

Book G.

2187

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FIELD NOTES

OF THE SURVEY OF THE

2187 West boundary of Tps. 17, 19, and 20 N. Rg. 1 W.

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Of the Gila and Salt River Meridian,
Territory of Arizona.

AS SURVEYED BY

Alfred N. Oliver, United States Deputy Surveyor,

Under his Contract No. 153, dated November 19th, 1908, 190

Survey commenced May 18, 1909, 190

Survey completed June 27, 1909, 190

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NAMES AND DUTIES OF ASSISTANTS.

Will W. Shawk Chairman

Archie Johnston Chairman

W. R. Johnston Axman.

R. R. Lane Flagman.

5th Standard Parallel N.

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BOOK 2187

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South Standard Parallel N.

Gila and Salt River Meridian

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Will W. Shawk and Archie Johnston
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 West boundary of Tps. 17, 19, and 20 N. Rg. 1 W.

Will W. Shawk, Chainman.
Archie Johnston, Chainman.

Subscribed and sworn to before me this 18th.
day of May, 1909., 190



Alfred N. Bliss
U.S. Deputy Surveyor

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

_____, Moundman.
_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190



WE, I. W. R. Johnston 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 the West boundary of Tps. 17, 19 and 20 N. Rg. 1 W.

WR Johnston, Axman.
_____, Axman.

Subscribed and sworn to before me this 18th.
day of May, 1909., 190



Alfred N. Bliss
U.S. Deputy Surveyor

I, R. R. Lane, 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 the West boundary of Tps. 17, 19 and 20 N. Rg. 1 W.

R R Lane, Flagman.

Subscribed and sworn to before me this 18th.
day of May 1909., 190



Alfred N. Bliss
U.S. Deputy Surveyor

West boundary of Tps. 17 N. Rgs. 1 W.

Chains

Survey commenced May 18, 1909, and executed with a Young and Sons light mountain transit, No. 7532, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct and was approved by the surveyor general for Arizona.

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

At my station, at my camp, which is about one mile south of the standard cor. of Tps. 17 N. Rgs. 1 E. and 1 W. and which is marked by a stone set firmly in the ground and marked with a cross on top; latitude $34^{\circ} 48' 1/2''$ N. longitude $112^{\circ} 19'$ W. I set off $34^{\circ} 48' 1/2''$ N. on the lat. arc; $19^{\circ} 38'$ N. on the decl. arc; and, at 6h. 00m., p.m., l. m. t., determine a meridian with the solar and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

May 18, 1909

May 19: At 3h. 45m. a.m., by my watch which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 5h. 30m. a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ} 26'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set May 18, on which the meridian coincides with the mark determined by the solar.

At 6h. 00m. a.m., l.m.t., I set off $34^{\circ} 48' 1/2''$ N. on the lat. arc; $19^{\circ} 44' 1/2''$ N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a. m. observations, defines positions for meridians which coincide with the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 6h. 15m. a.m., is $14^{\circ} 45'$ W.; the angle thus determined gives the mag. decl. $14^{\circ} 45'$ E.

I commence at the standard cor. of Tps. 17 N. Rgs. 1 and 2 W. which has been previously described.

Thence I run on a random line

North bet. secs. 31 and 36.

Descending N. slope over granite boulders.

5.00 Cross drain 5 lks. wide course S. W. and ascend steep S. W. slope over bare rock.

17.00 Ridge bears E. and W. and descend rough N. slope over large boulders.

33.00 Cross drain 10 lks. wide course N. W.

34.25 Cross drain 10 lks. wide course N. W. and ascend steep S. W. slope.

40.00 Could find no trace of the $1/4$ sec. cor.

41.00 Ridge bears E. and W. and descend.

57.00 Cross granite Creek, water in pools, 50 lks. wide course W. and ascend steep S. slope.

63.50 Ridge bears E. and W. and descend steep N. slope.

74.00 Cross wash in canyon 25 lks. wide course N. W. and along steep W. slope of canyon.

West boundard of Td. 17 N. Rg. 1 W.

Chains. 80.08	<p style="text-align: right;">brs. E. 88 lks.</p> <p>The cor. of secs. 25, 30, 31 and 36 marked and witnessed as described by the surveyor general and set in a mound of stone. I destroy this cor. and in the same place set a quartzite 20 x 8 x 4 ins. 15 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked 09 on N. E. face; with 1 notch on S. and 5 notches on N. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.</p> <p>I return to my 40.00 chain point and run thence 4 lks. N. and 44 lks. E. and at this point which is N. 0° 38' E. 40.04 chs. dist., from the standard cor. of Tps. 17 N. Rgs. 1 and 2 W. I mark a cross on a granite rock in place 10 x 4 x 2 ft. above ground, for 1/4 sec. cor., marked 09 1/4 on W. of cross; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Length of this mile is 80.08 chs. Course of mile is N. 0° 38' E. Land, extremely rough and mountainous. Soil, rocky 4th. rate. No timber. Mountainous land, precipitous and covered with boulders, exceptionally difficult to survey, 80.08 chs,</p>
	<p style="text-align: center;">North bet. secs. 25 and 30.</p>
20.00	Along steep W. slope of canyon covered with loose rocks.
28.00	Ascend along S. W. slope, very steep.
38.75	Top and descend along N. W. slope very steep.
41.54	Cross wash, 10 lks. wide course S. W.
	Fall 60.lks. E. of 1/4 sec. cor. a malpais stone 14 x 10 x 5 ins. above ground. I remark stone 09 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.
	Course of this half mile is N. 0° 50' W. 41.55 chs.
	Thence from 1/4 sec. cor. North.
40.00	Cross wash 10 lks. wide and ascend S E. slope covered with loose rock. course of wash SW.
54.00	Spur bears E. and W. and descend steep N. slope.
62.50	Cross wash 20 lks. wide course W. and ascend steep S. W. slope.
68.50	Spur bears E. and W. and descend Steep N. slope.
77.10	Cross wash 50 lks. wide course W. and ascend steep S. slope.
80.85	Fall 17 lks. E. of cor. of secs. 19, 24, 25 and 30, which I destroy and in the same place set a malpais stone 20 x 8 x 4 ins. 15 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked 09 on N. E. face; with 2 notches on S. and 4 notches on N. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.
	Course of this half mile is N. 0° 14' E. 39.30 chs.
	Land, rough and mountainous.
	Soil, rocky; 4th rate.
	No timber.
	Mountainous land covered with loose rocks, exceptionally difficult to survey, 80.85 chs.
	<p style="text-align: center;">North bet. secs. 19 and 24.</p>
	Ascend steep S. slope covered with loose boulders.
12.00	Ridge bears E. and W. and descend steep N. slope.
21.00	Cross wash, 30 lks. wide course W. and ascend steep S. slope.
31.00	Ridge bears N. E. and S. W. and along steep W. slope.
38.18	Fall 117 lks. W. of 1/4 sec. cor. which I destroy and in the same place set a malpais stone 24 x 10 x 4 ins. 18 ins. in the ground for 1/4 sec. cor. marked 09 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

West boundary of Tp. 17 N. Rg. 1 W.

Chains.	Course of this half mile is N. 1° 45' E. 38.20 chs. Thence from $\frac{1}{4}$ sec. cor. North
45.00	Descend steep N. slope.
52.50	Cross drain 5 lks. wide course N. W.
54.70	Cross wash 10 lks. wide course W. and ascend S. W. slope.
64.00	Descend N. slope, and enter scattering timber.
65.00	Cross wash 10 lks. wide course W. and ascend.
78.71	Fall 15 lks. W. of the cor. of secs. 13, 18, 19 and 24. which I destroy and in the same place set a malpais stone 24x 12 x 12 ins. 18 ins. in the ground for cor. of secs. 13, 18, 19, and 24, marked 09 on N. E. face; with 3 notches on N. and S. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable Course of this half mile is N. 0° 13' E. 40.51 chs. Land, rough and mountainous. Soil, rocky; 4th. rate. Timber, a few cedars. Mountainous land, covered with loose rocks, exceptionally difficult to survey 78.71 chs. May 19; At this cor. I set off 19° 46' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 34° 52' N.
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	North bet. secs. 13 and 18. Ascending S. W. slope covered with loose rock.
1.40	Spur bears E. and W. and descend N. W. slope.
9.50	Cross wash 10 lks. wide course W. in canyon 50 ft. deep.
17.00	Change to N. E. slope.
40.30	Fall 39 lks. W. of $\frac{1}{4}$ sec. cor., which is a malpais stone 12 x 6 x 6 ins. above a mound of stone 3 ft. base 1 1/2 ft. high, marked 09 $\frac{1}{4}$ on W. face; from which A cedar 16 ins. diam. bears S. 70° W. 16 lks. dist., marked 09 $\frac{1}{4}$ S13BT. No other tree available. Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Thence from $\frac{1}{4}$ sec. cor. North.
47.50	Cross wash in ravine 10 lks. wide course N. W.
50.00	Cross wash in bend bears S. W. course N. W. 20 lks. wide and ascend S. W. slope.
69.00	Change to N. W. slope.
80.70	Fall 7 lks. W. of the cor. of secs. 7, 12, 13 and 18. which is a malpais stone 30 x 14 x 12 ins. set 20 ins. in a mound of stone, marked 09 on N. E. face; with 4 notches on S. and 2 notches on N. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Course of S. half mile is N. 0° 33' E. 40.30 chs. Course of N. half mile is N. 0° 06' E. 40.40 chs. Land, mountainous and rough. Soil, rocky 4th. rate. Timber, scattering cedars. Mountainous land, covered with loose rock, exceptionally difficult to survey 80.70 chs.
	<hr/>
	North bet. secs. 7 and 12 Over top of mountain covered with loose boulders.
4.25	Descend into canyon.
18.00	Cross Verde river, running water 12 ins. deep, 100 lks. wide course E. and ascend steep S. slope
35.50	Over rolling top of mountain covered with loose rocks through cedar timber and underbrush.
38.89	Fall 75 lks. E. of $\frac{1}{4}$ sec. cor. which I reset as follows, set a malpais stone 22 x 16 x 6 ins. 16 ins. in the ground for $\frac{1}{4}$ sec. cor. marked 09 $\frac{1}{4}$ on N. face; from which A cedar 6 ins. diam. bears N. 40° E. 60 lks. dist. marked 09 $\frac{1}{4}$ S7BT. A cedar 20 ins. diam., bears S. 65° W. 17 lks. dist. marked 09 $\frac{1}{4}$ S12BT.

West boundary of Tp. 17 N. Rg. 1 W.

Chains	
	Course of this half mile is N. 1° 06' W. 38.90 chs. Thence from $\frac{1}{4}$ sec. cor. North
60.65	Cross fence bears E. and W. and leave timber and brush.
78.84	Fall 6 lks. E. of cor. of secs. 1, 6, 7 and 12, which I
	reestablish as follows; set a malpais 20 x 8 x 8 ins. 15
	ins. in the ground for cor. of secs. 1, 6, 7, and 12
	marked 09 on N. E. face; with 5 notches on S. and 1
	notch on N. edges; and raise a mound of stone 2 ft. base
	1 1/2 ft. high W. of cor. Pits impracticable.
	Course of this half mile is N. 0° 05' W. 39.94 chs.
	Land, mountainous.
	Soil, rocky; 4th. rate.
	Timber cedar.
	Underbrush, cedar.
	Mountainous land covered with loose rocks, and heavily
	timbered and covered with dense underbrush, exceptionally
	difficult to survey 78.84 chs.
	North bet. secs. 1 and 6.
	Over rolling mountains covered with loose volcanic rock.
40.03	Fall 87 lks. E. of $\frac{1}{4}$ sec. cor. which is a cross on a
	rock in place 5 x 4 x 1 1/2 ft. above ground, marked 09
	$\frac{1}{4}$ on W. of cross; and a mound of stone 2 ft. base 1 1/2
	ft. high W. of cor. Pits impracticable.
	Course of this half mile is N. 1° 15' W. 40.04.
	Thence from $\frac{1}{4}$ sec. cor. North.
43.25	Cross drain 5 lks. wide course N. E. and through scatter
	ing timber.
50.00	Leave timber. top of bank, over rolling land.
80.07	Fall 58 lks. E. of the cor. of Tps. 17 and 18 N. Rgs.
	1 and 2 W. which I destroy and in the same place set
	a malpais stone 24 x 12 x 10 ins. 18 ins. in the ground
	for cor. of Tps. 17 and 18 N. Rgs. 1 and 2 W. marked 09
	on N. E. face, with 6 notches on each edge; dig pits
	24 x 24 x 12 ins. on each line, N., E., and W., 4 ft.
	and S. of stone, 8 ft. dist.; and raise a mound of earth
	5 ft. base 2 1/2 ft. high S. of cor.
	Course of this half mile is N. 0° 50' W. 40.04 chs.
	Land, mountainous.
	Soil, rocky; 4th. rate.
	Timber, a few cedars
	Mountainous land, covered with loose volcanic rock,
	exceptionally difficult to survey, 80.08 chs.

May 19, 1909

General description

This township is rough and mountainous and is generally covered with a fair growth of cedar timber. The soil is generally rocky. The Verde River runs through the Northern part of the township. In running the boundaries of this Tp. I destroyed the old corners.

West boundary of Tp. 17 N. Rg. 1 W.

Chains.

Boundaries of Tp. 17 N. Rg. 1 W.
Latitudes, departures, and closing errors.

Line designated	True bearing	Distance	Latitudes		Departures	
			N	S	E	W
N. bdy. Sec 1	West	66.45				66.45
N. bdy. T17NR1W	West	413.48				413.48
W. bdy. Sec. 6	S 0° 50' E	40.04		40.04	58	
	S 1° 15' E	40.04		40.03	87	
W. bdy. Sec. 7	S 0° 05' E	39.94		39.94	6	
	S 1° 06' E	38.90		39.89	7.5	
W. bdy. Sec. 18	S 0° 06' W	40.40		40.40		7
	S 0° 33' W	40.30		40.30		40
W. bdy. Sec. 19	S 0° 13' W	40.51		40.51		15
	S 1° 45' W	38.20		38.18		11.7
W. bdy. Sec. 30	S 0° 14' E	39.30		39.30	16	
	S 0° 50' E	41.33		41.54	60	
W. bdy. Sec. 31	S 0° 38' W	80.08		80.08		89
S. bdy. Sec. 31	S 87° 38' E	40.00		1.65	39.97	
	S 89° 23' E	40.30		3.3	40.30	
S bdy. Sec. 32	S 89° 34' E	40.70		5.0	40.70	
	N 89° 48' E	39.33	1.4	7	39.33	
S bdy. Sec. 33	S 88° 58' E	40.16		7.2	40.15	
	S 89° 00' E	40.09		7.0	40.18	
S bdy. Sec. 34	S 89° 00' E	80.18		1.40	80.17	
S bdy. Sec. 35	S 89° 00' E	40.09		7.0	40.08	
	N 88° 51' E	40.10	8.0	3	40.09	
S bdy. Sec. 36	S 89° 18' E	39.74		4.9	39.74	
	N 88° 29' E	40.50	1.07		40.49	
G. & S. R. Mer. thro T17N.	North	481.92	481.92			
W. bdy. Sec. 31 T18NR1E	N 7° 33' W	3.50	3.50			46
Convergency						51
Totals			487.43	486.60	484.12	483.58
Error in lat.			486.60		483.58	
						.83 Error in dep.

Alfred N. Oliver
U. S. Deputy Surveyor.

West boundary of Tp. 19 N., Rg. 1 W.

chains.	<p>June 13; At 6h.00m., a.m., l.m.t., I set off 35° 00' N. on the lat. arc; 23° 14' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 18 and 19 N., Rgs. 1 and 2 W., previously set by me.</p> <p>Thence I run North bet. secs. 31 and 36. Over level land covered with loose rocks thru dense timber and underbrush.</p>
40.02	<p>Fall 10 lks. West of $\frac{1}{4}$ sec. cor. which is a post marked as described by Surveyor General, which I destroy and in the same place set a limestone, 20X10X8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which</p> <p>A cedar 12 ins. diam., bears N 10° W. 22 lks., dist., marked; 09 $\frac{1}{4}$ S 36 FT.</p> <p>A cedar 10 ins. diam., bears S 12° E. 38 lks., dist., marked; 09 $\frac{1}{4}$ S 31 FT.</p> <p>Course of this half mile is N 0° 09' E. 40.02 chs.</p> <p>Thence from $\frac{1}{4}$ sec. cor. North,</p>
43.10	Drain, course E.
54.45	Drain, course E.
61.15	Drain, course E.
70.30	Drain, course E.
78.60	Wash, 50 lks. wide, course E.
80.04	<p>Cor. of secs. 25, 30, 31 and 36, bears West 10 lks., dist. which I destroy and in the same place set a limestone, 16X10X6 ins., 11 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked 09 on NE. face, with 5 notches on N. and 1 notch on S. edge; from which:-</p> <p>A cedar 30 ins. diam., bears N 66° E. 23 lks., dist. marked; 09 T 20 N R 1 W S 30 FT.</p> <p>A cedar 8 ins. diam., bears S 10° 30' E. 43 lks., dist., marked; 09 T 20 N R 1 W S 31 FT.</p> <p>A cedar 10 ins. diam., bears S 60° 30' W. 152 lks., dist. marked; 09 T 20 N R 2 W S 36 FT.</p> <p>A cedar 11 ins. diam., bears N 63° 30' W. 32 lks., dist. marked; 09 T 20 N R 2 W S 25 FT.</p> <p>Course of this half mile is N 0° 09' W. 40.02 chs.</p> <p>Land, rolling. Soil, rocky; 4th rate. Timber, cedar and pinon. Underbrush, cedar and scrub oak. Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.04 chs.</p>
	<p>North bet. secs. 25 and 30 Over rolling land covered with loose rocks thru dense timber and underbrush.</p>
10.45	Drain, course E.
27.25	Drain, course E.
40.01	<p>Fall 21 lks. E. of the $\frac{1}{4}$ sec. cor. which I destroy and in the same place set a sandstone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which</p> <p>A cedar 16 ins. diam., bears S 86° E. 31 lks., dist., marked; 09 $\frac{1}{4}$ S 30 FT.</p> <p>A cedar 18 ins. diam., bears N 29° W. 64 lks. dist., marked; 09 $\frac{1}{4}$ S 25 FT.</p> <p>Course of this half mile is N 0° 18' W. 40.01 chs.</p> <p>North from $\frac{1}{4}$ sec. cor.</p>
52.60	Wash, 25 lks. wide, course E.
55.75	A line cedar, 8 ins. diam., blazed on N. and S. sides.
60.30	Drain, course NE.
70.10	Wash, 40 lks. wide, course E.
79.91	<p>Fall 14 lks. E. of the cor. of secs. 24, 24, 19 and 30, which is a limestone, 16X10X6 ins., marked with 2 notches on S., and 4 notches on N. edge, I mark 09 on NE. face and reset 11 ins. in the ground, from which:-</p>

West boundary of Tp. 19 N., Rg. 1 W.

chains

A cedar 10ins.diam., bears N 58°45'E. 263 lks.dist. marked; 09 T 20 N R 1 W S 19 BT.

A cedar 14ins.diam., bears S 40°30'E. 40 lks.dist., marked; 09 T 20 N R 1 W S 30 BT.

A cedar 12ins.diam., bears S 30°15'W. 45 lks.dist., marked; 09 T 20 N R 2 W S 25 BT.

A cedar 13ins.diam., bears N 61°W. 35 lks., dist., marked; 09 T 20 N R 2 W S 24 BT.

Course of this half mile is N 0°12'W. 39.90 chs.
 Land, rolling.
 Soil, rocky: 4th rate.
 Timber, cedar.
 Underbrush, cedar.
 Land, covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 79.91 chs.

North bet. secs. 24 and 19.
 Over level land covered with loose rocks and dense timber and underbrush.

27.75
 39.95

Drain, course E.
 Wall 40 lks. West of $\frac{1}{4}$ sec. cor. which I destroy and in the same place set a limestone, 16X10X7ins., 11ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which
 A cedar 10ins.diam., bears N 54°30'E. 46 lks.dist., marked; 09 $\frac{1}{4}$ S 19 BT.
 A pinon 12ins.diam., bears S 28°45'W. 30 lks.dist., marked 09 $\frac{1}{4}$ S 24 BT.

Course of this half mile is N 0°34'E. 39.95 chs.
 North from $\frac{1}{4}$ sec. cor.

40.35
 48.00
 60.00
 79.92

Drain, course E.
 Drain, course SE. Asc. over loose rocks.
 Over level land covered with loose rocks.
 Wall 6lks. E. of cor. of secs. 18, 19, 13 and 24 which I destroy and in the same place set a malpais stone, 16X8X8ins., 11ins. in the ground, for cor. of secs. 13 and 24, T 20 N R 2 W., marked 09 on NE. with 3 notches on N. and S. edges. from which

A cedar 6ins.diam., bears S 61°30'W. 26 lks.dist., marked; 09 T 20 N R 2 W S 24 BT.

A cedar 6ins.diam., bears N 40°45'W. 10 lks.dist., marked; 09 T 20 N R 2 W S 13 BT.

Course of this half mile is N 0°05'W. 39.97 chs.
 Land, level and mountainous.

Soil, rocky: 4th rate.
 Timber, cedar and pinon.
 Underbrush, cedar.
 Land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 79.92 chs.
 June 13; At this cor. I set off 23°13'N. on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is 35°02, 1/2'N.

North bet. secs. 13 and 18.
 Over level land covered with loose rocks thru dense timber and underbrush.

12.60
 30.20
 37.00
 39.93

Descend steep slope over loose rocks.
 Wash, 40 lks. wide, course E. Asc. steep slope over loose rocks.

Top of ridge, bears E. and W. Desc. steep slope over loose rocks.

Wall 8lks. E. of the $\frac{1}{4}$ sec. cor., which I destroy and in the same place set a malpais stone, 23X14X6ins., 17ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face. from which:-

A cedar 10ins.diam., bears N 64°W. 23 lks.dist., marked; 09 $\frac{1}{4}$ S 13 BT.

No other tree available raise a mound of stones, 2ft. base 1, 1/2 ft. high, W. of cor. Pits impracticable.

West boundary of Tp.19 N.,R1 W.

chains.	
	Course of last half mile is N. 0°07'W. 39.93 chs. North from $\frac{1}{4}$ sec.cor.
44.00	Drain,course E. Along steep W. side of Hells canyon over loose rocks.
74.00	Hells canyon wash,200 lks.wide,course E. Across canyon bottom over loose rocks thru dense underbrush.
79.86	Fall 3 lks.E. of the cor. of secs. 7,12,13, and 18, which I destroy and in the same place set a malpais boulder, 15X12X6ins., 10ins. in the ground, for cor. of secs.12 and 13, T 19 N R 2 W, marked, 09 on W. face, with 2 notches on N. and 4 notches on S. edge. from which An oak 6ins.diam., bears N 40°W. 29 lks., dist., marked; 09 T 19 N R 2 W S 12 BT. No other tree available. Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Course of half mile is N 0°08'W. 39.93 chs. Land, level, and mountainous. Soil, rocky; 4th rate. Timber, cedar and pine. underbrush, cedar and scrub oak. Land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 79.86 chs.
	North bet. secs. 7 and 12.
7.00	Over canyon bottom over loose rocks thru dense underbrush Asc. SW. slope over loose rocks thru dense timber and underbrush.
14.00	Descend steep NW. slope over loose rocks.
35.00	Wells canyon wash, 100 lks. wide, course SW. Ascend bluff 40 ft. high.
38.80	Top of bluff. over level land covered with loose rocks.
40.27	Fall 7 lks. W. of $\frac{1}{4}$ sec. cor., which I destroy and in the same place set a malpais stone, 15X8X6ins., 10ins. in the ground, for $\frac{1}{4}$ sec. cor., marked; 09 $\frac{1}{4}$ on W. face, from which A cedar 10ins. diam., bears S 35°W. 44 lks. dist., marked 09 $\frac{1}{4}$ S 12 BT. No other tree available. Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Course of this half mile, N 0°06'E. 40.27 chs.
	North from $\frac{1}{4}$ sec. cor.
60.00	Descend steep preceptitious slope into Hells canyon.
65.30	Wash, 100 lks. wide, course E. Asc. steep slope over loose rocks.
80.55	Fall 22 lks. E. of the old cor. of secs. 1, 6, 7 and 12., which I destroy and in the same place set a malpais stone, 16X8X6ins., 11ins. in the ground, for cor. of secs. 1, 6, 7, and 12, marked 09 on NE. face, with 5 notches on S. and 1 notch on N. edge. from which A cedar 12ins. diam., bears N 0°30'E. 63 lks., dist., marked; 09 T 19 N R 1 W S 6 BT. A cedar 8ins. diam., bears S 35°15'E. 100 lks. dist., marked; 09 T 19 N R 1 W S 7 BT. A cedar 8ins. diam., bears S 7°45'W. 70 lks. dist., marked; 09 T 19 N R 2 W S 12 BT. A cedar 10ins. diam., bears N 32°30'W. 86 lks. dist., marked; 09 T 19 N R 2 W S 1 BT. Course of this half mile, N 0°19'W. 40.28 chs. Land, mountainous and level. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar and scrub oak. Land covered with loose rocks and dense timber or underbrush, exceptionally difficult to survey, 80.55 chs.

West bdy. of Tp. 19 N., Rg. 1 W.

chains.	
	North bet. secs. 1 and 6. Ascending over loose rocks thru dense timber and underbrush.
10.00	Top of ridge, bears NW. and SE. Desc. over loose rocks.
22.00	Wash, 25 lks. wide, course SW. Asc. over loose rocks.
39.96	Wall 54 lks. E. of the old $\frac{1}{4}$ sec. cor., which I destroy and in the same place set a malpais stone, 15X10X6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., and raise a mound of stones 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. This is in an old timber cutting and bearing trees have been cut down. Course of this half mile, N $0^{\circ}46'W$. 39.96 chs.
	North from $\frac{1}{4}$ sec. cor.
64.57	Telegraph line, bears NW. and SE.
65.06	S. F. P. and P. Ry. track, bears NW. and SE.
65.63	Telegraph line, bears NW. and SE.
80.06	Wall 105 lks. W. of the cor. of Tps 19 and 20 N., Rgs. 1 and 2 W., which I destroy and in the same place set a malpais stone, 16X8X8 ins., 11 ins. in the ground, for the cor. of Tps. 19 and 20 N., Rgs. 1 and 2. W., marked, 09 On NE. face, with 6 notches on N., S., E., and W. edges. from which:- A cedar 4 ins. diam., bears N $61^{\circ}30'E$, 145 lk. dist., marked; 09 T 20 N R 1 W S 31 RT. A cedar 8 ins. diam., bears S $67^{\circ}E$, 35 lks., dist., marked; 09 T 19 N R 1 W S 6 RT. A cedar 5 ins. diam., bears S $77^{\circ}15'W$, 83 lks., dist., marked; 09 T 19 N R 2 W S 1 RT. A cedar 6 ins. diam., bears N $38^{\circ}15'W$, 42 lks. dist., marked; 09 T 20 N R 2 W S 36 RT. Course of this half mile, N $1^{\circ}30'E$. 40.10 chs. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar. Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.06 chs.
	June 13, 1909.

West boundary of Tp. 20 N., Rg. 1 W.

chains.

June; 27; At 6h.00m., a.m., l.m.t., I set off $35^{\circ}05'N.$ on the 1^{st} arc; $23^{\circ}23'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 19 and 20 N., Rgs. 1 and 2 W., previously described.

Thence I run

North bet. secs. 31 and 36.

Ascend over loose rocks thru dense timber and underbrush

10.50

Top of ridge, bears NW. and SE. Desc. over loose rocks.

22.36

Telegraph line, bears NE. and SW.

23.04

S.F.P. and P. Ry. track bears NE. and SW.

23.61

Telegraph line, bears NE. and SW.

40.57

Wall 153 lks. E. of $\frac{1}{4}$ sec. cor., which I destroy and in the same place set a malpais stone, $27 \times 12 \times 10$ ins., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face, from which

A cedar 10 ins. diam., bears West 3 lks. dist., marked; 09 $\frac{1}{4}$ S 36 RT.

No other tree available. Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

Course of this half mile is $N 2^{\circ}10'W.$ 40.60 chs.

North from $\frac{1}{4}$ sec. cor.

46.00

Center of Hells canyon, course SW. Asc. over loose rocks.

81.24

Wall 72 lks. E. cor. of secs. 25, 30, 31, and 36, which I destroy and in the same place set a malpais stone, $18 \times 14 \times 12$ ins., 12 ins. in the ground, for cor. of secs. 25 and 36, marked 09 on NE. face, with 5 notches on N., and 1 notch on S. edge. from which

A cedar 12 ins. diam., bears S $11^{\circ}30'W.$ 91 lks. dist., marked; 09 T 20 N R 2 W S 36 RT.

A cedar 8 ins. diam., bears N $28^{\circ}30'W.$ 65 lks. dist., marked; 09 T 20 N R 2 W S 25 RT.

Course of this half mile is $N 1^{\circ}02'W.$ 40.65 chs.

Land, mountainous.

Soil, rocky: 4th rate.

Timber, cedar.

Underbrush, cedar and scrub oak.

Mountainous land covered with loose rocks and dense

underbrush, exceptionally difficult to survey, 81.25 chs.

North bet. secs. 25 and 30.

Ascend over loose rocks thru dense underbrush.

5.00

Top of malpais ridge, bears NW. and SE. Desc. over loose rocks.

15.00

Wash, 25 lks. wide, course SE. Asc. over loose rocks.

15.80

Road, bears NW. and SE.

20.60

Telegraph line, bears NW. and SE.

21.08

S.F.P. and P. Ry., bears NW. and SE.

21.65

Telegraph line, bears NW. and SE.

37.00

Over mesa covered with loose rocks.

40.77

Wall 147 lks. E. of the $\frac{1}{4}$ sec. cor. which I destroy and in the same place set a malpais stone, $18 \times 16 \times 6$ ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face, from which

A cedar 4 ins. diam., bears S $65^{\circ}30'W.$ 135 lks. dist., marked; 09 $\frac{1}{4}$ S 25 RT.

No other tree available. Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

Course of this half mile is $N 2^{\circ}04'W.$ 40.80 chs.

North from $\frac{1}{4}$ sec. cor.

81.17

Wall 175 lks. E. of the cor. of secs. 24, 25, 19 and 30, which I destroy and in the same place set a malpais stone, $15 \times 8 \times 6$ ins., 10 ins. in the ground, for cor. of secs. 24 and 25, marked 09 on NE. face, with 2 notches on S., and 4 notches on N. edge. from which

A cedar 12 ins. diam., bears S $70^{\circ}15'W.$ 97 lks., dist., marked; 09 T 20 N R 2 W S 25 RT.

No other tree available. Dig a pit, $24 \times 24 \times 12$ ins., NW. of stone, 6ft. dist. and raise a mound of earth 4ft. base, 2ft. high, W. of cor. True course of this half mile is $N 2^{\circ}29'W.$

40.41

West boundary of Tp.20 N., Rg.1 W.

chains.

Land, mountainous and rolling.
Soil, rocky: 4th rate.
Timber, cedar.
Underbrush, cedar and buck brush.
Land covered with loose rocks and dense underbrush,
exceptionally difficult to survey, 31.21 chs.

North bet. secs. 19 and 24.

Over level land covered with loose rocks and dense
timber and underbrush.

7.65

Road, bears NW. and SE.

40.25

Fall 62 lks. W. of $\frac{1}{4}$ sec. cor. which I destroy and in the
same place set a malpais stone, 16X14X8 ins., 11 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face, from which
A cedar 8 ins. diam., bears N 20° W. 45 lks. dist.,
marked: 09 $\frac{1}{4}$ S 24 RT.

No other tree available. Raise a mound of stones, 2 ft.
base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

Course of this half mile is N 0° 53' E. 40.25 chs.

North from $\frac{1}{4}$ sec. cor. descend.

41.50

Wash, 25 lks. wide, course SW. Asc. over loose rocks.

50.00

Over level land covered with loose rocks.

80.60

Fall 14 lks. E. of the old cor. of secs. 18, 19, 13 and 24
which I destroy and in the same place set a malpais
stone, 25X9X6 ins., 19 ins. in the ground, for cor. of secs.
13 and 24, marked 09 on NE. face, with 3 notches on S.,
and N. edges. from which

A cedar 8 ins. diam., bears S 57° W. 75 lks., dist.,
marked: 09 T 20 N R 2 W S 24 RT.

A cedar 5 ins. diam., bears N 46° W. 42 lks. dist.,
marked: 09 T 20 N R 2 W S 13 RT.

Course of this half mile is N 0° 12' W. 40.35 chs.

Land, rolling.

Soil, rocky: 4th rate.

Timber, cedar.

Underbrush, cedar.

Rolling land covered with loose rocks and dense timber
and underbrush, exceptionally difficult to survey,
30.60 chs.

June 27; At this cor. I set off 23° 20, 1/2' N. on the
decl. arc and observe the sun on the meridian at noon,
the resulting lat. is 35° 07, 1/2' N.

North bet. secs. 13 and 18.

Over rolling land covered with loose rocks and dense
timber and underbrush.

40.37

Fall 44 lks. E. of $\frac{1}{4}$ sec. cor. which I destroy and in the
same place set a malpais stone, 18X6X6 ins., 12 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked: 09 $\frac{1}{4}$ on W. face. from which

A cedar 16 ins. diam., bears S 68° W. 256 lks. dist.,
marked: 09 $\frac{1}{4}$ S 13 RT.

No other tree available. Raise mound of stones, 2 ft.
base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

Course of this half mile is N 0° 38' W., 40.37 chs.

North from $\frac{1}{4}$ sec. cor.

67.00

Wash, 30 lks. wide, course NW.

74.40

Same wash, course NE.

80.84

Fall 12 lks. E. of the cor. of secs. 7, 12, 13 and 18 which
I destroy and in the same place set a malpais stone,
19X9X8 ins., 12 ins. in the ground, for cor. of secs. 12
and 13, marked 09 on NE. face, with 4 notches on S., and 2 notches on N. edge, from which

A cedar 12 ins. diam., bears S 23° W. 37 lks. dist.,
marked: 09 T 20 N R 2 W S 13 RT.

A cedar 7 ins. diam., bears N 59° W. 115 lks. dist.,
marked: 09 T 20 N R 2 W S 12 RT.

Course of this half mile is N 0° 10' W., 40.47 chs.

Land, rolling.

Soil, rocky: 4th rate.

Timber, cedar.

West boundary of Td. 20 N., Rg. 1 W.

chains.	Underbrush, cedar. Rolling land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.84 chs.
	North bet. secs. 7 and 12. Descend over loose rocks thru dense timber and underbrush.
14.00	Wash, 20 lks. wide, course NW. Asc. over loose rocks.
14.93	Road, bears NW. and SE.
40.14	Wall 70 lks. E. of the $\frac{1}{4}$ sec. cor. which I destroy and in the same place set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face from which A cedar 16 ins. diam., bears S 18° W. 90 lks. dist., marked: 09 $\frac{1}{4}$ S 12 RT. No other tree available. Raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Course of this half mile is N 1° 00' W. 40.15 chs.
44.50	North from $\frac{1}{4}$ sec. cor. descend. Wash, 20 lks. wide, course SW. Asc. over loose rocks.
54.30	Road, bears NE. and SW.
80.23	Wall 111 lks. E. of the old cor. of secs. 1, 6, 7, and 12. which I destroy and in the same place set a malpais stone, 20X9X4 ins., 15 ins. in the ground, for cor. of secs. 1 and 12, marked 09 on NE. face, with 5 notches on S., and 1 notch on N. edge. and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Course of this half mile is N 1° 35' W. 40.10 chs.
	Land, rolling. Soil, rocky: 4th rate. Timber, cedar. Underbrush, cedar and buck brush. Rolling land covered with loose rocks and dense timber or underbrush, exceptionally difficult to survey 80.25 chs.
	North bet. secs. 1 and 6. Over level land covered with loose rocks.
40.20	Wall 26 lks. E. of the $\frac{1}{4}$ sec. cor. which I destroy and in the same place set a malpais stone, 18X10X8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face, and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Course of this half mile is N 0° 22' W. 40.20 chs.
55.50	North from $\frac{1}{4}$ sec. cor. Wall 20, 1/2 lks. E. of the closing cor. of Tps., 20 N., Rs., 1 and 2 W., which I destroy and in the same place set a malpais stone, 20X9X6 ins., 15 ins. in the ground, for closing cor. bet. Tp. 20 N., Rs. 1 and 2 W., marked 09 CC on 20 N., on SW, 1 W on E., and 2 W on W., face; with 6 grooves on S., E., and W. faces. and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, S. of cor. Pits impracticable. Course of this fraction of mile is N 0° 46' W. 15.30 chs
	Land, rolling. Soil, rocky: 4th rate. No timber or underbrush. Rolling land covered with loose rocks, 55.50 chs. June 27, 1909.

West boundary of Tp. 20 N. Rg. 1 W.

Chains.

Boundaries of Tp. 20 N. Rg. 1 W.
Latitudes, Departures, and closing errors.

Line designated	True bearing	Distance	Latitudes		Departures		
			N	S	E	W	
5 th Standard Parallel N.	N 86° 54' W	40.20	217			4014	
	N 87° 15' W	40.50	194			4045	
	S 89° 40' W	40.23		23		4023	
	N 89° 24' W	40.55	42			4055	
	N 89° 53' W	40.66	08			4066	
	N 89° 07' W	40.35	62			4035	
	N 89° 34' W	40.17	30			4017	
	S 89° 41' W	40.15		22		4015	
	S 89° 33' W	29.53		21		2953	
	W. bdy. T20N R1W	S 0° 46' E	15.30		1530	20	
		S 0° 22' E	40.20		4020	26	
		S 1° 35' E	40.10		4008	111	
		S 1° 00' E	40.15		4014	70	
		S 0° 10' E	40.47		4047	13	
		S 0° 38' E	40.37		4037	44	
		S 0° 12' E	40.35		4035	14	
		S 0° 53' W	40.25		4025		62
S 2° 29' E		40.41		4037	175		
S 2° 04' E		40.80		4077	147		
S 1° 02' E		40.65		4064	73		
S 2° 10' E		40.60		4057	153		
East		347.40			34740	0	
S. bdy. T20N. R1W. G. & S. R. Mer. thro T20N.		N 0° 34' E	14.00	1400		14	
		N 0° 25' W	39.65	3965			29
	N 0° 18' W	40.14	4014			21	
	N 1° 48' E	39.22	2920		123		
	N 1° 42' W	39.90	3988			118	
	N 2° 07' W	39.72	3969			147	
	N 0° 12' W	39.88	3988			14	
	N 3° 22' W	45.92	4584			270	
	N 3° 09' E	39.73	2967		218		
	N 0° 12' W	37.70	3770			14	
Convergency Totals Error in lat.	N 0° 09' W	39.60	3960			10	
	N 0° 04' W	39.13	2913			05	
						37	
			459.91	460.17	359.41	359.50	
				459.91		359.41	
			Error in dep.			.09	
						.26	

General description.

This township is is rough and cut by deep canyons and covered with a dense growth of cedar timber. The soil is rocky. In running the boundaries of this Tp. I destroyed the old corners.

Alfred N. Oliver
J. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alfred N. Oliver

....., 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 the West boundary of Tps. 17, 19 and 20 N. Rg. 1 W.

showing the respective capacities in which they acted:

Will W. Shawk....., *Chainman.*

Archie Johnston....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

W. R. Johnston....., *Axman.*

....., *Axman.*

R. R. Lane....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfred N. Oliver

....., United States Deputy Surveyor, in surveying all those parts or portions of the West boundary of Tps. 17, 19, and 20 N. Rg. 1 W.

..... of the Gila and Salt River 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.

Will W. Shawk....., *Chainman.*
Archie Johnston....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

W. R. Johnston....., *Axman.*

....., *Axman.*

R. R. Lane....., *Flagman.*

Subscribed and sworn to before me this 27th. day of June 1909., 190

Alfred N. Oliver
U.S. Deputy Surveyor



14
1917

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfred N. Oliver, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 19th. day of November, 1908., 1908, 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 the West boundary of Tps. 17, 19 and 20 N. Rg. 1 W.

of the Gila and Salt River 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.

Alfred N. Oliver
United States Deputy Surveyor.

Subscribed by said Alfred N. Oliver, and sworn to before me }
this 18th day of November, 1908

Frank S. Ingalls
United States Surveyor General
for Arizona



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz April 27, 1909

The foregoing field notes of the survey of the west boundaries of Tps 17-19 and 20 North Range 1 West, Gila and Salt River Base and Meridian

executed by Alfred N. Oliver, U.S. Deputy Surveyor under his contract No. 153, dated November 19, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General.

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

United States Surveyor General.