Subdivisional

Dook G.

2377

BOOK 2377

rE6.7- 1912

# FIELD NOTES

OF THE SURVEY OF THE

Dubdivisions	d Sines of	J174. (	R19W.
			······································
Of the	Jena Cepfairt	iver Base En	Meridian,
	•	VEYED BY	
Ukilianto	Mylander	, United	l States Deputy Survey
Inder his Contract I	No <b>/ T.C</b> , dat	ed May	, 190
Inder his Contract J	No Juin, dat Dum	ed May	<b>26</b> , 196 , 197 ,

### NAMES AND DUTIES OF ASSISTANTS.

(B)

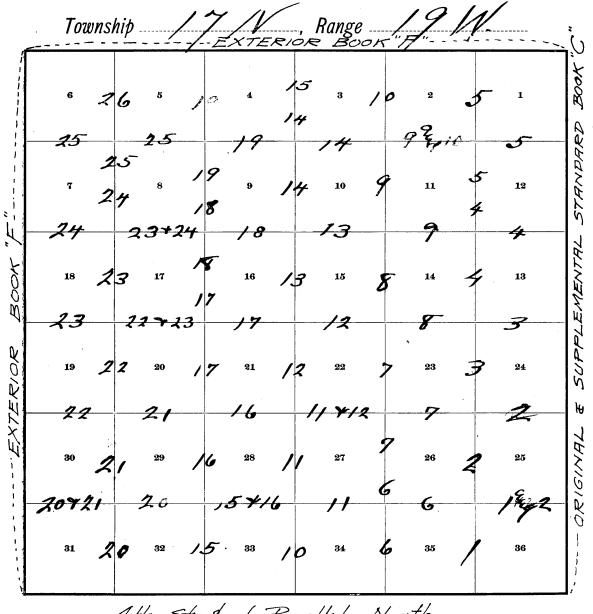
BOOK 2377

### NAMES AND DUTIES OF ASSISTANTS.

Parid Mers Chaminan	
Louis Van Marter "	
Post & Swoot "	
13. P. Wulffenster "	
& Westoner Moundman	/
Lameure Nalor "	
Chas Clayton Roman	
Jack Pay "	
W.J. Nations Flagman.	

BOOK 2377

## INDEX DIAGRAM.



4th Stanford Parallel North Meanders Page

6--151

NARY OATHS OF ASSISTANTS. Roff. L. Swoot Lavie Van Marter and B. P. Wulffenster 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 tally 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 The Subdives course fines of T's 17, 18, 7 19, N, R 19 W of the Gr S P Bry, any Subscribed and sworn to before me this 3 rd and taureure of Valo do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of gerners, according to the instructions given us, to the best of our skill and ability, in the survey of the Jubdivisional lives of TS17, 18 -19 will well and truly perform the duties of axmen in the establishment of corners to instructions given us, to the best of our skill and ability, in the survey of and other duties, according lives of T's 17,0 *DVO*....., do solemnly swear that I will well and truly of flagman according to instructions given me, to the best of my skill and ability, in the mas 975/7/8,+19N, PIGW gth GYSPB.
W ] nations. Flagman. 6—151

Chains

Survey commenced December 3, 1911, and was executed with a Young and Sons Light Mountain Transit No.7520, the horizontal limb having two double verniers placed op-posite to each other and reading to single minutes of arc, which is also the least reading of the latitude and declination arcs of the Smith Solar Attachment, which is fitted to this instrument.

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

I examine all the standard and bubble adjustments, and find them correct.

I begin at the Standard cor. of secs. 35 and 36, 4th. Standard Parallel North, on S.bdy.of T.17 N., R.19 W.; lat.34° 48' 44" N.; long.114° 13°29" W., which is a granite stone in a monument of stones, marked and witnessed as described by the Surveyor General.

At 4h.Om. p.m., l.m.t., I set off 22°0'S. on the decl. arc; 34°48½'N. on the lat.arc, and determine a meridian with the solar, and mark the line thus obtained by a tack driven in a stake set about 5 chains N.of my station. December 3, 1911.

December 4, 1911. At 2h.37m. a.m., l.m.t., I observe Polaris at its western elongation in accordance with the instructions in the Manual, and mark the line thus determined by a tack driven in a stake set westerly from the stake set yesterday by solar observation.

At 6h.Om.a.m., l.m.t., I turn off 1°25' to the east, and find that this line is approximately one eighth of an inch W.of the solar meridian of yesterday.

At 8h.Om. a.m., l.m.t., I set off 22°05' S. on the decl. arc; 34°48½'N. on the lat.arc, and determine a meridian with the solar. This line coincides with the stellar meridian. I conclude that the adjustment of my instrument is satisfactory. Magnetic variation. Magnetic variation, my instrument is satisfactory. N.15º 00'E.

Thence I run, N. 00 04 W., between secs. 35 and 36. Over mountainous land, covered with loose rock. Wash, 20 lks.wide, course E., Ascend.

22.00

Descend . Set a porphyry stone 8x11x15 ins. 10 ins. in the ground 37.00 for the pactor, marked on the W.face, and raise a mound of stones 3 ft.base, loft. high, W. of cor. 40.00 Pits impracticable.

Wash 5 lks.wide, course W. Ascend SE.slope of high Descend NW . slope . 49.00 mountain.

Set a porphyry stone 7x12x19 ins., 15 ins. in the ground for the cor.of secs. 25,26,35 and 36, marked with 1 80.00 notch on the E. and 1 notch on the S.edges; and raise a mound of stones 3 ft. base, li ft. high, W. of cor.

Pits impracticable. Land, mountainous and covered with loose rock. Soil , 4th rate, stony. Scattering greasewood and cactus brush.

Mountainous land, covered with loose rock, and exception-ally difficult to survey, 80.00 chs.

Thence I run, East, on a random line hetween secs. 25 and 36.

Set temp. \* sec.cor.
Intersect the Fifth Guide Meridian West at a point 7 40.00 lks.S.of the cor.of secs. 25,30, 31 and 36. A lava 79.95 stone 5 ins. above ground, marked and witnessed as described by the Surveyor-General.

**BOOK 2377** 

```
Subdivision of Township 17 North, Range 19 West.
Chains.
           Thence I run, S.89057 W. on a true line, between secs.25 and 36. Over mountainous land, covered with loose rock.
           Ascend.
          High malpais ridge, course N.and S.; descend. Wash, 40 lks.wide, course NW.
 15.00
 30.30
           Ascend.
39.97 Set a malpais stone 10x10x12 inse, 8 ins. in the ground for the 1 sec.cor., marked 1 on the N.face, and raise a mound of stones 3 ft.base, 1 ft. high, N.of cor.
          Pits impracticable.
           Ascend over mountainous land.
          The cor.of secs.25,26, 35 and 36, heretofore described.
 79.95
          Eandcextremely mountainous, and covered with loose rock.
          Soil, 3rd and 4th rate, stony. Scattering greasewood and cactus brush.
          Mountainous land, covered with loose rock, and exception-
ally difficult to survey, 79.95 chs.
          At noon, at the above cor. I set off 22° 9%'S.on the decl.arc, and observe the sun on the meridian. The resulting lat. reading is 34° 49%'N.
          Thence I run,
          N.0^{\circ}O4^{\dagger}W., bet. secs.25 and 26.
          Over mountainous land, covered with loose rocks and boul-
              ders.
          Descend NE.slope of high mountain.
27.00
          Wash, 40 lks wide, course W. Ascend.
          Set a porphyry stone 9x10x16 ins., ll in. in the ground for the 1 sec.cor., marked 1 on the W.face, and raise a mound of stones 3 ft. base, l2 ft. high, W.of cor.
40.00
              Pits impracticable.
          Descend .
          Gully, course SW. Ascend.
Ridge, beanse SW. Descend.
Gulch, 5 lks.wide, course SW. Ascend.
42.00
48.50
55.70
          Ridge, chears SW. and NE. Descend.
Gulch wash 5 lks.wide, course SW. Ascend.
Set a porphyry stone Sxl Cxl3 ins., 9 ins. in the ground
60.00
66.00
80.00
              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, 12 ft. high, w.of
                       Pits impracticable.
              cor.
          Land, mountainous, and covered with loose rock and boul-
              ders.
          Soil, 4th rate, stony.
          Scattering greasewood and cactus brush.
          No grass.
          Mountainous land, covered with loose rock and exceptional-
              ly difficult to survey, 80.00 chs.
          Thence I run,
         N.89°57'E., on a random line, bet. secs.24 and 25. Set temp. 2 sec.cor.
Intersect the Fifth Guide Meridian West at the cor.of
40.00
80.05
              secs. 19,24, 25 and 30, a lava stone in mound of
              stones, marked and witnessed as described bybthe Sur-
              veyor General.
          Thence I run,
          S.89°57'W., on a true line, bet. secs.24 and 25.
          Over mountainous land, covered with boulders and loose
              rock.
         Descend NWW slape of high mountain.
         Canyon, wash 20 lks.wide, course SW.; ascend. Ridge, N.and S.; descend.
24.00
28.00 Canyon, wash, 40 lks.wide, course S.; ascend.
38.80 Rock ridge, obcars N.and S.; descend.
40.02 Set a porphyry stone, 8x10x18 ins., 12 ins., in the ground
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Subdivision of Township 17 North, Range 1919 West
 Chains.
                perpetuate.
 65.00 Set a quartz perphyry stone 8x12x18 ins., 12 ins. in the ground for the witness cor. to a sec.cor., marked
                on the N.face, W C on the NE.side, and raise a mound of stones 3 ft. base, 1 ft. high, N.of cor. Pits im-
                practicable.
 50.70
           Rocky gorge, course NWW.
 54.50
           Same gorge course SWW.; ascend.
 60.00
           Descend.
 79.50
           Wash, 150 lks.wide, course SW.
 79.90
           True point for cor.of secs. 13,14,23 and 24 falls in above
               wash .
           Land, extremely mountainous, and covered with loose sliding
               rock.
           Scattering undergrowth of greasewood, cactus.
           Soil, 4th rate, rocky.
           No grass.
           Mountainous land, covered with loose rock, and exception-
ally difficult to survey, 79.90 chs.
          At 9h. Om. a.m., l.m.t., I set off 34° 51½' N.on the lat. arc; 22°15½'S. on the decl.arc, and determine a meridian with the solar at the true point for the cor.of
               secs. 13,14,23 and 24.
          Thence I run, N.0004 W., between socs.13 and 14.
           Over extremely mountainous land.
          Ascend.
  1.00
          Witness corner previously described.
  4.00
          Descend.
          Wash, 30 lks.wide, course SWW. Ascend steep slope covered with loose rock.
  8.00
          Top of sharp rock ridge, bears E.and W.; descend.
37.09
          Set a malpais stone 7x1 0x15 ins., 10 ins. in the ground
40.00
              for the 2 sec.cor., marked 2 on the W.face, and raise a mound of stone 3 ft.base, 12 ft. high, W.of cor. Pits
               impracticable.
Deep canyon, wash 25 lks.wide, course W.; ascend.
72.00 Top of rock ridge, bearse SE.and NW.; descend.
80.00 Set a malpais stone 6x8x14 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, lg ft. high, W.of cor Pits
               impracticable.
          Land, extremely mountainous, and covered with loose rock. Soil, 4th rate, rocky.
          Scattering cactus and greasewood brush.
          No grass.
          Mountainous land, covered with loose rock, and exception-
ally difficult to survey, 80.00 chs.
          Thence I run,
East, on a random line, between secs.12 and 13.

40.00
Set temp. † sec.cor.

Intersect the 5th.Guide Meridian West, at the cor.to
secs. 7,12,13 and 18, a lava stone in mound of stones,
marked and witnessed as described by the Surveyor-
              General.
          Thence I run,
          West on a true line, between secs.12 and 13.
          Over extremely mountainous land, covered with loose rock.
          Ascend.
 3.00 Top of high black mountain.
         Descend 40° slope.
          Ascend .
22.00 Ridge, bearse NW and SE.; descend steep slope.
40.02 Set a malpais stone 8x12x16 ins., 12 ins. in the ground
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Subdivision of Township 17 North, Range 19 West.

and the second

Chains . for the # sec.cor., marked # on the N.face, and raise a mound of stones 3 ft. base, 12 ft. high, N. of cor. Pits impracticable. Main F.fork of Warm Springs Canyon, 100 lks wide, course ,56.50 NWW Ascend. The cor. of secs. 11,12,13 and 14, heretofore described. Land extremely mountainous, and covered with loose mal-80.05

pais boulders. Soil, 4th rate, rocky.

A small amount of grass. Scattering greasewood and cactus undergrowth.

Mountainous land, covered with loose rock and exception-ally difficult to survey, 80.05 chs.

At noon, at the above cor. I set off 220 17%'S. on the decl are, and observe the sun on I set off the meridian. The resulting lat. reading is 34° 52'N. Thence I run,

N. 00 04 W.on a true line, bet. secs. 11 and 12. Over extremely mountainous land covered with loose rock. Descend.

Main E.fork of Warm Springs Canon, Wash, 100 lks.wide, 11.20 Ridge, cheans E. and W.

19.00

Canyon, wash 30 lks.wide, course NW.; ascend.
Set a malpais stone 10x12x20 ins., 15 ins. in the ground
for 1 sec.cor., marked on the W.face, and raise a
mound of stones 3 ft. base, 1 ft. high, W. of cor. Pits 25.00 40.00 impracticable.

> Descend. Canyon, wash 30 lks.wide, course NWW. Ascend. High rocky ridge, chears NWW. Descend.

45.00 67.00

Sets malpais stone 7x12x24 ins., 18 ins. in the ground for the cor. of secs 1,2,11 and 12, marked with 1 notch on the E. and 5, not ches on the S. edges, and raise a mound of stones 3 ft. base, 1; ft. high, W. of cor. 80.00

Pits impracticable. Land, extremely mountainous, covered with loose rock. Soil, 4th rate, stony.

Scattering grass. Scattering grasswood and cactus undergrowth. Mountainous land, covered with loose rock and exception-ally difficult to survey, 80.00 chs.

December 5, 1911.

December 6, 1911. Thence I run,

East on a random line, between secs.1 and 12.

Set temp. 2 sec.cor. Intersect the 5th. Guide Meridian West, at a point 5 lks. 40.00 80.00 S. of the cor. of secs.1,6,7, and 12, recently established and described by me.

Thence I run, S.89058 W.on a true line between secs.l and 12.

Over extremely mountainous land, covered with boulders.

Canyon, wash, 30 lks.wide, course NW.; ascend.

A malpais stone 14x24x28 ins. above ground in place,
marked with X at the exact corner, 2 on the N.face,
and raise a mound of stones 3 ft.base, 12 ft. high, N. Pats impracticable. of cor.

49.00 For of high ridge, cheanse NW. and SE. Descend. 80.00 The cor. of secs. 1, 2, 11 and 12, hereinbefore described. Land, extremely mountainous, and covered with boulders.

Soil Athrate, rocky Small amount of grass Scattering undergrowth of grassewood and cactus. Mountainous land covered with boulders, and exceptionally difficult to survey, 80.00 chs.

> At 9h. Cm., a.m., 1.m.t., I set off 34° 53'N.on the lat. arc; 220232 5:0h the decl.arc; and determine a meri-

28,00 40.00

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Subdivision of Township 17 North, Range 19 West
  Chains.
                    dian with the solar, at the cor of secs.1,2,11 and 12,
                    heretofore described.
              Thence I run,
N.0° 04' W.on a random line, between secs.l and 2.
Set temp. 1 sec.cor.
Corner of secs.l.2.35 and 36 on the N.bdy. of the Tp., recently established and described by me, brs. W. 2 lks.
 40,00
 80.05
               Thence I run,
              S.C. Co. E., on a true line, between secs. 1 and 2.
Over extremely mountainous land, covered with boulders
                    and loose rock.
             Descend a SE.slope.

Wash, 15 lks.wide, course SW.; ascend.

Set a malpais stone 9x12x18 ins., 12 ins. in the ground for the # sec.cor., marked # on the W.face, and raise a mound of stones 3 ft. base, 12 ft. high, W.of cor.
 35.20
 40.05
                   Pits impracticable.
             Descend.
             Wash, 30 lks.wide, course W.; ascend.
High spur, NWW.;,descend.
The cor.of secs.1,2,11 and 12, heretofore described.
 44.40
 70.50
 80.05
             Land, extremely mountainous, and covered with loose rock. Soil, 4th rate, stony.
              Some grass.
             Scattering undergrowth of greasewood, cactus. Mountainous land, covered with boulders and loose rock,
                   and exceptionally difficult to survey, 80.05 chs.
             Then I proceed to the cor. of secs. 34 and 35 on the S.
                bdy of the township. This is the Standard cor.of secs. 34 and 35, 4th. Standard Parallel North, on S.bdy. off T.17 N., R.19 W., a lava stone 7 ins. above ground, marked and witnessed as described by the Surveyor General.
             At 12% At., noon, at this cor., I set off 82°25'S on the decl arc, and observe the sun on the meridian. The resulting latereading is 34°49' N.
                                                                       I set off 22°25'S on the
             Thence I run,
             N.0004 W., on a true line, between secs.34 and 35.
             Over mountainous land, covered with boulders.
             Ascend.
            High, rocky ridge, bearse E.and W. Descend.
Set a malpais stone 8x12x16 ins., ll ins. in the ground
for the 4 sec.cor., marked 4 on the W.face, and raise
a mound of stones 3 ft.base, 14 ft. high, W.of cor.
22.00
40.00
                  Pits impracticable.
            Ascend.
           Spur W.; descend.
Gulch, 10 lks.wide, course W.; ascend.
Ridge, bears: E.and W.; descend.
Wash, 12 lks.wide, course W.;
Wish, 15 lks.wide, course SW.; ascend.
44.70
47.50
50.00
64.00
78.00
           Set a malpais stone 10x12x18 ins., 12 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
80.00
                  raise a mound of stones 3 ft.base, 12 ft. high, W. of cor. Pits impracticable.
            Land, mountainous, and covered with boulders and loose rock.
            Soil, 4th rate, rocky.
            Some grass.
            Scattering undergrowth of greasewood and cactus. Mountainous land, covered with boulders and exceptionally
                  difficult to survey 80.00 chs.
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40.00

Thence I run E. on a random line between secs.26 and 35. Set temp. & sec.cor. Cor.of secs.25,26, 35 and 36 hereinbefore described, brs. N. 5 lks.
Thence I run,

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Subdivision of Township 17 North. Range 19 West.
Chains.
           S.89.58 w., on a true line, bet.secs.26 and 35.
Over mountainous land, covered with boulders.
Descending along S.side of mountain.
  4.00
           Ascend.
           Spur SW.: descend steep SW.slope of mountain.

Set a malpais stone 6x8x20 ins., 15 ins. in the ground

for the 1 sec.cor., marked 1 on the N.face, and raise
a mound of stones 3 ft base, 11 ft. high, N.of cor.
 12.00
 40.00
           Pits impracticable.
           Continue descent.
           Wash, 15 lks.wide, course SW.; ascend. The cor.of secs.26,27,34 and 35 hereinbefore described.
 77.00
 80.00
           Land, extremely mountainous and covered with boulders .
           Soil, 4th rate, stony. Very little grass.
            Scattering undergrowth of greasewood and cactus.
           Mountainous land, covered with boulders, and exception-
ally difficult to survey, 80.00 chs.
                                                          December 6, 1911.
           December 7, 1911.
Thence I run,
N.OO O4' W. between secs. 26 and 27.
            Over sharply rolling land, covered with black malpais
                boulders.
           Descend.
                                 course SW.; ascend.
           Wash, 20 lks., course
Top of hill; descend.
 10.00
 21.00
           Gulbh, 20 lks.wide, course W.; ascend.
Spur W.; descend.
 24.00
 27.00
            Set a malpais stone 1 0x13x19 ins., 15 ins. in the ground,
  40.00
                for the dec.cor, marked don the W.face, and raise a mound of stones 3 ft. base, la ft. high, W.of cor.
                Pits impracticable.
  42.00 Wash, 50 lks.wide, course SW.; ascend. 75.00 Spur SW.; descend.
 42.00
 80.00 Bet a malpais stone 6x6x18 ins., 12 ins. in the ground for the cor. of sees. 22,23,26 and 27, marked with 2 notches on the S. and H.edges, and raise a mound of stones 3 ft. base, 1; ft. high, w.of cor. Pits impracti-
                 cable.
            Land, sharply rolling, covered with boulders.
            Soil, 4th rate, rocky.
A small amount of dry grass.
            Soil,
            Scattering undergrowth of greasewood and cactus.
            Sharply rolling land, covered with boulders and exception-
ally difficult to survey, 80.00 chs.
            Thence I run, N.89° 58'E., on a random line between secs.23 and 26.
            Set temp. + sec. cor.
  40.00
  79.96 Cor.to secs. 23,24,25 and 26 heretofore described, brs.S.
             Thence I run,
             N,89.58 w. on a true line between secs. 23 and 26.
             Over mountainous land, covered with loose rock.
            Descend
            Wash, 8 lks.wide, course SW.; ascend.
Set a porphyry stone 8x15x18 ins., 12 ins. in the ground
for the 2 sec.for., marked 2 on the W.face, and raises
a mound of stones, 3 ft. base, 12 ft. high, N. of cor.
  37.40
  39.98
                 Pits impracticable.
             Descend .
            Wash, 10 1ks. wide, course SW.; ascend.
   48.00
             Ridge, bears NE. and SW.; descend.
Cor.of secs. 22,23,26 and 27, heretofore described.
  55.00
   79.95
             Land, mountainous, covered with boulders and loose rock.
             Soil, 4th rate, stony.
             No grass.
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Subdivision of Township 17 North, Range 19 West,
Chains.
            Scattering greasewood and cactus brush.

Mountainous land, covered with boulders and loose rock and exceptionally difficult to survey, 79.96 chs.
            on the declearc and observe the sum on the meridian.
                 The resulting lat meading is 344 50 'N.
            Thence I run,
            N. 0 04 W., between secs. 22 and 23.
            Over mountainous land, covered with rocks.
            Descend.
            Draw, course SW. Wash, 10 lks.wide, course SW.
  4.00
 14.10
            Ascend.
            Ridge, Sw. and NE.
 18.00
            Descend.
           Set witness cor. to $\frac{1}{2}$ sec.cor., a malpais stone 5x8x18 in s., 12 ins. in the ground, marked $\frac{1}{2}$ on the W.face; WC on the NE.side, and raise a mound of stones 3 ft. base, $\frac{1}{2}$ ft.high, W.of cor. Pits impracticable.

Point for $\frac{1}{2}$ sec.cor., falls in sand of wash 20 lks.wide, course $W.; ascend.
 39.50
 40.00
            Wash, 100 lks. wide, course SW.; ascend over loose rock.
Set a quartzite stone 8x12x20 ins., 15 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
 58.00
 80.00
                 raise a mound of stones 3 ft. base, la ft. high W.of cor. Pits impracticable.
            Land, extremely mountainous and covered with loose rock. Soil, 4th rate, stony, southering undergrowth of greasewood and cactus.
            No grass.
            Mountainous land, covered with loose rock and exceptionally difficult to survey 80.00 chs.
            Thence I run,
 S.89° 58'E., on a random line, between secs.14 and 23.
 79.98 True wint for cor.of secs.13,14, 23 and 24 in wash, brs.
                N.7 1ks.
            Thence I run,
            S. 890 591 W.on a true line, between secs.14 and 23.
            Over ment tenious s land, covered with loose rock.
            Ascend .
           Descend.
  2.00
28.00
           Wash, 300 lks.wide, course SW.; ascend.
 31.00
           Descend .
 34.20
            Wash, 50 lks.wide, course SW.; ascend.
            Set a porphyry stone exexto ins., 10 ins. in the ground
39.99
                for the greecoor, marked gon the N.face, and raise a mound of stones 3 ft. base, lg.ft. high, N.of cor. Pits
                 impracticable.
 47.00
            Spur, S. Descend. Gulch, wash 30 lks.wide, course S.; ascend.
 66.00
           Spur S.; descend.

Gulch, 10 lks.wide, course S.; ascend.

Ridge, boarse N.and S.; descend.

Gulch, wash 10 lks. wide, course S.; ascend.

The cor.of secs. 14,15,22 and 23, heretofore described.

Land, extremely mountainous, and covered with loose rock.
 67.50
 69.00
 72.00
 76.25
 79.98
            Soil, 4th rate, rocky.
            Sactering undergrowth of greasewood and cactus.
            Very little grass.

Mountainous land, covered with loose rock, and exception-
ally difficult to survey, 79.98 chs.
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Subdivision of Township 17 North lange 19 West
Chains.
          Thence I run, N. 0° 04 W., between secs. 14 and 15.
          Over extremely mountainous land, covered with loose quarts-
              ite rock.
          Ascend.
          Top of high ridge, bears E.and W.; descend. Wash, 100 lks.wide, course NWW.; ascend. Set a malpais stone 8x12x20 ins., 15 ins. in the ground
 18.00
 39.00
 40.00
              for the 2 sec.cor., marked 2 on the W.face, and raise a mound of stones 3 ft.base, 12 ft. high, W.of cor.
              Pits impracticable.
          Ascend very steep slope, covered with cloose rock.
          Spur, SW.; descend.
 55.00
          Rocky gorge course SW.; ascend.
Point for the cor.of secs. 10,11,14 and 15 falls on steep
 58.50
 80.00
              southerly slope of high rooky ridge, course NWW and
              SEE., impracticable to establish the cor. on account
              of sliding rock. So I proceed to
          Establish a witness cor. to cor. of secs. 10,11,14 and 15
 87.60
              on rock in place, approximately 6x8x5 ft. above ground on which I mark a X at the exact point for the cor. 2
              notches on the E.side and 4 notches on S.side, and WC.
              on the NE., and raise a mound of stones 3 ft. base, ly ft. high, W. of cor.
          Land, extremely mountainous and, covered with loose rock. Soil, 4th rate, stony.
          Scattering greasewood and cactus brush.
          No grass.
          Mountainous land, covered with loose rock and exception-
ally difficult to survey 87.60 chs.
          At 4h .Om.p.m., 1.m.t., at the above cor. I set off 22°31' S.on the decl.arc; 34°52½'N.on the lat.arc, and deter-
              mine a meridian with the sclar.
                                                     December 7, 1911.
          December 8, 1911.
          From the true point for the cor.of secs. 10,11,14 and 15,
         I run,
N.89° 59'E., on a random line, between secs.ll and l4.
 40.00 Set temp. & sec.cor.
 80.00 Cor. of secs. 13,14,11 and 12 hereinbefore described, brs.
S.5 lks.
Thence I run,
         N.89°59'W., on a true line, bet. sees all and 14.
Over extremely mountainous land, covered with boulders
             and loose rock.
          Ascend.
  5.00 Spur, N. Descend.
 10.00 Ascend.
 22.00 Ridge, NW and SE .; descend.
 40.00 Set a malpais stone 8x10x28 ins., 12 ins, in the ground for the # sec.cor., marked # on the N. face, and raise a mound of stones 3 ft. base, 1 ft. high, N. of cor.
         Pits impracticable.
 55.00 Rocky gorge, course SW.; ascend.
70.00 Spur, S.; descend.
80.00 True point for the cor.of secs.10,11,14 and 15.
         Land extremely mountainous, and covered with boulders and
             loose rock.
         Soil, 4th rate, rocky.
         No grass.
         Scattering greasewood and cactus brush.
Mountainous land, covered with boulders, and exceptionally
             difficult to survey, 80.00 chs.
         From the true point for cor.of secs.10,11,14 and 15, I
          H. 00 04 W.on a line bet. secs. 10 and 11.
          Over extremely mountainous land, covered with boulders
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Subdivision of Township 17 North, Range 19 West.
             and loose rock,
         Ascend.
        Witness corner, previously described.
High mountain ridge, bearse NWW. and SEE. Descend.
 7.60
25.00
        Set a porphyry stone, 8x14x18 ins., 12 ins. in the ground for the 1 sec.cor, marked 1 on the W.face, and raise a mound of stones 3 ft.base, 1; ft. high, W.of cor. Pits
40.00
             impracticable.
         Continue descent, ...
        Descend bluff.
52.00
        Gulch, 30 lks.wide, course NW .; ascend.
72.00
75.00
        Descend .
80.00 Phifor comingorge, wash 30 lks. wide, course NWW, impracticable
             to set sec.cor., I return to
        Set a witness cornet, a sandstone 7x13x20 ins., 15 ins. in the ground for the witness corner tocer. of secs. 2,3,10
79.50
             and 11, marked with 5 notches on the S. and 2 notches
             on the R.edges, and W C on the NR.face, and raise a mound of stones 3 ft. base, 12 ft. high, W.of cor. Pits
             impracticable.
         Land, extremely mountainous, and covered with loose rock.
         Soil, 4th rate, stony.
        No grass.
         Scattering greasewood and cactus brush.
        Mountainous land, covered with loose rock and exceptional-
             ly difficult to survey, 80.00 chs.
         From the true point for the cor. of secs. 2, 3, 10 and 11,
             I run,
         S.89°59'E., on a random line, between secs.2 and 11.
         Over extremely mountainous land, covered with boulders.
         Ascend .
40.00
         Set temp. 2 sec.cor.
         Cor. to secs. 1,2,11 and 12, hereinbefore described, brs.
80.02
         N.2 1ks.
         Thence I run,
         West, on a true line, between secs. 2 and 11.
         Ever extremely mountainous land, covered with boulders.
         Descend.
         Wash, 20 lks.wide, gourse NW.; ascend.
 0.20
         High divide, bearse NWW. and SEE.; descend.
16.00
        Gulch, 10 lks.wide, course S.; ascend.

Set a granite stone 5x14x18 ins., 12 ins. in the ground for the 1 sec.cor., marked 1 on the N.face, and raise a mound of stones 3 ft.base, 1 ft. high, N.of cor.
32.00
40.01
             Pits impracticable.
         Rock ridge, branse NW.and SE.; descend. Cor. point of secs. 2,3,10 and 11, in wash; witness cor.
46.50
80.02
             50 lks.S. 004'E., previously described.
         Land extremely mountainous, and covered with boulders.
                4th rate, stony.
         Scattering greasewood and cactus brush.
         A small amount of dry grass
         Mountainous land, covered with boulders and exceptionally
             difficult to survey, 80.02 chs.
         At noon, I set off 22°39' S.on the decl.arc, and observe
the sun on the meridian, at the true point for the
cor.of secs. 2,3,10 and ll; the resulting lat.reading
             is 34° 53'N.
         Thence I run,
         N.0004 W. on a random line between secs. 2 and 3.
        Set temp. sec. cor.
Intersect the N.bdy, of the Tp. at a point 5 lks. W. of the
40.00
80.00
             cor. of secs. 2,3, 34 and 35, recently established and
             described by me.
         Thence I run,
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Subdivision of Township 17 North, Range 19 West.
Chains .
           Washp 100 lks .wide, course SSW .; ascend .
 11.50
 16.00
           Descend.
           Wash, 12 lks.wide, course S.; ascend. Spur, SE.; descend.
 20.80
 29.00
 32.00
           Ascend .
           Spur, S.; descend.
 35.00
           Ascend .
 36.50
           Spur SW.; descend.
 37.50
           Set a malpais stone, llxl2xl8 ins., l2 ins. in the ground for the \( \frac{1}{2} \) sec.cor., marked \( \frac{1}{2} \) on the N.face, and raise a mound of stones 3 ft.base, l\( \frac{1}{2} \) ft. high, N.of cor. Pits
 4 0. CA
                impracticable.
           Wash, 100 lks.wide, course SWW.; ascend. The cor.of secs.27,28,33 and 34, hereintefonce described.
 56.00
 80.02
           Land, mountainous, and covered with boulders. Soil, 4th rate, stony.
            Scattering greasewood and cactus brush.
            No grass.
           Mountainous land, coveredmwith boulders, and exceptional-
ly difficult to survey, 80.02 chs.
           Thence I run, N, 0° 05 W., between secs 27 and 28.
            Over sharply rolling land, covered with malpais stones;
                ascend.
  10.00
           Ridge, E.and W.; descend.
           Gully, course W .; ascend.
Ridge, E and W .; descend.
Wash, 20 lks wide, course SWW .; ascend.
 18.00
 25.50
  35.10
           Set a malpais stone 8x10x18 ins., 12 ins. in the ground for the # sec.cor., marked # on the W.face, and raise a mound of stones 3 ft.base, 1 ft. high, W.of cor. Fits
  40.00
                impracticable.
  64.40
            Descend.
            Wash, 20 lks.wide, course SW.; ascend.
  70.30
           Set a malpais stone 9x10x18 ins., 12 ins. in the 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
  80.00
                raise a mound of stones 3 ft. base, 12 ft. high, W.of
                 cor. Pits impracticable.
            Land, sharply rolling and covered with malpais stones.
            Soil,
                    4th rate, stony.
            Scattering greasewood and cactus brush.
Sharply rolling land, covered with malpais stones and exceptionally difficult to survey, 80.00 chs.
            Thence I run,
            S.89° 59' E.on a random line, between secs.22 and 27.
           Set temp. & sec.cor.
Cor.of secs. 22,23,26 and 27 hereinbefore described, brs.S.
  40.00
  79.98
              5 lks.
            Thence I run,
            N.89º 57' W.on a true line, between secs.22 and 27.
             Over countainous land, covered with malpais boulders.
            Descend.
            Small draw, course SW. 188.
   0.90
           Wash, 15 lks. wide, course SWW.; ascend. Spur, SSW.; descend. Wash, 60 lks.wide, course SW.; ascend.
  30.00
  32.60
  37.00
            Set a malpais stone 7x10x16 ins., ll ins. in the ground for the # sec.cor., marked # on the N.face, and raise a mound of stones 3 ft.base, li ft. high, N.of cor.Pits
  39.99
                 impracticable.
            Top of broad spur, Sw.; descend.
  50.00
           Wash, 30 lks.wide, course SW.; descend.
  63.00
            Spur, Sw.; descend.
  67.50
           Wash, 10 lks.wide, sourse SW.; ascend.
The cor.of secs.21,22, 27 and 28, hereinbefore described.
  70.60
  79.98
             Land, mountainous and covered with boulders.
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Thence I run,

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Subdivision of Township 17 North, Range 19 West
Chains.
           N. 0° 05'W., between secs.15 and 16.
          Over extremely mountainous land, covered with loose rock. Dwnse undergrowth of greasewood and cactus.
          Descend.
 10.00
          Wash, 50 1ks.wide, course Sw. Ascend. Enter scattering
               undergrowth of greasewood and cactus.
 40.00
          Set a porphyry stone at top of rock ridge, chears E. and W
               for the 2 sec.com, marked 2 on the W.face. Dimensions of the stone are 6x1 0x14 ind., 10 ins. in the ground, and raise a mound of stones 3 ft. base, 12 ft. high, w.
               of cor. Pits impracticable.
          Descend steep slope, covered with sliding rock. Canyon, wash 10 lks.wide, course W.; ascend. Rock ridge, bearse E.and W.; descend.
 44 .50
 55.00
 62.70
           Canyon, wash, 10 lks.wide, course W.; ascend.
          High rock ridge, chears: E.and W.; descend.

Canyon, wash 30 lks.wide, course W.; ascend.

Set a malpais stone 8x10x14 ins., 10 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
70.60
 77.00
80.00
               raise a mound of stones 3 ft.base, 12 ft. high, W.of
               cor. Pits impracticable.
          Land, extremely mountainous.
           Covered with loose quartzite and malpais stones.
          Soil, 4th rate, rocky.

Dense undergrowth of greasewood and cactus, 10.00 chs.
           Scattering undergrowth of greasewood and cactus, 70.00 chs.
           No grass.
          Mountainous land, covered with loose rock and malpais
               boulders and exceptionally difficult to survey, 80.00
               chs.
          At 9h.Qm. a.m., 1.m.t., at the above cor., I set off 22° 49½'S. on the decl.arc; 34°50'N. on the lat.arc, and determine a meridian with the solar.
           Thence I run,
           East, on a random line, between secs. 10 and 15.
           Set temp. 2 sec.cor.
40.00
          The true point for cor.of secs.10, 11,14 and 15, which was perpetuated by a witness corner located 760 lks.

N. 004 W, brs. 7 lks. N.

Thence from the true point for the cor. I run,
 79.96
           S.89°57'W., on a true line, between secs.10 and 15.
Over extremely mountainous land, covered with loose rock.
          Descending steep SW.slope.
          Descend bluffs; NW and SE. 1.
 18.00
          Rocky gorge course SW: Ascend.
28.00
 35.00
          Descend.
          Set a malpais stone 6x1 0x14 ins., 10 ins. in the ground
 39.98
               for the decor, marked don the N. face, and raise a mound of stones 3 ft. base, ld ft. high, N. of cor.
               Pits impracticable.
          Wash, 15 lks.wide, course SW.; ascend.
 41.00
          Ridge, obeans N. and S.; descend. Wash, 50 lks.wide, course SW.; ascend.
 45.00
 65.75
          Ridge, obearso NE and Sw.; descend. Wash, 10 lks wide, course Sw.; ascend.
 67.00
 70.30
 74.50
          Descend.
          Gulch, 10 lks. wide, course S.; ascend.
The cor.of secs.9, 10, 15 and 16, hereinbefore described.
 77.20
 79.96
           Land, extremely mountainous, and covered with loose rock.
           Soil, 4th rate, stony.
           Scattering greasewood and cactus brush.
           No grass.
           Mountainous land, covered with loose rock and exception-
               ally difficult to survey, 79.96 chs.
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Thence I run, N.00 Cow., on a random line between secs.3 and 4. 40.00 Set temp. 2 sec.cor.

ally difficult to survey, 79.98 chs.

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Subdivision of Township 17 North, Range 319 West
Chains.
           Intersect N.bdy.of the Tp. at a point 9 lks.W.of the cor.
 79.95
               of secs.3,4,33 and 34, recently established and de-
               soribed by me.
           Thence I run,
           S.0001E., on a true line, between secs.3 and 4.
Over extremely mountainous land, covered with malpais
               boulders, Descend.
           Small spring E., 5 chs. dist. in wash of E.fork of Warm Springs Canyon, width 60 lks., course W.; ascend.
 20.00
 28.00
           Bpur NV .; descend .
           Gully course NW .; ascend.
 30.50
           Set a porphyry stone 6x7x16 ins., 11 ins. in the ground
 39.95
               for the 2 sec.cor. marked 2 on the W.face, and raise a mound of stones 3 ft. base, 12 ft. high, W. of cor.
               Pits impracticable.
           Spur W.; descend
 45.20
          Gully, course W.; ascend.
Spur, W.; descend.
Gulch, course W.; ascend.
Spur, W.; descend.
 48.20
 57 .00
 62.00
 67.00
 73.00
           Ascend.
           Cor. of secs. 3,4,9 and 10, hereinbefore described.
 79 .95
           Land extremely mountainous, and covered with malpais
                boulders.
           Soil, 4th rate, rocky. Scattering greasewood, cactus, and some cataclaw brush.
           Some dry grass.
           Mountainous land, covered with boulders and exceptionally
                difficult to survey, 79.95 chs.
                                                               December 10, 1911.
           December 11, 1911.

Commence at the Standard cor. of sections 32 and 33, 4th.

Standard Parallel North, on the S.bdy.of T.17 N., R.
                19 w., which is a lava stone 6 ins. above ground,
                marked and witnessed as described by the Surveyor-
                General .
            Thence I run, N. 00 05 W., between secs. 32 and 33.
            Over rolling land, covered with dense undergrowth of greasewood, cactus and catolaw, and malpais boulders.
 24.50 Wash, 50 lks.wide, course WSW.; ascend.
40.00 Set a malpais stone 6x14x18 ins., 12 ins. in the ground
                for the # sec.cor., marked # on the W.face; and raise a mound of stone 3 ft. base; 12 ft. high, w.of cor. Pits impracticable. This # sec.cor. is situated on the W.slope of black malpais mountain, high point of which is about 800 lks.E.
            Ascend .
  55.00 Spur W.; descend.
74.80 Wash, 60 lks.wide, course W.; ascend.
77.50 Wash, 25 lks.wide, course W.; ascend.
  55 .00
  80.00 Set a malpais stone 10x16x20 ins., 15 ins. in the ground for the cor. of secs. 28,29,32 and 35, marked with 4 notches on the E. and 1 notch on the S. edges, and raise a mound of stones 3 ft. base, 1; ft. high, w.of
                 cor. Pits impracticable.
            Land, rolling and mountainous, and covered with dense
                undergrowth of greasewood, cactus and catsclaw.
            Covered with malpais boulders.
            Soil, 4th rate, rocky.
            Scattering dry grass.
            Rolling land, covered with boulders and dense undergrowth,
                 and exceptionally difficult to survey, 80,00 chs.
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At 9h.Om.a.m., 1 .m.t., at the above cor., I set off 34°

At noon, 1.m.t., at the above cor., I set off 22° 56%'S. on the decl.arc, and observe the sun on the meridian. The resulting latitude reading is 34° 50%'N.

Thence I run, N.89° 59° E., between secs.21 and 28 on a random line. Set temp. ‡ sec.cor.

40.00 Set temp. 2 sec.dor.

80.02 The cor. of secs.21,22,27 and 28, hereinbefore described,

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Subdivision of Township 17 North. Range 19 West.
Chains .
              brs. S.3 1ks.
          Thence I run,
          West on a true line, between secs 21 and 28.
           Over rolling land, covered with dense greasewood and cac-
              tus brush.
           Over malpais boulders.
          Set a malpais stone 9x9x18 ins., 12 ins. in the ground for the 2 sec.cor., marked 2 on N.face, and raise a mound of stones 3 ft. base, 12 ft. high, N.of cor.
40. a
              Pits impractioable.
 50.00
          Wash, 10 lks wide, course SW.
          Oully SWW.
 70.00
 75.00
          Same gully course NWW. The cor.of secs. 20, 21,28 and 29, hereinbefore described.
 80. Œ
          Land, rolling.
          Covered with dense undergrowth of greasewood and cactus. Covered with malpais boulders.
          Soil, 3rd and 4th rate, stony. Scattering dry grass.
          Rolling land, covered with malpais boulders, and dense
               and exceptionally difficult to survey, 80.02 chs.
          Thence I run, N.O. 05.W., between secs. 20 and 21.
          Over sharply rolling land, covered with malpais boulders and dense undergrowth of greasewood and cactus.
          Descending.
          Wash, 100 lks.wide, course W.; ascend.
Low ridge, chears E.and W.; descend.
 10.00
12.00
          Wash, 10 lks. wide, course W.; ascend.
20.60
 30.00
         Descend.
         Draw, course Sww.; ascend.
37.50
40.00 Set a malpais stone 8x15x16 ins., 11 ins. in the ground,
              for the # sec.cor., marked # on the W.face, and raise a mound of stones 3 ft. base, 1 ft. high, W.of cor.
              Pits impracticable.
          Descend.
47.80
          Wash, 30 lks.wide, course Sw. Ascend steep slope.
55.00
         Descend.
63.00 Washn 20 lks wide, course SW. Ascend steep slope.
80.00 Set a malpais stone 8x12x24 ins., 18 ins. in the ground for the cor.of secs.16,17, 20 and 21, marked with 4 notches on the E. and 3 notches on the S.edges, and
              raise a mound of stones 3 ft. base, 1 ft. high, W. of cor. Pits impracticable.
          Land, sharply rolling.
          Soil, 4th rate, stony.
Dense undergrowth of greasewood and cactus.
          Land, covered with malpais boulders.
Very little dry grass.
Sharply rolling land, covered with boulders and dense
              undergrowth, and exceptionally difficult to survey.
              80.00 chs.
          Thence I run,
         East, on a random line, between secs.16 and 21. Set a temp. 2 sec.cor.
40.00
          Cor.of secs. 15, 16,21 and 22, henembefore described, brs. 5.4 lks.
80.04
          Thence I run,
         N.89.58 W. on a true line, between secs.16 and 21.
Descend over rolling land, covered with dense greasewood
              and cactus undergrowth and with malpais boulders.
         Set a malpais stone 8x8x18 ins., 12 ins. in the ground,
             for the g sec.cor, marked ton the N.face, and raise
              a mound of stones 3 ft.base, lift. high, N.of cor.
              Pits impracticable.
        Ascend.
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Subdivision of Township 17 North Bance 19 West.
Chai ba
         Narrow ridge, obears SW, and NE.; descend.
42.00
         Prominent wash 100 lks.wide, course Sw. Wash, 10 lks.wide, course Sw; ascend. Spur, S.; descend.
56.00
70.00
72.50
         Gully, course S.; ascend.
The cor.of secs. 16,17,20 and 21, hereinbefore described.
78.50
80.04
         Land, sharply rolling.
         Soil, 4th rate, stony.
         Dense undergrowth of greasewood, and cactus.
Land, covered with malpais boulders.
          Sharply rolling land, covered with dense undergrowth and
              boulders, and exceptionally difficult to survey, 80.04
              chs.
                                                  December 11, 1911.
         December 12,1911.
         Thence I run,
         N. 0º 05'W ., between secs 16 and 17.
          Over rolling land, covered with boulders.
         Dense undergrowth of greasewood and cactus.
          Ascending.
         Set a malpais stone 10x12x16 ins., ll ins. in the ground for the 1 sec.cor., marked 1 on the W.face, and raise a mound of stones 3 ft. bass, 12 ft. high, w.of cor.
40.00
              Pits impractionble.
         Broad low ridge, NE. and Sw. Descend.
49.00
51.00
          Ascend .
         Legge of large black boulders, bears E and W. Descend. Wash, 10 lks.wide, course SW. Ascend.
54.00
60.00
          Spur SW.; descend.
74.20
         Set a malpais stone 7x9x18 ins.,12 ins. in the ground for the cor.of secs. 8,9,16 and 17, marked with 4 notches on the S. and E.edges, and raise a mound of stones 3 ft.base, 1; ft. high, W.of cor. Pits impracti-
80.00
              cable.
          Land, rolling
         Soil, 4thbrate, stony.
Dense undergrowth of greasewood and cactus.
Surface covered with malpais boulders.
          Rolling land, covered with malpais boulders and dense gressewood and cactus brush, and exceptionally diffi-
            ault to survey, 80.00 chs.
          Thence I run,
          S.89.58'E.on a random line, between secs.9 and 16.
          Set a temp. + sec.cor.
40.00
          The cor.of secs.9,10,15 and 16 hereinbefore described, brs
80.02
              2 lks.N.
          Thence I run,
          N.89959 W. on a true line, bet. secs.9 and 16.
          Over mountainous land, covefed with malpais boulders. Dense undergrowth of greasewood and cactus.
          Descend.
          Gulch, wash 10 lks.wide, course S.; ascend.
 4.25
7.00
          Spur, S.; descend.
         Gulch, wash, 20 lks.wide, course S.; ascend.

Det a malpais stone, 6x6x15 ins., 10 ins. in the ground

for the 1 sec.cor., marked 1 on the M.face, and raise
a mound of stones 3 ft.base, 1 ft. high, N.of cor. Pits
10.00
               impracticable.
          Wash, 50 lks.wide, course SW.; ascend.
Top of malpais ridge, course N. and S.; descend.
The cor.of sacs.8,9,16 and 17. hereinbefore described.
65.00
75.00
80.02
           Land, mountainous, covered with malpais boulders.
          Soil, 4th rate, rocky
Dense undergrowth of pressewood and cactus
           Small amount of dry grass.
           Mountainous land, covered with boulders and dense under-
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Lange Profession

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Subdivision of Township 17 North, Range 19 West.
Chains.
              growth and exceptionally difficult to survey, 80.02 chs
          Thence I run,
          N.O. O. W. between sees.8 and 9.
          Over mountainous land, covered with boulders.
         Dense undergrowth of gressewood and cactus.
         Descend.
25.00 Wash, 8 lks.wide, course SWW.; ascend.
38.50 Descend.
         Set a malpais stone &x9x18 ins., 12 ins. in the ground for the d sec.cor., marked d on the W.face, and raise a mound of stones 3 ft.base, 1d ft. high, W.of cor. Pits
40.00
              impracticable.
57.00
          Ascend .
         Spur, NWW.; descend. Wash, 4C lks.wide, course NWW.; ascend. Low ridge, course E.and W. Descend into Warm Springs
65.00
69.00
72.00
              Canyon.
        Condita in warm Springs Canyon wash, 200 lks wide, course Sw. It is impracticable to perpetuate the corner here therefore, I proceed Month'w. to
80.00
         Set a malpais stone 7x14x18 ins., 12 ins. in the ground
82.50
              for the witness corner to corner of secs. 4, 5,8 and 9, marked with 4 notabes on the E. and 5 notabes on the B.edges, and W C on the NE side, and raise a mound of stones 3 ft.base, lift. high, W.of cor. Pits imprac-
              ticable.
         Land, mountainous and covered with boulders and dense undergrowth of greasewood and cactus.
          Soil,4th rate, stony. Scattering grass.
         Exantainous land, covered with dense undergrowth and mal-
              pais boulders and exceptionally difficult to survey,
              82.50 chs.
         At moon, I set off 23° 0128. on the declearc, and observe the sun on the meridian; the resulting latitude reading is 34° 53'N. at the true point for the cor of secs
              4,5,8 and 9.
          Thence I run,
         S.89° 59'E., on a random line between secs. 4 and 9.

Set temp. 1 sec.cor.

The cor. of secs. 3, 4, 9 and 10, hereinbefore described,
40.00
80.Œ
              brs. N. 2 1ks.
          Thence I run,
         West, on a true line, between secs.4 and 9. Over extremely mountainous land, covered with loose rock,
              and scattering greasewood and cactus brush.
         Descend.
         Rocky gulch, course SW.; ascend.
Spur, S.; descend.
Gulch, wash, 10 lks.wide, course S.; ascend.
Top ridge, NE.and SW.; descend.
18.00
26.00
29.00
37.00
          Set a malpais stone 8x13x20 ins., 15 ins. in the ground,
40. CL
              for the description marked don the N.face, and raise a mound of stones 3 ft. base, ld ft. high, N.of cor.
          Pits impracticable.
         Descend.
The true point for the cor. of secs.4, 5, 8 and 9.
80.02
          Land, extremely mountainous.
          Covered with boulders.
          Scattering greasewood and cactus brush.
          Soil, 4th rate, stony.
Small amount of dry grass.
          Mountrinous land, covered with boulders and exceptionally
               difficult to survey, 80.02 chs.
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21.
      Subdivision of Township 17 North, Range 19 West.
    Chains
              Thence I run,
N.C.O. W. on a random line, between secs. 4 and 5.
Set temp. W.C. sec.cor., offset 400 lks. E.to swoid butte.
Intersect the N.bdy.of the Tp., at a point 389 lks.E.of
the cor.of sections 4, 5, 32 and 33, recently estab-
lished and described by me.
36 .86 .60
    79.90
               Thence I run, from a point 400 lks.E.of corner,
               South on offset line betweenssecs. 4 and 5.
               Over mountainous land, covered with loose rock, E.base of
                    cliffs.
               Scattering greasewood and cactus brush.
               The exact section line passes over a succession of cliffs with general course NAW. and SSE., and is unsurveyable
               Wash, 10 lks.wide, course E. Impracticable to return to section line and establish ;
    24.00
    39.90
                    sec.cor. because the same falls on side of cliff.
               Run 400 lks. W. to true line, and establish W.Cr.for + sec. cor. between secs. 4 and 5, as follows:
Set a granite stone 5x15x18 ins., 12 ins. in the ground
                    for witness corner to & sec.cor., marked & on the W. face, WC on NE.side, and raise a mound of stones 3 ft.
                    base, la ft.high, w.of cor. Pits impracticable. This
                    W.C.is situated on S.slope of prominent rock butte.
               Descend.
               Witness corner for cor of secs .4,5,8 and 9, hereinbefore
    77.40
                    described.
               Descend into Warm Springs Canyon,
Corner point of secs. 4,5,8 and 9 falls in wash, as pre-
     79.90
                   vocusly described.
               Land, extremely mountainous; covered with loose rock.
               Scattering undergrowth of greasewood and cactus.
               Soil, 4th rate, rocky.
               No grass.
               Mountainous land, covered with loose rock and exceptional by
                    difficult to survey, 79.90 chs.
                                                                       December 12,1911.
               December 13,1911.
Commence at the Standard section corner of sections 31
                    and 32 on the S.bdy.of Thel? N., R.19 W., which is a granite stone, 6 ins. above ground, on the 4th Standard Parallel North, marked and witnessed as described by
                    the Surveyor General.
               Thence I run
               N. 0º 06'W., between secs.31 and 32.
                Over rolling land, covered with dense undergrowth of greasewood and cactus.
                Covered with malpais boulders; descend.
      13.70 Prominent wash 30 lks.wide is about 100 lks.w.of this
                    line, and from this point takes a course of SW.
      17.60 Small draw, course W. 36.00 Small draw, course W.
      40.00 Set a malpais stone llxllxl8 ins., 12 ins. in the groudd for the desc.cor., marked don the W.face, and raise a mound of stones 3 ft. base, 1; ft.high, W.of cor.
                Pits impracticable
      47.50 Prominent wash 30 lks. wide, course SW.; ascend.
80.00 Set a malpais stone 9xllx18 ins., 12 ins. in the ground
for the cor.of secs.29.30, 31 and 32, marked with 5
notches on the E. and 1 notch on the S.edges, and
                    raise a mound of stones 3 ft. base, 1; ft.high, W.of cor. Pits impracticable.
               Land, rolling.
Soil, 3rd and 4th rate, stony.
Dense undergrowth of greasewood and cactus.
                Some dry grass.
                Surface covered with malpais boulders.
Rolling land, covered with dense undergrowth and boulders and exceptionally difficult to survey, 80.00 chs.
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Subdivision of Township 17 North, Range 19 West.
Chains.
           At 9h. Cm., a.m., l.m.t., at the above cor., I set off 23 Odg S.on the deck arc; 34 49g N. on the lat.arc, and
                determine a meridian with the solar.
           Thence I ruh,
           East, on a random line, between secs.29 and 32.
40.00
          Set temp. 🛊 sec.cor.
          Cor. of sees. 28, 39, 32 and 33 on line hereinbefore described. Thence I run,
80.00
           West, on a true line, between secs.29 and 32.

Descend over rolling land, covered with boulders and with dense undergrowth of greasewood and cactus.
3.86 Wash, 50 lks wide, course SW.; ascend. 5.80 Spur, SW.; descend. 11.00 Wash, 10 lks wide, course SW.
           Ascend.
          Spur, SW.; descend. Wash, 20 lks.wide, course SW.; ascend. Set a malpais stone 6x12x16 ins., 11 ins. in the ground
25.00
35.30
40.00
                for the # sec.cor, marked # on the N.face; and raise a mound of stones 3 ft.bass, 1 ft. high, N. of cor.
                Pits impragticable.
           Descend.
          Wash, 15 lks.wide, course S.; ascend.
Spur, SW.; descend.
The cor.of secs.29,30, 31 and 32, hereinbefore described.
55.00
60.00
80.00
           Land, rolling.
           Soil, 3rd rate, stony.
Dense undergrowth of greasewood and cactus.
Surface covered with malpais boulders.
           No grass except occasional patches of dry growth.
           Rolling land, covered with dense undergrowth and boulders,
                and exceptionally difficult to survey, 80.00 chs.
           Thence I run West on a random line, between secs.30 and
               31.
           Set temp. 2 sec.cor.
Intersect the W.bdy.of the Township at a point 4 lks.S.
of the cor.of secs. 25,30, 31 and 36, recently estable
40.00
79.94
                lished and described by me.
            Thence I run;
            3.89° 58'E., on a true line, between secs. 30 and 31. Over sharply rolling land, covered with large malpais
                boulders.
          Dense undergrowth of greasewood and cactus. Descend steep, canyon bank, BW.
10.00
          Rocky gorge about 10 lks.wide at the washm course S.:as-
15.50
                cend.
           Spur, S.; descend.

Set a malpais stone 16x24x24 ins., 18 ins. in the ground for the 2 sec.cor., marked 2 on the h.face, and raise a mound of stones 3 ft.base, 12 ft. high, N.of cor.
21.00
39.94
                Pits impracticable.
           Wash, 20 lks wide, course SW4; ascend. Cor.of secs.29,30, 31 and 32, hereinbefore described. Land, sharply rolling, cut by deep washes.
 45.00
79.94
           Soil, 4th rate, stony.

Dense undergrowth of greasewood and cactus. A little grass.

Surface covered with large malpais boulders. Sharply rolling land overed with boulders owth and exceptionally difficult to survey, 79.94
                ohs.
            Thence I run,
           N.0006 W., between secs.29 and 30.
            Over mountainous land, covered with dense undergrowth of
                 greasewood and cactus
            Surface covered with malpais boulders.
           Descend .
  3.40 Ascend.
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Subdivision of Township 17 North, Range 19 West.
Chains.
         Wesh, 20 lks.wide, course S.; ascend. The cor.of secs.19, 20,29 and 30, hereinbefore described.
49.30
79.82
         Eand; gently rolling.
         Soil, 4th rate, stony.
         Dense undergrowth of greasewood and cactus. Surface covered with malpais boulders.
         Lend, covered with dense undergrowth and boulders, and
             exceptionally difficult to survey, 79.82 chs.
         At 9h. Cm. a.m., l.m.t., at the above cor., I set off 34°51'N. on the lat.src; 23°09'S. on the decl.arc, and determine a meridian with the solar.
         Thence I run,
        N.0°06 W., between secs.19 and 20.
         Ascend; over rolling land, covered with boulders. Dense undergrowth of greasewood and cactus.
26.00 Descend.
40.00 Wash, 50 lks wide domes from the NE., and at this point turns to the SE. Impracticable to establish ; sec. cor. at this point.
         Therefore I proceed to
         Set a malpais stone 12x16x20 ins., 15 ins. in the ground
44.00
             for witness corner to 1 sec.cor. marked 1 on the W. face, W.C. on the NE. side, and raise a mound of stones 3 ft, base, 12 ft. high, w.of. cor. Pits impracticable.
60.00
        Descend .
68.00 Draw, Wash 10 1ks wide, course SWW. Ascend.
80.00 Set a malpais stone 12x12x22 ins., 15 ins. in the ground
             for the cor.of secs. 17,18,19 and 20, marked with 5 notches on the E. and 3 notches on the S.edges, and raise a mound of stones 3 ft.base, laft. high, w.of
             cor. Pits impracticable.
         Land, rolling and covered with mulpais boulders.
         Soil, 4th rate, stony.
Bense undergrowth of greasewood and cactus.
         No grass.
Land, covered with boulders and dense undergrowth and
             excentionally difficult to survey, 80.00 chs.
         Thence I run, N.89.57 E; on a random line, bet. secs.17 and 20.
                           sec.cor.
40.00
         Set a temp. .
80.00 Cor.of secs.16,17, 20 and 21, hereinbefore described, brs.
             2 1ks.3.
          Thence I runm
         S.89*58 Wo, once true line; between secs.17 and 20.
          Over sharply rolling land, covered with boulders.
         Dense undergrowth of greasewood and cactus.
         Ascend .
35.00 Point of long spur, 3w. Descend.
40.00 Set a malpais stone 7x9x18 ins., 12 ins. in the ground
35.00
             for the & sec.cor., marked & on the K.face; and raise
              a mound of stones 3 ft, base, lg ft. high, N. of cor.
         Pits impracticable.
          Ascend.
45.00 Descend
49.60
         Wash, 30 lks.wide, course SW.; ascend.
61.50 Descend .
75.00 Draw, course S.; ascend.
80.00 The cort of secs 17,18,19 and 20 hereinbefore described.
         Land, sharply rolling, covered with malpais boulders.
         Soil, 4th rate, stony.
         Dense undergrowth of greasewood and cactus.
          Sharply rolling land, covered with boulders and dense
              undergrowth and exceptionally difficult to survey,
              80.00 chs.
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Subdivision of Township 17 North | kenge 19 West
Chains .
40.02 Set a malpais stone 7x10x18 ins., 12 ina. in the ground for the # sec.cor., marked # on the N. face, and raise a mound of stones 3 ft.base, 1 ft. high, N.of cor. Pits
              impracticable:
66.00
         Descend terrace.
         Foot of terrace, N. and S.
The cor of secs. 7,8,17 and 18, hereinbefore described.
70.50
80.04
         Land, sharply rolling.
Dense undergrowth of greasewood and cactus.
         Soil, 4th rate, stony. Surface covered with malpais boulders.
          No grass.
         Sharply rolling land, covered with dense undergrowth and boulders, and exceptionally difficult to survey, 80.04
              chs.
         At 9h. Om., a.m., 1.m.t.at the above cor., I set off 23° 12½ 8.on the decl.are; 34°52'N. on the lat.arc, and deter-
              mine a meridian with the solar.
          Thence I run,
          8.89.59 W., on a random line, between secs. 7 and 18. Over mountainous land, covered with malpais boulders.
         Dense undergrowth.
         Set temp. ; sec.cor.

Intersect the W.bdy.of the Tp., at a point 14 lks.S.of
the cor. of secs.7,12, 13 and 18, recently established
40.00
79.57
          Thence I run,
          S.89.55 E., on a true line, between secs. 7 and 18.
Over mountainous land; covered with dense undergrowth of
              greasewood and some catsclaw.
          Surface thick with malpais boulders.
         Descend into canyon.
         Canyon, wash 30 lks.wide, course S.; ascend.
 6.00
12.00
         Descend:
         Canyon, wash, 200 lks wide, course S.; ascend.
17.45
19.00
         Descend.
         Wash, 200 lks wide, course S.; ascend.
22.00
30.00
         Descend .
         Wash in gorge, 30 lks.wide.course S.; ascend.
Set a melpais stone 6x10x14 ins., 10 ins. in the ground
for the 1 sec.cor., marked 1 on the NN.face, and raise
a mound of stones 3 ft. base, 1; ft. high, N. of cor.
35.00
39.57
          Pits impracticable.
45 .00
         Descend.
         Warm Springs canyon wash 300 lks.wide, course SW.
61.25
          Ascend.
          The cor. of secs. 7,8,17 and 18, hereinbefore described.
79.57
          Land, mountainous.
         Soil, 4th rate, stony.
Dense undergrowth of greasewood and cactus.
          No grass.
         Ground surface, thickly covered with malpais boulders. Mountainous land, covered with malpais boulders and dense
              undergrowth, and exceptionally difficult to survey,
               79.57 chs.
           Thence I run, N.O. OS.W.; between secs.7 and 8.
```

Over sharply rolling land, covered with boulders and dense undergrowth of greasewood and cactus. Descend.

15.00 Warm Springs Canyon wash 100 lks.wide, course SW.
27.80 Branch wash 30 lks.wide, course SW.
37.65 wash, 50 lks.wide, course SE.
40.00 Set a porphyry stone 5xl 0xl 0 ins., 7 ins. in the ground, for the decoor, marked don the W.face, and raise a mound of stones 3 ft.base, li ft. high, W.of cor.

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Subdivision of Township 17 North, Range 19 West.
                                                                                                                                                                       27.
Chains.
                  Pits impracticable.
                  Ancend Agrees He as a
                 Descend.
45.00
                  Wash, 15 lks.wide, course SW.; ascend.
47.00
                  Set a porphyry stone 6x8x12 ins., 8 ins. in the ground for the cor.of secs.5,6,7 and 25 marked with 5 notches
80.00
                 on the E. and S. edges, and raise a mound of stones 3 ft.base, ly ft. high, W. of car. Pits impracticable.
This cor. is situated on the six slope of small butts.
Land, roughly rolling.
                  Boil, 4th rate, stony.

Surface covered with boulders and loose rock. Dense undergrowth of greadewood and cartuax Roughly nothing land, covered with boulders and loose rock; and dense undergrowth, a exceptionally difficult to survey, 80.00 chs.
                 At noon at the above cor., I set off 23° 13½ S.on the decl.arc, and observe the sun on the meridian. The resulting lateresding is 54°53 N.
                  Thence I run,
                  Rast, on a random line, bet. secs.5 and 8.
40.00
                  Set temp. . sec. cor.
                  The cor point of secs. 4, 5, 8 and 9, hereinbefore described,
80.02
                         brs. N.5 lks.; this was perpetuated by a mitness corner previously described.
                 From the true point for the cor.

I run 8:89*68 w.on a true line, between secs.5 and 8.

Over mountainous land; covered with boulders and danse undergrowth of greasewood and cactus.

Deave Warm Springs Canyon; ascend.
  1.00
                 Descend; leave dense undergrowth, enter scattering grease-
24.00
                          wood and cactus.
                 Wash, 150 lks.wide, course S.; ascend.
Set a malpais stone 5x7x20 ins., 15 ins. in the ground
for the † sec.cor., marked † on the N.face, and raise
a mound of stones 3 ft. base, 1; ft. high, N.of cor.
34,00
40.01
                 Pits are impracticable and formations
                                                                                                                    47.00 Wash 200 lks.wifle, course S.; ascend.
50.00
                Descend.
                 Wesh in guloh, 10 lks.wide, course S.; sacend. The cor. of secs. 5,6,7 and 8, hereinbefore described.
56.00
80.02
                  Land, mountainous.
                  Soil, 4th rate, rocky.
                  Medium dense undergrowth of greasewood and oactus.
                  Ground covered with loose rock. .
                  No gress.
                 Mountainous land, covered with dense undergrowth or loose
                         rock, and exceptionally difficult to survey, 80.02 chs.
                  Thence I run,
                 N.890 554 W.on a random line, between secs 6 and 7.
                 Set tempatt sec.cor.
40.00
                Intersect the Wibdy of the Tp., at a point 11 lks .N. of the corsof secs. 1, 6, 7 and 12, recently established
79.50
                          and described by me.
                  Thence I run;
                  East, on a true line, between secs. 6 and 7.
                  Over extremely mountainous land, covered with loose rock and scattering greasewood and cactus and cateciam
                          brush.
                                                  the first of the state of the s
                  Ascend . .
  2.60
                 Spur S.; descend,
   7.60
                  Ascend.
                 High rook ridge, cheapse SSE. and NNW.; descend steep
13.10
                  Rocky gulch, 20 lks wide, course 8.; ascend.
33.00
                 Descend.
35,00
                  Porphyry stone in place, 8x12x12 ins. above ground,
39.50
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A MANAGEMENT

Subdivision of Township 17 North. Range 19 West. Chains. marked with a cross (x) at the exact cor.point, and ; on the N.side thereof, and raise a mound of stones 3 ft.base, lift. high W.of cor. Pits impracticable. Descend. Wash, 200 lks.wids, course SBW. Ascend. 41.60 60.50 Spur ASE.; descend.
65.70 Wash, 10 lks. wide, course Sb.; ascend.
79.50 The cor. of secs. 5, 6, 7 and 8, hereinbefore described. Land, extremely mountainous. Soil, 4th rate, stony. Surface covered with loose rock. Scattering greasewood, cactus and catsolaw brush. No grass. Mountainous land, covered with loose rock and exception-ally difficult to survey, 79.50 chs. 1.5 Pin 14 T Thence I run, N. 0 06 W., on a random line, between secs.5 and 6. Set temp. + sec.cor.
Intersect the N.bdy.of the Tp. at a point 14 lks.W.of 40.00 80.00 the true point for the cor. of secs. 5, 6,31 and 32, recently established and described by me. Thence II run, and and an South, on a true line, between secs.5 and 6.

Over extremely mountainous land along the top of a high rock ridge, course SSE. and NAW., fringed with cliffs and steep rock slides. Descend into gorge.
Gorge course SE.; ascend. 7.50 21.00 Extreme top of high ridge, course NNW. and SSE.; descend.
40.00 Set a quartz porphyry stone 6x8x18 ins., 12 ins. in the
ground for the 1 sec., cor., marked 1 on the W.face, and
raise a mound of stones 3 ft. base, 11 ft. high, W.of
cor. Pits impracticable. Continue descent of SW.slope. Descend cliffe, missaredSBEW and NNW. 55.00 Rocky gorge, course SEE.; ascend. Top of high solid rock butte surrounded with cliffs. 64.50 69.80 Descend. The cor of secs. 5, 6, 7 and 6, hereinbefore described. Land extremely mountainous, with chiffs and sliding rock. 80.00 Soil, 4th rate, stony. Scattering greasewood and cactus brush. No grass. Mountainous land, covered with sliding rock or cliffs, and exceptionally difficult to survey, 80.00 chs. December 15, 1911.

#### GENERAL DESCRIPTION .

This township sontains only one variety of land, i.e., worthless, it being stony and mountainous over nearly the entire area. There is not one acre of tillable land within the boundaries of the township, and while there are two springs of water, one being in the NE. t of section 4, and yielding about t of a miners inch of warm alkali water, and the other being a slow seepage of alkali water in the wash of the E.fork of warm Springs Canyon in the NW.t of section 5; neither would be of practical use on account of the alkali contained. The entire township, in a former geological period, was capped with a lava outpouring, which has since beem disintegrated by the air and elements, and washed away, leaving high ridges and mountain peaks, and cutting deep canons and gorges, and leaving a covering of male pais boulders over nearly all the surface. There is practically no grass and no timber, but theremis considerable greasewood and cactus brush, particularly in the southwestern halft of the twwnship.

Chains

There are no evidences of animal life except jackasses, of which some thirty or more were seen by the party during the progress of the work. They are very wild and cannot be approached.

The climated conditions are very irregular, the region being very hot and uninhabitable in the summmer and remarkably cold in the winter. The rainfall ranges from zero to fourteen inches in depth per annum, and is very irregular and uncertain.

The area is drained by Warm Springs Cenon and its tributaries, all of which are dry practically the entire year except at such a time as there may be in progress one of the uncertain torrential rainfalls peculiar to the region;

The elevation ranges from 1250 feet above the sca to about 4000 feet above the sea. There are no settlers within this township.

William & Alexander
U. S. Deputy Surveyor.

December 15,1911.

LIST OF NAMES.	
A list of the names of the individuals employed by	5 B
Ulupoundum, United States Deputy Surveyor, to assist in running	g, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of	1)
Sines of T's 17, 18, and 19 N, 18,19 W, Dr.S.	PBV My air
showing the respective capacities in which they acted:	
David & Moss, Joine Van Marte	Chainman.
Jost & Swoot and B. P. Wulffenste	Chainman.
E. Westover	
Januar Skalou	, Moundman.
Chas Claytow	, Axman.
Jack Pay	, Axman.
W. J. Nations	
FINAL OATH OF ASSISTANTS.	
We hereby certify that we assisted (Julianu 19	Alexander
, United States Deputy Surveyor	, in surveying all
those parts or portions of the	·
Subdivisumal Juies of T/7/	NIGW
Lutdinsimal fries & T18N	PIGW
and Interviewed hires of TIGN PIGW of the	he Sila.
Esalt Prin Pen & meridian, Tunting of angura, which	
in the foregoing field notes as having been surveyed by him and under his direction; and	
has been in all respects, to the best of our knowledge and belief, well and faithfully s	•
General for Genera	States Surveyor
11/6 / 1/1/6 /	
	, Chainman.
Botherster Jonie Wan Marter	
O Wistorio	, Moundman.
anurant that	, Moundman.
The Cayton	, Axman.
Jael (Kag)	, Axman.
IN A Matrian	$\dots$ , $Flagman$ .
1 La autom is not are	who they
Subscribed and sworn to before me this	If the wind stay .
day of Juniary, 19,2 Mellenofall	Market "
U.S. Deb Alu	Lyn
6-151	

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1 (31)	•			
2317	FINAL OAT	H OF UNITED	STATES DEF	PUTY SURVEYOR.
N. Comments	. /	$\bigcap_{i \in I} C_i = C_i$		• • •
بر اا	1 hillians	W// Marie	hu -	., United States Deputy Surveyor,
solemnly sy	year that in nursu			Trank Souver
-	<del></del>			, bearing date of the
~/	day of			well, faithfully, and truly, in my ov
_		1	/	ished by the United States Survey
		•		ying Instructions, and the laws of t
	0	hose parts or portio		J G
				71-19W
				IN PIGW and
and a	w semanu	T LUCTUM	we une of	TIGN RIGW except
_			_	
Kum Jas	u and meridia	in, in the Limit	try of au	which are represented in t
foregoing fi	ield notes as havir	ng been surveyed by	y me, and under my	direction; and I do further solemn
swear that	all the corners of	said survey have be	een established and	perpetuated in strict accordance wi
the Manual	l of Surveying Inst	tructions, and the sp	ecial written instru	actions of the United States Survey
General for	dugm	and in	the specific manner	r described in the field notes, and th
		l field notes of such		
			7/1/	(a) $(a)$
			///www.	19. Ollespander
	•	4	///www.	United States Deputy Surveyo
Cubanibad	by soid William	. Bllevand	/////Wan	
	12	. Bllesands Fr		
Subscribed this	17	<b>A</b>	, and sworn to h	
	12	<b>A</b>		
	12	February		
	12	February		
	day of day of day of seal of s	February	PROVAL.	Male Comments
	day of day of day of seal of s	APF E OF THE UNITED	PROVAL.  STATES SURVEY	OR GENERAL,
	day of day of day of seal of s	APF E OF THE UNITED	PROVAL.  STATES SURVEY	OR GENERAL,
this	day of day of day of SEAL O	APF  E OF THE UNITED	PROVAL.  STATES SURVEY	Male Comments
this	day of SEAL & SEAL & CONTROL OF FICE	APF E OF THE UNITED  Character of the survey of	PROVAL.  STATES SURVEY	OR GENERAL,  na Feb. 26 1913, 19
this	day of SEAL & SEAL & CONTROL OF FICE	APF E OF THE UNITED  Character of the survey of	PROVAL.  STATES SURVEY	OR GENERAL,  na Feb. 26 1913, 19
this	day of SEAL & SEAL & CONTROL OF FICE	APF E OF THE UNITED  Character of the survey of	PROVAL.  STATES SURVEY	OR GENERAL,
this	day of day of day of seal of s	APF E OF THE UNITED  Choses of the survey of a	PROVAL.  STATES SURVEY  Verix Arizo	OR GENERAL,  Range 19 West
this	day of day of day of seal of s	APF E OF THE UNITED  Character of the survey of	PROVAL.  STATES SURVEY  Verix Arizo	OR GENERAL,  Range 19 West
this	day of day of day of seal of s	APF E OF THE UNITED  es of the survey of  I wie no	PROVAL.  STATES SURVEY  Vernix Arizo  To 17 North,  R Base and	OR GENERAL,  Maridian.
The the	day of BOOGGO OFFICE Subdivision.  Subdivision.  Sila an	APF E OF THE UNITED  es of the survey of  I wie no	PROVAL.  STATES SURVEY  Vernix Arizo  To 17 North,  R Base and	OR GENERAL,  Maridian.
The the	day of day of day of seal of s	APF E OF THE UNITED  es of the survey of  I wie no	PROVAL.  STATES SURVEY  Vernix Arizo  To 17 North,  R Base and	OR GENERAL,  Range 19 West

Thank of in gall.
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.

surveys they describe, are hereby approved.