE.
- 80.00 Set a granite stone 7x9x14 ins., 10 ins. in the ground for the cor. of secs. 25, 26, 35 and 36, marked with 1 notch on the E. and S. edges, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, rolling.  
Soil, 3rd rate, stony,  
Dense undergrowth of greasewood, cactus, and yucca.  
No timber or grass.  
Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

2. Subdivision of Township 20 North, Range 10 West.

Chains.

Thence I run,  
 East, on a random line, bet. secs. 25 and 36.  
 40.00 Set a temp.  $\frac{1}{4}$  sec. cor.  
 79.94 Intersect the Fifth Guide Meridian West, 23 lks. south of  
 the cor. of secs. 25, 30, 31 and 36, a lava stone 6 ins.  
 above ground, marked and witnessed as described by the  
 Surveyor General. Thence I run,  
 S. 89° 50' W. on a true line, bet. secs. 25 and 36.  
 Over rolling land, covered with dense undergrowth of  
 greasewood, cactus, and catsclaw.  
 27.00 Gulch, 30 lks. wide, course SE.  
 39.97 Set a malpais stone 8x10x20 ins., 15 ins. in the ground,  
 for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the N. face, and raise  
 a mound of stones 3 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
 Pits impracticable.  
 53.00 Gulch, 50 lks. wide, course SE.  
 79.94 The cor. of secs. 25, 26, 35 and 36, hereinbefore described.  
 Land, rolling.  
 Soil, 2nd and 3rd rate.  
 Dense undergrowth of greasewood, cactus, and catsclaw.  
 No timber or grass.  
 Rolling land, covered with dense undergrowth, and excep-  
 tionally difficult to survey, 79.94 chains.

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 At noon, I set off 23° 04 $\frac{1}{2}$ ' N. on the decl. arc, and determine  
 the lat. with the solar by observing the sun on the  
 meridian at the cor. of secs. 25, 26, 35 and 36. The lat.  
 reading is 35° 05' N.

Thence I run,  
 N. 0° 04' W., bet. secs. 25 and 26.  
 Over rolling land, covered with dense undergrowth of  
 greasewood, cactus, and catsclaw.  
 18.50 Draw, course E.  
 25.20 Wash, 15 lks. wide, course E.  
 40.00 Set a granite stone 6x12x30 ins., 24 ins. in the ground  
 for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the W. face, and raise  
 a mound of stones 3 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 45.00 Wash, 40 lks. wide, course SE.  
 70.00 Wash, 20 lks. wide, course SE.  
 75.00 Wash, 15 lks. wide, course SE.  
 80.00 Set a granite stone 6x8x15 ins., 10 ins. in the ground  
 for the cor. of secs. 23, 24, 25 and 26, marked with 1  
 notch on the E. and 2 notches on the S. edges, and raise  
 a mound of stones 3 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Land, rolling.  
 Soil, 3rd rate, stony.  
 Dense undergrowth of greasewood, cactus, and catsclaw.  
 No timber or grass.  
 Rolling land, covered with dense undergrowth, and excep-  
 tionally difficult to survey, 80.00 chains.

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 Thence I run,  
 N. 89° 50' E., on a random line, bet. secs. 24 and 25.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.92 Intersect the Fifth Guide Meridian West, 14 lks. N. of the  
 cor. of secs. 19, 24, 25 and 30, a lava stone, 5 ins. above  
 ground, marked and witnessed as described by the Sur-  
 veyor General.  
 Thence I run,  
 N. 89° 56' W. on a true line, bet. secs. 24 and 25.  
 Over rolling land, covered with dense undergrowth of  
 greasewood, yucca, and catsclaw.  
 17.00 Draw, course SE.  
 29.50 Draw, course SE.  
 35.00 Wash, 30 lks. wide, course S. 60° E.  
 37.50 Wash, 30 lks. wide, course N. 80° E.

Chains.  
 39.96 Set a malpais stone 6x7x18 ins., 12 ins. in the ground for the  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on the N.face, and raise a mound of stones 3 ft.base, 1 $\frac{1}{2}$  ft. high, N.of cor. Pits impracticable.  
 70.00 Gulch, course SE.  
 79.92 The cor.of secs. 23,24, 25 and 26, hereinbefore described. Land, rolling. Soil, 2nd rate, Dense undergrowth of greasewood, cactus and catsclaw, and some yucca. No timber or grass. Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 79.92 chs.

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 Thence I run, N.0°04'W., bet. secs.23 and 24. Over rolling land, cut by many washes. Dense undergrowth of greasewood, cactus,catsclaw, and yucca.  
 9.00 Wash, 20 lks.wide, course E.  
 18.00 Wash, 15 lks.wide, course E.  
 38.00 Wash, 10 lks.wide, course E.  
 40.00 Set a granite stone 6x8x15 ins., 10 ins. in the ground for the  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on the W.face, and raise a mound of stones 3 ft.base, 1 $\frac{1}{2}$  ft. high,W.of cor. Pits impracticable.  
 52.80 Wash, 30 lks.wide, course SE.  
 67.50 Draw, course E.  
 80.00 Set a granite stone 8x10x20 ins., 15 ins. in the ground, for the cor.of secs.13,14,23 and 24, marked with 1 notch on the E. and 3 notches on the S.edges, and raise a mound of stones 3 ft.base, 1 $\frac{1}{2}$  ft. high,W.of cor. Pits impracticable. Soil, 3rd rate; land rolling. Dense undergrowth of greasewood, yucca, and catsclaw. No timber or grass. Rolling land, covered with dense undergrowth, and exceptionally difficult to survey,80.00 chains.  
 June 11,1910.

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~~June 12, 1910.  
 Thence I run, N.88°56'E., on a random line, bet. secs.13 and 24.  
 40.00 Set a temp.  $\frac{1}{4}$  sec.cor.  
 79.90 Intersect the Fifth Guide Meridian West, 9 lks.north of the cor.of secs.13,18,19 and 24, recently reestablished and described by me. Thence I run, West, on a true line, bet. secs.13 and 24. Over rolling land, covered with dense undergrowth of greasewood, cactus, catsclaw and yucca.  
 14.00 Draw, course S.70°E.  
 29.00 Draw, course N.70°E.  
 39.96 Set a granite stone 6x7x15 ins., 10 ins. in the ground for the  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on the N.face, and raise a mound of stones 3 ft.base, 1 $\frac{1}{2}$  ft. high, N.of cor. Pits impracticable.  
 64.70 Draw, course SE.  
 79.90 The cor.of secs.13,14,23 and 24, hereinbefore described. Land, rolling; soil, 3rd rate. Dense undergrowth of greasewood, cactus, catsclaw, and yucca. No timber or grass. Rolling land, covered with dense undergrowth and exceptionally difficult to survey,79.90 chains.~~

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 Thence I run, N.0°04'W., bet. secs. 13 and 14.

FOR THIS MILE SEE SUPPLEMENTAL SUBDIVISIONAL BOOK "E" PAGE 1

4. Subdivision of Township 20 North, Range 59 West.

Chains.

Over mountainous land, covered with dense undergrowth of greasewood, yucca and cactus.  
 Descend.  
 10.00 Gulch, 30 lks.wide, course E.; ascend.  
 15.00 Descend.  
 22.00 Gulch, 20 lks.wide, course E.  
 24.00 Wash, 70 lks.wide, course E.  
 40.00 Set a granite stone 5x10x18 ins., 12 ins. in the ground for the  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on the W.face, and raise a mound of stones 3 ft. base, 1 $\frac{1}{2}$  ft. high,W.of cor. Pits impracticable.  
 44.60 Wash, 20 lks.wide, course E. Ascend.  
 52.00 Ridge, brs.E.and W.; descend.  
 62.00 Draw, course E.; ascend.  
 65.00 Ridge, brs.E.and W.; descend.  
 70.00 Wash, 1.00 chain wide, course S.75°W.; ascend.  
 78.00 Ridge, bears E.and W.; descend.  
 80.00 Set a malpais stone 10x10x15 ins., 10 ins. in the ground for the cor.of secs.11,12,13 and 14, marked with 1 notch on the E.and 4 notches on the S.edges, and raise a mound of stones 3 ft.base, 1 $\frac{1}{2}$  ft. high,W.of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, 3rd rate, stony.  
 Dense undergrowth of greasewood, cactus, and yucca.  
 No timber or grass.  
 Mountainous land, covered with dense undergrowth and exceptionally difficult to survey,80.00 chains.

At 9h.30m.a.m., 1.m.t., I set off 35°08'N.on the 1st arc; 23°8 $\frac{1}{2}$ 'N. on the decl. arc, and determine a meridian with the solar at the cor.cor secs.11,12,13 and 14, hereinbefore described.

Thence I run,  
 East, on a random line, bet.secs.12 and 13.  
 40.00 Set a temp.  $\frac{1}{4}$  sec.cor.  
 80.02 Intersect the Fifth Guide Meridian West 6 lks.N.of the cor.of secs.7,12,13 and 18, recently reestablish and described by me. Thence I run,  
 N.89°57'W., on a true line, bet. secs.12 and 13.  
 Over rolling land, covered with dense undergrowth of greasewood, cactus, and catsclaw:  
 9.00 Wash, 20 lks.wide, course SE.  
 40.01 Set a granite stone 6x8x12 ins., 8 ins. in the ground for the  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on the N.face, and raise a mound of stones 3 ft.base, 1 $\frac{1}{2}$  ft. high,N.of cor. Pits impracticable.  
 80.02 The cor.of secs.11,12,13 and 14, hereinbefore described.  
 Land, rolling.  
 Soil, 2nd rate.  
 Dense undergrowth of greasewood, cactus and catsclaw.  
 No timber or grass.  
 Rolling land covered with dense undergrowth, and difficult to survey,80.02 chains.

Thence I run,  
 N.0°04' W., bet. secs. 11 and 12.  
 Over rolling land, covered with dense undergrowth of greasewood and cactus.  
 Land, cut by numerous washes.  
 14.80 Wash,20 lks.wide, course E.  
 19.00 Ridge brs.E.and W.; descend.  
 24.00 Wash, 20 lks.wide, course E.  
 38.50 Wash, 20 lks.wide, course E.  
 40.00 Set a tufa rock 7x8x18 ins., 12 ins. in the ground for the  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on the W.face, and raise a mound of stones 3 ft.base, 1 $\frac{1}{2}$  ft. high,W.of cor.

FOR THIS MILE SEE SUPPLEMENTAL SUBDIVISIONAL BOOK "E" PAGES 1 & 2



Subdivision of Township 20 North, Range 19 West. 5.

Chains .

Pits impracticable.

44.00 Draw, course SE.

47.00 Low ridge, brs. SE. and NW.

75.00 Wash, 10 lks. wide, course SE.

80.00 Set a granite 6x9x14 ins., 10 ins. in the ground for the cor. of secs. 1, 2, 11 and 12, marked with 1 notch on E & 5 notches on S. edges, and dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Rolling land. Soil, 2nd rate.

Dense undergrowth of greasewood, caefus, and catsclaw.

No timber or grass.

Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

Thence I run, S. 89° 57' E., on a random line, bet. secs. 1 and 12.

40.00 Set a temp. 1/4 sec. cor.

80.00 Intersect the Fifth Guide Meridian West, 2 lks. N. of the cor. of secs. 1, 6, 7 and 12, recently reestablished & described by me.

Thence I run, N. 89° 56' W., on a true line, bet. secs. 1 and 12.

Over rolling land, covered with dense undergrowth of tall greasewood and with scattering grass.

Ascend.

15.00 Ridge, brs. NW. and SE. Descend.

26.00 Wash, 15 lks. wide, course SE.

32.80 Wash, 30 lks. wide, course SE.

38.80 Wash, 30 lks. wide, course SE.

40.00 Set a granite stone 7x8x15 ins., 10 ins. in the ground for the 1/4 sec. cor., marked 1/4 on the N. face, and dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

80.00 The cor. of secs 1, 2, 11 and 12, hereinbefore described.

Land, rolling.

Soil, 2nd rate.

Dense undergrowth of greasewood and cactus.

No timber, and but little scattering grass.

Rolling land, covered with dense undergrowth and difficult to survey, 80.00 chains.

Thence I run, N. 0° 04' W. on a true line, bet. secs. 1 and 2.

Over rolling land covered with dense tall greasewood, and with a small amount of scattering grass.

20.76 Wash, 20 lks. wide, course E.

24.76 Wash, 15 lks. wide, course E.

40.00 Set a granite stone 8x9x12 ins., 8 ins. in the ground for the 1/4 sec. cor., marked 1/4 on the W. face, and dig pits 18x18x12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

44.25 Wash, 15 lks. wide, course SE.

75.00 Wash, 10 lks. wide, course S. 75° E.

80.76 Intersect the Fifth Standard Parallel North, 3.36 chs. W. of the Standard 1/4 sec. cor. south of sec. 36, which is a malpais stone 9 ins. above ground, marked and witnessed as described by the Surveyor General.

Set a granite stone 6x6x15 ins., 10 ins. in the ground for closing corner of secs. 1 and 2, marked C. C. on the S., with 1 groove on the E. and 5 grooves on the W. face; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft., and S. of stone 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor.

Land, rolling.

Soil, 2nd rate.

Dense undergrowth of tall greasewood.

FOR THIS MILE SEE SUPPLEMENTAL SUBDIVISIONAL BOOK "E" PAGE 2

6. Subdivision of Township 20 North, Range 19 West.

Chains.

No timber and but little grass.  
Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.76 chains.

At noon, I set off  $23^{\circ} 09' N$ . on the decl. arc, and determine the latitude by an observation on the sun on the meridian at the closing corner of secs. 1 and 3, on the Fifth Standard Parallel North. The latitude reading is  $35^{\circ} 09 \frac{1}{2}' N$ .

I then proceed to the cor. for secs. 2, 3, 34 and 35, on the S. bdy. of the township, recently established and described by me, and run

$N. 0^{\circ} 14' W.$ , bet. secs. 34 and 35.

Descend over rolling land, covered with dense greasewood and catsclaw.

- 1.00 Gulch, 10 lks. wide, course E.
- 5.70 Wash, 40 lks. wide, course E.
- 25.50 Draw, course E.
- 36.00 Gulch, 10 lks. wide, course E.
- 40.00 Set a granite stone  $6 \times 8 \times 16$  ins., 11 ins. in the ground for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the W. face, and raise a mound of stone 3 ft. base,  $1 \frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 47.00 Draw, course E.
- 52.00 Gulch, 10 lks. wide, course E.
- 60.30 Wash, 1550 chs. wide, course E.
- 80.00 Set a granite  $6 \times 8 \times 15$  ins., 10 ins. in the ground for the cor. of secs. 26, 27, 34 and 35, marked with 2 notches on the E. and 1 notch on the S. edges, and raise a mound of stones 3 ft. base,  $1 \frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Rolling land.

Soil, 2nd and 3rd rate.

Dense undergrowth of greasewood and catsclaw.

No timber or grass.

Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

Thence I run,

East, on a random line, bet. secs. 26 and 35.

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

79.98 Intersect the N. and S. line, 6 lks. S. of the cor. of secs. 25, 26, 35 and 36, hereinbefore described.

Thence I run,

$S. 89^{\circ} 57' W.$ , on a true line, bet. secs. 26 and 35.

Over rolling land, covered with dense undergrowth of greasewood, catsclaw and yucca.

6.60 Wash, 1.00 chain wide, course SE.

10.20 Wash, 40 lks. wide, course SE.

21.00 Wash 30 lks. wide, course SE.

39.99 Set a granite stone  $8 \times 9 \times 12$  ins., 8 ins. in the ground for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the N. face, and raise a mound of stones 3 ft. base,  $1 \frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

79.98 The cor. of secs. 26, 27, 34 and 35, hereinbefore described.

Land, rolling.

Soil, 3rd rate.

Dense undergrowth of greasewood, catsclaw and yucca.

No timber or grass.

Rolling land, covered with dense undergrowth and exceptionally difficult to survey, 79.98 chains.

June 12, 1912.

Subdivision of Township 20 North, Range 19 West.

Chains.

June 13, 1910.  
 Thence I run,  
 N.0°04' W., bet. secs. 26 and 27.  
 Over mountainous land, cut by gulches. Descend.  
 Dense undergrowth of greasewood, cactus, catsclaw, and yucca.

13.50 Wash, 1.00 chain wide, course N.70° E. Ascend.  
 18.00 Ridge, brs. E. and W., slopes down to East. Descend.  
 26.50 Wash, 20 lks. wide, course E.; ascend.  
 29.60 Gulch, 10 lks. wide, course E.  
 40.00 Set a granite stone 7x6x15 ins., set 10 ins. in the ground for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the W. face, and raise a mound of stones 3 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

42.50 Wash, 15 lks. wide, course SE.  
 51.80 Draw, course E.  
 61.50 Draw, course E.  
 69.70 Wash, 60 lks. wide, course E.  
 80.00 Set a granite stone 6x9x17 ins., 12 ins. in the ground for the cor. of secs. 22, 23, 26 and 27, marked with 2 notches on the S. and E. edges, and raise a mound of stones 3 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Mountainous land, cut by gulches.  
 Soil, 3rd rate, stony.  
 Dense undergrowth of greasewood, cactus, and catsclaw.  
 No timber or grass.  
 Mountainous land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

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Thence I run,  
 N.89°57'E., on a random line, bet. secs. 23 and 26.

40.00 Set a temp.  $\frac{1}{4}$  sec. cor.  
 80.02 Intersect the N. and S. line 4 lks. N. of the cor. of secs. 23, 24, 25 and 26, hereinbefore described. Thence I run, S.89°59'W., on a true line, bet. secs. 23 and 26.  
 Over rolling land, covered with dense undergrowth of greasewood, and some cactus.  
 Ascending.

10.30 Gulch, course SE.  
 31.00 Gulch, course SE.  
 35.50 Gulch, course SE.  
 40.01 Set a granite stone 6x8x14 ins., 10 ins. in the ground for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the N. face, and raise a mound of stones 3 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

60.26 Wash, 30 lks. wide, course SE.  
 71.50 Draw, course SE.  
 80.02 The cor. of secs. 22, 23, 26 and 27, hereinbefore described.  
 Land, rolling.  
 Soil, 2nd and 3rd rate.  
 Dense undergrowth of greasewood and cactus.  
 No timber or grass.  
 Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.02 chs.

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At 9h.30m., a.m., 1.m.t., I set off 35° 06' N. on the lat. arc; 23°12' N. on the decliare, and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27, hereinbefore described.

Thence I run,  
 N.0°04' W., bet. secs. 22 and 23.

Over rolling land, covered with dense undergrowth of greasewood, catsclaw and cactus.

40.00 Set a granite stone 6x8x18 ins., 12 ins. in the ground for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the W. face, and raise a mound of stones 3 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

8. Subdivision of Township 20 North, Range 19 West.

Chains.

Pits impracticable.  
 48.50 Draw, course SE.  
 58.30 Gulch, 10 lks. wide, course S, 70° E.  
 80.00 Set a granite stone 6x9x18 ins., 12 ins. in the ground for the cor. of secs. 14, 15, 22 and 23, marked with 2 notches on the E. and 3 notches on the S. edges, and raise a mound of stones 3 ft. base, 1½ ft. high, W. of cor. Pits impracticable.  
 Over rolling land.  
 Dense undergrowth of greasewood, catsclaw, and cactus.  
 Soil, 3rd rate.  
 No timber or grass.  
 Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

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 Thence I run,  
 N. 80° 59' E. on a random line, between secs. 14 and 23.  
 40.00 Set a temp. ¼ sec. cor.  
 80.00 Intersect the N. and S. line, 3 lks. N. of the cor. of secs. 13, 14, 23 and 24 hereinafore described. Thence I run, West, on a true line, between secs. 14 and 23.  
 Over rolling land, covered with dense undergrowth of greasewood, catsclaw, cactus and yucca.  
 40.00 Set a granite stone 7x8x18 ins., 12 ins. in the ground for the ¼ sec. cor., marked ¼ on the N. face, and raise a mound of stones 3 ft. base, 1½ ft. high, N. of cor. Pits impracticable.  
 68.00 Wash, 30 lks. wide, course SE.  
 76.50 Draw, course S. 75° E.  
 80.00 The cor. of secs. 14, 15, 22 and 23, hereinbefore described.  
 Land, rolling.  
 Soil, 3rd rate.  
 Dense undergrowth of greasewood, cactus, and catsclaw, with scattering yucca.  
 No timber or grass.  
 Rolling land, covered with dense undergrowth, and exceptionally difficult to survey 80.00 chains.

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 Thence I run,  
 N. 0° 04' W., bet. secs. 14 and 15.  
 Over sharply rolling land, covered with dense undergrowth of greasewood, cactus, and yucca.  
 Ascend.  
 15.00 Ridge, brs. E. and W. Descend.  
 21.80 Wash, 10 lks. wide, course E. Ascend.  
 40.00 Set a granite stone 7x10x14 ins., 10 ins. in the ground for the ¼ sec. cor., marked ¼ on the W. face, and raise a mound of stones 3 ft. base, 1½ ft. high, W. of cor. Pits impracticable.  
 45.00 Ascend.  
 49.40 Wash, 1.20 chs. wide, course E.  
 53.00 Top of long descent.  
 61.00 Draw, course E.  
 80.00 Set a granite stone 7x9x12 ins., 8 ins. in the ground for the cor. of secs. 10, 11, 14 and 15, marked with 2 notches on the E. and 4 notches on the S. edges, and raise a mound of stones 3 ft. base, 1½ ft. high, W. of cor. Pits impracticable.  
 Land, sharply rolling.  
 Soil, 3rd rate.  
 Dense undergrowth of greasewood, cactus and yucca.  
 No timber or grass.  
 Sharply rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

Subdivision of Township 20 North, Range 19 West.

Chains.

At noon, at the above cor. I set off  $23^{\circ} 12\frac{1}{2}' N.$  on the decl. arc, and observe the sun on the meridian; the resulting latitude reading is  $35^{\circ} 08' N.$

Thence I run,  
East, on a random line, between secs. 11 and 14.

40.00 Set temporary  $\frac{1}{4}$  sec. cor.  
79.99 Intersect the N. and S. line, 3 lks. N. of the corner of secs. 11, 12, 13 and 14, hereinbefore described.

Thence I run,  
 $N. 88^{\circ} 59' W.$ , on a true line, between secs. 11 and 14.  
Over rolling land, covered with dense undergrowth of greasewood, catsclaw and yucca.

30.10 Wash, 20 lks. wide, course SE.  
39.99 $\frac{1}{2}$  Set a granite stone  $8 \times 10 \times 15$  ins., 10 ins. in the ground for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the N. face, and raise a mound of stones 3 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Pits impracticable.

47.50 Wash, 10 lks. wide, course S,  $75^{\circ} E.$   
79.90 The cor. of secs. 10, 11, 14 and 15, hereinbefore described.  
Land, rolling. Soil, 2nd class.  
Dense undergrowth of greasewood, cactus, catsclaw and yucca.  
No timber or grass.  
Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 79.99 chains.

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Thence I run,  
 $N. 0^{\circ} 04' W.$ , bet. secs. 10 and 11.  
Over descending rolling land, covered with dense undergrowth of greasewood, yucca, cactus, and cut by several washes.

5.00 Wash, 1.00 chain wide, course E.  
36.50 Wash, 20 lks. wide, course N.  $70^{\circ} E.$   
40.00 Set a granite stone,  $10 \times 12 \times 17$  ins., 12 ins. in the ground for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the W. face; and dig pits  $18 \times 18 \times 12$  ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

53.00 Gulch, 10 lks. wide, course E.  
60.00 Draw, course E.  
65.00 Draw, course E.  
67.00 Draw, course E.  
80.00 Set a malpais stone  $6 \times 7 \times 15$  ins., 10 ins. in the ground for the cor. of secs. 2, 3, 10 and 11, marked with 2 notches on the E. and 5 notches on the S. edges; dig pits,  $18 \times 18 \times 12$  ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.  
Land, rolling and cut by washes and gulch.  
Soil, 2nd rate.  
Dense undergrowth of greasewood, yucca and cactus.  
No timber or grass.  
Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

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Thence I run,  
 $S. 89^{\circ} 59' E.$ , on a random line, bet. secs. 2 and 11.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.00 Intersect N. and S. line at a point 3 lks. S. of the cor. of Secs. 1, 2, 11 and 12, hereinbefore described.

Thence I run,  
West, on a true line, bet. secs. 2 and 11.  
Over rolling land, covered with dense undergrowth of greasewood, very tall, and some scattering cactus.

9.00 Wash, 10 lks. wide, course SE.  
14.80 Wash, 15 lks. wide, course SE.

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BOOK 2375

10. Subdivision of Township 20 North Range 19 West.

Chains.

40.00 Set a granite stone, 7x8x12 ins., 8 ins. in the ground for the  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on the N.face; dig pits 18x18x12 ins.E. and W. of stone 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

51.50 Wash, 10 lks.wide, course SE.

80.00 The cor.of secs.2,3,10 and 11, hereinbefore described.

Land, rolling.

Soil, 2nd rate.

Dense undergrowth of greasewood of very tall variety.

No timber or grass.

Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

Thence I run,

N.0°04'W. on a true line, bet. secs.2 and 3.

Over rolling land, covered with very tall, dense greasewood and catsclaw undergrowth.

7.00 Wash, 20 lks.wide, course N. 75° E.

10.00 Wash, 70 lks.wide, course E.

22.50 Wash, 15 lks.wide, course S. 75°E.

31.00 Draw, course S. 70°E.

40.00 Set a granite stone 6x8x15 ins., 10 ins. in the ground for the  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on the W. face; and dig pits 18x18x12 ins., N.and S. of stone 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,W.of cor.

49.00 Wash, 15 lks.wide, course S.40° E.

55.00 Wash,30 lks.wide, course E.

57.50 Wash, 10 lks.wide, course SE.

67.00 Wash, 20 lks.wide, course SE.

80.68 Intersect the Fifth Standard Parallel North, 3.37 chains west of the Standard  $\frac{1}{4}$  sec.cor. south of sec.35, a malpais stone 6 ins. above ground, marked and witnessed as described by the Surveyor General.

Set a granite stone 5x7x18 ins., 12 ins. in the ground for the closing cor.for secs. 2 and 3, marked C C on on S., with 2 grooves on the E, and 4 grooves on the W. faces; and raise a mound of stones 3 ft. base,  $1\frac{1}{2}$  ft. high,S.of cor. Pits impracticable.

Land, rolling, and cut by many washes.

Soil, 2nd rate.

Dense undergrowth of tall greasewood and catsclaw.

No timber or grass.

Rolling land, cut by washes, and covered with dense undergrowth, and exceptionally difficult to survey, 80.68 chs.

June 13, 1910.

June 14, 1910.

I commence at the cor.of secs. 3,4,33 and 34 on the S. boundary of the township, recently established and described by me.

Thence I run,

N.0°15' W. bet. secs. 33 and 34.

Over mountainous land, covered with dense undergrowth of greasewood, cactus, catsclaw and yucca.

Descend steep slope.

23.00 Wash, rocky, 50 lks.wide, course E.

25.70 Rocky gulch, 10 lks.wide, course S.70° E.

33.00 Rocky gulch, 10 lks.wide, course E. Ascend.

40.00 Set a granite stone 6x8x15 ins., 10 ins. in the ground for the  $\frac{1}{4}$  sec.cor.,marked  $\frac{1}{4}$  on the W.face, and raise a mound of stones 3 ft.base, $1\frac{1}{2}$  ft.high,W.of cor.Pits impracticable.

45.50 Rocky wash,1.50 chs.wide, course E.

56.20 Gulch,10 lks.wide,course E.;ascend abruptly.

61.00 Top of rocky point,trends E.and W. Descend abruptly.

65.00 Draw, course NE.

Chains.

Ascend along steep easterly slope of mountains.  
 70.00 Descend.  
 80.00 Set a porphyry stone 6x8x30 ins., 24 ins. in the ground for the cor. of secs. 27, 28, 33 and 34, marked with 3 notches on the E. and 1 notch on the S. edges, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.  
 Land, extremely mountainous.  
 Soil, 4th rate, rocky.  
 Dense undergrowth of greasewood, cactus, catsclaw, and yucca.  
 No timber or grass.  
 Mountainous land, covered with dense undergrowth and exceptionally difficult to survey, 80.00 chains.

At 9h. 30m. a.m., l.m.t., at the above cor., I set off 23° 15' N. on the decl. arc; 35° 05' N. on the lat. arc, and determine a meridian with the solar.

Thence I run,  
 East, on a random line, bet. secs. 27 and 34.  
 40.00 Set a temp. 1/4 sec. cor.  
 80.04 Intersect the N. and S. line, 3 lks. S. of the cor. of secs. 26, 27, 34 and 35, hereinbefore described. Thence I run, S. 89° 59' W. on a true line, bet. secs. 27 and 34.  
 Over mountainous land, covered with dense undergrowth of greasewood, cactus, and catsclaw.  
 20.00 Gulch, 35 lks. wide, course NE.  
 39.60 Gulch, 20 lks. wide, course NE.; ascend.  
 40.02 Set a granite stone 6x8x15 ins., 10 ins. in the ground for the 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.  
 Descend.  
 59.50 Draw, course N. 15° E.  
 72.70 Draw, course NE. Ascend.  
 78.00 Ascend abruptly.  
 80.04 The cor. of secs. 27, 28, 33 and 34, hereinbefore described.  
 Land, mountainous.  
 Soil, 3rd rate, stony.  
 Dense undergrowth of greasewood, cactus, and catsclaw.  
 No timber or grass.  
 Mountainous land, covered with dense undergrowth and exceptionally difficult to survey, 80.04 chains.

Thence I run,  
 N. 0° 05' W., bet. secs. 27 and 28.  
 Over mountainous land, covered with dense undergrowth of greasewood, cactus, and catsclaw.

Descend.  
 3.00 Draw, course E.  
 11.00 Gulch, 10 lks. wide, course E.  
 Ascend.  
 14.00 Descend.  
 17.00 Gulch, 20 lks. wide, course E.  
 27.00 Gulch, 40 lks. wide, course S. 70° E.  
 30.00 Draw, course SE.  
 Ascend.  
 40.00 Set a malpais stone 8x10x20 ins., 15 ins. in the ground for the 1/4 sec. cor., marked 1/4 on the W. face, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, W. of cor.  
 Pits impracticable.  
 Descend.  
 52.50 Gulch, 10 lks. wide, course SE.  
 56.30 Gulch, 10 lks. wide, course SE.  
 71.00 Gulch, 60 lks. wide, course SE.  
 Ascend steep slope.  
 79.48 Top of W. slope of butte.



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BOOK

2375

12. Subdivision of Township 20 North, Range 19 West.

Chains.

80.00 Granite rock in place 8x14x10 ins. above ground, for the cor. of secs. 21, 22, 27 and 28, marked with 3 notches on the E. and 2 notches on the S. edges, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, 3rd rate, stony.  
 Dense undergrowth of greasewood, catsclaw, yucca, and cactus.  
 No trees or grass.  
 Mountainous land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

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Thence I run,  
 N. 89° 59' E., on a random line, bet. secs. 22 and 27.  
 40.00 Set a temp. 1/4 sec. cor.  
 80.00 Intersect the N. and S. L. line, 3 lks. N. of the cor. of secs. 22, 23, 26 and 27, hereinbefore described.  
 Thence I run,  
 West, on a true line, bet. secs. 22 and 27.  
 Over mountainous land, covered with dense undergrowth of greasewood, cactus, catsclaw, and yucca.  
 8.00 Wash, 1.50 lks. wide, course S.  
 9.25 Small draw, course SE.  
 14.00 Wash, 1.20 chs. wide, course S. 75° E.  
 Ascend.  
 40.00 Set a granite stone, 7x8x18 ins., 12 ins. in the ground for the 1/4 sec. cor.; marked 1/4 on the N. face, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.  
 49.00 Gulch, course NE.  
 66.00 Draw, course N. 70° E.  
 80.00 The cor. of secs. 21, 22, 27 and 28, hereinbefore described.  
 Land, mountainous.  
 Soil, 3rd rate, stony.  
 Dense undergrowth of greasewood, catsclaw, yucca and cactus.  
 No timber or grass.  
 Mountainous land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

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At noon, I set off 23° 16' N. on the decl. arc, and observe the sun on the meridian at the cor. of secs. 21, 22, 27 and 28; the resulting latitude reading is 35° 06' N.  
 Thence I run,  
 N. 0° 05' W., bet. secs. 21 and 22.  
 Over mountainous land.  
 Scattering undergrowth of cactus, greasewood, and yucca.  
 Descend.  
 5.00 Wash, 50 lks. wide, course NE. Ascend.  
 15.00 Descend.  
 20.50 Gulch, 20 lks. wide, course NE.  
 32.00 Gulch, 40 lks. wide, course NE.  
 35.50 Wash, 1.50 chs. wide, course SE.  
 40.00 Set a malpais stone 6x6x18 ins., 12 ins. in the ground for the 1/4 sec. cor., marked 1/4 on the W. face, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.  
 44.00 Ascend.  
 56.00 Ridge, brs. SE. and NW. Descend.  
 60.00 Gulch, 10 lks. wide, course SE.  
 Ascend.  
 64.20 Descend steep slope.  
 80.00 Set a malpais stone 6x8x18 ins., 12 ins. in the ground for the cor. of secs. 15, 16, 21 and 22, marked  
 20 N on the NE.,  
 19 W on the SE.,  
 3 notches on the E. and S. edges; and raise a



Chains.

mound of stones 3 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.  
Land, mountainous, and scattered with rock.  
Soil, 4th rate, stony.  
Scattering undergrowth of cactus and yucca.  
No timber or grass.  
Mountainous land, exceptionally difficult to survey, 80.00 chains.

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Thence I run,  
East, on a random line, bet. secs. 15 and 22.  
40.00 Set a temp. 1/4 sec. cor.  
79.99 Intersect the N. and S. line 4 lks. S. of the cor. of secs. 14, 15, 22 and 23 hereinbefore described. Thence I run, S. 89° 58' W. on a true line, bet. secs. 15 and 22.  
Over sharply rolling land, covered with dense undergrowth, of greasewood, cactus and yucca, and with some scattering grass.  
17.50 Gulch, 30 lks. wide, course SE.  
20.50 Gulch, 20 lks. wide, course SE.  
39.99 1/2 Set a malpais stone 6x10x14 ins., 10 ins. in the ground for the 1/4 sec. cor., marked 1/4 on the N. face, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.  
Ascend.  
70.00 Descend.  
74.00 Wash, 40 lks. wide, course SE. Ascend.  
79.99 The cor. of secs. 15, 16, 21 and 22, hereinbefore described. Land to the west is extremely mountainous and impracticable to survey.  
Sharply rolling land.  
Soil 4th rate, rocky.  
Dense undergrowth of greasewood, cactus and yucca.  
Very scattering grass.  
No timber.  
Sharply rolling land covered with dense undergrowth, and exceptionally difficult to survey, 79.99 chains.

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Thence I run,  
N. 0° 05' W., bet. secs. 15 and 16.  
Over sharply rolling land cut by many washes.  
Dense undergrowth of yucca, cactus, greasewood, and very scattering cedar timber.  
Descend.  
4.00 Gulch, 40 lks. wide, course SE.  
30.00 Ridge, bears E. and W.  
40.00 Set a malpais stone 10x12x18 ins., 12 ins. in the ground for the 1/4 sec. cor., marked 1/4 on the W. face, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.  
42.00 Wash, 50 lks. wide, course SE.  
Ascend.  
45.00 Ridge brs. E. and W. Descend.  
49.50 Wash, 60 lks. wide, course NE. Ascend.  
60.00 Ridge, brs. SE. and NW. Descend.  
62.50 Gulch, 35 lks. wide, course SE.  
79.10 Gulch, 25 lks. wide, course E.  
80.00 Set a malpais stone 7x8x16 ins., 11 ins. in the ground for the cor. of secs. 9, 10, 15 and 16, marked with 3 notches on the E. and 4 notches on the S. edges, and raise a mound of stones 3 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.  
Land, sharply rolling and mountainous.  
Soil, 3rd and 4th rate, rocky.  
Dense undergrowth of cactus, yucca, greasewood, and very scattering cedar timber.  
No grass.

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BOOK 2375

14. Subdivision of Township 20 North, Range 19 West.

Chains.

Sharply rolling and mountainous land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chains.

June 14, 1910.

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June 15, 1910.

Thence I run, N.89°58'E., on a random line, bet. secs.10 and 15.

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

80.02 Intersect the N.and S. line 4 lks.N.of the cor.of secs.10, 11,14 and 15, hereinbefore described.

Thence I run, West, on a true line, bet. secs.10 and 15.

Over rolling land, covered with dense undergrowth of greasewood, cactus, yucca and some scattering cedar timber.

20.00 Gulch, 30 lks.wide, course NE.

40.00 Set a malpais stone 8x10x14 ins., 10 ins. in the ground for the  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on the N.face, and raise a mound of stones 3 ft. base, 1 $\frac{1}{2}$  ft. high,N.of cor. Pits impracticable.

59.00 Gulch, 40 lks.wide, course NE.

61.00 Same gulch, 35 lks.wide, course SE.

71.50 Same gulch, 35 lks.wide, course NE.

80.02 The cor.of secs.9,10,15 and 16, hereinbefore described.

Land, sharply rolling.

Soil, 3rd and 4th rate, rocky.

Dense undergrowth of cactus, yucca, greasewood.

Scattering cedar timber.

No grass.

Sharply rolling land, covered with dense undergrowth, and exceptionally difficult to survey,80.02 chains.

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Thence I run, N.0°05' W., bet. secs. 9 and 10.

Over sharply rolling land, covered with dense undergrowth of cactus, greasewood and yucca; scattering cedar timber.

3.00 Gulch,20 lks.wide, course SE.

23.00 Gulch,20 lks.wide, course NE.

Ascend.

25.00 Ridge, brs.E.and W.

37.00 Gulch, 15 lks.wide, course NE.

40.00 Set a granite stone 4x10x24 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on the W.face, and raise a mound of stones 3 ft. base, 1 $\frac{1}{2}$  ft. high,W.of cor. Pits impracticable.

Descend steep slope.

50.00 Gulch, 70 lks.wide, course NE.

59.00 Gulch, 30 lks.wide, course NE.

67.50 Draw, course NE.

75.00 Draw, course NE.

80.00 A granite stone in place 8x10x6 ins. above ground for the cor.of secs.3,4,9 and 10, marked with 3 notches on the E. and 5 notches on the S.edges, and raise a mound of stones 3 ft.base, 1 $\frac{1}{2}$  ft. high,W.of cor. Pits impracticable.

A cedar tree 4 ins. in diam., brs.S.8° 30' W., 2.00 chs.,marked T 20 N R 19 W S 9 B T.

No other bearing trees available.

Land, sharply rolling and mountainous.

Soil, 3rd rate, rocky.

Dense undergrowth of greasewood, cactus, catsclaw, and yucca. Scattering cedar timber.

No grass.

Semi-mountainous land, covered with dense undergrowth and scattering timber, and exceptionally difficult to survey,80.00 chains.

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Chains.

At 9h.30m.a.m., l.m.t., at the above cor. I set off  $35^{\circ}08\frac{1}{2}'N.$  on the lat. arc;  $23^{\circ}18\frac{1}{2}'N.$  on the decl. arc, and determine a meridian with the solar. Thence I run, East, on a random line, between secs. 3 and 10.

40.00 Set a temp.  $\frac{1}{4}$  sec. cor.  
80.01 Intersect the N. and S. line 3 lks. S. of the cor. of secs. 2, 3, 10 and 11 hereinbefore described. Thence I run,  $S.89^{\circ}59'W.$ , on a true line, bet. secs. 3 and 10. Over sharply rolling land, covered with dense undergrowth of greasewood, catsclaw, cactus and yucca; scattering cedar timber.

15.40 Draw, course NE.  
21.00 Draw, course NE.  
30.50 Wash, 30 lks. wide, course NE.  
40.00 $\frac{1}{2}$  Set a tufa stone  $5 \times 10 \times 12$  ins., 8 ins. in the ground for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the N. face; dig pits  $18 \times 18 \times 12$  ins. E. and W. of stone 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

44.90 Gulch, 10 lks. wide, course NE.  
57.00 Gulch, 50 lks. wide, course NE.  
75.40 Gulch, 20 lks. wide, course NE.  
80.01 The cor. of secs. 3, 4, 9 and 10, hereinbefore described. Sharply rolling land. Soil, 3rd rate. Dense undergrowth of greasewood, cactus, catsclaw, and yucca. Scattering cedar timber. Sharply rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.01 chains.

Thence I run,  $N.0^{\circ}05'W.$ , on a true line, bet. secs. 3 and 4. Over sharply rolling land, covered with dense undergrowth of greasewood, cactus, catsclaw, and yucca.

22.00 Gulch, 20 lks. wide, course NE. Ascend.  
29.00 Ridge, brs. NE. and SW.  
36.50 Gulch, 35 lks. wide, course NE.  
40.00 Set a granite stone  $6 \times 7 \times 18$  ins., 12 ins. in the ground for the  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on the W. face, and dig pits  $18 \times 18 \times 12$  ins. N. and S. of stone 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

61.50 Gulch, 20 lks. wide, course NE.  
73.50 Wash, 1.00 chain wide, course  $N.60^{\circ}E.$   
80.68 Intersect the Fifth Standard Parallel North, through Range 19 West, 3.35 chains west of the standard  $\frac{1}{4}$  sec. cor. south of sec. 34, a malpais stone 5 ins. above ground, marked and witnessed as described by the Surveyor General.

Set a granite stone  $8 \times 12 \times 18$  ins., 12 ins. in the ground for the closing section corner of secs. 3 and 4, marked C C on the S. with 3 grooves on the E. and W. faces; dig pits  $24 \times 18 \times 12$  ins., crosswise on each line E. and W. 3 ft., and S. of stone 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor.

Land, roughly rolling.  
Soil, 2nd and 3rd rate.  
Dense undergrowth of greasewood, cactus, catsclaw, and yucca.  
No timber or grass.  
Roughly rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 80.68 chains.  
June 15, 1910.

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BOOK

Chains.

GENERAL DESCRIPTION.

This township is rolling and mountainous in the eastern half where the soil is generally rated 2nd and 3rd rate, and is covered with a dense undergrowth of greasewood, cactus, yucca, catsclaw, palo verde, but with very little grass and no water either at the surface or from wells. At near the center of the township on a line nearly north and south in direction the subdivisional lines enter mountainous land impractical to subdivide. There is a scattering growth of cedar timber in the extreme NE. part of the township but for this exception the township is destitute of timber. In the prosecution of the survey it was necessary to haul water a great distance, and this combined with the extreme high temperature, the absence of grass, and the rough character of the land embraced, as well as the dense undergrowth encountered sufficed to classify this as an extremely difficult survey to execute.

It is worthy of note that there are no settlers within this township, and it appears to be an impractical region for settlement on account of the scarcity of water and the poor quality of the soil.

*William D. Alexander*  
U. S. Deputy Surveyor.

Sep. 12, 1910.

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*F* FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

*See Subdivisional Books "B" and "G"*

LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_  
\_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and  
marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_  
showing the respective capacities in which they acted:

- \_\_\_\_\_, Chainman.
- \_\_\_\_\_, Chainman.
- \_\_\_\_\_, Moundman.
- \_\_\_\_\_, Moundman.
- \_\_\_\_\_, Axman.
- \_\_\_\_\_, Axman.
- \_\_\_\_\_, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_  
\_\_\_\_\_, United States Deputy Surveyor, in surveying all  
those parts or portions of the \_\_\_\_\_

*See Part A*

\_\_\_\_\_ of the \_\_\_\_\_  
meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
General for \_\_\_\_\_

- \_\_\_\_\_, Chainman.
- \_\_\_\_\_, Chainman.
- \_\_\_\_\_, Moundman.
- \_\_\_\_\_, Moundman.
- \_\_\_\_\_, Axman.
- \_\_\_\_\_, Axman.
- \_\_\_\_\_, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 19 \_\_\_\_\_ }



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BOOK 2375

*For* FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.  
*See Subdivisional Books "B" and "G"*

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_ United States Surveyor General for \_\_\_\_\_, bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_

\_\_\_\_\_ of the \_\_\_\_\_ meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

\_\_\_\_\_  
United States Deputy Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Phoenix, Arizona, May 26, 1913.*

The foregoing field notes of the survey of *the Subdivisions of* in

*part in Tp. 20 N., R. 19 West*

*Gila and Salt River Base & Meridian*

executed by *Arizona*  
*William B. Alexander*

under his contract No. *156*, dated *May 26*, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Frank S. Ingalls*  
United States Surveyor General.

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

\_\_\_\_\_  
United States Surveyor General