

2061 BOOK 2061

FIELD NOTES

OF THE SURVEY OF THE

*Refracement of the S. 15 Sec. 19 & R. 22 E.
Subdivisional lines of the S. 15
Sections of Tp. 19 S. R. 22 E.*

2061

2061

2061

*Of the Gila and Salt R. Range Meridian,
Arizona.*

AS SURVEYED BY

Johan M. Ingalls, United States Deputy Surveyor,
Under his Contract No. *130*, dated *May 4 1905*, 189

Survey commenced *July 6 1905*, 189

Survey completed *" 17 "*, 189

2061

55-1A

BOOK 2061

NAMES AND DUTIES OF ASSISTANTS.

D. Roy Shode Channon

Nary J. Ingall

F. J. Kline

Channon

Ernest W. Ayde

Channon

57
1B

BOOK 2061

INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, D. Roy Shrode and Harry S. Ingalls
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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 Ret. of S. Bay and Sub. line of J. 190 R. W. E.

D. Roy Shrode, Chainman.
Harry S. Ingalls, Chainman.

Subscribed and sworn to before me this 3rd
day of July, 1895



Frank C. Willard
Notary Public

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 _____, 189 _____



I, D. L. Kline
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 ^{me} ~~us~~, to the best of ^{my} ~~our~~ skill and ability, in the survey of Ret. of the S. Bay and Sub. line of J. 190 R. W. E.

D. L. Kline, Axman.
_____, Axman.

Subscribed and sworn to before me this 3rd
day of July, 1895



Frank C. Willard
Notary Public

I, Bruce M. Hyde, 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 _____

Bruce M. Hyde, Flagman.

Subscribed and sworn to before me this 3rd
day of July, 1895



Frank C. Willard
Notary Public

Retracement of the South Boundary of Tp. 19 S., R. 22 E.

<p>Chs.</p>	<p>Survey commenced July 6th, 1905- Executed with a J. C. Sala Solar Compass No. 137. The horizontal limb has 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 declination arc.</p> <p>The instrument was examined, tested on the meridian at Phoenix, Ariz. found in adjustment and was approved by the Surveyor-General for Ariz. June 28, 1905.</p> <p>I begin at the Cor. to Tps. 19 and 20 S., Rs. 22 & 23 E. which is a granite rock, 26 x 8 x 8 ins., above ground, firmly set, marked and witnessed, as described by the Surveyor-General.</p> <p>I set off 31° 43 1/2' N., on the latitude arc; 22° 42' N., on the declination arc, and at 2 hs. 41 mins. p m l m t, by my watch which has correct l. m. t. determine a meridian with the Solar, and mark a point thereof on a stone set firmly in the ground, 5.00 chs. N. of the corner.</p> <p>-----</p> <p>July 7th, 1905- At 12 hs. 31 mins. a.m., l.m.t. I observe Polaris at Eastern elongation, in accordance with instructions contained in the Manual, and mark a point in the line thus determined on a plug driven in the ground, 5.00 chs. N. of the corner.</p> <p>At 6hs. 30 mins. a.m., l.m.t., I lay off the azimuth of Polaris 1° 24' to the west and mark the meridian thus determined, by cutting a small groove in the stone set yesterday, on which the meridian falls 0.2 ins., west of the mark determined with the Solar.</p> <p>At 7hs. 40 mins. a.m., l.m.t., I set off 31° 43 1/2' N., on the lat. arc; 22° 38' N., on the decl. arc, and determine a meridian with the Solar, and mark a point thereof on the stone already set, 5 chs. N. of the corner, this mark falls 0.1 ins. E. of the meridian established by the Polaris observation.</p> <p>From the above I conclude that the adjustments are satisfactory.</p> <p>The magnetic bearing of the true meridian properly reduced is N. 14° E.</p> <p>My compass was provided with an auxiliary telescope by which Polaris observation was available.</p> <p>Knowing that one if not more of the corners set on the S. bdy. of Tp. 19 S., R. 22 E is out of position. I retrace said boundary before initiating my subdivisions.</p> <p>From the Cor. to Tps. 19 and 20 S., Rs. 22 and 23 E., as des. by the Sur. Genl. I run, N. 89° 56' W., along the South boundary of Sec. 36-Tp. 19 S., R. 22 E.</p>
<p>40.00</p>	<p>Fall, 1 link N. of the 1/4 sec. cor. bet. secs. 1 & 36, a granite stone, 4x9x5 ins., above the ground, properly marked with a mound of stones alongside as described by the Surveyor-General.</p>
<p>43.50</p>	<p>Pipe line to Tombstone from Sycamore Canon, course S.W. ascend.</p>
<p>51.84</p>	<p>Top, 50 ft. high and descend.</p>
<p>66.70</p>	<p>Bottom and ascend.</p>
<p>69.05</p>	<p>Top of ridge and descend.</p>
<p>80.00</p>	<p>The cor. to secs. 1-2-35 and 36, a granite, 5x10x7 ins. above ground mkd. & witnessed as described by Sur. Genl. Land rolling. Covered with dense undergrowth. Soil 3rd rate. No timber. Land covered with heavy underbrush 80. chs.</p> <p>-----</p>
<p>4.60</p>	<p>N. 89° 56' W., on the South boundary of Sec. 35. Over rolling land through heavy brush.</p>
<p>6.10</p>	<p>Dry wash, 40 lks. wide, course S. W.</p>
<p>7.90</p>	<p>Old road course N. E. in wash, 300 lks. wide.</p>
<p>28.75</p>	<p>Old road bears N. W. and S. E.</p>
<p>32.90</p>	<p>Wash, 15 lks. wide, course N. W.</p>
<p>35.57</p>	<p>Wash, 10 lks. wide, course N. W.</p>
<p>38.54</p>	<p>Road bears N. E. and S. W.</p> <p>Road bears N. W. and S. E. to Tombstone.</p>

For this mile see supplemental notes page 5

Chs.	
40.03	A granite stone, 6 x 8 x 4 ins., above ground firmly set properly marked and witnessed.
40.96	Wash, 30 lks. wide, course N. W.
80.01	A granite stone, 6 x 7 x 4 ins., above ground, properly marked with a mound of stones W. of the corner. Land hilly and rolling. Soil sandy 2nd & 3rd rate. No timber. Undergrowth catclaw and greasewood. Land covered with dense undergrowth 80.01 chains.

	N. 89° 56' W., bet. secs. 3 and 34. Over rolling land through dense underbrush.
29.98	Old road course N. W.
40.75	To a point 18 lks. S. of the 1/4 sec. cor. A granite stone, properly marked with pits and mound of earth. The course of this 1/2 mile is N. 89° 41' W.
43.39	Wash, 15 lks. wide, course northerly.
50.93	Wash, 15 lks. wide, course North.
54.63	Road bears N. and S. to Tombstone.
55.08	Cross railroad track bears northwesterly and southeasterly.
57.35	Wash, 25 lks. wide, course N. and ascend.
65.52	Top of rocky ridge bears northerly and southerly and descend.
80.90	The cor. to secs. 3, 4, 33 and 34. A granite stone, firmly set and marked as described by the Sur. Gen. with mound of stones N. of the corner. Land rolling. Soil sandy 2nd to 4th rate. Dense undergrowth of catclaw and greasewood; 80.90 chs.

	N. 89° 56' W., on the South Boundary of Sec. 33. Over rolling land through dense brush; ascending.
4.90	Top of rise.
5.91	Intersect the easterly side line of the Waterville Mill site (patented) at a point S. 18° 30' E., 202 ft. from the N. E. Cor.
	From said N. E. Cor. the N. W. Cor. of this Mill site bears S. 71° 30' W., 440 ft.
11.70	Road from Benson to Tombstone, course S. E.
12.80	Intersect the westerly side line of the Waterville Mill site at a point S. 25° 45' E., 58 ft. from the N. W. Cor.
	I am advised that the adjoining (San Diego M.S. is not patented.
14.30	Wash, 30 lks. wide, course N.
14.50	Fence course N. and S.
20.05	Wash, course N. W.
39.98	The 1/4 sec. cor. A granite stone, 5 x 8 x 4 ins., above the ground, firmly set, marked and witnessed as described in the field notes furnished by the Sur. General.
40.88	Telegraph line course N. W.
42.10	Road from Tombstone to Benson. NW. and S.E.
79.98	The corner of sections 4, 5, 32 and 33; a granite stone firmly set, marked and witnessed as described by the Surveyor-General. Land rolling. Soil sandy and rocky 3rd to 4th rate. No timber. Undergrowth, catclaw and mesquite, some greasewood. Land covered with dense undergrowth; 79.98 chs.

	N. 89° 56' W., bet. secs. 5 and 32. Over rolling land. Through dense undergrowth.
3.29	Wash, 35 lks. wide, course N. W.
7.96	Road course N. W.

(3)

Retracement of the South Boundary of Tp. 19 S., R. 22 E.
(Continued.)

Chs.
34.90 Wash, 10 lks. wide, course N. W.
39.90 The 1/4 sec. cor. a granite stone, firmly set, marked and witnessed as described by the Surveyor-General.
42.90 Wash, 32 lks. wide, course N. W.
51.70 Road course S. E.
53.00 Wash, 20 lks. wide, course N. W.
59.64 Wash, 15 lks. wide, course S. W.
79.90 The corner of sections 5, 6, 31 and 32, a granite stone firmly set marked and witnessed as described by the Surveyor-General.
Land rolling and hilly.
Soil, sandy loam 2nd rate.
Dense undergrowth 79.90 chains.

N. 89° 56' W., bet. secs. 6 and 31.
Over rolling land.

14.78 Wash, 10 lks. wide, course N. W.
16.30 Road bears S. and E.
19.80 Top.
39.84 The 1/4 sec. cor. as described by the Surveyor-General.
68.36 Road from Tombstone, ~~bts. N. & S. E.~~
79.66 The corner of Tps. 19 and 20 S., Rs. 21 and 22 E., as described by the Surveyor-General.
Land rolling.
Soil sandy 2nd and 3rd rate.
Dense undergrowth 79.66 chains.

July 7th, 1905.

Subdivisions of the S 1/2 of Tp. 19 S., R. 22 E.

July 8th, 1905- At the cor. to secs. 1, 2, 35 and 36, at 7 hours, 11 minutes, a. m., l. m. t., I set off 31° 43 1/2' N., on the Lat. arc; 22° 35' N., on the decl. arc and determine a meridian with the Solar, Thence I run, N. 0° 01' W., on a true line, bet. secs. 35 and 36, having previously retraced the line bet. secs. 36 and 31 on the east boundary of this township and found the same practically as stated by the Surveyor-General.

Over rolling hills through dense undergrowth of catclaw and greasewood.

5.34 Dry wash, 52 lks. wide, course S. W.
12.30 Point of hill trending to the S. W.
Descend.
17.00 Dry wash, 30 lks. wide, course S. W. and ascend.
29.00 Old road bears N. E. and S. W.
30.50 Descend.
40.00 Set a sandstone, 18 x 12 x 6 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
This corner is on the S. W. slope of a low hill.
41.65 Dry wash, 35 lks. wide, course S. W. and ascend.
61.40 Old wagon road bears N. W. and S. E.
63.00 To point of hill trending to the N. W.
80.00 Set a limestone, 15 x 10 x 8 ins., 10 ins., in the ground for the corner to sections 25, 26, 35 and 36, marked with 1 notch on the S. and E. edges and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
Land mountainous 80. chs.
Soil sandy, 2nd and 3rd rate.
Undergrowth catclaw and greasewood.
Mountainous, or land covered with dense undergrowth 80 chs.

*See for this mile
the supplemental
notes Page 1.*

Chs. S. 89° 56' E., on a random line, bet. secs. 25 and 36.
 40. Set temp. 1/4 sec. corner.
 80.30 Intersect N. and S. line, 24 lks. S. of the Cor. to
 secs. 25, 30, 31 and 36; thence I run,
 S. 89° 54' W., on a true line bet. secs.
 25 and 36, over low mountains through dense undergrowth, descending
 13.62 Dry wash 20 lks. wide, course S. W.
 14.00 Pipeline Sycamore Canyon to Tombstone brs. N. E. & S. W.
 34.80 Dry wash, 50 lks. wide, course S. W.
 39.00 Descend steeply.
 40.15 Set a limestone, 15 x 10 x 8 ins., 10 ins., in the
 ground for 1/4 sec. cor. marked 1/4 on the N. face,
 and raise a mound of stones, 2 ft. base, 1 1/2 ft.
 high, N. of the corner.
 45.40 Old wagon road from Tombstone to the Dragoon Mountains
 bears N. E. and S. W.
 64.82 Ravine, 50 lks. wide, course S. W. and ascend.
 70.00 Top. & descend.
 75.04 Descend gradually.
 80.30 The corner of sections 25, 26, 35 and 36.
 Land mountainous.
 Soil sandy; 2nd and 3rd rate.
 Underbrush, catclaw and greasewood and some manzanito.
 Mountainous land or land covered with dense undergrowth
 80.30 chains.

July 8th, 1905.

July 9th, 1905- At 8 hours, 3 mins. a. m., 1. m. t.,
 I set off I set off 31° 44' N., on the Lat. arc; 22°
 25' N., on the decl. arc and determine a meridian
 with the Solar.

Thence I run, N. 0° 01' W., bet. secs. 25 and 26.
 Over low mountains through underbrush (dense)
 5.00 To point of spur trending to the S. W. and descend.
 12.00 Dry wash, 100 lks. wide, course west and ascend.
 19.50 Low ridge bears E. and W., and road from Tombstone
 to Dragoon Mountains bears N. E. and S. W.
 Descend.
 30.00 Dry wash, 100 lks. wide, course west.
 40.00 Set a quartzite rock, 15 x 12 x 10 ins., 10 ins., in
 the ground for 1/4 sec. cor. marked 1/4 on the W. face;
 and raise a mound of stones, 2 ft. base, 1 1/2 ft.
 high, W. of the corner. Pits impracticable.
 Descending.
 47.00 Enter small glade bears E. and W.
 49.35 Dry wash, 35 lks. wide, course W. and leave glade.
 Begin ascent.
 80.00 Set a limestone, 16 x 12 x 8 ins., 11 ins., in the
 ground for the corner to sections 23, 24, 25 and 26,
 marked with 2 notches on the S. and 1 on the E. edges
 and raise a mound of stones, 2 ft. base, 1 1/2 ft. high,
 W. of the corner. Pits impracticable.
 Land low mountain ridges.
 Soil sandy; 2nd and 3rd rate.
 No timber.
 Undergrowth catclaw and greasewood.
 Mountainous or land covered with dense undergrowth
 80.00 chains.

N. 89° 54' E., on a random line bet. secs. 24 and 25.
 40. Set temp. 1/4 sec. cor.
 80.40 Intersect N. and S. line, 6 lks. S. of the corner to
 sections 19, 24, 25 and 30; thence I run,
 S. 89° 51' W., on a true line bet. secs.
 24 and 25, over mountainous land through dense under-
 growth.
 40.20 Set a limestone, 18 x 12 x 10 ins., 12 ins., in the
 ground for 1/4 sec. cor. marked 1/4 on the N. face;

Chs.	and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.
47.20	Old road from Tombstone to the Dragoon Mountains, bears N. E. and S. W. and ascend.
75.00	Top and descend.
80.40	The corner of sections 23, 24, 25 and 26. Land mountainous. Soil sandy; 2nd and 3rd rate. No timber. Undergrowth catclaw and greasewood some buck brush. Mountainous, or land covered with dense undergrowth 80.40 chains.

	N. 0° 01' W., bet. secs. 23 and 24.
19.00	Over low mountain ridges through dense brush, ascending.
30.00	Top, and descend.
40.00	Bottom and ascend.
	Set a quartzite rock, 15 x 12 x 8 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
58.00	Top of mesa or ridge bears E. and W., and descend.
58.50	Dry wash, 260 lks. wide, course west and ascend gradually.
67.30	Old road bears N. E. and S. W.
80.00	Set a limestone, 20 x 10 x 8 ins., 15 ins., in the ground for the corner to sections 13, 14, 23 and 24, marked with 3 notches on the S. and 1 on the E. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Land low mountains and ridges. Soil sandy 1st and 2nd rate. No timber. Undergrowth catclaw and greasewood. Mountainous or land covered with dense undergrowth 80.00 chains.
July 9th, 1905.	

	July 10- At the corner just previously described, at 7 hours, 35 minutes, a. m., l. m. t., I set off 31° 46' N., on the lat. arc; 22° 18' N., on the declination arc and determine a meridian with the Solar. Thence I run, N. 89° 51' E., on a random line, bet. sections 13 and 24.
40.	Set temp. 1/4 sec. cor.
80.27	Intersect the east boundary of the Township, at a point 7 lks. S. of the corner to sections 13, 18, 19 and 24. Thence I run, S. 89° 48' W., on a true line, bet. sections 13 and 24. Over low ridges through dense brush. Descend.
7.47	To center of dry wash, course W. thence down same.
25.45	Leave dry wash, course S. W.
32.50	Dry wash, 20 lks. wide, course S. W. & ascend.
40.135	Set a limestone, 15 x 10 x 6 ins., 10 ins., in the ground for the 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. Ascend.
80.27	The corner of sections 13, 14, 23 and 24. Land mountainous. Soil sandy 3rd rate. No timber. Undergrowth catclaw and greasewood. Mountainous or land covered with dense undergrowth 80.27 chains.

	N. 0° 01' W., bet. secs. 34 and 35.
	Over low mountain ridges through dense brush.

For this mile see supplemental notes page 1.

chs. Descending.
 9.00 Dry wash, 50 lks. wide, course S. W. and ascend.
 22.00 Point of spur trending to the S. W.
 33.00 Top of main ascent or ridge bears N. E. and S. W.
 Descend.
 40.00 Set a sandstone, 15 x 12 x 6 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
 42.90 Dry wash, 30 lks. wide, course S. W. and ascend.
 51.20 Top of low ridge bears E. and W. and descend.
 62.60 Dry wash, 20 lks. wide, course west and ascend.
 67.00 Top and descend.
 80.00 Set a sandstone, 15 x 10 x 8 ins., 10 ins., in the ground for the corner to sections 26, 27, 34 and 35, marked with 1 notch on the S. and 2 notches on the E. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
 Land mountainous and rocky.
 Soil, sandy and rocky; 2nd rate.
 No timber.
 Undergrowth catclaw and greasewood.
 Mountainous or land covered with dense undergrowth 80. chs.
 July 10th, 1905.

 July 11- At the corner to secs. 26, 27, 34 and 35, just previously described, at 8 hours, 2 mins. a. m., 1. m. t., I set off 31° 44' N., on the Lat. arc; 22° 10' N., on the decl. arc and determine a meridian with the Solar.

Thence I run, S. 89° 56' E., on a random line, bet. secs. 26 and 35.

40. Set temp. 1/4 sec. cor.
 80.10 Intersect N. and S. line, at a point 9 lks. S. of the corner to sections 25, 26, 35 and 36, Thence I run, WEST, on a true line, bet. secs. 26 and 35.
 Over mountainous land through dense brush.
 23.07 Old road course N. W. and S. E. thence descend over points of hills trending to the S. W.
 40.05 Set a granite stone, 14 x 12 x 6 ins., 9 1/2 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.
 44.00 Dry wash, 60 lks. wide, course S. W.
 62.00 Dry wash, 50 lks. wide, course S. W.
 73.00 Top of ridge N. E. and S. W.
 80.10 The corner of sections 26, 27, 34 and 35.
 Land low mountains.
 Soil sandy and rocky; 2nd rate.
 No timber.
 Undergrowth, mesquite, greasewood and catclaw.
 Mountainous, or land covered with dense undergrowth 80.10 chains.

 N. 0° 01' W., bet. secs. 26 and 27.
 Over mountainous land covered with dense underbrush.

5.00 Descend.
 16.00 Cross ravine bears N. E. and S. W.
 Ascend.
 31.56 Top and descend.
 35.75 Over flat bears N. E. and S. W.
 40.00 Set a limestone, 15 x 10 x 6 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
 42. Leave flat and ascend.
 66.50 Top of ridge bears N. E. and S. W. and descend to
 80.00 Set a limestone, 14 x 10 x 8 ins., 9 1/2 ins., in

For this mile see supplemental notes page 2.

For this mile see supplemental notes page 2.

chs. the ground marked with 2 notches on the E. and S. edges, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
Land mountainous.
Soil rocky and sandy; 3rd rate.
No timber.
Mountainous or land covered with dense underbrush of catclaw, mesquite or greasewood 80. chains.

Note- At 12 O'Clock Noon at this corner I set off 22° 8' N., on the declination arc and observe the sun on the meridian the resulting latitude is 31° 45' N. ✓

40. Set temp. 1/4 sec. cor.
80.14 Intersect N. and S. line, at a point, 16 lks. N. of the corner to sections 23, 24, 25 and 26; thence I run, N. 89° 53' W., on a true line bet. secs. 23 and 26.

11.13 Over low mountain ridges; through dense undergrowth.
40.07 Old road from Tombstone bears N. E. and S. W.
Set a limestone, 15 x 10 x 6 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.

43.34 Descend.
54.00 Enter small flat thence along southern edge of the same.

77.00 Old road bears N. W. and S. E.
80.14 The corner of sections 22, 23, 26 and 27.
Land low mountains.
Soil rocky and sandy 3rd and 4th rate.
No timber.
Undergrowth, mesquite, greasewood and catclaw.
Mountainous or land covered with dense undergrowth 80.14 chs.

1.00 N. 0° 01' W., bet. secs. 22 and 23.
20.07 Over mountainous land through dense brush.
26.09 Leave flat bears N. E. and S. W. and ascend.
40.00 Top of ridge bears E. and W. and descend.
Dry wash, 20 lks. wide, course S. W. and ascend.
Set a limestone, 12 x 10 x 8 ins., 8 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.

40.50 Descend.
50.26 Dry wash, 175 lks. wide, course S. W. and ascend.
78.00 Cross point of hill trending to the west.
Descend.

80.00 Set a limestone, 18 x 10 x 8 ins., 12 ins., in the ground for the corner to sections 14, 15, 22 and 23, marked with 3 notches on the S. and 2 notches on the E. edges; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of the corner.
This corner is on the S. W. slope of a point, about 30 feet above the bottom of same.
Land low mountains and ridges.
Soil rocky 3rd and 4th rate.
No timber.
Underbrush catclaw, mesquite and greasewood.
Mountainous or land covered with dense underbrush 80. chains.

July. 11th, 1905.

July 12- At the corner to sections 14, 15, 22 and 23 at 7 hs. 45 ms. a. m., 1. m. t., I set off 22° 02' N., on the declination arc and 31° 46' N., on the Lat. arc and determine a meridian with the Solar.

Chs.	Thence I run, S. 89° 53' E., on a random line, bet. secs. 14 and 23.
40.	Set temp. 1/4 sec. cor.
80.30	Intersect N. and S. line at a point 28 lks. S. of the corner to sections 13, 14, 23 and 24; thence I run, S. 89° 55' W., on a true line bet. secs. 14 and 23. Over low mountain ridges through dense underbrush. Foot of descent and enter gulch thence along same.
1.00	Leave gulch and ascend. Gulch runs S. W.
35.00	Top of ascent; thence along low ridgestrending to the west.
36.75	Set a limestone, 16 x 14 x 12 ins., 11 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.
40.15	Change to the N. W. slope of ridge. Trends south.
60.12	The corner to sections 14, 15, 22 and 23.
80.30	Land mountainous. Soil sandy and rocky 3rd and 4th rate. No timber. Undergrowth catclaw, mesquite and greasewood. Mountainous or land covered with dense undergrowth 80.30 chains.

NOTE- Knowing from my retracement of the South boundary of the township that the corner to sections 33 and 34 is out of position, I proceed to the corner of sections 26, 27, 34 and 35, as heretofore established and described by me.	
From said corner I run N. 89° 56' W., on a true line, bet. secs. 27 and 34.	
Over low mountain ridges and hills through dense brush. Ascending.	
12.07	Top and descend.
29.80	Dry wash, 56 lks. wide, course S. W. and ascend.
40.00	Set a sandstone, 15 x 12 x 4 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.
65.70	Dry wash, 20 lks. wide, course S. W. Ascend.
71.00	Top and descend.
80.00	Set a limestone, 18 x 12 x 12 ins., 12 ins., in the ground for the corner to sections 27, 28, 33 and 34, marked with 1 notch on the S. and 3 notches on the E. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable. Land low mountains and ridges. Soil sandy and rocky; 2nd to 4th rate. No timber. Undergrowth, mesquite, catclaw and greasewood. Mountainous or land covered with dense undergrowth 80. chains.

From the corner of sections 27, 28, 33 and 34, I run, S. 0° 02' E., on a true line, bet. secs. 33 and 34. Over low mountain ridges through dense undergrowth. Ascending.	
1.04	Top of ascent and descend.
11.20	Dry wash, 30 lks. wide, course N. W. and ascend.
35.06	Top of ascent and descend.
40.00	Set a limestone, 18 x 12 x 10 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
59.45	To a point, 72 lks. E. of a stone marked N. E. Cor. B. D., which is the N. E. Cor. of the Bullin Den Mill site.

For this mile see supplemental notes page 2.

For this mile see supplemental notes page 2.

9. Subdivisons of Tp. 19 S., R. 22 E. Continued.

Chs.
51.00 To a point 4.46 chs. E. of the J. L. Mc Clellans Ranch House.
67.70 Walnut Creek, 200 lks. wide, course westerly.
69.02 Cross railroad track course N. E. and S. W.
~~77.35 To a point on line, from which the N. E. Cor. of the Watervale Milleite bears West 7.78 chains distant. A Monument of stones supposed to be the N. W. cor. of an unknown Milleite bears N. 84° 40' W., 6.52 chains distant.~~
79.85 Old road bears E. and W.
80.15 Intersect the South boundary of the Township at a point S. 89° 56' E., 90 lks. from the corner of sections 33 and 34.
Set a granite stone, 18 x 16 x 8 ins., 12 ins., in the ground for closing corner to sections 33 and 34 marked with 3 notches on the E. and W. faces and C.C. on the N. face and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. This cor. is 10 lks. E. of a C C cor. to secs. 3-4 of Tp. S. Mountainous land.
Soil sandy and rocky 3rd to 4th rate.
No timber.
Underbrush catclaw, mesquite and greasewood.
Mountainous or land covered with dense underbrush 80.15 chains.
July, 12-1905.

From the Corner to sections 27, 28, 33 and 34, as heretofore established and described by me, after having on July 13th, 1905, at 7 hours, 30 minutes, a. m., 1. m. t., set off 31° 44' N., on the Lat. arc and 21° 54' N., on the decl. arc and determined a meridian with the Solar, I run N. 0° 02' W., bet. secs. 27 and 28.
Over low mountains through dense underbrush.
Commence descent over low mountain ridge.
7.70 Foot, dry wash, 50 lks. wide, course W. and ascend.
10.00 Top and descend.
14.00 Enter small valley bearing N. E. and S. W.
19.50 Set a limestone, 15 x 14 x 6 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, & raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
40.00 Old road bearing N. E. and W.
51.00 Ascend.
62.00 Set a limestone, 15 x 12 x 7 ins., 10 ins., in the ground for the corner to sections 21, 22, 27 and 28, marked with 2 notches on the S. and 3 notches on the E. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.
80.00 This corner is near top to low ridge bearing N. E. and S. W.
Land mountainous and rolling.
Soil 1st to 4th rate, sandy and rocky.
No timber.
Undergrowth, mesquite, greasewood and palo verde with catclaw.
Mountainous or land covered with dense undergrowth 80. chains.

S. 89° 56' E., on a random line, bet. secs. 22 and 27. Descending over S. E. slope of ridge through dense brush.
40. Set temp. 1/4 sec. cor.
79.94 Intersect the N. and S. line at a point 8 lks. N. of the corner to sections 22, 23, 26 and 27. Thence I run, N. 89° 53' W. on a true line, bet. secs. 22 and 27.

For this mile see supplemental notes page 3.

For this mile see supplemental notes page 4

Chs. Over mountainous land through dense brush.
 19.90 Top of spur trending N. thence descend.
 39.97 Set a limestone, 15 x 10 x 8 ins., 10 ins., in the
 ground for 1/4 sec. cor. marked 1/4 on the N. face;
 and raise a mound of stones, 2 ft. base, 1 1/2 ft.
 high, N. of the corner. Pits impracticable.
 79.94 The cor. to secs. 21, 22, 27 and 28.
 Land low mountain ridges.
 Soil rocky and sandy; 1st to 4th rate.
 No timber.
 Undergrowth catclaw, mesquite and greasewood.
 Mountainous or land covered with dense undergrowth
 79.94 chains.

 N. 0° 02' W., bet. secs. 21 and 22.
 Over mountain ridges through dense brush.
 2.00 Top of low ridge bears W.
 29.98 Enter small valley bears N. E. and S. W.
 37.60 Old road bears N. E. and S. W.
 40.00 Set a limestone, 16 x 10 x 8 ins., 11 ins., in the
 ground for the 1/4 sec. cor. marked 1/4 on the W. face;
 and raise a mound of stones, 2 ft. base, 1 1/2 ft.
 high, W. of the corner.
 44.90 Wash, 15 lks. wide, course S. W.
 57.80 Wash, 10 lks. wide, course S. W. Thence ascend
 gradually along the S. slope of ridge.
 67.00 Top of ridge of mesa bears nearly E. and W.
 80.00 Set a limestone, 15 x 12 x 6 ins., 10 ins., in the
 ground for the corner to sections 15, 16, 21 and 22,
 marked 19 S on the N E; 22 E on the S E faces with 3
 grooves on the S. and E. edges; and raise a mound of
 stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.
 Pits impracticable.
 Land mountainous and rolling.
 Soil sandy and rocky; 1st to 4th rate.
 No timber.
 Undergrowth catclaw, mesquite and greasewood.
 Mountainous or land covered with dense underbrush 80.
 chains.

 S. 89° 53' E., on a random line, bet. secs. 15 and 22.
 40. Set temp. 1/4 sec. cor.
 80.06 Intersect the N. and S. line at a point 28 lks. S. of
 the corner to sections 14, 15, 22 and 23; thence I run
 S. 89° 55' W., on a true line bet. secs. 15 and 22.
 Over low mountain ridges; through dense brush, descending.
 9.00 Begin ascent.
 17.00 Top of ascent bearing N. E. and S. W. & descend.
 40.03 Set a limestone, 18 x 16 x 6 ins., 12 ins., in the
 ground for 1/4 sec. cor. marked 1/4 on the N. face;
 and raise a mound of stones, 2 ft. base, 1 1/2 ft.
 high, N. of the corner. Pits impracticable. Ascend.
 59.90 Top of low ridge trending S. W. and descend.
 80.06 The corner to sections, 15, 16, 21 and 22.
 Land low mountains.
 Soil sandy and rocky; 1st to 4th rate.
 No timber.
 Undergrowth catclaw, mesquite and greasewood.
 Mountainous or land covered with dense undergrowth
 80.06 chains.

July 13, 1905.

Chs.	For reasons previously given, I proceed to the corner to sections 27, 28, 32 and 34 and on July 14th, 1905, at 7 hours, 32 minutes, a. m., l. m. t. I set off $31^{\circ} 44' N.$, on the Latitude arc $21^{\circ} 45' N.$, on the decl. arc and determine a meridian with the Solar; thence I run, $N. 89^{\circ} 56' W.$, on a true line bet. secs. 28 and 33. Over low mountain ridges through dense underbrush. Ascending.
10.00	Point of hill trending S. and commence descent.
22.10	Foot of descent and enter narrow valley bears S. E. and N. W.
35.55	Dry wash 20 lks. wide, course N. W. and begin ascent. Leave valley.
40.00	Set a sandstone, 15 x 12 x 6 ins., 10 ins., in the ground for the $1/4$ sec. cor. marked $1/4$ on the N. face; and raise a mound of stones, 2 ft. base, $1 1/2$ ft. high, N. of the corner. Pits impracticable.
47.42	Dry wash, 30 lks. wide, course S. W.
72.00	Ascend steeper.
80.00	Set a limestone, 16 x 10 x 10 ins., 11 ins., in the ground for the corner to sections 28, 29, 32 and 33, marked with 1 notch on the S. and 4 notches on the E. edges and raise a mound of stones 2 ft. base, $1 1/2$ ft. high, W. of the corner. Pits impracticable.
	Land mountainous, rolling and valley. Soil 1st to 4th rate. No timber. Undergrowth, catclaw, mesquite and greasewood. Mountainous, or land covered with dense undergrowth; 80.00 chains.
	----- $S. 0^{\circ} 02' E.$, on a true line, bet. secs. 32 and 33. Over low ridges through dense underbrush.
6.73	Dry wash, 50 lks. wide, course west and ascend.
17.10	Descend.
32.64	Railroad from Tombstone to Fairbanks bears E. and W.
34.24	Wagon road from Tombstone to Fairbanks bears E. and W.
36.09	Enter valley bears S. E. and N. W.
36.50	Walnut creek, 3 lks. wide, running water, course S. W.
40.00	Set a granite stone, 20 x 10 x 16 ins., 15 ins., in the ground for the $1/4$ sec. cor. marked $1/4$ on the W. face; and raise a mound of stones, 2 ft. base, $1 1/2$ ft. high, W. of the corner.
55.86	Dry wash, 30 lks. wide, course N. W.
58.04	Leave valley bearing N. W. and S. E. and ascend over ridge.
79.95	Intersect the South boundary of the Township, at a point 98 lks. $S. 89^{\circ} 56' E.$, of the cor. of secs. 4, 5, 32 & 33. at which point I set a granite stone, 15 x 10 x 6 ins., 10 ins., in the ground for closing corner to sections 32 and 33, marked with 2 grooves on the W. and 4 on the E. faces and C C on the N face; and raise a mound of stones, 2 ft. base, $1 1/2$ ft. high, N. of the corner. Pits impracticable. Land mountainous and rolling valleys. Soil, 1st to 4th rate, sandy and rocky. No timber. Undergrowth, mesquite, greasewood, manzanito and catclaw. Mountainous, or land covered with dense underbrush 79.95 chains.
	----- I return to the corner to sections 28, 29, 32 and 33. Thence I run, $N. 0^{\circ} 02' W.$, bet. secs. 28 and 29. Over ridges; through dense underbrush. Ascending.
14.12	Top of ascent and descend.
36.94	Dry wash, 30 lks. wide, course S. W. Ascend.

Chs.
 40.00 Set a sandstone, 12 x 10 x 6 ins., 8 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.
 54.73 Descend.
 58.53 Dry wash, 20 lks. wide, course N. W.
 74.60 Old road from Tombstone to Mountains course S. W. and N. E.
 78.70 Dry wash, 30 lks. wide, course S. W.
 80.00 Set a limestone, 20 x 14 x 12 ins., 15 ins., in the ground for the corner to sections 20, 21, 28 and 29, marked with 2 notches on the S. and 4 notches on the E. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.
 Whence,
 A Black walnut, 4 ins., in diam. bears S. 30° W., 82 lks. dist. marked T. 19 S., R. 22 E., S. 29 B T.
 A Black walnut, 4 1/2 ins., in diam. bears S. 23 1/2° E., 170 lks. dist. marked T 19 S R 22 E S 28 B T. No other trees within limits.
 This corner is in old creek bed.
 Land low mountain ridges and valleys.
 Soil, sandy and rocky; 1st to 4th rate.
 No timber, except scattering walnuts in old creek bed.
 Undergrowth, catclaw, mesquite and greasewood.
 Mountainous, or land covered with dense undergrowth.
 80.00 chains.

July 14th, 1905.

July, 15th, 1905- At the corner to secs. 20, 21, 28 and 29, just previously established and described. I set off 31° 45' N., on the Lat. arc; 21° 35' N., on the decl. arc; and at 8 hours, 10 minutes, a. m., l.m. t. I determine a meridian with the Solar; thence I run,

S. 89° 56' E., on a random line, bet. secs. 21 and 28.

40. Set temp. 1/4 sec. cor.
 80.12 Intersect the N. and S. line, at a point 9 lks. N. of the corner to sections 21, 22, 27 and 28; thence I run, N. 89° 52' W., on a true line, bet. secs. 21 and 28, over low hilly ridges, through dense brush.
 1.00 Descend.
 15.43 An old road bears N. and S.
 38.06 Foot of descent and enter land gradually sloping N.W.
 40.06 Set a limestone, 14 x 10 x 6 ins., 9 ins., in the ground for the 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner.
 44.00 Leave flat N. E. and S. W. and ascend.
 63.00 Descend.
 73.56 Enter old creek bottom.
 80.12 The corner to sections 20, 21, 28 and 29.
 Land mountain ridges and rolling valley.
 Soil sandy and rocky; 1st to 4th rate.
 Timber a few scattering walnut trees in creek bottom.
 Undergrowth, mesquite, catclaw and greasewood.
 Mountainous or land covered with dense undergrowth
 80.12 chains.

N. 0° 02' W., bet. secs. 20 and 21.

1.40 Leave creek bottom, course S. W.
 2.05 In order to perpetuate the corner to sections 20, 21 28 and 29, in case the same should be carried away by high flood water, at this point, I set a limestone, 20 x 18 x 10 ins., 15 ins., in the ground for witness

13. Subdivisions of Tp. 19 S., R. 22 E., Continued.

13

Chs.	corner to cor. of sections 20, 21, 28 and 29, marked with 2 notches on the S and 4 notches, W. C on the E. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Ascending gradually.
40.00	Set a sandstone, 12 x 10 x 6 ins., 8 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
55.52	Descend from Mesa bears E. and W.
74.10	Dry wash, 70 lks. wide, course S. and W. ascend.
80.00	Set a sandstone, 12 x 10 x 4 ins., 8 ins., in the ground, for the corner to sections 16, 17, 20 and 21, marked with 3 notches on the S. and 4 notches on the E. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. This corner is set about 2.00 chs. E. of a small gulch, on point of hill, about 20 ft. above the latter. Land mountain ridges and rolling valley. Soil sandy and rocky; 1st, 3rd and 4th rate. No timber. Undergrowth, mesquite, greasewood and catclaw. Mountainous or land covered with dense undergrowth 80.00 chains.
40.	S. 89°52' E., on a random line, bet. secs. 16 and 21.
80.16	Set temp. 1/4 sec. cor. Intersect N. and S. line, at a point, 8 lks. S. of the corner to sections 21, 22, 15 and 16; thence I run, N. 89° 55' W., on a true line, bet. secs. 16 and 21. Over low hills and ridges, through dense brush. gradually descending the N. W. slope of ridge.
40.08	Set a limestone, 15 x 8 x 8 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impract.
44.30	Dry wash, 20 lks. wide, course S. W.
66.05	Descend over points of ridges trending S. W.
80.16	The corner to sections 16, 17, 20 and 21. Land mountain ridges. Soil rocky 4th rate. No timber. Undergrowth, mesquite, catclaw and greasewood. Mountainous, or land covered with dense underbrush, 80.16 chains. July 15, 1905.
1.60	I return to the corner to sections 28, 29, 32 and 33. July 16- I set off 31° 44' N., on the Lat. arc; 21° 26' N., on the decl. arc and at 7 hs. 41 mins. a. m., 1. m. t. determine a meridian with the Solar. Thence I run, N. 89° 56' W. on a true line, bet. secs. 29 and 32. Over ridges through dense brush. Descending.
15.00	Dry wash, 20 lks. wide, course S. & ascend.
29.45	Spur, trending S. W. to Walnut Creek. & descend.
40.00	Road, course N. E. and S. W. foot of descent. Set a limestone, 20 x 14 x 10 ins., 15 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
61.50	Old road course N. W. and S. E.
77.04	Descend.
80.00	Set a limestone, 16 x 12 x 6 ins., 11 ins., in the ground for the corner to sections 29, 30, 31 and 32, marked with 1 notch on the S. and 5 notches on the E.

<p>Chs.</p>	<p>edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impract. This corner is set about 3. chains from Top of hill on the N. W. slope. Land ridges and rolling. Soil sandy and rocky; 1st to 4th rate. No timber. Undergrowth, mesquite, greasewood and catclaw. Mountainous, or land covered with dense undergrowth 80. chains.</p> <p style="text-align: center;">-----</p> <p>S. 0° 03' E., bet. secs. 31 and 32. Descending over points of hills trending S. W. and through dense brush.</p> <p>6.95 Top of spur, S. W. 16.97 Railroad track from Tombstone to Fairbanks, course N. E. and S. W. 19.22 Tombstone and Fairbanks stage road course N. E. and S. W. 24.85 Walnut creek, 300 lks. wide, course S. W. a small stream of water in center of creek. 30.04 Ascend steep, N. W. slope of high Mountain. 40.00 Mark a granite stone in place, 24 x 12 x 10 ins., above ground with a cross (x) at exact corner point, and 1/4 W. of cross, for 1/4 sec. cor. and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable. 47.00 Top of rocky granite mountain, bears S. E. and N. W. and commence descent. 57.80 Dry wash, 20 lks. wide, course S. W. 79.40 Dry wash, 10 lks. wide, course S. W. 80.16 Intersect the south boundary of the township, at a point S. 89° 56' E., 1.09 chains, from the cor. of sections 5, 6, 31 and 32. I set a granite stone, 12 x 8 x 6 ins., 8 ins., in the ground for closing corner to sections 31 and 32, marked with 1 notch on the W and 5 notches on the E. faces; and C C on the N face; and raise a mound of stones 2 ft. base, 1 1/2 ft. high, N. of the corner. Land Mountainous and rocky; 2nd and 4th rate. No timber, except a few scattering trees along Walnut Creek. Undergrowth, greasewood and mesquite N. of creek and S. of creek more open. Mountainous land 80.16 chains.</p> <p style="text-align: center;">-----</p> <p>N. 89° 56' W., on a random line, bet. secs. 30 and 31. Set temp. 1/4 sec. cor. 40. Intersect the W. boundary of the Tp. at a point, 20 lks. S. of the corner to sections 25, 30, 31 and 36; thence I run, S. 89° 47' E. on a true line bet. secs. 30 and 31. Over low mountain ridges trending to the S. W. 15.66 Top of ridge course N. and S. 25.95 Dry wash, 50 lks. wide, course N. W. Ascend. 30.00 Top of spur trending to the S. and descend. 33.05 Old road course N. W. and S. E. 40.66 Set a sandstone, 14 x 9 x 6 ins., 9 ins., in the ground for 1/4 se. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. 77.86 Dry wash, 10 lks. wide, course S. & ascend. 80.66 The corner to sections, 29, 30, 31 and 32. Land low mountain ridges. Soil rocky 2nd to 4th rate. No timber. Undergrowth, mesquite, greasewood and catclaw. Mountainous or land covered with dense undergrowth 80.66 chains.</p> <p style="text-align: center;">-----</p>
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15. Subdivisions of Tp. 19 S., R. 22 E. Continued.

<p>Chs.</p> <p>3.65</p> <p>6.00</p> <p>13.25</p> <p>14.35</p> <p>35.50</p> <p>40.00</p> <p>50.80</p> <p>61.50</p> <p>65.00</p> <p>80.00</p>	<p>N. 0° 03' W., bet. secs. 29 and 30. Over mountainous land ascending through dense brush. Old road bears N. W. and S. E.</p> <p>Descend.</p> <p>Dry wash, 7 lks. wide, course S. W.</p> <p>Benson and Tombstone wagon road course N. W. and S. E.</p> <p>Descend.</p> <p>Set a limestone, 15 x 10 x 6 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable. The corner is set on the bank of a small ravine.</p> <p>Dry wash, 100 lks. wide, course N. W. and ascend.</p> <p>Descend.</p> <p>Dry creek, 125 lks. wide, course S. W.</p> <p>Set a quartite rock, 18 x 16 x 12 ins., 12 ins., in the ground for the cor. to secs. 19-20-29 and 30, mkd. with 2 notches on the S. and 5 on E. edges; and raise a md. of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impract.</p> <p>Land low mountains and hills. Soil, sandy and rocky; 2nd and 4th rate. Scattering mesquite timber. Undergrowth, scrub mesquite, greasewood and caclaw. Mountainous, or land covered with dense underbrush 80.00 chains.</p> <p style="text-align: center;">July 16, 1905.</p> <p>-----</p> <p>July 17th, 1905- At 7 hours, 33 mins. a. m., 1. m. t. I set off 21° 16' N., on the decl. arc; 31° 45' N., on the Lat. arc and determine a meridian with the Solar; Thence I run, S. 89° 56' E., on a random line, bet. secs. 20 and 29.</p> <p>40. Set temp. 1/4 sec. cor.</p> <p>79.80 Intersect the N. and S. line, at a point 15 lks. N. of the corner to sections 20, 21, 28 and 29; thence I run, N. 89° 50' W. on a true line bet. secs. 20 and 29.</p> <p>6.00 Over low ridges through dense brush.</p> <p>39.90 Leave old creek bottom course S. W.</p> <p>Set a sandstone, 14 x 8 x 8 ins., 9 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.</p> <p>79.80 The corner to sections 19, 20, 29 and 30. Land mountain ridges. Soil sandy 2nd to 4th rate. No timber. Undergrowth catclaw, mesquite and greasewood. Mountainous or land covered with dense undergrowth 79.80 chains.</p> <p>-----</p> <p>N. 89° 47' W., on a random line, bet. secs. 19 and 30.</p> <p>40. Set temp. 1/4 sec. cor.</p> <p>80.63 Intersect the west boundary of the Township, at a point 26 lks. N. of the cor. to sections 19, 24, 25 and 30, which is a stone corner as described by the Surveyor-General. Thence I run, S. 89° 58' E. on a true line, bet. secs. 19 and 30.</p> <p>Descending, through dense undergrowth, mesquite and catclaw.</p> <p>6.13 Dry wash, 10 lks. wide, course S. W. and ascend.</p> <p>8.00 Descend.</p> <p>21.30 Road from Benson to Tombstone bears N. W. and S. E.</p> <p>30.70 Dry wash follow along same.</p> <p>32.10 Leave wash, course W. from the N. E. and ascend.</p> <p>40.63 Set a limestone, 15 x 10 x 5 ins., 10 ins., in the ground for the 1/4 sec. cor. marked 1/4 on the N. face; and raised a mound of stones, 2 ft. base, 1 1/2 ft. high,</p>	<p>stone</p>
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Chs.
57.00 N. of the corner. Pits impract.
80.63 Top of point of low ridge trending to the N. W. descend.
The cor. to secs. 19, 20, 29 and 30.
Land mountainous low ridges and points trending to
the S. E.
Soil sandy and rocky 3rd and 4th rate.
No timber.
Undergrowth, mesquite, catclaw and greasewood.
Mountainous, or land covered with dense undergrowth.
80.63 chains.

N. 0° 03' W., bet. secs. 19 and 20.
Ascending through dense brush.
15.00 Top of ascent low ridge E. and W.
Descend.
20.00 Dry wash, 20 lks. wide, course W.
30.00 Top of low ridge bears E. and W. and descend.
37.70 Enter small flat bears E. and W.
40.00 Set a limestone, 15 x 8 x 7 ins., 10 ins., in the
ground for the 1/4 sec. cor. marked 1/4 on the W. face;
and raise a mound of stones, 2 ft. base, 1 1/2 ft.
high, W. of the corner. Pits impracticable.
This corner is in a small grassy flat.
41.00 Dry wash, 20 lks. wide, course S. W.
43.12 Ascend S. E. slope of ridge.
80.00 Set a limestone, 12 x 12 x 8 ins., 8 ins., in the
ground for the corner to sections 17, 18, 19 and 20,
marked with 3 notches on the S. and 5 notches on the
E. edges; and raise a mound of stones, 2 ft. base,
1 1/2 ft. high, W. of the corner. Pits impracticable.
Land mountainous.
Soil rocky and gravelly; 3rd and 4th rate.
No timber.
Undergrowth, mesquite, catclaw and greasewood.
Mountainous, or land covered with dense undergrowth,
80.00 chains.

S. 89° 50' E., on a random line, bet. secs. 17 and 20.
40. Set temp. 1/4 sec. cor.
79.80 Intersect N. and S. line, at a point 12 lks. S. of
the corner to sections 16, 17, 20 and 21; thence I run,
N. 89° 55' W., on a true line, bet. secs. 17 and 20.
Through dense brush.
2.00 Descend.
20.30 Dry wash, from the N. E. follow same west.
23.30 Leave dry wash, course N. W. and ascend.
35.00 Top and descend.
39.90 Set a quartz rock, 15 x 10 x 8 ins., 10 ins., in the
ground for 1/4 sec. cor. marked 1/4 on the N. face;
and raise a mound of stones, 2 ft. base, 1 1/2 ft.
high, N. of the corner. Pits impracticable.
45.52 Dry wash, 50 lks. wide, course S W.
46.32 Ascend steep rocky slope.
51.95 Top and descend.
63.00 Main ridge bears N. E. and S. W.
75.08 Descend the N. W. slope of same.
79.80 The cor. to secs. 17, 18, 19 and 20.
Land mountain ridges covered with greasewood, catclaw
and mesquite underbrush.
Soil, 2nd and 3rd rate. Sandy and rocky.
Mountainous or land covered with dense underbrush.
79.80 chains.

N. 89° 58' W., on a random line, bet. secs. 18 and 19.
40. Set temp. 1/4 sec. cor.
80.53 Intersect the West boundary of the Tp. 23 lks. S. of the
cor. to secs. 13, 18, 19 and 24, thence I run,

17.

Subdivisional lines of Tp. 19 S., R. 22 E. Concluded.

Chs. S. 89° 48' E., on a true line, bet. secs. 18 and 19. Over mountainous land through dense brush. Ascending.
 40.53 Set a limestone, 14 x 12 x 8 ins., 9 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.
 52.55 Top of ridge, bears N. E. and S. W. and descend.
 65.73 Dry wash, 150 lks. wide, course N. W. and ascend.
 74.93 Descend.
 80.53 The corner of sections, 17, 18, 19 and 20. Land low mountains. Soil rocky and sandy 2nd and 4th rate. No timber. Undergrowth, mesquite, catclaw and greasewood. Mountainous or land covered with dense undergrowth, 80.53 chains.

July 17th, 1905.

GENERAL DESCRIPTION.
 of the S. 1/2
 of
 Tp. 19 S. R. 22 E.

The general character of the land of this surveyed portion of Tp. 19 S., R. 22 E, is low mountain ridges trending to the S. W., considerably broken by small hills.

The country is covered with rich nutritious grasses.

The soil is generally poor, gravelly, sandy and rocky except in the small flats between ridges where there is some good soil.

In the southwestern portion of the Tp. there has been several attempts at mining but so far no success has attended the effort.

There is a fine spring of water at Mc Clellans Ranch in the S. E. 1/4 of Sec. 33.

Living water is found in Walnut Creek, which is the refuse water from the Mines at Tombstone operated by the Tombstone Consolidated Mining Company. Mr. Mc Clellan and other settlers west of him utilize this water for irrigation and are succeeding in raising considerable farm products.

John M. Ingall
 U. S. Deputy Surveyor

Boundaries of Tp. 19 S., R. 22 E.
 South 1/2 half.

Line designated	True Bearing	Dist.	N	S	E	W.
N. Bdy. (Sec. lines)	S. 89° 48' E.	80.53		.28	80.53	
	S. 89° 55' E.	79.80		.12	79.80	
	S. 89° 55' E.	80.16		.12	80.16	
	N. 89° 55' E.	80.06	.12		80.06	
	N. 89° 55' E.	80.30	.12		80.30	
	N. 89° 48' E.	80.27	.28		80.27	
S. Bdy.	N. 89° 56' W.	80.00	.10			80.00
	"	80.01	.10			80.01
	N. 89° 41' W.	40.75	.18			40.75
E. Bdy.	N. 89° 56' W.	280.00	.32			280.00
	South.	240.		240.00		
W. "	North	240.	240.00			
Convergency,					.23	
Error. in lat. 70 lks.			241.22	240.52	481.50	480.76
" in dep. 57 "						

Table of latitudes & departures & closing errors.
T. 19. S. R. 22. E.

18 75

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
N. Bdy. (sec lines.)	S. 89° 48' E.	80.53		.28	80.53	
	S. 89° 55' E.	79.80		.12	79.80	
	S 89° 55' E.	80.16		.12	80.16	
	N 89° 55' E.	80.06	.12		80.06	
	N. 89° 55' E.	80.30	.12		80.30	
	N. 89° 48' E.	80.27	.28		80.27	
East Bdy.	SOUTH	240.00		240.00		
South Bdy.	N 89° 56' W.	80.00	.10			80.00
	N. 89° 56' W.	80.01	.10			80.01
	N 89° 28' W.	40.75	.22			40.75
	N 89° 42' W.	40.25	.15			40.25
	N 89° 56' W.	239.54	.27			239.54
West Bdy.	NORTH.	240.00	240.00			
Convergency.						.25

BOOK 2061

	241.36	240.52	481.35	480.55
	<u>240.52</u>		<u>480.55</u>	
Error in lat.	0.84		0.80	dep.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

BOOK 2061

A list of the names of the individuals employed by

John M. Ingalls

....., 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~~ *retracement of the*

South body and survey of subdivisions of the S half of T 19 S R 22 E.

showing the respective capacities in which they acted:

D Roy Shrode....., Chairman.

Harry S Ingalls....., Chairman.

....., Moundman.

....., Moundman.

F. S. Kline....., Axman.

....., Axman.

Bruce M Hyde....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

John M. Ingalls

....., United States Deputy Surveyor, in surveying all

those parts or portions of the *Retracement of the S body*

of T 19 S R 22 E and the subdivisions of the S half of T 19 S R 22 E.

..... 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*

D. Roy Shrode....., Chairman.

Harry S Ingalls....., Chairman.

....., Moundman.

....., Moundman.

F. S. Kline....., Axman.

....., Axman.

Bruce M. Hyde....., Flagman.

Subscribed and sworn to before me this *15th*

day of *Aug*, 189*5*



John M. Ingalls
U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John M. Ingalls United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank Ingalls United States Surveyor General for Arizona, bearing date of the 4th day of May 1905, 1895, 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 retracement of the south boundary and subdivisions of the S 1/2 of Township 19 S R 22 E.

R 22 E of the Gila and Salt meridian, in the Territory of Ariz, 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; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

John M. Ingalls
United States Deputy Surveyor.

Subscribed by said John M. Ingalls and sworn to before me }
this 3rd day of August, 1895 } 1906



Frank Ingalls
U.S. Surveyor General
for Arizona.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix AZ Sept 5th 1907, 1897

The foregoing field notes of the survey of the retracement of the south bdy. and the survey of the subdivisional lines of T. 19 S R 22 E. of the Gila and Salt River Base and Meridian, in the territory of Arizona.

executed by John M. Ingalls U.S. deputy surveyor under his contract No. 130, dated May 4th 1905, 1895, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank 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.

Book "C."

copied E.T. 21
Sept 10/07
78

FIELD NOTES

BOOK 2061

Corrections of the
OF THE SURVEY OF THE

Exterior and subdivisional lines of
Sp. 19 S., R. 22 E.

of the Gila & Salt River Base & Meridian,
Territory of Arizona.

AS SURVEYED BY

John M. Ingalls, United States Deputy Surveyor,

Under his Contract No. 130, dated May 4th, 1905.

Survey commenced April 3rd, 1907

Survey completed April 7th, 1907

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BOOK 2061

PRELIMINARY OATHS OF ASSISTANTS.

WE, Geo G Ehrenborg and Jim Finley
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 ^{corrections of the} exterior and subdivisional lines of Sp. 19 S. R. 22 E.

Geo G Ehrenborg Chainman.
Jim Finley, Chainman.

Subscribed and sworn to before me this 25th
day of March, 1907



W. G. Power
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.

~~WE~~, J. Soto 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 ^{me} to the best of ^{my} skill and ability, ^{correcting} in the survey of exterior and subdivisional lines of Sp. 19 S. R. 22 E.

J. Soto, Moundman.
Moundman.

Subscribed and sworn to before me this 25th
day of March, 1907



W. G. Power
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.

~~WE~~, Jos. C. Merriman 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 ^{me} to the best of ^{my} skill and ability, ^{correcting} in the survey of exterior and subdivisional lines of Sp. 19 S. R. 22 E.

Jos. C. Merriman Axman.
Axman.

Subscribed and sworn to before me this 25th
day of March, 1907



W. G. Power
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.

I, John Brown, 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, ^{correcting} in the survey of exterior and subdivisional lines of Sp. 19 S. R. 22 E.

John Brown, Flagman.

Subscribed and sworn to before me this 25th
day of March, 1907



W. G. Power
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.

Corrections of the Survey of the Subdivisional Lines of
Tps. 19 S., R. 22 E.

Survey commenced April 3rd, 1907, and executed with a ~~Solar~~ Solar Compass No. 137. The horizontal limb has 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.

At Cor. of Secs. 1, 2, 35, and 36, Tps. 19 and 20 S., R. 22 E., which is a stone as described by the Surveyor General. At 7hrs 52 m, a.m., l.m.t., I set off 51° ~~on the latitude arc and 5° 13' N. on the declination arc, and determine a true meridian with the solar.~~
Thence I run N. 0° 1' W., on a true line, bet. secs. 35 and 36.

Over rolling land, and through dense undergrowth.
Dry wash, 52 lks. wide, course S. W.
Point of hill, trending to the S. W.
Descend.

17.00 Dry wash, 30 lks. wide, course S. W. and ascend.
29.00 Old road, brs. N. E. and S. W.
30.50 Descend.
40.00 Set a sandstone, 18 x 12 x 6 ins., 12 ins. in the ground for $\frac{1}{2}$ sec. cor. marked $\frac{1}{2}$ on the W. face; and raise a mound of stones, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of the cor. Pits impracticable.

41.65 This corner is on the S. W. slope of a low hill.
61.40 Dry wash, 35 lks. wide, course S. W. and ascend.
63.00 Old wagon road, brs. N. W. and S. E.
80.00 To point of hill, trending to the E. W.
Set a limestone 15 x 10 x 8 ins., 10 ins. in the ground for the cor. of secs. 25, 26, 35, and 36, marked with 1 notch on the S. and E. edges, and raise a mound of stones, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of the cor. Pits impracticable.

Land, mountainous, 80 chs.
Soil, sandy, 2nd and 3rd rate.
Undergrowth, catsclaw and greasewood.
Mountainous, or land covered with dense undergrowth, 80 chs.

Thence I proceed to cor. of secs. 2, 3, 34, and 35, Tps. 19 and 20 S., R. 22 E., which is a stone described by the Surveyor-General.
Thence I run
N. 0° 1' W. bet. secs. 34 and 35.
Over mountainous land, through dense undergrowth.
Descending.

9.00 Dry was, 50 lks. wide, course S. W. and ascend.
22.00 Point of spur trending to the S. W.
33.00 Top of main ascent of ridge, brs. N. E. and S. W.
Descend.

40.00 Set a sandstone 15 x 12 x 6 ins., 10 ins. in the ground for $\frac{1}{2}$ sec. cor. marked $\frac{1}{2}$ on the W. face, and raise a mound of stones, 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of the cor. Pits impracticable.

42.00 Dry wash, 30 lks. wide, course S. W. and ascend.
51.20 Top of low ridge, brs. E. and W. and descend.
62.60 Dry wash 20 lks. wide, course W. and ascend.
67.00 Top and descend.
80.00 Set a sandstone 15 x 10 x 8 ins., 10 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on the S. and 2 notches on the E. edges, and raise a mound of stones 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of the cor. Pits impracticable.

Land, mountainous and rocky.
Soil, sandy and rocky; 2nd rate.
No timber.
Undergrowth, catsclaw and greasewood.
Mountainous, or land covered with dense undergrowth, 80 chs.

see original notes page 3.

see original notes page 5.

see original notes page 6

Thence I run
 S. 89° 56' E. on a random line bet. secs. 26 and 35.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect N. and S. line at a point 9 lks. S. of the cor.
 of secs. 25, 26, 35 and 36 as described by the sur'v. Gen'l.
 Thence I run W. on a true line, bet. secs. 26 and 35.
 Over mountainous land, through dense undergrowth.
 25.07 Old road, course N. W. and S. W., thence descend over
 points of hills trending to the S. W.
 40.05 Set a granite stone, 14 x 12 x 6 ins., 9 $\frac{1}{2}$ ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on the N. face, and
 raise a mound of stones, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of
 the cor. Pits impracticable.
 44.00 Dry wash, 60 lks. wide, course S. W.
 82.00 Dry wash, 50 lks. wide, course S. W.
 73.00 Top of ridge, N. E. and S. W.
 80.10 The cor. of secs. 26, 27, 34 and 35.
 Land, low mountains.
 Soil, sandy and rocky, 2nd rate.
 No timber.
 Undergrowth, mesquite, greasewood and catsclaw.
 Mountainous, or land covered with dense undergrowth,
 80.10 chs.

April 3rd, 1907.

see original notes page 8

At cor. of secs. 26, 27, 34 and 35, 7:30 a.m., l.m.t.,
 April 4th, 1907, I set off 31° 44' on the latitude arc
 and 5° 25' N. on the decl. arc, and determine a true
 meridian with the Solar.
 Thence I run
 N. 89° 56' W. on a true line, bet. secs. 27 and 34.
 Over mountainous land, through dense undergrowth.
 Ascend.
 12.07 Top of ridge, brs. N. E. and S. W.
 Descend.
 29.80 Dry wash, 56 lks. wide, course S. W. and ascend.
 40.00 Set a sandstone 15 x 12 x 4 ins., 10 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on the N. face; and raise a
 mound of stones 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 65.70 Dry wash, 20 lks. wide, course S. W.
 Ascend.
 71.00 Top of ridge, brs. N. E. and S. W. and descend.
 80.00 Set a limestone 18 x 12 x 12 ins., 12 ins. in the ground,
 for the cor. of secs. 27, 28, 33 and 34, marked with
 1 notch on the S. and 3 notches on the E. edges; and
 raise a mound of stones, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
 of cor.
 Land, mountainous.
 Soil, sandy and rocky, 2nd to 4th rate.
 No timber.
 Undergrowth, mesquite, catsclaw and greasewood.
 Mountainous, or land covered with dense undergrowth, 80
 chs.

see original notes page 8

From the cor. of secs. 27, 28, 33 and 34, I run
 S. 0° 2' E., on a true line, bet. secs. 33 and 34.
 Over low mountain ridges, through dense undergrowth.
 Ascending.
 1.00 Top of ridge, brs. N. W. and S. E.
 11.80 Dry wash, 30 lks. wide, course N. W. and ascend.
 35.10 Top of ridge, brs. N. W. and S. E. and descend.
 40.00 Set a limestone 18 x 12 x 10 ins., 12 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on the W. face; and raise
 a mound of stones 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 59.45 To a point, 72 lks. E. of a stone marked N. E. Cor. B.D.
 which is the N. E. cor. of the Bullin Den Millsite.
 51.00 To a point 4.46 chs. E. of the J. L. McClellan's ranch-
 house.

67.00 Walnut Creek, 200 lks. wide, course W.
 68.00 Cross Railroad track, ~~course~~ N. W. & S. E.
 79.00 Old road, brs E. and W.
 80.00 Intersect S. bdy of Tp. at a point S. 89° E., 1 ch. from the cor. of secs. 33 and 34.
 Set a granite stone, 18 x 16 x 8 ins., 12 ins. in the ground for closing cor. to secs. 33 and 34, marked with 3 notches on the E and W. faces, and C C on the N. face, and raise a mound of stones 2 ft. base, 1 1/2 ft. high, N. of the cor.
 This cor. is 10 lks. E. of a C C to secs. 3 and 4. 80. 20 S., E. 22 E.
 Mountainous land.
 Soil, sandy and rocky, 3rd to 4th rate.
 No timber.
 Undergrowth, catsclaw, mesquite and greasewood.
 Mountainous, or land covered with dense undergrowth, 8000 chs.
 April 4th, 1907.

April 5th; At 7:30 a.m., l.m.t., I set off 31° 44' N on the lat. arc and 5° 49' N. on the decl. arc. and determine a true meridian with the Solar at the cor. of secs. 26, 27, 34, and 35.

Thence I run N. 0° 1' W. bet. secs. 26 and 27.
 Over mountainous land, covered with dense undergrowth.

5.50

16.40 Descend.
 Ravine, course S. W.

32.00

36.00 Ascend.
 Top of ridge, brs. N. E. and S. W. and descend.

40.00

Foot of descent and enter flat, brs. N. E. and S. W.
 Set a limestone, 15 x 10 x 8 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on the W. face, and raise a mound of stones 2 ft. base, 1 1/2 ft. high, W. of the cor.

42.00

Leave flat and ascend.
 Top of ridge, brs. N. E. and S. W., and descend.

66.50

80.00 Set a limestone, 14 x 10 x 8 ins., 9 1/2" in the ground marked with 2 notches on the E, and S. edges, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the cor. to secs. 23, 25, 26 & 27.

Land, mountainous.
 Soil, rocky and sandy; 3rd rate.
 No timber.

Mountainous, or land covered with dense undergrowth of catsclaw, mesquite or greasewood, 80 chs.
 Note; At 12 o'clock noon at this cor. I set off 31° 45' N. on the decl. arc, and observe the sun on the meridian. the resulting latitude is 31° 45' N.
 April 5th, 1907.

April 6th, 1907; At 7:15 a.m., l.m.t., I set off 31° 44' N on the lat. arc and 6° 11' N on the decl. arc and determine a true meridian with the Solar at the cor. of secs. 22, 23, 33, and 34

Thence I run N. 0° 2' W. bet. secs. 27 and 28.
 Over mountainous land, through dense undergrowth.

7.80

10.00 Commence descent over low mountain ridge.
 Foot of descent, dry wash 5 lks, wide, course W, and ascend.

14.00

Top of ridge, brs. N. E. and S. W.

19.50

Enter small valley, brs. N. E. and S. W.

40.00

Set a limestone, 15 x 14 x 6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stones 2 ft. base, 1 1/2 ft. high W. of the cor.

51.00

Old road, brs. N. E. and S. W.

62.00

Ascend.

80.00

Set a limestone, 15 x 12 x 7 ins., 10 ins. in the ground for the cor. of secs. 21, 22, 27 and 28, marked with 2

see original notes page 6

see original notes page 9

notches on the S. and 3 notches on the E. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high W. of the cor.

This cor. is near top of low ridge, brs. N. E. and S. W. Land, mountainous.

Soil, 1st to 4th rates sandy and rocky. No timber.

Undergrowth, mesquite, greasewood and palo verde with catsclaw.

Mountainous, or land covered with dense undergrowth, 80 chs.

April 6th, 1907.

see original notes Page 9.

~~-----~~
S. 89° 55' W. on a random line, bet. secs. 22 and 27. Descend over S. E. slope of ridge, through dense undergrowth.

40.00 Set temp. 1/2 sec. cor.

79.94 Intersect the N. and S. line at a point 8 lks. N. of the cor. of secs. 22, 23, 26 and 27.

Thence I run N. 89° 53' W., on a true line, bet. secs. 22 and 27.

Over mountainous land, through dense undergrowth, ascending.

19.90 Top of spur, trending N., thence descend.

39.97 Set a limestone, 15 x 10 x 8 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on the N. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of cor.

79.94 The cor. of secs. 21, 22, 27 and 28.

Land, mountainous.

Soil, rocky and sandy; 1st to 4th rate. No timber.

Undergrowth, catsclaw, mesquite, and greasewood.

Mountainous, or land covered with dense undergrowth, 79.94 chs.

April 6th, 1907.

April 6th, 1907;

April 7th, 1907; At 7h 20m a.m. l.m.t., I set off 31° on the lat. arc; and 84° 30' E. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 2, 3, 34 and 35, Tps. 19 and 20 S., R. 22 E., which is a stone described by the Surveyor-General.

Thence I run

N. 89° 28' W. bet. secs. 3 and 34.

Over rolling land, through dense undergrowth.

39.28 Old road, brs. N. W and S. E.

40.00 Set a stone 18 x 18 x 18 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 3 and 34, marked $\frac{1}{4}$ on N. face. Dig pits 18 x 18 x 12 ins. E. and W. 3 ft. dist. and raise a mound of earth 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.

40.75 To old $\frac{1}{4}$ sec. cor. which is a granite stone properly marked with pits and mound of earth. (This cor. is out of place.)

Thence I run

N. 89° 42' W. bet. secs. 3 and 34.

9.54 Wash, 15 lks. wide, course N.

10.18 Wash, 15 lks. wide, course N.

13.90 Road, brs. N. and S. to Tombstone.

14.55 Center of railroad track, brs. N. W. and S. E., Fairbanks to Tombstone.

17.60 Wash, 25 lks. wide, course N. and ascend.

24.75 Top of rocky ridge, brs. N. and S., and descend.

39.28 To closing cor. of secs. 33 and 34, Tp. 19 S., R. 22 E.

39.28 To closing cor. of secs. 33 and 34, Tp. 20 S., R. 22 E.

40.85 To cor. of secs. 33 and 34, the original corner as witnessed & described by the Surveyor General.

April 7th, 1907.

John M. Ingalls
U. S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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LIST OF NAMES.

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A list of the names of the individuals employed by John M. Ingalls

....., 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 ^{corrections of the} exterior

and subdivisonal lines of Sp. 19 S. R. 22 E.

showing the respective capacities in which they acted:

Geo. G. Ehrenborg , Chairman.

Jim Finley , Chairman.

J. Soto , Moundman.

Thos. C. Merriman , ~~Moundman~~ Asman.

John Brown , ~~Asman~~ Flagman.

..... , Asman.

..... , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John M. Ingalls

....., United States Deputy Surveyor, in ~~surveying~~ ^{correcting}

~~these parts or~~ portions of the survey of exterior and subdivisonal lines of Sp. 19 S. R. 22 E.

..... of the Gila X

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

Geo. G. Ehrenborg , Chairman.

Jim Finley , Chairman.

J. Soto , Moundman.

..... , Moundman.

Thos. C. Merriman , Asman.

..... , Asman.

John Brown , Flagman.

Subscribed and sworn to before me this 10th day of April, 1907

W. G. Power

Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.



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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John M. Ingalls, 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 4th day of May, 1905, 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 these parts or~~ ^{corrected} portions of the survey of the exterior and subdivisional lines of T. 19 S. R. 22 E.

of the Gila & 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.

John M. Ingalls
United States Deputy Surveyor.

Subscribed by said John M. Ingalls, and sworn to before me }
this 26th day of April, 1907

W. H. ...
Commissioner



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, Sept 5th, 1907
The foregoing field notes of the ~~survey of~~ ^{correction of} the survey of subdivisional lines of T. 19 S. R. 22 E. of the Gila and Salt River Base and Meridian, in the Territory of Arizona, and a portion of the South bdy. of T. 19 S. R. 22 E.

executed by John M. Ingalls under his contract No. 130 dated May 4th, 1905, 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 Arizona, has been correctly copied from the original notes on file in this office.

United States Surveyor General.