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Accepted, Dept. letter May 7 1910.

BOOK 2173

FIELD NOTES

OF THE SURVEY OF THE

Frac. Subdivision of T. 20 S. R. 28 E.

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Of the Gila and Salt River Base and Meridian,
Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 159, dated June 4, 1909.

Survey commenced August 8, 1909

Survey completed August 13, 1909

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BOOK 2173

NAMES AND DUTIES OF ASSISTANTS.

Edgar M. Darnall,..... Chairman.

Santiago Vindiola,..... Chairman.

Guadalupe Pacheco,..... Moundman.

Silverio Peralta, Axeman.

Manuel Vindiola, Flagman.

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BOOK 2173

INDEX DIAGRAM.

PARTIAL SUBDIVISION.

Township 20 South, Range 28 East

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Edgar M. Donnell and Santiago Vindola
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
Subdivision of T. 20 S. R. 28 E.

Edgar M. Donnell, Chairman.
Santiago Vindola, Chairman.

Subscribed and sworn to before me this 2nd
day of August, 1909

My commission expires August 11, 1909

J. H. Kinstemaker
Notary Public

I, Guillermo Pacheco 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
Subdivision of T. 20 S. R. 28 E.

Guadalupe Pacheco, Moundman.
Moundman.

Subscribed and sworn to before me this 2nd
day of August, 1909

My commission expires August 11, 1909

J. H. Kinstemaker
Notary Public

WE, Silverio Peralta 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
Subdivision of T. 20 S. R. 28 E.

Silverio Peralta, Axman.
Axman.

Subscribed and sworn to before me this 2nd
day of August, 1909

My commission expires August 11, 1909

J. H. Kinstemaker
Notary Public

I, Manuel Vindola, 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
Subdivision of T. 20 S. R. 28 E.

Manuel Vindola, Flagman.

Subscribed and sworn to before me this 2nd
day of August, 1909

My commission expires August 11, 1909

J. H. Kinstemaker
Notary Public

Chains

Survey commenced August 8, 1909, and executed with a Young & Son's light mountain transit No. 6492, with Smith patent solar attachment on side.

The horizontal limb of the instrument is provided with two double verniers each reading to 1' of arc, which is also the least reading of the verniers of the lat. and decl. arcs.

I begin at the Standard cor. of secs. 35 & 36 on S. Bdy. of Township, which is a granite stone 10x4x6 ins. above ground firmly set and marked and witnessed as described by the Surveyor General. Lat. $31^{\circ}38'10''N$. Long. $109^{\circ}27'18''W$.

At this cor. I examine, test, and adjust carefully the levels, the line of collimation, and standards of the instrument, and also test the lat. arc of the solar.

All parts of the instrument being in satisfactory adjustment, to test the solar apparatus by comparing the results of observations for meridians made during a.m. & p.m. hours with a true meridian determined by Polaris observations, I proceed as follows:-

At 4h p.m., l.m.t., at the cor. above described, I set off $31^{\circ}38'N$ on the lat. arc and $16^{\circ}08'N$ on the decl. arc and determine a meridian with the solar, and mark a point in the meridian thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station.

At 10h 24m p.m., l.m.t., I observe Polaris at E. Elong. in accordance with instructions in the "Manual" and mark the line thus determined by a nail driven in a tree 6 chs. N. of my station.

August 9, 1909.

At 6h a.m., l.m.t., I set off the azimuth of Polaris $1^{\circ}23'$ to the W. and mark the true meridian thus determined by a tack in the stake 5 chs. N. of my station, which point falls .25 ins. E. of the line given by the solar on preceding evening.

At 7h a.m., l.m.t., I set off $31^{\circ}38'N$ on the lat. arc and $15^{\circ}58'N$ on the decl. arc and determine a meridian with the solar, and mark the meridian thus determined by a tack in the stake 5 chs. N. of my station, which point falls .20 ins. E. of the point in the meridian determined by Polaris observations.

The solar apparatus, by p.m. & a.m. observations, defines positions for meridians respectively about 12" W. and 10" E. of the meridian determined by Polaris observation. These errors being not more than the usual errors of observation, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h a.m., l.m.t. is $N. 13^{\circ}30' W.$; The angle thus determined gives the magnetic declination as $13^{\circ}30' E.$

From the cor. above described, I run, as per instructions,

N. $0^{\circ}1' W.$ bet. secs. 35 & 36.

Over mts. land asc. precipitous bluff, faces SSE. with great difficulty.

- 3.50 Top of bluff, thence along steep stony E. slope of mountain, through oak timber.
- 20.00 Ranch house of J.E.Hood brs. S. $64^{\circ}20' E.$ about $\frac{1}{2}$ mile. formerly called Sutleys ranch.
- 29.25 Wire fence, brs. N. $6^{\circ} W.$ & S. $6^{\circ} E.$ enter pasture of J.E.Hood.
- 32.00 Cross spur, brs. NE. & SW., desc. steep.
- 38.00 Wire fence, brs. N. $6^{\circ} E.$ & S. $6^{\circ} W.$ leave pasture.
- " Head of gulch course NNE.
- 40.00 Set a granite stone 24x14x10 ins. on bed-rock in mound of stone for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. from which, An oak tree 8 ins. diam. brs. N. $75^{\circ} E.$ 11 lks. dist., marked $\frac{1}{4}$ S. 36 B.T.

Subdivision of T. 20 S. R. 28 E.

Chains	An oak tree 8 ins.diam. brs. N. 47° W. 33 lks.dist., marked $\frac{1}{4}$ S. 35 B.T.
50.00	Gulch 20 lks. wide, course NNW.
59.00	Gulch 150 lks. wide, course WSW. asc.
64.00	Road, to Hoods ranch, brs. E. & W., enters lane 80 lks.E. wire fences N. & S. from mouth of land.
77.00	Road, brs. NE. & SW.
80.00	Set a granite stone 20x12x10 ins. 15 ins. in ground for cor. of secs. 25,26,35 & 36, marked with 1 notch on S.& E. edges and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. from which, An oak tree 8 ins.diam.brs.N.89°E.72 lks.dist., marked T. 20 S. R. 28 E. S. 25 B.T. An oak tree 6 ins.diam.brs.S.32 $\frac{1}{2}$ °E. 96 lks.dist., marked T. 20 S. R. 28 E. S. 36 B.T. An oak tree 8 ins.diam.brs.S.52 $\frac{1}{2}$ °W. 89 lks. dist., marked T. 20 S. R. 28 E. S. 35 B.T. No other bearings available. Land, mts. Soil, 3rd rate, stony. Timber, some oak. Undergrowth, scrub oak, mesquite, tesseta. Mountainous land exceptionally difficult to survey, 80.00 chs.
	East on a random line bet. secs. 25 & 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect old cor. of secs. 25,36,30 & 31, which is a granite stone 13x12x6 ins.above ground marked and witnessed as described by the Surveyor General. Thence I run, West on a true line bet. secs. 25 & 36. Over mts. land asc. over stony broken ground, with great difficulty.
10.00	Top, thence desc. along N. slope.
25.00	Gulch 30 lks. wide, course SW.
38.40	Wire fence, brs. NE. & SW. enter pasture of J.E.Hood
39.98	Set a granite stone 24x12x8 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
42.00	Earth dam and reservoir of J.E.Hood brs. S. 80 lks. dam about 200 ft. long N. & S. across gulch.
45.65	Wire fence, brs. E.N.E. & W.S.W. leave pasture.
50.00	Wash 2 chs. wide, course SW.
71.00	Road, brs. NE. & SW.
79.96	To cor. of secs. 25,26,35 & 36. Land, mts., broken. Soil, 2nd & 3rd rate, gravelly, stony. Timber, some oak. Undergrowth, scrub oak, mesquite, cacti. Mts.land exceptionally difficult to survey, 79.96 chs. At this cor. at 12h 05' p.m., l.m.t., I set off 15°54' N. on the decl. arc and observe the sun on the meridian, The resulting lat. is 31° 39' N.

Subdivision of T. 20 S. R. 28 E.

Chains

- N. 0° 1' W. bet. secs. 25 & 26.
Over mts. land asc.
- 10.00 Wash 120 lks. wide, course SW.
- 30.00 Top of long ridge, brs. SW. & NE., desc. steep NW. slope through dense scrub oak, very stony broken ground.
- 40.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
No bearings available.
- 49.00 Gulch 2 chs. wide, 60 ft. deep, course SW.
Asc. over broken ground.
- 50.00 Road, brs. NE. & SW.
- 78.00 Top of gap of ridge, brs. SW. & NE. desc.
- 80.00 Set a granite stone 24x10x10 ins. 18 ins. in ground for cor. of secs. 23, 24, 25 & 26, marked with 2 notches on S. & 1 notch on E. edges and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
- Land, mts. very broken.
Soil, 3rd rate, gravelly, stony.
Timber, few oak and cedar trees.
Undergrowth, scrub oak, mesquite, cacti.
Mts. land exceptionally difficult to survey, 80.00 chs.
-
- N. 0° 1' W. bet. secs. 23 & 24.
Over mts. land, desc.
- 12.00 Gulch 50 lks. wide, course SW. asc.
- 18.00 Ridge, brs. SW. & NE. desc. NW. slope. through scattering oak timber.
- 40.00 Set a granite stone 24x14x10 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
No bearings available.
Asc. from cor.
- 58.00 Top of ridge, brs. E. & W. desc. over very broken ground.
- 71.25 Gulch 40 lks. wide, course NW. asc.
- 73.10 Gulch 30 lks. wide, course W.
- 77.00 Desc. abrupt.
- 80.00 Cor. point falls in gulch 50 lks. wide, 50 ft. deep, course WNW.
- 80.50 Set a granite stone 24x15x12 ins. 18 ins. in ground for witness cor. to cor. of secs. 13, 14, 23 & 24, marked W.C. on NE. face with 3 notches on S. & 1 notch on E. edges and raise a mound of stone 3 ft. base 2 ft. high W. of cor. from which,
An oak tree 12 ins. diam. brs. N. 83° W. 40 lks. dist., marked T. 20 S. R. 28 E. S. 14 W.C.B.T.
No other bearings available. Pits impracticable.
- Land, mts. very broken.
Soil, 3rd rate, gravelly, stony.
Timber, some oak trees.
Undergrowth, scrub oak, mesquite, cacti. Fair grass.
Mts. land exceptionally difficult to survey, 80.00 chs.

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Chains N. 0° 1' W. bet. secs. 13 & 14. from cor. point in canyon.
 Over mts. land asc. prec.

4.00 Top of N. bank of canyon.
 10.00 Ridge, brs. SW. & NE. desc.
 27.00 Canyon 80 lks. wide, course SW. asc.
 40.00 Top of ridge, brs. SW. & NE.
 Set a granite stone 24x12x8 ins. 18 ins. in ground for
 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone
 2 ft. base 1 1/2 ft. high W. of cor.
 No bearings available.
 Desc.

50.00 Canyon 50 lks. wide, 50 ft. deep, course SW. asc.
 70.00 Spur, brs. SW. & NE. asc. on same.
 75.00 Top of ridge, brs. SW. & NE. Dividing ridge bet. mts. desc.
 80.00 Set a granite stone 24x12x8 ins. 18 ins. in the ground for
 cor. of secs. 11, 12, 13 & 14, marked with 4 notches on S. &
 1 notch on E. edges and raise a mound of stone 2 ft. base
 1 1/2 ft. high W. of cor. Cor. at head of draw, course WSW.
 No bearings available.
 Land, mts., broken.
 Soil, 2nd & 3rd rate, gravelly, stony.
 Timber, some oak trees in canyons.
 Undergrowth, scrub oak, mesquite, cacti. Fair grass.
 Mts. land exceptionally difficult to survey, 80.00 chs.

N. 0° 1' W. bet. secs. 11 & 12.
 Over mts. land asc.

7.00 Ridge, brs. E. & E. desc.
 20.14 Draw 2 chs. wide, course WNW. asc.
 29.00 Ridge, brs. W. & E. desc.
 40.00 Set a granite stone 24x12x10 ins. 18 ins. in the ground for
 1/4 sec. cor. marked 1/4 on W. face, and raise a mound of
 stone 2 ft. base 1 1/2 ft. high W. of cor.
 No bearings available.

44.00 Main draw, 3 chs. wide, course W. asc.
 55.00 Ridge, brs. SW. & NE. desc.
 62.00 Draw 50 lks. wide, course WSW. asc.
 65.00 Knoll, brs. SW. & NE. desc.
 69.00 Draw 80 lks. wide, course SW. asc.
 75.00 Spur, brs. SW. & NE. desc.
 80.00 Set a granite stone 20x8x6 ins. 15 ins. in ground for
 cor. of secs. 1, 2, 11, & 12, marked with 5 notches on S. &
 1 notch on E. edges and raise a mound of stone 2 ft. base
 1 1/2 ft. high W. of cor.
 No bearings available. Pits impracticable.
 Land, mts.
 Soil, 2nd rate, gravelly, stony.
 Few oak trees.
 Undergrowth, scattering scrub oak, mesquite cacti.
 Good native grass.
 Mts. land exceptionally difficult to survey, 80.00 chs.
 August 9, 1909.

Subdivision of T. 20 S. R. 28 E.

Chains

August 10, 1909.
 At 7h a.m., l.m.t., at the Standard cor. of secs. 34 & 35 on S. bdy. of Tp., which is a granite stone 12x12x8 ins. above ground firmly set and marked and witnessed as described by the Surveyor General,
 I set off 15° 41' N. on the decl. arc and 31° 38' N. on the lat. arc and determine a true meridian with the solar,
 Thence I run,
 N. 0° 1' W. bet. secs. 34 & 35.
 Over mts. land asc. steep, stony S. slope. with great difficulty.

10.00 Top of ridge, brs. SW. & NE. desc. steep.
 22.50 Gulch 120 lks. wide, course SW. asc.
 32.00 Top of flat ridge, brs. W. & E. desc.
 37.20 Road, brs. E. & W. To Hoods ranch, in draw 2 chs. wide, course W. asc.
 40.00 Set a granite stone 24x14x10 ins. 18 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.
 Asc. grad. along gentle SE. slope.
 59.00 Wire fence, brs. S. 50° W. & N. 50° E. Enter pasture of C. O. Wills.
 67.00 Flat rocky ridge, brs. SW. & NE. desc.
 77.75 Rocky gulch 80 lks. wide, course WSW.
 80.00 Set a granite stone 20x15x10 ins. 15 ins. in ground for cor. of secs. 26, 27, 34 & 35, marked with 1 notch on S. & 2 notches on E. edges and raise a mound of stone 4 ft. base 3 ft. high W. of cor. from which,
 An oak tree 8 ins. diam. brs. N. 72 1/4° E. 38 lks. dist., marked T. 20 S. R. 28 E. S. 26 B.T.
 An oak tree 10 ins. diam. brs. S. 87 1/2° W. 118 lks. dist., marked T. 20 S. R. 28 E. S. 34 B.T.
 An oak tree 12 ins. diam. brs. N. 46 1/2° W. 53 lks. dist., marked T. 20 S. R. 28 E. S. 27 B.T.
 No other bearings available.
 Land, mts.
 Soil, 2nd & 3rd rate, gravelly, stony.
 Timber, oak.
 Undergrowth, scrub oak, mesquite, tesselata, cacti. Fair grass.
 Mts. and broken land, exceptionally difficult to survey, 80.00 chs.

East on a random line bet. secs. 26 & 35.
 40.00 Set temp. 1/4 sec. cor.
 80.20 Intersect cor. of secs. 25, 26, 35 & 36, whence I run, West on a true line bet. secs. 26 & 35.
 Over broken & mts. land desc.
 4.85 Gulch 50 lks. wide, course SW. asc. SE. slope.
 30.00 Top of long ridge, brs. WSW. & ENE. Enter dense mesquite.
 40.10 Set a granite stone 24x10x10 ins. 18 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. No bearings available.
 50.00 Leave mesquite and desc. NW. slope, through scattering oak timber.
 75.50 Wire fence brs. N. & S. Enter pasture of C. O. Wills.
 80.20 To cor. of secs. 26, 27, 34 & 35.
 Land, Mts. broken.
 Soil, 2nd & 3rd rate, gravelly, stony.
 Few oak trees.
 Undergrowth, mesquite, scrub oak, Good native grass.
 Mts. & broken land or land covered with dense undergrowth, and exceptionally difficult to survey, 80.20 chs.

Chains N.0° 1' W. bet. secs. 26 & 27,
 Over heavily rolling land through dense scrub oak, dec.
 6.00 House of C.O.Wills, brs. W. 4 chs. formerly known as the
 Linderman Ranch.
 7.60 Main wash 3 chs. wide, course W. asc. grad. thro dense
 palmeo & yucca.
 8.95 Wire fence, brs. NE. & SW. leave pasture of C.O.Wills.
 30.50 ^{Read brs. E. and W.} Main wash, 3 chs. wide, course SSE.
 Enter dense yucca & sacaton.
 40.00 Set a granite stone 24x12x10 ins. 18 ins. in ground for
 ¼ sec. cor. marked ¼ on W. face and raise a mound of
 stone 2 ft. base 1½ ft. high W. of cor.
 No bearings available.
 62.00 Enter wash 2 chs. wide, course SSW. asc. in meanderings
 of same.
 76.00 Leave wash, course SSE.
 80.00 On E. bank of wash,
 Set a Granite stone 24x14x10 ins. 18 ins. in ground for
 cor. of secs. 22,23, 26 & 27, marked with 2 notches on
 S. & E. edges, and raise a mound of stone 3 ft. base 2
 ft. high W. of cor. No bearings available.
 Land, heavily rolling.
 Soil, 2nd rate, sandy.
 Timber, oak, walnut.
 Undergrowth, scrub oak, palmeo, yucca, sacaton, mesquite.
 Rolling land covered with dense undergrowth, 80.00 chs.
 At this cor. at noon, I set off 15° 36½' N. on the
 decl. arc and observe the sun on the meridian.
 The resulting lat. is 31° 40' N.

East on a random line bet. secs. 23 & 26.
 40.00 Set temp. ¼ sec. cor.
 80.20 Intersect Cor. of secs. 23,24,25 & 26, whence I run,
 West, on a true line bet. secs. 23 & 26,
 Over mts. land asc.
 6.00 N. point of spur, brs. NW. & SE. desc.
 23.00 Gulch 130 lks. wide, course S. asc.
 28.00 Ridge, brs. S. & N. desc.
 37.00 Gulch 30 lks. wide, course SSE. asc.
 40.10 Set a granite stone 24x12x8 ins. 18 ins. in ground for
 ¼ sec. cor. marked ¼ on N. face and raise a mound of
 stone 2 ft. base 1½ ft. high N. of cor.
 No bearings available. Pits impracticable.
 43.00 Ridge, brs. S. & N. desc.
 58.00 Gulch 30 lks. wide, course SSW. asc.
 72.00 Top of sharp ridge, brs. S. & N. desc.
 80.20 To cor. of secs. 22,23, 26 & 27.
 Land, mts. broken.
 Soil, 2nd & 3rd rate, stony.
 Few oak trees in gulches.
 Undergrowth, scrub oak, mesquite, cacti.
 Mts. & broken land, exceptionally difficult to survey,
 80.20 chs.

Subdivision of T. 20 S. R. 28 E.

Chains

N. 0° 1' W. bet. secs. 22 & 23.
 Over mts. land asc.
 .80 Main wash 80 lks. wide, course SSW. asc. grad.
 11.00 Wash 50 lks. wide, course SE.
 12.00 Main road, brs. NE. & SW.
 18.00 Main wash, road in same, course SSE.
 40.00 Set a granite stone 20x12x12 ins. 15 ins. in ground for
 ¼ sec. cor. marked ¼ on W. face, and raise a mound of
 stone 2 ft. base 1½ ft. high W. of cor.
 No bearings available.
 42.00 Ridge, brs. SW. & NE. desc. over broken W. slope of same.
 80.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for
 cor. of secs. 14,15,22 & 23, marked with 3 notches on
 S. & 2 notches on E. edges and raise a mound of stone
 3 ft. base 2 ft. high W. of cor.
 No bearings available.
 Land, mts., broken.
 Soil, 2nd rate, gravelly.
 No timber.
 Undergrowth, scattering mesquite, yucca, Good native grass.
 Mts. & broken land exceptionally difficult to survey,
 80.00 chs.

East, on a random line bet. secs. 14 & 23.
 40.00 Set temp. ¼ sec. cor.
 80.12 Intersect N. & S. line at point 7 lks S. of true point for cor.
 secs. 13, 14, 23 & 24, whence I run,
 S. 89° 57' W. on a true line bet. secs. 14 & 23.
 Over very rough stony ground along N. edge of canyon.
 with great difficulty.
 3.70 Cross canyon, course WSW.
 11.40 Cross same canyon, course, WNW.
 21.72 Same canyon, course WSW. asc. steep.
 24.00 Top of NW. rim,
 28.35 Gulch 30 lks. wide, course S. asc.
 36.00 Ridge, brs. S. & N. desc.
 40.06 Set a granite stone 20x15x6 ins. 15 ins. in ground for
 ¼ sec. cor. marked ¼ on N. face, and raise a mound of
 stone 2 ft. base, 1½ ft. high N. of cor.
 No bearings available.
 44.00 Wash 20 lks. wide, course S. asc. grad.
 68.00 Ridge, brs. SW. & NE. desc.
 80.12 To cor. of secs. 14,15,22 & 23.
 Land, Mts., broken.
 Soil, 2nd & 3rd rate, gravelly, stony.
 Timber, some oak and walnut in canyons.
 Undergrowth, scattering scrub oak, mesquite.
 Good native grass.
 Mountainous and broken land exceptionally difficult
 to survey, 80.12 chs.

August 10, 1909.

August 11, 1909.
 At 7h a.m., 1.m.t., at the cor. of secs. 14,15,22 & 23,
 I set off 15° 23½' N. on the decl. arc and 31° 41' N.
 on the lat. arc and determine a true meridian with the
 solar,
 Thence I run,

Chains
 N. 0° 1' W. bet. secs. 14 & 15.
 Over mts. land desc.
 8.00 Draw 2 chs. wide, course SW. asc.
 35.00 Cross SE. point of spur, brs. SE. & NW.
 40.00 Top of ridge, brs. SSW. & NNE.
 Set a granite stone 24x12x8 ins. 18 ins. in ground for
 ¼ sec. cor. marked ¼ on W. face and raise a mound of
 stone 2 ft. base 1½ ft. high W. of cor.
 No bearings available. Asc. on ridge.
 53.00 Top of low divide between the Chiricahua and Swisshelm
 mountains, brs. E. & W. Desc.
 80.00 Set a granite stone 15x10x10 ins. 10 ins. in ground for
 cor. of secs. 10, 11, 14 & 15, marked with 4 notches on
 S. & 2 notches on E. edges, and raise a mound of stone
 3 ft. base, 2 ft. high W. of cor. No bearings available.
 Land, Mts., broken.
 Soil, 2nd rate, gravelly.
 No timber.
 Undergrowth, scattering mesquite. Good native grass.
 Mts. land, exceptionally difficult to survey, 80.00 chs.

N. 89° 57' E. on a random line bet. secs. 11 & 14.
 40.00 Set temp. ¼ sec. cor.
 80.10 Intersect N. & S. line at point 7 lks. N. of cor. of
 secs. 11, 12, 13 & 14,
 whence I run,
 West, on a true line bet. secs. 11 & 14.
 Over mts. land asc. grad.
 22.00 Top of ridge, brs. WSW. & ENE. desc. grad.
 40.05 Set a granite stone 24x12x8 ins. 18 ins. in ground for
 ¼ sec. cor. marked ¼ on N. face, and raise a mound of
 stone 2 ft. base, 1½ ft. high N. of cor., from which,
 An oak tree 12 ins. diam. brs. N. 29° E. 64 lks. dist.,
 marked ¼ S. 11 B.T.
 No other bearings available.
 50.00 Draw 2 chs. wide, course NW. asc. over very broken ground.
 63.50 Spur, brs. N. & S. desc.
 69.00 Head of gulch, course N. asc.
 77.00 Spur, brs. N. & S. desc.
 80.10 To cor. of secs. 10, 11, 14 & 15.
 Land, mts., broken.
 Soil, 2nd rate, gravelly, stony.
 Timber, few oak trees.
 Undergrowth, scattering scrub oak and mesquite.
 Good native grass.
 Mts. land exceptionally difficult to survey, 80.10 chs.

N. 0° 1' W. bet. secs. 10 & 11.
 Over mts. land, desc. grad.
 25.00 Middle of draw 10 chs. wide, course WNW. asc. grad.
 37.44 Wire fence, brs. E. & W. Enter desert claim of J.E. Hood.
 40.00 Set a granite stone 24x14x12 ins. 18 ins. in ground for
 ¼ sec. cor., marked ¼ on W. face and raise a mound of stone
 2 ft. base 1½ ft. high W. of cor. No bearings available.
 44.00 Long ridge, brs. E. & W. desc. grad.
 65.00 Middle of main draw 15 chs. wide, course WNW. asc. grad.
 78.00 Wire fence, brs. E. & W. Leave desert claim of J.E. Hood.
 80.00 Set a granite stone 20x10x6 ins. 15 ins. in ground for
 cor. of secs. 2, 3, 10 & 11, marked with 5 notches on S. &
 2 notches on E. edges and raise a mound of stone 3 ft.
 base 2 ft. high W. of cor. No bearings available.
 Land mts.
 Soil, 2nd rate, sandy, loamy, gravelly.
 No timber or undergrowth. Good native grass.
 Mountainous land, 80.00 chs.

Subdivision of T. 20 S. R. 28 E.

Chains East on a random line bet. secs. 2 & 11.

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

80.08 Intersect N. & S. line at point 5 lks. S. of cor. of secs. 1, 2, 11 & 12, whence I run, S. $89^{\circ} 58'$ W. on a true line bet. secs. 2 & 11. Over mts. land desc.

1.00 Draw 80 lks. wide, course SW. asc.

8.00 Ridge, brs. SW. & NE. desc.

14.00 Draw 50 lks. wide, course SW. asc.

22.00 Spur, brs. SW. & NE. desc.

32.50 Draw 4 chs. wide, course SW. asc.

37.00 Cor. of wire fence of desert claim of J.E. Hood, brs. S. 160 lks. fence runs S. & W. from cor.

40.00 Spur, brs. SW. & NE. desc.

40.04 Set a granite stone 24x14x10 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base 2 ft. high N. of cor. No bearings available.

46.00 Draw 3 chs. wide, course S. asc.

55.00 Spur, brs. SW. & NE. desc.

" A small house on desert claim of J.E. Hood, brs. S. $22^{\circ} 50'$ E., about 30 chs. on SE. side of main draw. A reservoir, now dry, about 30 acres in extent, is N. of house in draw. An earth dam about 400 ft. long is NE. of house across draw.

60.00 Draw, 1 ch. wide, course SW. near head. asc.

70.00 Spur, brs. SW. & NE. desc.

80.08 To cor. of secs. 2, 3, 10 & 11. Land, mts., broken. Soil, 2nd rate, sandy, gravelly. No timber or undergrowth. Fine native grass. Mts. & broken land exceptionally difficult to survey, 80.08 chs. At this cor. at noon, I set off $15^{\circ} 19'$ N. on the decl. arc and observe the sun on the meridian. The resulting lat. is $31^{\circ} 43'$ N.

From the Standard cor. of secs. 33 & 34 on S. bdy. of Tp., which is a granite stone 10x9x8 ins. above ground, marked and witnessed as described by the Surveyor General, which cor. I re-mark and rebuild the mound of stone 3 ft. base 2 ft. high N. of cor. \therefore , I run, N. $0^{\circ} 2'$ W. bet. secs. 33 & 34., Over mts. & broken land desc., through dense scrub oak palmeo & yucca, with great difficulty.

7.00 Gulch 50 lks. wide, course ESE. asc.

35.00 Flat ridge, brs. SE. & NW. desc.

40.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available.

48.45 Gulch 30 lks. wide, course SE. asc.

59.00 Old road, brs. E. & W. Descend.

70.20 Gulch 80 lks. wide, course ESE. asc.

71.20 Road, brs. E. & W. in gulch. asc. steep.

77.00 Ridge, brs. E. & W. desc.

80.00 Set a granite stone 24x14x10 ins. 18 ins. in ground for cor. of secs. 27, 28, 33 & 34, marked with 3 notches on E. & 1 notch on S. edges, and raise a mound of stone 3 ft. base 2 ft. high W. of cor. No bearings available. Cor. is in old road, brs, WNW. & ESE. Land, mts., broken. Soil, 2nd & 3rd rate, sandy, gravelly, stony. No timber. Undergrowth, scrub oak, tesseta, cedar, mesquite, greasewood, palmeo, yucca. Mts. & broken land covered with dense undergrowth and exceptionally difficult to survey, 80.00 chs.

Subdivision of T. 20 S. R. 28 E.

Chains	East, on a random line bet. secs. 27 & 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. & S. line at point $2\frac{1}{2}$ lks. S. of cor. of secs. 26, 27, 34 & 35, whence I run, S. $89^{\circ} 59'$ W., on a true line bet. secs. 27 & 34., Over mts. & broken land desc., through dense scrub oak, tesseta & mesquite.
3.80	Wash 2 chs. wide, course SW. asc.
14.55	Wire fence, brs. NE. & SW., leave pasture of C.O. Wills.
15.50	Road, brs. NE. & SW.
17.00	Asc. steep.
20.00	Top, thence over broken ground.
34.50	Old road, brs. NE. & SW.
40.05	Set a granite stone 24x12x8 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor., from which, An oak tree 15 ins. diam. brs. N. 27° W. 40 lks. dist., marked $\frac{1}{4}$ S. 27 B.T. An oak tree 15 ins. diam. brs. S. 11° W. 166 lks. dist., marked $\frac{1}{4}$ S. 34 B.T.
49.10	Road, brs NW. & SE.
52.70	Gulch 150 lks. wide, course S.
59.70	Gulch 80 lks. wide, course SE.
80.10	To cor. of secs. 27, 28, 33 & 34. Land, mts. broken. Soil, 2nd & 3rd rate, gravelly, stony. Timber, some oak and cedar. Undergrowth, scrub oak, cedar, tesseta, mesquite. Mts. & broken land covered with dense undergrowth, and exceptionally difficult to survey, 80.10 chs.
	N. $0^{\circ} 2'$ W. bet. secs. 27 & 28. Over very broken, mts. land, asc. thro dense scrub oak.
3.00	Flat ridge, brs. ESE. & WNW. desc.
8.30	Gulch 30 lks. wide, course E. asc.
16.00	Ridge, brs. E. & W. desc.
20.75	Gulch 30 lks. wide, course E. asc.
30.45	Gulch 20 lks. wide, course E. asc.
38.00	Desc. abrupt 60 ft. into canyon.
40.00	Cor. point falls in canyon 150 lks. wide, course SE. A spring in same is 3 chs. SE. A small house belonging to J.N. Edwards, brs. S. 50° E. 8 chs.
40.90	I mark an oak tree 8 ins. diam. for witness cor. to $\frac{1}{4}$ sec. cor., W.C. $\frac{1}{4}$ S. 28 on W. and S. 27 on E. faces, E. & W. faces well blazed, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. from which, An oak tree 8 ins. diam. brs. N. 75° E. 40 lks. dist., marked W.C. $\frac{1}{4}$ S. 27 B.T. An oak tree 4 ins. diam. brs. N. 22° W. 35 lks. dist., marked W.C. $\frac{1}{4}$ S. 28 B.T.
43.00	Top of N. bank of canyon.
48.00	Wire fence, brs. E. & W. Enter pasture of J.N. Edwards. House of J.N. Edwards in canyon, brs. W., about 15 chs. dist.
50.20	Road, brs. E. & W. Top of flat ridge, brs. E. & W. desc.
50.65	Wire fence, brs. NW. & SE. leave pasture.
65.15	Gulch 20 lks. wide, course E. asc.
74.15	Gulch 30 lks. wide, course SE. asc. steep.
77.40	Wire fence, brs. NE. & SW. Enter pasture of J. Hazelwood.
80.00	Set a granite stone 20x10x8 ins. 15 ins. in ground for cor. of secs. 21, 22, 27 & 28, marked with 3 notches on E. & 2 notches on S. edges, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available. Land, mts. very broken. Soil, 2nd & 3rd rate, gravelly, stony. Timber, scattering oak & cedar. Undergrowth, scrub oak, cedar, tesseta, greasewood, mesquite. Mts. & broken land exceptionally difficult to survey, 80.00 chs. August 11, 1909.

Subdivision of T. 20 S. R. 28 E.

Chains August 12, 1909.
 At 7h a.m., l.m.t., at the cor. of secs. 27, 28, 33 & 34, recently established by me, I set off 15° 05' N. on the decl. arc and 31° 39' N. on the lat. arc, and determine a true meridian with the solar, thence I run,
West, bet. secs. 28 & 33.
 Over mts. & broken land desc., through dense tesseta.
 15.75 Gulch 80 lks. wide, course SE. asc.
 24.00 Gulch 30 lks. wide, course NE.
 39.00 Top of ridge, brs. SE. & NW. desc. grad.
 40.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
 No bearings available.
 H House of Samuel Kirkendall, brs. N. 37° E. about 14 chs.
 46.00 Road, brs NW. & SE. Enter dense cedar brush.
 57.60 Gulch 120 lks. wide, course SE. enter dense sage brush.
 68.33 Road, brs. NW. & SE. ascend.
 80.00 Set a granite stone 20x12x10 ins. 15 ins. in ground for cor. of secs. 28, 29, 32 & 33 marked with 4 notches on E. & 1 notch on S. edges, and raise a mound of stone 2 ft. base 2 ft. high W. of cor. No bearings available.
 Land, mts. broken.
 Soil, 2nd & 3rd rate, gravelly, stony.
 Timber, cedar, oak.
 Undergrowth, tesseta, mesquite, cedar, scrub oak, dense sage brush.
 Mts. or broken land covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chs.

N. 0° 2' W. bet. secs. 28 & 29.
 Over very broken, mts. land, along E. slope of Swisshelm mountains, through dense cedar brush & sage brush, with great difficulty.
 2.70 Road, brs. E. & W.
 10.25 Wash 30 lks. wide, course ENE.
 14.70 Wash 50 lks. wide, course E.
 21.40 Road, brs. E. & W.
 27.40 Wash 30 lks. wide, course SE.
 40.00 Set a granite stone 20x12x10 ins. 15 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, from which,
 An oak tree 12 ins. diam. brs. N. 45° E. 39 lks. dist., marked $\frac{1}{4}$ S. 28 B.T.
 An oak tree 4 ins. diam. brs. N. 1° W. 116 lks. dist., marked $\frac{1}{4}$ S. 29 B.T.
 57.50 Gulch 80 lks. wide, course E.
 69.00 Main gulch 80 lks. wide, course ESE.
 79.00 Gulch 50 lks. wide, course SSE.
 80.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for cor. of secs. 20, 21, 28 & 29, marked with 4 notches on E. & 2 notches on S. edges, and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. from which,
 An oak tree 6 ins. diam. brs. N. 63 $\frac{1}{2}$ ° E. 41 lks. dist., marked T. 20 S. R. 28 E. S. 21 B.T.
 An oak tree 12 ins. diam. brs. S. 70° E. 47 lks. dist., marked T. 20 S. R. 28 E. S. 28 B.T.
 An oak tree 6 ins. diam. brs. S. 42 $\frac{1}{2}$ ° W. 36 lks. dist., marked T. 20 S. R. 28 E. S. 29 B.T.
 An oak tree 26 ins. diam. brs. N. 30° W. 79 lks. dist., marked T. 20 S. R. 28 E. S. 20 B.T.
 Land, mts., broken.
 Soil, 2nd & 3rd rate, gravelly, stony.
 Timber, oak, cedar.
 Undergrowth, cedar, scrub oak, manzanita, cacti.
 Mts. & broken land covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chs.

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Subdivision of T. 20 S. R. 28 E.

Chains East, on a random line bet. secs. 21 & 28.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.92 Intersect N. & S. line 12 lks. N. of cor. of secs.,
 21, 22, 27 & 28, whence I run,
 N. $89^{\circ} 55'$ W. on a true line bet. secs. 21 & 28.
 Over mts. land, desc.
 3.25 Main gulch 80 lks. wide, course SE. Asc. through dense
 scrub oak and cedar, with great difficulty.
 20.08 Wire fence, brs. N. 50° W. & S. 50° E., Leave pasture of
 John Hazelwood.
 26.00 Road, top of ridge, brs. NW. & SE. desc.
 36.50 Gulch 30 lks. wide, course SE.
 39.96 Set a granite stone 24x12x8 ins. 18 ins. in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound of
 stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. from which,
 An oak tree 6 ins. diam. brs. N. 35° E. 12 lks. dist.,
 marked $\frac{1}{4}$ S. 21 B.T.
 A cedar tree 14 ins. diam. brs. S. 72° E. 153 lks. dist.,
 marked $\frac{1}{4}$ S. 28 B.T.
 43.00 Gulch 60 lks. wide, course, SE. asc.
 48.00 Road, brs. SE. & NW.
 60.00 House of John Hazelwood, brs. N. 18 chs.
 75.00 Ridge, brs. SE. & NW. desc.
 79.92 To cor. of secs. 20, 21, 28 & 29.
 Land, mts., broken.
 Soil, 2nd & 3rd rate, gravelly, stony.
 Timber, oak, cedar.
 Undergrowth, scrub oak, cedar, manzanita, cacti.
 Mts. & broken land covered with dense undergrowth and
 exceptionally difficult to survey, 79.92 chs.
 At this cor. at noon, I set off $15^{\circ} 1'$ N. on the decl.
 arc and observe the sun on the meridian.
 The resulting lat. is $31^{\circ} 40'$ N.

N. $89^{\circ} 59'$ E. on a random line bet. secs. 22 & 27.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.14 Intersect N. & S. line at point 7 lks. N. of cor. of
 secs. 22, 23, 26 & 27, whence I run,
 N. $89^{\circ} 58'$ W. on a true line bet. secs. 22 & 27.
 Over mts. land, asc.
 .30 Main wash 50 lks. wide, course S.
 2.30 Main road, brs. N. & S.
 5.50 Road, brs. N. & S.
 20.00 Ridge, brs. SE. & NW. desc. grad. along SW. slope.
 37.00 Mouth of wash, from NW.
 40.07 Set a granite stone 20x12x8 ins. 15 ins. in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, from which,
 An oak tree 26 ins. diam. brs. S. 6° W. 38 lks. dist.,
 marked $\frac{1}{4}$ S. 27 B.T.
 An oak tree 6 ins. diam. brs. N. 65° W. 63 lks. dist.,
 marked $\frac{1}{4}$ S. 22 B.T.
 Asc. along N. side of gulch over very broken ground.
 Through dense cedar, & scrub oak. with great difficulty.
 61.00 Cross gulch 80 lks. wide, course ESE. asc. along S. side
 of same.
 69.00 Same gulch, near head, course ENE.
 71.63 Road, brs. N. & S.
 78.00 Wire fence, brs. N. & S. Enter pasture of J. Hazelwood.
 80.14 To cor. of secs. 21, 22, 27 & 28.
 Land, Mts., broken.
 Soil, 3rd rate, gravelly, stony.
 Timber, some oak & cedar.
 Undergrowth, scrub oak, cedar, manzanite, cacti.
 Mts. & broken land, 40.07 chs.
 Mts. land covered with dense undergrowth, and
 exceptionally difficult to survey, 40.07 chs.

Subdivision of T. 20 S., R. 28 E.

C hains

N.0° 2' W. bet. sec. 21 & 22.
 Over mts. land asc.
 17.55 Wire fence, top of ridge, brs. SE. & NW., Leave pasture.
 Desc.
 40.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for
 1/4 sec. cor. marked 1/4 on W. face, and raise a mound of
 stone 2 ft. base 1 1/2 ft. high W. of cor.
 No bearings available.
 Thence over rolling flat, through mesquite brush.
 68.10 Road, brs. SE. & NW.
 80.00 Set a granite stone 24x14x10 ins. 18 ins. in ground for
 cor. of secs. 15, 16, 21, & 22, marked with 3 notches on
 S. & E. edges, and T. 20 S. on NE., & R. 28 E. on SE.
 faces, and raise a mound of stone 3 ft. base 2 ft. high
 W. of cor.
 No bearings available.
 Land mts. & rolling.
 Soil, 2nd rate, gravelly, sandy.
 No timber.
 Undergrowth, mesquite, tesseta, sacaton .
 Good native grass.
 Mts. land or land covered with dense undergrowth,
 80.00 chs.

S.89° 58' E. on a random line bet. secs. 15 & 22.
 40.00 Set temp. 1/4 sec. cor.
 80.10 Intersect N. & S. line at point 5 lks. S. of cor. of
 secs. 14, 15, 22 & 23,
 whence I run,
 West, on a true line bet. secs. 15 & 22.
 Over mts. land, desc. grad.
 4.00 Draw 80 lks. wide, course SW. asc.
 8.00 Flat ridge, brs. SSW. & NNE. desc.
 32.00 Wash 30 lks. wide, course S. asc. grad.
 34.40 Main road, brs. N. & S.
 36.00 Wash 20 lks. wide, course SE.
 40.05 Set a granite stone 24x15x12 ins. 18 ins. in ground for
 1/4 sec. cor. marked 1/4 on N. face and raise a mound of
 stone 2 ft. base 1 1/2 ft. high N. of cor.
 No bearings available.
 44.25 Road, brs. N. & S.
 48.00 Flat ridge, brs. S. & N. desc. grad.
 77.00 Wash 50 lks. wide, course SE. asc.
 80.10 To cor. of secs. 15, 16, 21 & 22.
 Land, mts.
 Soil, 2nd rate, sandy, gravelly.
 No timber.
 Undergrowth, scattering mesquite, tesseta.
 Fine native grass.
 Mountainous land, 80.10 chs.

August 12, 1909.

Chains

August 13, 1909.
 At 7h a.m., l.m.t., at the cor. of secs. 15, 16, 21 & 22, recently established by me, I set off $14^{\circ} 47\frac{1}{2}' N.$ on the decl. arc and $31^{\circ} 41' N.$ on the lat. arc and determine a true meridian with the solar.
 Thence I run,
 N. $0^{\circ} 2' W.$ bet. secs. 15 & 16.
 Over mts. land asc.
 22.00 Top of E. end of high Hill, brs. E. & W. desc. very broken E. slope.
 39.00 Gulch 30 lks. wide, course E. asc.
 40.00 Set a granite stone 20x12x10 ins. 15 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available.
 Asc. grad. over broken SE. slope.
 74.00 Spur, brs. E. & W. desc.
 80.00 Set a granite stone 24x15x12 ins. 18 ins. in ground for cor. of secs. 9, 10, 15 & 16, marked with 4 notches on S. & 3 notches on E. edges, and raise a mound of stone 3 ft. base $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available.
 Land, mts. broken.
 Soil, 2nd & 3rd rate, gravelly, stony.
 No timber.
 Undergrowth, mesquite, tesseta, scrub oak.
 Mountainous and broken land exceptionally difficult to survey, 80.00 chs.

East, on a random line bet. secs. 10 & 15.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect N. & S. line at point 5 lks. S. of cor. of secs. 10, 11, 14 & 15, whence I run, S. $89^{\circ} 58' W.$ on a true line bet. secs. 10 & 15.
 Over mts. land, desc.
 4.00 Draw 1 chs. wide, course N. asc.
 13.00 Spur, brs. NW. & SE. desc.
 23.00 Draw 80 lks. wide, course NW. asc.
 33.00 Spur, brs. NW. & SE. desc.
 40.04 Set a granite stone 14x10x6 ins. 10 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
 No bearings available.
 50.60 Main, road, brs. N. & S.
 51.80 Middle of long draw, 3 chs. wide, course NNW. asc.
 78.00 Spur, brs. NE. & SW. desc.
 80.08 To cor. of secs. 9, 10, 15 & 16.
 Land, mts.
 Soil, 2nd rate, gravelly.
 No timber, or undergrowth. Fine native grass.
 Mountainous land, 80.08 chs.

N. $0^{\circ} 2' W.$ bet. secs. 9 & 10.
 Over heavily rolling, land. desc. grad.
 6.00 Draw 2 chs. wide, course NE. asc. grad.
 27.00 Top of rise, desc. grad.
 36.00 Head of draw, course E. asc.
 40.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings avail.
 45.00 Top of rise desc. grad.
 75.50 Draw, 4 chs. wide, course NE.
 80.00 Set a granite stone 20x12x10 ins. 15 ins. in ground for Cor. of secs. 3, 4, 9 & 10, marked with 5 notches on S. & 3 Notches on E. edges, and raise a mound of stone 3 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available.

Subdivision of T. 20 S. R. 28 E.

Chains

Land, rolling.
Soil, 2nd rate, sandy, gravelly.
No timber or undergrowth. Good native grass.
Rolling land, 80.00 chs.
At this cor. at noon, I set off 14° 43' N. on the decl. arc and observe the sun on the meridian.
The resulting lat. is 31° 43' N.

- 40.00 N. 89° 58' E. on a random line bet. secs. 3 & 10.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. & S. line at point 5 lks. N. of cor. of secs. 2,3,10 & 11, whence I run, West, on a true line bet. secs. 3 & 10.
Over heavily rolling, land, dec. broken SW. slope.
- 30.00 Enter Valley of main draw.
- 36.00 Road to Hoods desert claim, brs. NW. & SE.
- 38.40 Middle of main wash of draw, 80 lks. wide, course NW.
Draw is about 20 chs. wide at this point.
- 40.00 Set a granite stone 24x14x10 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 4 ft. base 3 ft. high covered with earth N. of cor.
No bearings available.
- 61.80 Wash 40 lks. wide, course NW. asc. grad.
- 62.00 Main road, brs. NNW. & SSE.
- 72.00 Spur, brs. N. & S. desc.
- 76.70 Draw 3 chs. wide, course NE. asc.
- 80.00 To cor. of secs. 3,4, 9 & 10.
Land, heavily rolling.
Soil, 2nd rate, sandy, loamy.
No timber or undergrowth. Fine native grass.
Rolling land, 80.00 chs.

Having surveyed 12 sections in this Township as per instructions, I discontinue my subdivision of this Tp.

General Description.

This Tp. lies mostly in a broken valley between the main ranges of the Chiricahua and Swisshelm mountains. The Eastern portion lying in the broken W. slope of the Chiricahua mts. and the Western portion along the broken E. slope of the Swisshelm mts.
The land is in general very broken, with steep, gravelly or stony slopes, except in the Northern portion surveyed which is more smooth and grassy, being on the divide bet. the two main ranges.
I found the following settlers located in the sections designated, who have substantial houses and valuable improvements on the land they occupy.
J.N.Edwards, in NE. $\frac{1}{4}$ of secs. 28.
Sam.Kirkendall in SE. $\frac{1}{4}$ of sec.28.
C.O.Wills, in SE. $\frac{1}{4}$ of sec. 27.
J.E.Hood, Ranch house and windmill, etc. in SW. $\frac{1}{4}$ sec.36. also small house, with reservoir and improvements in NW. $\frac{1}{4}$ of sec.11, and NE. $\frac{1}{4}$ of sec. 10.
I learned that several settlers had located on land in sections 23 & 26, but had abandoned same, as they found that the land was unsurveyed and did not understand the procedure necessary to obtain a survey.
John Hazelwood is located in sec. 21. and Sam.McDonald approximately in sec. 17, whose claims I could not include in the survey of 12 sections. All of this Township should have been surveyed, as there is much good agricultural land in the valleys of the washes, and good water can be developed. The summer rainfall is

James G. ...

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peculiarly abundant in this region, and sufficient to grow and mature crops without irrigation. The grass and vegetation is luxuriant in the valleys of the main washes, the soil of which is very fertile. Inasmuch as the survey of only 12 sections in this Tp. was a small, isolated piece of work, and far from supplies, the work could not be executed except at maximum rates.

August 13, 1909.

Jesse B. Wright
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Jesse B. Wright

....., 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

Subdivision of T. 20 S. R. 23 E.

showing the respective capacities in which they acted:

Edgar M. Darnall, , *Chainman.*

Santiago Vindiola, , *Chainman.*

Guadalupe Pacheco, , *Moundman.*

..... , *Moundman.*

Silverio Peralta, , *Arman.*

..... , *Arman.*

Manuel Vindiola, , *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B. Wright

....., United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision of T. 20 S. R. 23 E.

..... of the Gila and Salt River Base & meridian, Territory of Arizona, 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 Arizona.

Edgar M. Darnall , *Chainman.*

Santiago Vindiola , *Chainman.*

..... , *Moundman.*

Guadalupe Pacheco , *Moundman.*

Silverio Peralta , *Arman.*

..... , *Arman.*

Manuel Vindiola , *Flagman.*

Subscribed and sworn to before me this 17th day of August, 1909

Jesse B. Wright
U.S. Deputy Surveyor.
J. A. Penabazquez
Notary Public

My commiss...
SEAL
11, 1909

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BOOK 2173

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank J. Ingalls United States Surveyor General for Arizona, bearing date of the Fourth day of June, 1909 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 Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

Subdivision of Township 20 South Range 28 East

of the Sila & Salt River Base meridian, in the Territory of Arizona, 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 Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Jesse B Wright
United States Deputy Surveyor.

Subscribed by said Jesse B Wright, and sworn to before me }
this 30th day of August, 1909

W. H. ...



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Thomas ... July 2, 1910

The foregoing field notes of the survey of a portion of the Subdivision of Series 2 of T. 20 S. R. 28 E., Sila and Salt River Base and Meridian, Arizona.

executed by Jesse B Wright, U.S. Dep. Sur. under his contract No. 159, dated June 4, 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 J. 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.