

-1823-

FIELD NOTES

Of the Resurvey of the West Boundary
and OF THE SURVEY OF THE

subdivisions of Tp. 23 S. R. 28 E.

1823

-1823-

1823

Of the Gila & Salt River Base & Meridian,

AS SURVEYED BY

John A. Rockfellow, United States Deputy Surveyor,

Under his Contract No. 112, dated Feb. 24, 1904., 189

Survey commenced April 28, 1904., 189

Survey completed May, 15, 1904., 189

NAMES AND DUTIES OF ASSISTANTS.

E. L. Robinson & W. C. McKay
Chairmen

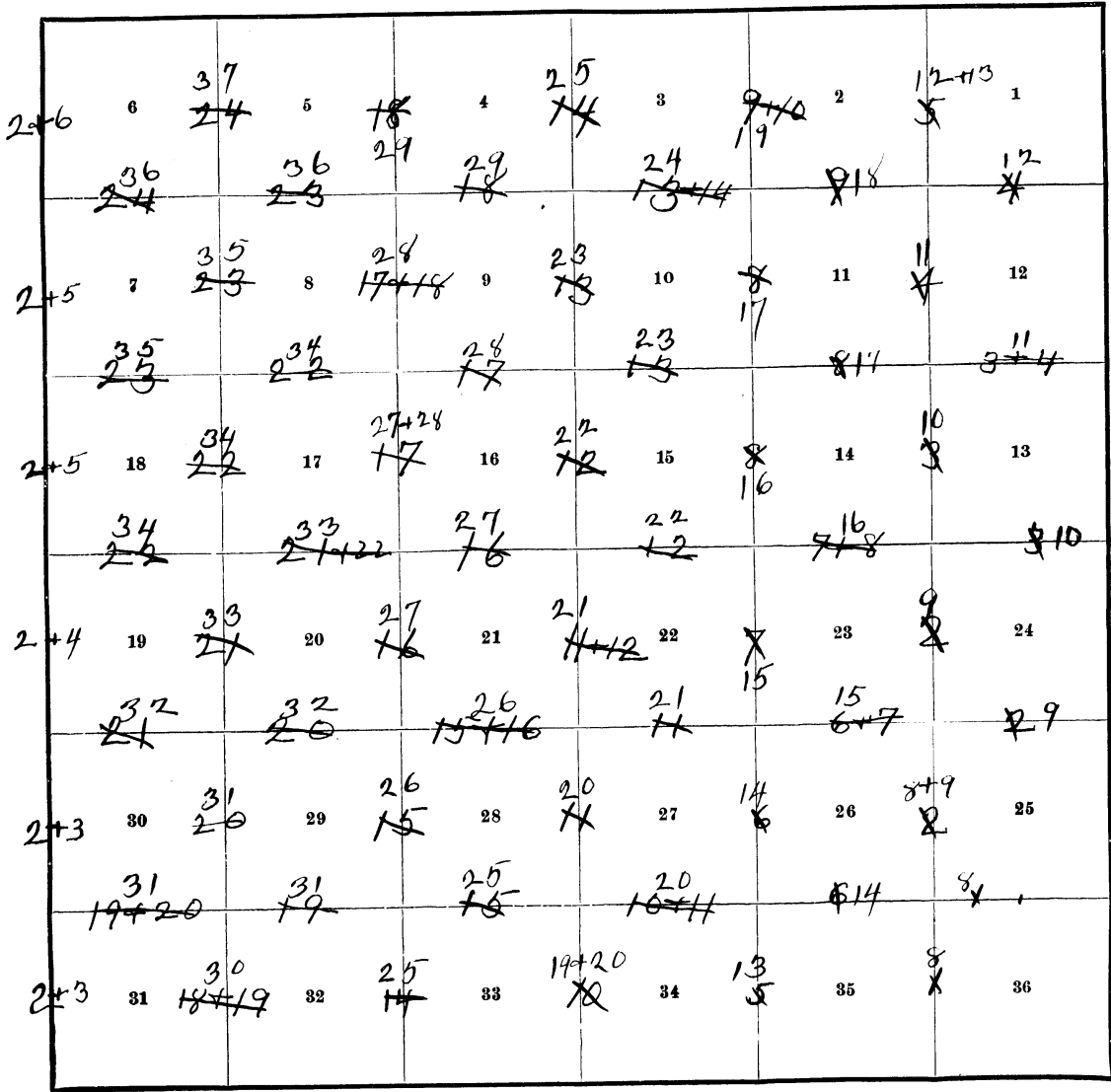
C. E. Buchner
Mordman Taxman

P. H. Axtell
Flagman

BOOK 1823

INDEX DIAGRAM.

Township 23 S, Range 28 E



Meanders Page.....

83 1c
BOOK 1823

PRELIMINARY OATHS OF ASSISTANTS.

WE, E. L. Robinson and W. C. McKay

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

the subdivisions of Tp 23 S. R 28 E

E. L. Robinson, Chainman.
W. C. McKay, Chainman.

Subscribed and sworn to before me this 28th day of April, 1891904



John A. Rockefeller
Notary Public

MY COMMISSION EXPIRES MARCH 14, 1907.

~~WE, C. E. Buchner and~~

do solemnly swear that ~~we~~ will well and truly perform the duties of moundman ^{and axeman} in the establishment of corners, according to the instructions given ~~us~~ to the best of ~~our~~ skill and ability, in the survey of

the subdivisions of Tp 23 S R 28 E

C. E. Buchner, Moundman. ^T
axeman, Moundman.

Subscribed and sworn to before me this 28th day of April, 1891904



John A. Rockefeller
Notary Public

MY COMMISSION EXPIRES MARCH 14, 1907.

WE, _____ and _____

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

_____, Axman.
_____, Axman.

Subscribed and sworn to before me this _____ day of _____, 189 _____



I, R. H. Atell, 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 subdivisions of Tp 23 S R 28 E

R. H. Atell, Flagman.

Subscribed and sworn to before me this 28 day of April, 1891904



John A. Rockefeller
Notary Public

MY COMMISSION EXPIRES MARCH 14, 1907.

1. D

Survey commenced April 28, 1904, and executed with a Young & Sons' Mountain transit (No. 6855), with Smith solar attachment. The horizontal limb is provided with two verniers, placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the lat. and dec. arcs. The instrument was tested and found correct on the true meridian, at Tombstone, on April 26th, 1904.

At camp near S. W. cor. Sec. 32, April 29, 1904, I observe Polaris at 9;21 P. M., l. m. t., and mark the direction thus determined by a tack driven in a stake firmly set 5 chains north Astron. l. m. t. of obs. April 29 9 21

U. C. Polaris	April 15	23,	46
		h.	m.
Red. to April 28			51
U. C. Polaris	April 28	22	53
		h.	m.
		23	56.1
Time U.C. to be-		22	55
gin. Apr. 29		1	01.1
Time of obs.		9; 21	
Time elapsed			
since U. C.		10-	22

Az. of Polaris at obs. 0 34'

At 7 A. M. April 30 lay off 0 34' E. at north end of line obtained for true meridian. With lat. arc at 31 23' and dec. arc at 14 46' determine meridian with solar, and said meridian coincides with that obtained by Polaris observation, within less than 30". On May 1st, when in camp, allow instrument to remain on said meridian from 9;30 A.M. until 2;30 P. M. At 10 A. M. with lat. arc at 31 23' N. and dec. arc at 15 06' N., determine meridian, which coincides with that already obtained. At apparent noon, with dec. arc at 15 08' observe for latitude and obtain lat. used, viz: N. 31 23'. At 2 P. M., with lat. arc same, and dec. arc at 15 09' determine meridian which agrees with A. M. observation.

RESURVEY OF WEST BOUNDARY.

- 71
 May 6, 1904. At 8 A.M., L.M.T. I set off $31^{\circ} 23'$ on lat. arc and $16^{\circ} 33'$ on decl. arc and determine the meridian at the cor. Tps. 23 & 24 S, Rn. 27 & 28 E, as described by Surveyor General, I run N. No sign of $\frac{1}{2}$ sec cor.
- 39.57 Cor. sec. 36 & 25, as described by Surveyor General, 44 lks. W. Hence course of E boundary sec. 36 is $N 0^{\circ} 19' W$.
 From cor. sec. 36 & 25 run N. Stake for $\frac{1}{2}$ cor. down and in a bush, evidently not in place.
- 39.30 Cor. sec. 24 & 25, as described by Surveyor General, 39 lks. W. Hence course of E bdy. of sec. 25 is $N 0^{\circ} 17' W$.
 From cor. sec. 24 & 25, run N.
- 40.30 $\frac{1}{2}$ sec. cor. sec. 24, 5.5 lks. W. Hence course of E bdy. of S.E. $\frac{1}{2}$ sec. 24 is $N 0^{\circ} 05' W$.
 Thence N from $\frac{1}{2}$ sec. cor.
- 40.19 Cor. sec. 13 & 24, as described by Surveyor General, 22 lks. E. Hence course of E bdy. of N.E. $\frac{1}{2}$ sec. 24, $N 0^{\circ} 19' E$.
 From cor. sec. 24 & 13, run N.
- 40.20 $\frac{1}{2}$ sec. cor. sec. 13, as described by Surveyor General, 18 lks. E. Hence course of E bdy. of S.E. $\frac{1}{2}$ sec. 13, $N 0^{\circ} 15' E$.
 Thence N from $\frac{1}{2}$ sec. Cor.
- 40.32 Cor. sec. 12 & 13, as described by Surveyor General, 21 lks. E. Hence course of E bdy. N.E. $\frac{1}{2}$ sec. 12 $N 0^{\circ} 18' E$.
 From cor. sec. 13 & 12, run N.
 Stake for $\frac{1}{2}$ cor. much rotted, lying on ground against a bush, no signs of pits or mounds: evidently not in place.
- 39.58 Cor. sec. 1 & 12, as described by Surveyor General, 25.5 lks. E. Hence course of E bdy. sec. 12, $N 0^{\circ} 41' E$.
 From cor. sec. 12 & 1, run N.
- 40.34 $\frac{1}{2}$ sec. cor. sec. 1, as described by Surveyor General, 26 lks. E. Hence course of E bdy. of S.E. $\frac{1}{2}$ sec. 1, $N 0^{\circ} 22' E$.
 May 6, 1904, at this point I set off $16^{\circ} 35'$ on the decl arc and at 12 M apparant noon observe the sun at meridian; the resulting lat. is $31^{\circ} 38'$ which is within 1' of the proper lat.

40.25 N.E. cor. Tp. 25 S. R 27 E, as described by Surveyor General, 25 lks. E. Hence course of E bdy. of N.E. $\frac{1}{4}$ of sec. 1, N $0^{\circ} 20' E$.

As all corn. are out of limits, I rerun said boundary, changing the corners to corners common to two sections, and establishing new corners and $\frac{1}{4}$ section corners on same line common to two sections only, as follows:

From the cor. Tps. 23 & 24 S, Rs 27 & 28 E, N $0^{\circ} 19' W$, Va. $18^{\circ} 40' E$.

3.00 2.50 chs. East, house of Chas. E Brown:

40.00 Set a porphyry rock 16x12x10 ins., 11 ins. in ground for $\frac{1}{4}$ sec. cor. for sec. 31, marked " $\frac{1}{4}$ " on W and "31" on E face dig pits 18x18x12 ins. on line 3 ft. N & S and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W of cor.

40.28 $\frac{1}{2}$ set a porphyry rock 16x9x5 ins. 11 ins. in ground for $\frac{1}{4}$ sec. cor. of sec. 36, marked " $\frac{1}{4}$ " and "36" on W face, dig pits 18x18x12 ins. on line N. & S, 3 ft. distant and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W of cor.

65.90 House of ^{Wm Barr} Chas. Hammond bears about 3 chs East.

80.00 Set a porphyry rock 16x14x14 ins. 11 ins. in ground for cor. of secs. 30 & 31, marked with one notch on south and five notches on north edges and "30" on N.E. and "31" on S.E. faces: dig pits 24x24x12 ins. in each sec. 6 ft. distant and raise a mound of earth 4 ft. base, 2 ft. high W of cor.

Land level and rolling ; soil 2nd. rate; scattering brush
N $0^{\circ} 19' W$ along E bdy. of sec. 30.

0.57 Cor. secs. 25 & 36 a stone firmly set marked with one notch on S and 5 notches on N edges; old pits not visible: dig pits 24x24x12 ins. in each sec, 6 ft. distant and raise a mound of earth 4 ft. base 2 ft. high W of cor.

4

Thence N 0° 17' W

39.45 Set a porphyry rock 20x14x12 ins. 15 ins. in ground for 1/2 sec. cor. of sec. 30, marked "1/2" on W and "30" on E faces. Dig pits 18x18x12 ins. on line N & S 3 ft. distant and raise ⁷⁰ground of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.

40.15 Set a porphyry rock 14x14x10 ins. 10 ins. in ground for 1/2 sec. cor. of sec. 25, marked "1/2" and "25" on W face; dig pits 18x18x12 ins. on line N & S 3 ft. ^{dist} and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.

79.43 Set a porphyry rock 16x14x8 ins. 11 ins. in ground for cor. secs. 19 & 30, marked with two notches on S and 4 notches on N edges and "19" on N.E. and "30" on S.E. faces. Dig pits 24x24x12 ins. in each sec 6 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high W of cor.

Land level and rolling: soil 3 rd. rate and 2 nd.: underbrush; scant grass.

N 0° 17' W along W bdy. sec. 19.

0.87 Cor. secs. 24 & 25, a post firmly set and properly marked for cor. of four sections, destroy marks pertaining to sec 19 & 30: old pits not visible. Dig pits 24x24x12 ins. in each sec. 6 ft. distant and raise a mound of earth 4 ft. base, 2 ft. high W of cor.

Thence N 0° 05' W

39.13 Set a porphyry rock 14x12x12 ins. 10 ins. in ground for 1/2 sec. cor. of sec. 19, marked "1/2" on W and "19" on E faces. Dig pits 18x18x12 ins. N & S on line 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.

40.30 1/2 sec. cor. of sec. 24, a rock firmly set, marked "1/2" on W face; old pits not visible; dig pits 18x18x12 ins. on line N & S 3 ft. distant and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.

Thence N 0°19'E

38.83 Set a porphyry rock 17x10x6 ins. 12 ins. inground for cor. secs. 18^{and}19, marked with 3 notches on N & S edges, *18° on N.E. face and *19° on S.E. face; dig pits 24x24x12 ins. in each sec. 6 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high W of cor.

Land level; soil 2 nd. rate; patches of underbrush, some coarse grass.

N 0°19'E along W bdy. of sec. 18.

1.36 Cor. secs. 13 & 24, a rock firmly set, marked with 3 notches on N & S edges; old pits not visible; dig pits 24x24x12 ins. in each sec. 6 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high W of cor.

Thence N 0°15'E.

38.64 Set a limestone rock 13x10x10 ins. 10 ins. in ground for $\frac{1}{2}$ sec. cor. of sec. 18, marked * $\frac{1}{2}$ ° on W and 18° on E faces; dig pits 18x18x12 ins. on line N & S 3 ft. distant, and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W of cor.

40.29 $\frac{1}{2}$ sec. cor. of sec. 13, a rock firmly set, marked * $\frac{1}{2}$ ° on W *face* old pits not visible; dig pits 18x18x12 ins. on line N & S 3 ft. distant and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W of cor.

Thence N 0°18'E.

38.35 Set porphyry rock 15x10x7 ins., 10 ins. in ground for cor. secs. 7 & 18, marked with 4 notches on S and 2 notches on N edges, *7° on N.E. and *18° on S.E. faces. Dig pits 24x24x12 ins. in each sec. 6 ft. distant and raise a mound of earth 4 ft. base, 2 ft. high W of cor.

Land level and open, soil 2 nd. rate, much coarse grass.

N 0°18'E along W bdy. of sec. 7.

1.97 Cor. of sec. 12 & 13, a rock firmly set marked with 4 notches on S and 2 notches on N edges; old pits not visible; dig

6

pits 24x24x12 ins. in each sec. 6 ft. distant and raise a mound of earth 4 ft. base 2 ft. high W of cor.

Thence N 0° 41' E

38.03 1/2 Set a porphyry rock 16x12x12 ins. 11 ins. in ground for 1/2 sec. cor. of sec. 7, marked "1/2" on W and "7" on E faces; dig pits 18x18x12 ins. on line N & S, 3 ft. ^{dist.} and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.

40.29 1/2 Set a porphyry rock 14x9x5 ins. 10 ins. in ground for 1/2 sec. cor. of sec. 12 marked "1/2" and "12" on W face; dig pits 18x18x12 ins. N & S on line 3 ft. distant and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.

78.04 Set a porphyry rock ^{14x10x6} 14x10x6 ins. 10 ins. in ground for cor. secs. 6 & 7, marked with 5 notches on S and one notch on N edges, "6" on N.E. and "7" on S.E. faces; dig pits 24x24x12 ins. in each sec. 6 ft. distant and raise mound of earth 4 ft. base, 2 ft high W of cor.

Land level; soil 2 ^{rate}nd; much coarse grass.

N 0° ^{41'} E along W bdy. of sec 6.

2.55 Cor. secs. 1 & 12: va 12° 15' E: a rock firmly set, marked with 5 notches on S and one notch on N edges; old pits not visible; dig pits 24x24x12 ins. in each sec. 6 ft. distant and raise a mound of earth 4 ft. base 2 ft. high W of cor.

Thence N 0° 22' E

37.45 Set a porphyry rock 16x8x6 ins. ^{11 ins} in ground for 1/2 sec. cor. of sec. 6, marked with "1/2" on W and "6" on E faces; dig pits 18x18x12 ins. on line N & S 3 ft. from cor and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.

40.34 1/2 sec. cor. of sec 1, a rock set firmly in the ground, marked "1/2" on W face; old pits not visible; dig pits 18x18x12 ins. on line N & S 3 ft. distant, and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W of cor.

Thence N 0 20' E

Thence N 0° 20' E

34.54 Cor. Tps. 22 & 23 S, R 28 E Va. 12° 35' E; set by me, heretofore described.

40.23 Cor. Tps. 22 & 23 S, R 27 E, a rock firmly set, marked with six notches on each edge, N, S, E, & W; old pits not visible; destroy notches on E edge; dig pits 30x24x13 ins. on line 4 ft. N & S and 3 ft. W of cor. and raise a mound of earth 5 ft. base, 2 1/2 ft. high W of cor.

Land level ; soil 2nd. rate; little brush; scant grass.

8.

SUBDIVISIONS.

May 7, 1904.

I set up instrument on the cor. of secs. 1, 2, 35 & 36, which is a stone, firmly set and marked and witnessed as described by the Surveyor General, on S. bdy. at 7:30 A. M. With lat. arc at 31° 23' N., and dec. arc at 16° 49' I determine a meridian with solar.

Thence I run 0° 01' W. between secs. 35 & 36 over level ground covered by dense undergrowth. Va. 12° 45' E.

Chains
40.00

Set a porphyry rock 16 X 10 X 5 ins., 11 ins. in ground for 1/4 cor., marked 1/4 on W. Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor.; pits impracticable.

80.00

Set porphyry rock 16 X 8 X 5 ins., 11 ins. in the ground for cor. of secs. 25, 26, 35 & 36, marked with 1 notch on S, and 1 on E. edges. Raise a mound of stone 3 1/2 ft. base, 2 1/2 high, W. of cor.; pits impracticable.

Land level and rolling; soil 2nd and 3rd rate; scant grass, much brush, no timber.

East between secs. 25 & 36.

8.00

Ascend mountain.

40.00

Ascent very steep and rocky. No agricultural or grazing land beyond. Unsurveyable by ordinary chaining. Discontinue line. Set a granite rock 14 X 12 X 6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on north side. Raise a mound of stone 4 ft. base, 2 1/2 ft. high N. of corner; pits impracticable. Mountainous land 38 chs.

From cor. secs. 25, 26, 35 & 36 run N. 0° 01' W. between secs. 25 & 26.

40.00

Set a porphyry rock 16 X 12 X 8 ins., 11 ins. in the ground

for 1/4 sec. cor. marked 1/4 on W., and raise a mound of stone 4 ft. base, 3 ft. high W. of cor.; pits impracticable.

80.00 Set a quartzite rock 18 X 8 X 8 ins., 12 ins. in the ground for cor. secs. 23, 24, 25 & 26, marked with 2 notches on S. and 1 notch on E. edges. Raise a mound of stone 3 ft. base, 3 ft. high W. of cor.; pits impracticable.

Land rolling; soil 2nd rate; scant grass; dense undergrowth of thorny bushes.

May 7, 1904. At this corner I set off $16^{\circ} 51 \frac{1}{2}'$ on the dec. arc, and at 12 M. apparent noon observe the sun on the meridian; the resulting lat. is $31^{\circ} 25'$, which is the proper lat.

East on a random between secs. 24 & 25.

40.00 Set temporary stake.

80.08 Intersect E. boundary of Tp. 35 lks. N. of cor. of secs. 19, 24, 25 & 30. Thence I run N. $89^{\circ} 45'$ W. on true line between secs. 24 & 25. Land mountainous.

40.03 Set a quartzite rock 14 X 10 X 7 ins., 10 ins. in ground for 1/4 sec. cor., marked 1/4 on N. Raise a mound of stone 3 ft. base, 3 ft. high N. of corner; pits impracticable.

65.00 Leave mountains for rolling hills.

80.06 The cor. secs. 23, 24, 25 & 26. Land mountainous 65 chs. Wash brush; soil 2nd and 3rd rate.

N. $0^{\circ} 01'$ W. between secs. 23 & 24.

22.70 Wash in gulch 50 lks. wide, course W.

40.00 Set a porphyry rock 14 X 8 X 8 ins., 10 ins. in ground for 1/4 sec. cor., marked 1/4 on W. Raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.; pits impracticable.

45.40 Ascend end of point of mountain.

80.00 Set quartzite rock 15 X 7 X 6 ins., 10 ins. in ground for cor. secs. 13, 14, 23 & 24, marked with 3 notches on S.,

and 1 notch on E. edges. Raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.; pits impracticable. Land rolling and mountainous; mountainous land 34.60 chs.; soil 2nd and 3rd rate; much brush, mesquite, greasewood and echetilla; scant grass.

S. 89° 45' E. on a random line between secs. 15 & 24.

Ascend mountain.

40.00 Set ^{temporary} porphyry stake.

80.09 Intersect E. bdy. 7 lks. S. of cor. secs. 13, 18, 19 & 24.

Thence I run N. 89° 48' 1/2" on true line between secs. 15 & 24, mountainous, across hollow and up ridges, which bears N.E. & S. W.

40.045 Set quartzite rock 18 X 16 X 14 ins., one-half in ground to bed rock, for 1/4 sec. cor., marked with 1/4 on N. face. Raise a mound of stone 4 ft. base, 3 ft. high N. of cor. Pits impracticable.

41.50 Summit of ridge bears N. N. E. & S. S. W.

80.09 Cor. of secs. 13, 14, 23 & 24. Land mountainous 80.09 chains; soil 3rd rate; some grass; scattering brush and cactus growth; no timber.

May 7th.

May 9th.

At 8 A. M., 1. M. t., I set off on the lat. arc 31° 25' 1/2" and on the dec. arc 17° 21' 1/2" N., and determine meridian with solar, at the cor. of secs. 13, 14, 23 & 24; thence I run N. 0° 01' W. between secs. 13 & 14, mountainous land.

9.00 Leave mountains, enter flat.

17.80 Center of gulch 90 lks. wide, course S. W.

40.00 Set quartzite rock 16 X 8 X 6 ins., 11 ins. in ground for 1/4 sec. cor., marked 1/4 on W., and dig pits 18 X

H.

18 X 12 ins., N. & S., 3 ft., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor. NOTE. North pit is but 10 ins. to bed rock.

69.70 Ascend slope of a mountainous ridge which bears E. & W.

80.00 On slight depression set a limestone 18 X 8 X 6 ins., 12 ins. in ground, for cor. of secs. 11, 12, 13 & 14, marked with 4 notches on S. and 1 notch on E. edges. Raise a mound of stone 4 ft. base, 3 ft. high W. of cor.; pits impracticable.

Land level and broken, and mountainous; mountainous land 19.50 chains; soil 2nd and 3rd rate; considerable brush; scant grass.

S. 89° 48' E. on a random line between secs 12 & 13; ascend steep mountain side.

40.00 Set temporary stake

80.12 Intersect E. bdy. of Tp. 7 lke. S. of cor. of secs. 7, 12, 13 & 18.

Thence I run N. 89° 51' W. on true line between secs. 12 & 13, across rough ridges,

31.00 summit of divide and of mountain bears N. N. E. & S. S. W.

40.00 Set a limestone 16 X 12 X 6 ins., 11 ins. in ground for 1/4 sec. cor., marked 1/4 on N. side; raise a mound of stone 3 ft. base, 2 ft. high N. of cor.; pits impracticable

80.12 The cor. of secs. 11, 12, 13 & 14. Land mountainous 80.00 chains; soil 3rd rate; scattering brush; some grass; no timber.

N. 0° 01' W. between secs. 11 & 12 over mountainous land;

40.00 set a limestone 16 X 8 X 6 ins., 11 ins. in ground for 1/4 sec. cor., marked 1/4 on W.. Raise a mound of stone 3 ft. base, 2 ft. high W. of cor.; pits impracticable.

12

- 30.00 set a quartzite rock 16 X 14 X 14 ins., one-half in ground to bed rock for cor. sees 1, 2, 11 & 12, marked with 5 notches on S., and 1 notch on E. edges. Raise a mound of stone 4 ft. base, 3 ft. high W. of cor.; pits impracticable. Land mountainous 80 chains; soil 3rd rate; scattering brush; scant grass. Va. $12^{\circ} 40'$ E. Thence land slopes northerly and westerly toward large draw.
- May 9, 1904. At this cor. I set off $17^{\circ} 24'$ on the des. arc, and at 12 M., apparent noon, observe the sun on the meridian; the resulting lat. is $31^{\circ} 27'$, which is within 1' of the proper lat.
- S. $89^{\circ} 51'$ E. on a random line between sees. 1 & 12, ascend slope of mountain;
- 40.00 set temporary stake;
- 30.09 Intersect E. bdy. of Tp. 6 lks. S. of cor. of sees. 1, 6, 7 & 12. Thence I run N. $89^{\circ} 54'$ W. on true line between sees. 1 & 12, mountainous land:
- 27.00 summit of ridge bears S. & N.
- 31.50 wash in canyon 8 lks. wide, course N.
- 40.045 set a quartzite rock 16 X 14 X 10 ins., 11 ins. in ground for 1/4 sec. cor., marked 1/4 on N. Raise a mound of stone $3 \frac{1}{2}$ ft. base, $2 \frac{1}{2}$ ft. high, N. of cor.; pits impracticable.
- 41.40 summit of high ridge, northerly spur of main divide, bears S. & N.
- 80.00 The cor. of sees. 1, 2, 11 & 12.
- Land mountainous 80 chains; soil 3rd rate; scattering brush, no timber; fair grass.
-
- N. $0^{\circ} 01'$ W. on a random between sees. 1 & 2.
- 40.00 set temporary stake:
- 77.72 Intersect N. bdy. of Tp. at cor. of sees. 1 & 2. Thence I run S. $0^{\circ} 01'$ E. on true line between sees. 1 & 2, descend slope.
- 0.00 Road, College Peak and Douglas bears N.E. & S.W.
- 35.45 House (frame, two-story) of Alonzo McDonald bears west

- 90 lks.
- 37.72 Set a limestone 20 X 10 X 8 ins., 15 ins. in ground for 1/4 sec. cor., marked 1/4 on W.; dig pits 18 X 18 X 12 ins. N. & S., 3 ft., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 52.95 Center of El Paso & S. W. R. R. on curve N. E. & S. W., in draw.
- 55.05 Telegraph line;
- 77.00 Land becomes mountainous;
- 77.72 The cor. secs. 1, 2, 11 & 12;
Land hilly, level and mountainous; soil 1st and 2nd, and 3rd rate; scattering brush; no timber; scant grass; mountainous land .72 ahs.

May 9th.

May 10th, at 8 A. M., with the lat. arc at 31° 25' and the dec. arc at 17° 37 1/2' N., I determine the meridian,

At the cor. of secs. 2, 3, 34 & 35 on S. bdy. of Tp, which is a stone firmly set, marked and witnessed as described by the Surveyor General, I run N. 0° 01' W. between secs. 34 & 35. Va. 15° 30' E.

Dense undergrowth of thorny brush and greasewood;

- 40.00 Set porphyry rock 14 X 10 X 10 ins., 15 ins. in the ground for 1/4 sec. cor., marked 1/4 on W.; dig pits 18 X 18 X 12 ins., 3 ft. N. & S., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 62.90 Center of a draw 60 lks. wide, bears E. & W.
- 80.00 Set a limestone 16 X 10 X 10 ins., 11 ins. in ground for cor. of secs. 26, 27, 34 & 35, marked with 1 notch on S. and 2 notches on the E. edges; dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land rolling, covered with dense undergrowth 80 obs.; soil 2nd rate; scant grass.

East on a random line between secs. 26 & 35

40.00 Set temporary stake.

79.93 Intersect N. & S. line 2 lks. N. of cor. of secs. 25, 26, 35 & 36.

Thence I run N. 89° 59' W. on true line between secs. 26 & 35

39.965 Set a porphyry rock 14 X 10 X 8 ins., 10 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins. on line E. & W., 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of corner.

54.95 Center of draw 45 lks. wide, course S. W.

79.93 The cor. of secs. 26, 27, 34 & 35. Land rolling; much brush; scant grass; soil 2nd and 3rd rate.

N. 0° 01' W. between secs. 26 & 27.

40.00 Set a porphyry rock 18 X 10 X 6 ins. ^{12 ins} in ground, for 1/4 sec. cor., marked 1/4 on W. face; dig pits 18 X 18 X 12 ins. on line N. & S., 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of corner.

65.15 Road bears N. E. & S. W.

69.70 Wash 100 lks. wide; course S. W.

80.00 Set a porphyry rock 16 X 8 X 7 ins., 11 ins. in ground for cor. of secs. 22, 23, 26 & 27, marked with 2 notches on S. and 2 notches on E. edges. Raise a mound of stone 3 1/2 ft. base, 3 ft. high, W. of cor.; pits impracticable. Va. 15° 00' E. Land rolling; much brush; soil 2nd and 3rd rate.

May 10, 1904. At this cor. I set off 17° 40' on the dec. arc, and at 12 M., apparent time noon, observe the sun on the meridian; the resulting lat. is 31° 25' which is the proper lat.

S. 89° 59' E. on a random line between secs. 23 & 26

40.00 Set temporary stake:

79.93 Intersect N. & S. line 17 lks. S. of corner of secs. 23, 24, 25 & 26

Thence I run S. 89° 54' W. on a true line between secs. 23 & 26, over rolling ground, covered with scattering undergrowth.

4.20 Enter gulch 80 lks. wide, course W. S. W.

8.75 Leave gulch, course W. S. W.

37.80 Gulch 45 lks. wide, course S. W.

38.00 Enter dense undergrowth.

39.965 Set a limestone 17 X 12 X 4 ins., 12 ins. in ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3 1/2 ft. base, 3 ft. high, N. of corner; pits impracticable.

48.85 Road bears N. E. & S. W.

79.93 The cor. of secs. 22, 23, 26 & 27; land rolling; dense undergrowth 48 chs.; soil 2nd and 3rd rate; scant grass. Undergrowth consists of mesquite, catsclaw, greasewood brush and cactus.

N. 0° 01' W. between secs. 22 & 23, dense undergrowth,

15.00 Leave dense undergrowth for scattering brush,

21.00 Point in low saddle between two low, volcanic hills, N.E. about 20 chs, and S. W. about 15 chs. Va. 13° 45' E.

39.40 Enter narrow, grassy draw, course S. W.

40.00 Set a granite rock 14 X 10 X 6 ins., 10 ins. in ground for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 X 18 X 12 ins. on line N. & S., 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

40.90 Leave draw.

75.00 Enter dense undergrowth.

89.00 Set a quartzite rock 18 X 12 X 8 ins. 12 ins. in ground for cor. secs. 14, 15, 22 & 23, marked with 3 notches on

16.

N., and 2 notches on E. edges. Dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. distant, and raise a mound of earth 5 ft. base. 2 ft. high, W. of cor. Va. 12° 40' E. Land rolling and hilly; soil 3rd and 3rd rate; dense undergrowth mesquite, catsclaw and greasewood, 19 chs.

N. 89° 54' E. on a random line between secs. 14 & 23

40.00 Set a temporary stake

79.94 Intersect N. & S. line 4 lks S. of corner of secs. 13, 14, 23 & 24.

Thence I run S. 89° 58' W. on true line between secs. 14 & 23. Descend mountain.

12.00 Leave mountainous for hilly land.

25.45 Enter draw; course W.; dense brush.

39.97 Set a quartzite rock 18 X 10 X 6 ins., 12 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins. on line E. & W., 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of corner.

40.30 Leave draw, course W. S. W.

79.94 The cor. of secs. 14, 15, 22 & 23; land mountainous 12 chs., then hilly and rolling; dense undergrowth 54.50 chs.; soil 3rd and 2nd rate; scant grass. $\frac{12}{66.50}$

N. 0° 01' W. between secs. 14 & 15, through dense undergrowth.

20.00 Leave dense undergrowth for scattering brush.

40.00 Set a porphyry rock 17 X 14 X 14, ins., 12 ins. in ground for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 X 18 X 12 ins. on line N. & S., 3 ft. distant, and raise a mound of earth 3 1/2 ft. base. 1 1/2 ft. high W. of corner.

80.00 Set a limestone 16 X 14 X 12 ins., 11 ins. in ground for cor. secs. 10, 11, 14, & 25, marked with 4 notches on S.

17.

and 2 notches on E. edges. Dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Va. 12' 40' E. Dense undergrowth 20 chs.; land rolling; soil 3rd and 2nd rate; scant grass.

May 10.

May 11.

At 8 A. M., with the lat. arc at $31^{\circ} 26' 1/2''$ and the dec. arc at $17^{\circ} 53' N.$, I determine the meridian (which coincides with that already obtained) at the cor. of secs. 10, 11, 14 & 15, thence I run N. $89^{\circ} 52' E.$ on a random line between secs. 11 & 14.

40.00 Set temporary stake

79.96 Intersect N. & S. line 8 lks. S. of cor. of secs. 11, 12, 13 & 14. Thence I run S. $89^{\circ} 49' W.$ on true line between secs. 11, & 14; mountainous land.

34.50 Leave mountainous land.

39.93 Set limestone 16 X 10 X 10 ins., 11 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face. Raise a mound of stone 2 1/2 ft. base, 2 ft. high N. of cor.; pits impracticable.

79.96 The cor. of secs. 10, 11, 14 & 15; land mountainous 34.50 chs., thence rolling; much brush; soil 2nd and 3rd rate.

N. $0^{\circ} 01' W.$ between secs. 10 & 11, through dense undergrowth.

40.00 Set a limestone 15 X 7 X 6 ins., 10 ins. in ground for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 X 18 X 12 ins. on line N. & S., 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

61.20 Limestone reef bears E. N. E. & W. S. W.

- Leave dense brush for scattering brush.
- 76.28 Line of survey stakes bears E. & W., for new spur under course of construction.
- 77.10 Road bears N. E. & S. W.
- 80.00 Set a limestone 17 X 12 X 6 ins., 12 ins. in ground, for cor. secs. 2, 3, 10 & 11, marked with 5 notches on S., and 2 notches on E. edges. Dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. distant, and raise a mound of stone and earth 4 ft. base, 2 1/2 ft. high, W. of cor. Land covered with dense undergrowth 61.20 chains; soil 2nd and 3rd rate.
-
- N. 89° 49' E. on a random line between secs. 2 & 11.
- 40.00 Set temporary stake
- 79.85 Intersect N. & S. line 4 1/2 lks. N. of cor. of secs. 1, 2, 11 & 12. Thence I run S. 89° 51' W. on true line between secs. 2 & 11
- 39.925 Set a limestone 18 X 8 X 6 ins., 12 ins. in ground, for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins. on line E. & W., 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor. Whence limestone quarries bear S. S. W. about 15 chs.
- 51.00 Ground being broken by graders for R. R. spur, which bears N. N. W. & S. S. E.
- 55.00 Ascend N. slope of a limestone mountain.
- 60.00 Ascend precipitous bluff 50 ft. high, which bears E. S. E. & W. N. W., thence along summit.
- 64.25 Descend precipitous bluff, bears E. N. E. & W. S. W.
- 75.00 Leave mountain for gentle slope.
- 78.20 Road bears N. E. & S. W.
- 79.85 The cor. of secs. 2, 3, 10 & 11. Land rolling and mountainous; soil 2nd, 3rd & 4th rate; some grass; scattering brush. Mountainous land 20 chs.
-

- N. $0^{\circ} 06'$ W. toward cor. of secs. 2 & 3 on N. boundary, visible,
- 40.00 Set temporary stake
- 77.83 Cor. secs. 2 & 3. Thence I run S. $0^{\circ} 06'$ E. on a true line between secs. 2 & 3; descend mountain slope
- 30.00 Leave mountain slope for rolling hills
- 37.83 Set a limestone 20 X 12 X 10 ins., 15 ins. in ground for $1/4$ sec. cor., marked $1/4$ on W. face. Dig pits 18 X 18 X 12 ins. on line N. & S., 3 ft. distant, and raise a mound of earth, $3\ 1/2$ ft. base, $1\ 1/2$ ft. high, W. of cor.
- 57.83 Point whence the N. E. cor. of a stone house of W. E. Gardner bears S. $84^{\circ} 41'$ W.
- 58.33 Road bears W. N. W. & E. S. E.
- 68.21 Point whence N. E. cor. of Gardner house bears N. $67^{\circ} 05'$ W.; a lime kiln bears S. $71^{\circ} 20'$ W. about 12 chs.
- 73.05 Center of El Paso & S. W. R. R. on curve N. E. & S. W. Telegraph line.
- ~~74.07~~
~~77.07~~
- 75.82 Wagon road E. N. E. & W. S. W.
- 77.83 The cor. of secs. 2, 3, 10 & 11. Land mountainous 30 chs.; thence rolling; some brush; little grass; soil 2nd and 3rd rate.
- Railroad camp at this point, beginning work on spur to limestone deposits.
- May 11, 1904. At this cor. I set off $17^{\circ} 55'$ on the dec. arc, and at 12 M. apparent noon observe the sun on the meridian; the resulting lat. is $31^{\circ} 27'$ which is within 1' of the proper lat.
-
- ✕ From the cor. of secs. 3, 4, 33 & 34 on S. boundary of Tp., which is a post 4 ins. square, 18 ins. high, marked and witnessed as described by the Surveyor General, I run N. $0^{\circ} 02'$ W. between secs. 33 & 34, Va. $12^{\circ} 40'$ E., over level, brushy land,
- 4.00 Enter dense undergrowth.

- 31.80 Grassy draw; course S. W. and leave dense brush for scattering brush.
- 40.00 Set a porphyry rock 18 X 10 X 6 ins., 12 ins. in ground for 1/4 sec. cor., marked 1/4 on W., and raise a mound of stone, 3 ft. base, 2 1/2 ft. high, W. of cor.; pits impracticable.
- 80.00 Set a porphyry rock 24 X 12 X 6 ins., 18 ins. in the ground for cor. of secs. 27, 28, 33 & 34, marked with 1 notch on S., and 3 notches on E. edges. Dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. distant, and raise a mound of earth 4 ft. base, 3 ft. high W. of cor. Land rolling and covered with thorny brush; dense undergrowth 27.80 chs.

East on a random line between secs. 27 & 34.

- 40.00 Set temporary stake
- 80.02 Intersect N. & S. line 9 lks. N. of cor. of secs. 26, 27, 34 & 35. Thence I run N. 89° 56' W. on true line between secs. 27 & 34; dense undergrowth.
- 40.01 Set a porphyry rock 18 X 12 X 6 ins., 12 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins. on line E. & W., 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 51.00 Leave dense brush for scattering brush.
- 80.02 The cor. of secs. 27, 28, 33 & 34. Land rolling and brushy; soil 2nd and 3rd date; dense undergrowth 51 chs.; scant grass.

N. 0° 02' W. between secs. 27 & 28.

- 14.55 Road bears N. E. & S. W.
- 40.00 Set a porphyry rock 16 X 8 X 6 ins., 11 ins. in ground, for 1/4 sec. cor., marked 1/4 on W. face; dig pits 18 X 18 X 12 ins. on line N. & S., 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

24.

80.00 Set a porphyry rock 16 X 8 X 6 ins., 11 ins. in ground for cor. of sees. 21, 22, 27 & 28, marked with 2 notches on S., and 3 notches on E. edges; raise a mound of stone, 3 ft. base, 2 1/2 ft. high, W. of cor.; pits impracticable. Land rolling and brushy; soil 2nd and 3rd rate.

S. 89° 56' E. on a random line between sees. 22 & 27.

40.00 Set temporary stake.

80.09 Intersect N. & S. line 1 lk. N. of cor. of sees. 22, 23, 26 & 27. Thence I run N. 89° 56' W. on true line between sees. 22 & 27; dense undergrowth,

38.00 Leave dense undergrowth,

40.045 Set a porphyry rock 14 X 8 X 6 ins., 10 ins. in ground for 1/4 see. cor., marked 1/4 on N. face, and raise a mound of stone, 3 ft. base, 2 1/2 ft. high, N. of cor.; pits impracticable.

80.08 The cor. of sees. 21, 22, 27 & 28; land rolling; soil 2nd and 3rd rate; dense undergrowth 38 obs.; remainder scattering brush.

May/4th.

May 12, at 8 A. M., with the lat. arc at 31° 35' N., and dec. arc at 18° 08' N., I determine the meridian (which coincides with that already obtained), at the cor. of sees. 21, 22, 27 & 28. Thence I run N. 0° 02' W. between sees. 21 & 22

40.00 Set a porphyry rock 16 X 8 X 6 ins., 9 ins. in ground to bed rock, marked 1/4 on W. face; dig pits 18 X 18 ins. N. & S. on line 3 ft. distant; N. pit 12 ins. deep, S. pit 10 ins. deep to bed rock; raise a mound of earth and stone, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

48.30 Telegraph line bears N. 39° 50' E. and S. 39° 50' W.

2.2.

- 50.76 Center of track of El Paso & S. W. R. R. on tangent N. $39^{\circ} 50'$ E., whence the center of southerly abutment of pile bridge No. 2108 bears N. $39^{\circ} 50'$ E 2304 chs.
- 52.25 Road bears N. E. & S. W.
- 50.00 Set a porphyry rock 24 X 18 X 14 ins., 18 ins. in ground for cor. of secs. 15, 16, 21 & 22, marked with 3 notches on the S. and E. edges, and "230" on N. E. and "28E" on S. E. faces. Dig pits 18 X 18 X 12 ins. in each sec., 3 1/2 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Va. $12^{\circ} 30'$ E.; land rolling and brushy; soil 2nd and 3rd rate.
-
- S. $89^{\circ} 56'$ E. on a random line between secs. 15 & 22,
- 40.00 Set temporary stake
- 50.02 Intersect N. & S. line 11 lks. S. of cor. of secs. 14, 15, 22 & 23. Thence I run S. $89^{\circ} 59'$ W. on true line between secs. 15 & 23.
- 40.02 Set a quartzite rock 18 X 14 X 12 ins., 11 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face; dig pits 18 X 18 X 12 ins. E. & W. on line, 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of corner.
- 57.07 Telegraph line.
- 58.80 Center of track of El Paso & S. W. R. R. on curve N. E. Distance northeasterly to center of S. abutment of pile bridge No. 2104, 1.23 chs.
- 70.10 Road bears N. E & S. W.
- 50.02 The cor. secs. 15, 16, 21 & 22; land rolling and brushy; soil 2nd and 3rd rate.
-
- N. $0^{\circ} 02'$ W. between secs. 15 & 16
- 40.00 Set a porphyry rock 14 X 8 X 8 ins., 10 ins. in ground for 1/4 sec. cor., marked 1/4 on W. face; dig pits 18 X 18 by 12 ins. on line N. & S., 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

23.

80.00 Set a limestone 16 X 14 X 14 ins., 11 ins. in the ground, for cor. of secs. 9, 10, 15 & 16, marked with 4 notches on S., and 3 notches on E. edges; dig pits 18 X 18 X 18 ins. in each sec, 5 1/2 ft. distant, and raise a mound of earth 4 ft. base, 3 ft. high W. of cor.; va. 15' E.; land rolling and brushy; soil 2nd and 3rd rate.

N. 89° 59' E. on a random line between secs. 10 & 15.

40.00 Set temporary stake

79.96 Intersect N. & S. line 24 lks. N. of cor. of secs. 10, 11, 14 & 15. Thence N. 89° 51' W. on true line between secs. 10 & 15, over brushy and rolling ground

37.15 Read N. N. E. & S. S. W.

39.96 Set a limestone 24 X 14 X 8 ins., 18 ins. in ground, for 1/4 sec. cor., marked 1/4 on N., and dig pits 18 X 18 X 18 ins., E. & W. on line, 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

52.64 Telegraph line.

53.60 Center of track of El Paso & S. W. R. R., tangent course N. 3° 00' E.

79.96 The cor. of secs. 9, 10, 15 & 16; land rolling and brushy; soil 2nd and 3rd rate.

N. 0° 02' W. between secs. 9 & 10

40.00 Set porphyry rock 16 X 14 X 7 ins., 11 ins. in ground, for 1/4 sec. cor., marked 1/4 on W.; dig pits 18 X 18 X 18 ins. on line N. & S., 3 ft. distant; raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

63.30 Descend steep bank, bears E. & W.

71.20 bottom, and enter grass flat; no brush, course S. W.

71.50 Read bears N. N. E. & W. S. W.

77.30 Leave grass and enter brush.

80.00 Set a porphyry rock 20 X 16 X 10 ins., 15 ins. in the

24.

ground for cor. secs. 3, 4, 9 & 10, marked with 5 notches on S. and 3 notches on E. edges; dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. distant, and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Va. 12 45' E.; land rolling and level; much brush; grass in draw; soil 2nd and 3rd rate.

May 12, 1904, at this cor. I set off 18° 10 1/2' on the dec. arc, and at 12 M. apparent noon, observe the sun on the meridian; the resulting latitude is 31° 27' 1/2" which is within 1' of the proper lat.

S. 89° 51' E. on a random line between secs. 3 & 10

40.00 Set temporary stake.

72.94 Intersect N. & S. line 4 lks. N. of cor. of secs. 3, 3, 10 & 11, Thence I run N. 89° 49' W. on true line between secs. 3 & 10.

4.50 Road bears N. E. & S. W.

5.21 Telegraph line.

7.22 Center of track of El Paso & S. W. E. R., on curve N. E., whence center of westerly abutment of pile bridge No. 2981 is distant northeasterly 16 1/8 lks.

21.00 Ascend limestone hill.

29.75 Leave limestone hill for flat.

29.90 Road bears N. N. E. & S. S. W.

32.89 Barbed wire fence of W. E. Gardner bears N. & S.

37.05 Ochetilla fence bears N. N. W. & S. S. E.

39.97 Set a limestone 14 X 10 X 5 ins., 10 ins. in ground, for 1/4 sec. cor., marked 1/4 on N. face; dig pits 18 X 18 X 18 ins. on line E. & W., 3 ft. distant; raise a mound of earth 3 1/2 ft. base, 1 1/8 ft. high, N. of cor.

45.00 Enter dense undergrowth.

75.00 Leave dense undergrowth.

79.94 The cor. of secs. 3, 4, 9 & 10; land hilly and level; Soil 1st, 2nd and 3rd rate; grass on flat; dense brush 30 chs.

	N. 0° 16' W. on a random line toward the cor. of secs. 3 & 4 on N. boundary, visible
40.00	Set temporary stake
77.76	Cor. secs. 3 & 4, previously described. Thence I run S. 0 16' E. on true line between secs. 3 & 4
57.76	Set a porphyry rock 16 X 7 X 6 ins., 11 ins. in ground, for 1/4 sec. cor., marked 1/4 on W. face; dig pits 18 X 18 X 12 ins. on line N. & S., 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/8 ft. high, W. of cor.
59.80	Road bears N. E. & S. W.
77.76	The cor. of secs. 3, 4, 9 & 10; land rolling and brushy; soil 2nd and 3rd rate.

	From the witness cor. to the cor. of secs. 4, 5, 32 & 33 on S. boundary, which is a stone firmly set, marked and witnessed as described by the Surveyor General, I run west 2 chs., and set small stake in wash for true cor. Thence I run N. 0° 02' W. between secs. 32 & 33.
27.25	Road bears N. E. & S. W.
40.00	Set a porphyry rock 16 X 12 X 6 ins., 11 ins. in ground, for 1/4 sec. cor., marked 1/4 on W. face; raise a mound of stone, 4 1/2 ft. base, 2 1/2 ft. high, W. of cor.; pits impracticable.
80.00	Set a porphyry rock 16 X 10 X 8 ins., 11 ins. in ground for cor. of secs. 28, 29 32 & 33, marked with 1 notch on S. and 4 notches on the E. edges; raise a mound of stone, 3 ft. base, 2 1/2 ft. high, W. of cor.; pits impracticable; land rolling and brushy; soil 2nd and 3rd rate.

	East on a random line between secs. 28 & 33
40.00	Set temporary stake
80.12	Intersect N. & S. line 3 lks. S. of cor. of secs. 33, 34, 27 & 28. Thence I run S. 89° 59' W. on true line between secs. 28 & 33
20.25	Road bears N. E. & S. W.

40.06 Set a quartzite rock 18 X 14 X 12 ins., 12 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face; dig pits 18 X 18 X 12 ins. E. & W., on line 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of corner.

80.12 The cor. of secs. 28 & 29, and 32 & 33. Land rolling and brushy; soil 2nd and 3rd rate.

May 12.

8 A.M. Lat arc 31° 24' N May 13. *alc arc 18' 2 3/4 determine mer. a*
 Cor sec 28-29-32-33 *thence I run*
 N. 0° 02' W. between secs. 28 & 29.

35.98 Telegraph line.

34.97 Center of track of El Paso & S. W. R. R. bears N. 59° 50' E. & S., 39' 50' W.

36.00 Road bears N. E. & S. W.

40.00 Set porphyry rock 16 X 14 X 10 ins., 11 ins. in ground for 1/4 sec. cor., marked 1/4 on W.; dig pits 18 X 18 X 12 ins. N. & S. on line 3 ft. distant. Raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set a quartzite rock 24 X 18 X 10 ins., 18 ins. in the ground for cor. of secs. 20, 21, 28 & 29, marked with 3 notches on S., and 4 notches on N. edges; dig pits 18 X 18 X 12 ins., in each section, 5 1/2 ft. distant. Raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land rolling and brushy; soil 2nd and 3rd rate.

N. 89° 59' E. on a random line between secs. 21 & 28

40.00 Set temporary stake

80.06 Intersect N. & S. line 11 lks. S. of the cor. of secs. 21, 22, 27 & 28. Thence I run S. 89° 54' W. on true line between secs. 21 & 28.

40.03 Set a porphyry rock 16 X 12 X 10 ins., 11 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face; raise a mound of stone 3 ft. base, 2 1/2 ft. high N. of cor.

40.90 Telegraph line.

27.

- 42.45 Center of track of El Paso & S. W. R. R. bears N. $35^{\circ} 50'$ E., and S. $35^{\circ} 50'$ W.
- 43.86 Road bears N. E. & S. W.
- 80.06 The cor. of secs. 20, 21, 28 & 29. Land rolling and brushy; Soil 2nd and 3rd rate.

N. $0^{\circ} 02'$ W. between secs. 20 & 21.

- 40.00 Set a porphyry rock 18 X 10 X 8 ins., 12 ins. in ground for 1/4 sec. cor., marked 1/4 on W. face; dig pits 18 X 18 X 12 ins. N. & S. on line 3 ft. distant, and raise mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W. of corner.
- 80.00 Set a porphyry rock 14 X 10 X 7 ins., 10 ins. in ground for cor. of secs. 16, 17, 20 & 21, marked with 3 notches on S., and 4 notches on E. edges. Dig pits 18 X 18 X 12 ins., in each sec., 5 1/2 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Va. $11^{\circ} 50'$ E. Land rolling and brushy; soil 2nd and 3rd rate.

N. $89^{\circ} 54'$ E. on a random line between secs. 16 & 21,

- 40.00 Set temporary stake.
- 79.92 Intersect N. & S. line 17 lks. N. of cor. of secs. 15, 16, 21 & 22. Thence I run N. $89^{\circ} 59'$ W. on true line between secs. 16 & 21.
- 39.96 Set a porphyry rock 16 X 8 X 6 ins., 11 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face; dig pits 18 X 18 X 12 ins., on line E. & W., 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 79.92 The cor. of secs. 16, 17, 20 & 21; land rolling and brushy; soil 2nd and 3rd rate.

N. $0^{\circ} 02'$ W. between secs. 16 & 17.

- 40.00 Set a porphyry rock 16 X 8 X 8 ins., 11 ins. in ground, for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 X

18 X 12 ins., on line N. & S., 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

58.25 Road bears N. N. E. and S. S. W.

77.25 Leave brush for grass; course N. N. E & S. S. W.

80.00 Set a limestone 16 X 14 X 12 ins., 11 ins. in ground, for cor. of secs. 8, 9, 16 & 17, marked with 4 notches on S. and E. edges. Dig pits 18 X 18 X 12 ins., in each sec., 5 1/2 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land rolling and brushy, and level and grassy; soil 2nd and 3rd rate. Va. 12° 45' E.

May 13, 1904, at this cor. I set off 18° 35' on the dec. arc., and at 12 M., apparent time, observe the sun on the meridian; the resulting lat. is 31° 35', which is within 1' of the proper lat.

S. 89° 59' E. on a random line between secs. 9 & 16

40.00 Set temporary stake.

79.85 Intersect N. & S. line 23 lks. N. of cor. of secs. 9, 10, 15 & 16. Thence I run N. 89° 49' W. on true line between secs. 9 & 16, through brush.

39.925 Set a porphyry rock 13 X 10 X 10 ins., 9 ins. in ground, for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins., on line E. & W., 3 ft. distant, and raise a mound of earth, 3 1/8 ft. base, 1 1/2 ft. high, N. of cor.

62.45 Road bears N. N. E. & S. S. W.

76.00 Leave brush for grass flat.

79.85 The cor. of secs. 8, 9, 16 & 17; land rolling and brushy, and level and grassy; soil 2nd and 3rd rate.

N. 0° 02' W. between secs. 8 & 9

32.90 Center of draw 45 lks. wide; course W.

40.00 Set a porphyry rock 18 X 14 X 7 ins., 12 ins. in ground for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 X 18 X 12 ins., on line N. & S., 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

- 62.00 Leave dense brush for open flat.
- 78.86 Road bears N. & S.
- 80.06 The cor. of secs. 17, 18, 19 & 20. Land rolling and brushy, and level and grassy; soil 2nd and 3rd rate; dense underbrush 62 obs.

S. 89° 56' W. on a random line between secs. 18 & 19

- 40.00 Set temporary stake.
- 79.68 Intersect W. boundary 8 lks. S. of cor. of secs. 18 & 19 Thence I run N. 89° 59' E. on true line between secs. 18 & 19.

- 39.68 Set a porphyry rock 14 X 10 X 6 ins., 10 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins. on line N. & W. 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

- 79.68 The cor. of secs. 17, 18, 19 & 20. Land level and grassy; soil 2nd rate.

N. 0° 03' W. between secs. 17 & 18.

- 40.00 Set a porphyry rock 18 X 8 X 8 ins., 12 ins. in ground for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 X 18 X 12 ins. N. & S. on line 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

62.20
~~62.20~~ Road bears N.N.W. & S.S.E.

- 80.00 Set a porphyry rock 18 X 10 X 8 ins., 12 ins. in ground for cor. of secs. 7, 8, 17 & 18, marked with 4 notches on S., and 5 notches on E. edges. Dig pits 18 X 18 X 12 ins. in each sec 5 1/2 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Va. 18° 10' E. Land level and grassy; soil 2nd rate.

S. 89° 49' E. on a random line between secs. 8 & 17.

- 40.00 Set temporary stake.
- 80.11 Intersect N. & S. line at the cor. of secs. 8, 9, 16 & 17. Thence I run N. 89° 49' W. on true line between secs. 8

- & 17.
- 40.055 Set a porphyry rock 13 X 8 X 8 ins., 9 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins., on line E. & W. 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 80.11 The cor. of secs. 7, 8, 17 & 18.
Land level and grassy; soil 2nd rate.
May 14.
-
- May 15
- At 8 A. M., with the lat. arc at $31^{\circ} 26' 1/2''$ and the dec. arc at $18^{\circ} 52' N.$, I determine the meridian (which coincides with that already obtained) at the cor. of secs. 7, 8, 17 & 18; thence I run S. $89^{\circ} 59' W.$ on a random line between secs. 7 & 18.
- 40.00 Set temporary stake.
- 79.24 Intersect W. boundary 2 lks. S. of cor. of secs. 7 & 18
Thence I run east on true line between secs. 7 & 18, over grassy flat.
- 80.75 Leave grass for brush; course S.E. & N.W.
- 89.24 Set a porphyry rock 14 X 10 X 8 ins., 11 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins. E. & W. on line 3 ft. distant, and raise a mound of earth 3 1/8 ft. base, 1 1/2 ft. high, N. of cor.
- 47.50 Leave brush and again enter grass; course N.E. & S.W.
- 78.15 Road bears N. & S.
- 79.24 The cor. of secs. 7, 8, 17 & 18. Land level and grassy; soil 2nd rate.
-
- N. $0^{\circ} 03' W.$ between secs. 7 & 8, over grassy flat.
- 40.00 Set a limestone 14 X 12 X 10 ins., 10 ins. in ground for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 X 18 X 12 ins. on line N. & S. 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

- 42.20 Leave grass for brush; course E. & W.
- 62.10 Leave brush for grass; course E. & W.
- 80.00 Set a porphyry rock 36 X 12 X 6 ins., 20 ins. in ground to hard pan, for cor. of secs. 5, 6, 7 & 8, marked with 5 notches on S. & E. edges. Dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land level and grassy; soil 2nd rate.
-
- S. 89° 49' E. on a random line between secs. 5 & 8.
- 40.00 Set temporary stake.
- 80.09 Intersect N. & S. line at cor. of secs. 4, 5, 8 & 9; thence I run N. 89° 49' W. on true line between secs. 5 & 8. Dense undergrowth.
- 40.045 Set a porphyry rock 16 X 12 X 10 ins., 11 ins. in ground for the 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 10 ins. to hard pan, on line E. & W. 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 71.00 Leave dense brush for grass.
- 80.09 The cor. of secs. 5, 6, 7 & 8. Land rolling and level. Dense brush 71 chs.; thence grass; soil 2nd rate. May 15, 1904, at this cor. I set off 18° 54' N on the decl. arc, and at 12 N. apparent time, observe the sun on the meridian; the resulting lat. is 31° 27' N, which is within 1' of the proper lat.
-
- West on a random line between secs. 6 & 7.
- 40.00 Set temporary stake.
- 78.33 Intersect W. boundary 3 lks. S. of cor. of secs. 6 & 7. Thence I run S. 89° 59' E., through scattering brush.
- 38.33 Set porphyry rock 14 X 8 X 6 ins., 18 ins. in ground, for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins. on line E. & W. 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

- 60.10 Leave brush for grass.
- 73.83 Road bears N. & S.
- 78.33 The cor. of secs. 5, 6, 7 & 8. Land level, brushy and grassy; soil 2nd rate.
-
- N. $0^{\circ} 12'$ W. on random line between secs. 5 & 6.
- 40.00 Set temporary stake.
- 77.53 Intersect N. boundary 15 lks. west of cor. of secs. 5 & 6. Thence I run S. $0^{\circ} 08'$ E. on true line between secs. 5 & 6, over brushy ground.
- 37.53 Set a porphyry rock 16 X 10 X 8 ins., 11 ins. in ground, for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 X 18 X 18 ins. on line N. & S. 3 ft. distant, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 42.00 Road bears N.W.E. & S.S.W.
- 44.00 Leave brush for grass.
- 77.53 The cor. of secs. 5, 6, 7 & 8. Land rolling and level; brush and grass; soil 2nd rate.

May 15.

NOTE: In this survey it was possible to see flags at nearly every corner on the S. boundary, from every other corner except one; also on the longitudinal lines it was possible to get distant foresights, and in most cases backsights, that could be seen at intervals the whole length of the lines. In consequence, I was enabled to turn all lines from the one meridian first obtained; and several times each day I checked these with the solar, always with satisfactory results. The mean, magnetic variation is $12^{\circ} 40'$ E. Material changes from this are recorded in notes.

38.

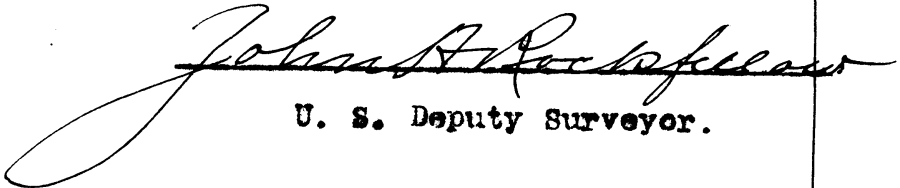
GENERAL DESCRIPTION.

This township extends from the summit of a small range, known as the Perilla Mts., westward toward the Sulphur Springs Valley, including mountains, foothills and mesa lands.

It is generally covered with a dense growth of mesquite, catsclaw, greasewood, brush and cactus. In the N. E. portion the flood water from a large area about College Peak enters this township, and passing down a grassy draw without particular channel, spreads out, causing large grass flats.

There is no timber and no water on the surface, within the township. There are limestone quarries in sec. 11. There are settlements in secs. 2, 3, 9, 29, 30, 31 & 32.

Tombstone, Arizona, June 2, 1904.


U. S. Deputy Surveyor.

GENERAL DESCRIPTION.

This township extends from the summit of a small range, known as the Parilla Mts., westward toward the Gila Spring Valley, including mountains, foothills and mesa lands.

It is generally covered with a dense growth of mesquite, oak, cottonwood, brush and cedars. In the N. E. portion the flood water from a large area about Gila Peak enters this township, and passing down a gully runs without particular channel, spreads out, and finally forms large grass flats.

There is no timber and no water on the surface, within the township. There are limestone deposits in sec. 11. There are settlements in sec. 2, 3, 8, 29, 30, 31 & 32. Tempe, Arizona, June 5, 1904.

U. S. Geology Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed by John A. Rockwell

....., 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

Subdivisions of Tp 23S. R 28E

showing the respective capacities in which they acted:

E. L. Robinson....., Chainman. ✓

W. C. McKay....., Chainman. ✓

C. E. Buchner....., Moundman. ✓
and Alexander....., Moundman.

....., Arman.

....., Arman.

R. H. Atwell....., Flagman. ✓

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John A. Rockwell

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

those parts or portions of the Subdivisions
of Tp. 23 S. R 28 E

G. S. P...... of the

Ter. meridian, Ter. 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

E. L. Robinson....., Chainman. ✓

W. C. McKay....., Chainman. ✓

C. E. Buchner....., Moundman. ✓
and Alexander....., Moundman.

....., Arman.

....., Arman.

Robert H. Atwell....., Flagman. ✓

Subscribed and sworn to before me this 15th

day of May, 1891904



John A. Rockwell
Notary Public

BOOK 1823

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John A. Rockfellow, 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 24th day of February, 1904; 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 subdivisions of T²³S, R²⁸E

of the Great Salt River meridian, in the Ter 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; 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 A. Rockfellow
United States Deputy Surveyor.

Subscribed by said John A. Rockfellow and sworn to before me }
this 24th day of June, 1904.

Geo. Wilcox
Clerk District Court.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona.
January 31, 1905

The foregoing field notes of the survey of the resurvey of the west bdy and survey of the subdivisional lines of T²³S, R²⁸E of the Gila land Salt River Base and Meridian, in the territory of Arizona.

executed by John A. Rockfellow, D.S., under his contract No. 112, dated February 24th, 1904, 189, 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.

- Va. $12^{\circ} 25'$ E. Whence wind-mill of H. M. Wells bears N. $88^{\circ} 23'$ E., 15.80 chs.
- 63.00 Leave grass flat and enter brush.
- 80.00 Set a porphyry rock 24 X 14 X 12 ins., 18 ins. in ground for cor. of secs. 4, 5, 8 & 9, marked with 5 notches on S., and 4 notches on E. edges. Dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land level and rolling; grass and brush; soil 2nd and 3rd rate.
-
- S. $89^{\circ} 49'$ E. on a random line between secs. 4 & 9.
- 40.00 Set temporary stake.
- 79.85 Intersect N. & S. line 18 lks. S. of cor. of secs. 3, 4, 9 & 10; thence I run N. $89^{\circ} 57'$ W. on true line between secs. 4 & 9; dense undergrowth.
- 16.25 Draw 30 ^{lks} chs. wide bears N. E. & S. W.
- 17.84 Barbed wire fence bears N. E. & S. W.; leave dense brush for scattering brush.
- 39.925 Set a porphyry rock 24 X 8 X 8 ins., 18 ins. in ground, for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins. on line E. & W., 3 ft. distant. Raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. N. of cor.
- 46.05 Road bears N. & S.
- 79.85 The cor. of secs. 4, 5, 8 & 9; land level and rolling; dense undergrowth 17.84 chains; soil 2nd and 3rd rate.
-
- N. $0^{\circ} 12'$ W. on a random line for cor. secs. 4 & 5 on N. boundary, visible.
- 40.00 Set temporary stake.
- 77.74 Cor. secs. 4 & 5; thence I run S. $0^{\circ} 12'$ E. on a true line between secs. 4 & 5.
- 37.74 Set a porphyry rock 17 X 16 X 4 ins., 12 ins. in ground, for 1/4 sec. cor, marked 1/4 on W. face. Dig pits 18 X 18 X 12 ins. on line N. & S., 3 ft. distant, and raise a

77.74

mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
The cor. of secs. 4, 5, 8 & 9; land rolling and brushy;
soil 2nd and 3rd rate.

May 13.

May 14.

At the cor. of secs. 5, 6, 31 & 32 on S. boundary,
which is a stone marked and witnessed as described by the
Surveyor General, at 8 A. M., with the lat. arc at 31° 23' 1/2"
and the dec. arc at 18° 37 1/2' N., I determine the merid-
ian, with solar; thence I run N. 0° 03' W. between secs.
31 & 32. Va. 13° 00' E. 1.30 chs. Well and settlement
of E. F. Lee. Follow along a N. & S. road,

4.00

House of David Saunders bears W. about 38 chs.

4.30

House of Nat. Sanders bears W. about 42 chs.

30.30

A road; course N. E. & S. W.

40.00

Set a porphyry rock 14 X 8 X 8 ins., 10 ins. in ground,
for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 X
18 & 18 ins. on line N. & S., 3 ft. distant, and raise a
mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.,
whence the S. W. cor. of house of Roundtree bears N. 72°
30' E., about 17 chs.

42.08

9 lks. east, a post, marked N. W. cor. Matter, S. W. cor.
Roundtree.

80.00

Set a limestone 16 X 12 X 8 ins., 11 ins. in ground, for
cor. secs. 29, 30, 31 & 32, marked with 1 notch on S., and
5 notches on E. edges. Dig pits 18 X 18 X 12 ins. in each
sec., 5 1/2 ft. distant, and raise a mound of earth 4 ft.
base, 2 ft. high, W. of cor.; whence the S. W. cor. of
Roundtree house bears S. 23° 12' E.

(2) A post bears N. 38° 45' E. 33 lks., marked "M. D.
Irwin" N. W. cor., "C. A. Irwin" S. W. cor., S. W. one
mile to cor. now located by D. Saunders." Land rolling and
brushy; soil 2nd and 3rd rate.

91.

E. on random line between secs. 29 & 32.

- 40.00 Set temporary stake.
- 80.02 Intersect 15 lks. N. of cor. secs. 28, 29, 32 & 33; thence I run on true line N. $89^{\circ} 54'$ W. between secs. 29 & 32.
- 18.50 Telegraph line.
- 20.03 Center track of El Paso & S. W. R. R. on curve N. E.
- 36.16 Road bears N. E. & S. W.
- 40.01 Set a porphyry rock 16 X 10 X 10 ins., 11 ins. in ground, for $1/4$ sec. cor., marked $1/4$ on W. face. Dig pits 18 X 18 X 12 ins. on line E. & W., 3 ft. distant. Raise a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor.
- 80.02 The cor. of secs. 29, 30, 31 & 32. Land rolling and brushy; soil 2nd and 3rd rate.

West on a random line between secs. 30 & 31

- 40.00 Set temporary stake.
- 79.85 Intersect west boundary at cor. secs. 30 & 31
Thence I run E. on true line between secs. 30 & 31.
- 7.15 Well and settlement of Hammond 4.50 chs. north.
- 39.85 Set a perphyry rock 14 X 12 X 12 ins., 10 ins. in ground, for $1/4$ sec., marked $1/4$ on N. face. Dig pits 18 X 18 X 12 ins., E. & W. on line 3 ft. distant, and raise a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor.; whence St. and cabin bears N. $27^{\circ} 20'$ E. about $20^{\sqrt{}}$ chs.
- 40.45 Road bears N. E. & S. W.
- 79.85 The cor. of secs. 29, 30, 31 & 32. Land rolling and brushy; soil 2nd and 3rd rate.

N. $0^{\circ} 03'$ W. between secs. 29 & 30.

- 40.00 Set porphyry rock 16 X 10 X 8 ins., 11 ins. in ground, for $1/4$ sec. cor., marked $1/4$ on W. face. Dig pits 18 X 18 X 12 ins. on N. & S., 3 ft. distant, and raise a mound of earth, $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, W. of cor. Whence Va. $12^{\circ} 50'$ E.

(1) S. E. cor. of house of Wm. Booth bears N. $47^{\circ} 45'$

W., about 11 chs.

(2) S. W. cor. of house of C. W. Miller bears N. 86° 55' E. about 15 chains.

(3) S. W. cor. barbed wire fence bears S. 2° 40' E. 4.71 chains.

80.00 Set a limestone 16 X 10 X 8 ins., 11 ins. in ground, for cor. of secs. 19, 20, 29 & 30, marked with 2 notches on S. and 5 notches on E. edges. Dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. distant, and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Va. 12° 45' E. Land rolling and brushy, with some open grass plats; soil 2nd and 3rd rate.

S. 89° 54' E. on a random line between secs. 20 & 29

40.00 Set temporary stake.

80.03 Intersect N. & S. line 24 lks. N. of cor. of secs. 20, 21, 28 & 29. Thence I run N. 89° 44' W. on true line between secs. 20 & 29.

11.45 Enter dense undergrowth.

40.015 Set a porphyry rock 16 X 10 X 8 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 X 18 X 12 ins. on line E. & W., 3 ft. distant, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

80.03 The cor. of secs. 19, 20, 29 & 30. Land rolling and brushy; dense brush 68.58 chs. Soil 2nd and 3rd rate.

May 14, 1904, at this cor. I set off 18° 40' on the dec. arc, and at 12 M. apparent time, observe the sun on the meridian; the resulting lat. is 31° 35' which is the proper lat.

West on a random line between secs. 19 & 30.

40.00 Set temporary stake.

80.02 Intersect W. boundary 10 lks. N. of cor. secs. 19 & 30.

- Thence I run N. $89^{\circ} 56'$ E. on true line between secs. 19 & 30.
- 40.00 Line of fence posts bears N. & S.
- 40.02 Set a porphyry rock 16 X 12 X 8 ins., 11 ins. in ground for $1/4$ sec. cor., marked $1/4$ on N. face. Dig pits 18 X 18 X 12 ins. on line E. & W., 3 ft. distant, and raise a mound of earth $3\ 1/2$ ft. base, $1\ 1/2$ ft. high, N. of cor.
- 77.60 Road bears N. & S. Enter dense underbrush.
- 80.02 The cor. of secs. 19, 20, 29 & 30; land rolling and brushy; soil 2nd and 3rd rate. Dense undergrowth 2.40 chs.
-
- N. $0^{\circ} 03'$ W. between secs. 19 & 20, dense undergrowth.
- 7.40 Road bears N. N. E. & S. S. W.
- 40.00 Set a limestone 14 X 8 X 6 ins., 10 ins. in ground for $1/4$ sec. cor., marked $1/4$ on W. face. Dig pits 18 X 18 X 12 ins. on line N. & S., 3 ft. distant, and raise a mound of earth $3\ 1/2$ ft. base, $1\ 1/2$ ft. high, W. of cor.
- 68.00 Leave dense brush for open grass flat; course N. E. & S. W.
- 80.00 Set a limestone 14 X 12 X 12 ins., 10 ins. in ground, for cor. of secs. 17, 18, 19 & 20, marked with 3 notches on S., and 5 notches on E. edges. Dig pits 18 X 18 X 12 ins. in each sec, ^{$5\ 1/2$ ft. dist.} and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land rolling and brushy, and level and grassy. Dense undergrowth 68 chs.; soil 2nd and 3rd rate.
-
- S. $89^{\circ} 44'$ E. on a random between secs. 17 & 20.
- 40.00 Set temporary stake.
- 80.06 Intersect N. & S. line 11 lks. S. of cor. of secs. 16, 17, 20 & 21. Thence I run N. $89^{\circ} 49'$ W. on true line between secs. 17 & 20. Dense undergrowth.
- 23.56 Road bears N. N. E. & S. S. W.
- 40.08 Set porphyry rock 14 X 10 X 8 ins., 10 ins. in ground, for $1/4$ sec. cor., marked $1/4$ on W. face. Dig pits 18 X 18 X 12 ins. E. & W. on line 3 ft. distant, and raise a mound of earth, $3\ 1/2$ ft. base, $1\ 1/2$ ft. high, N. of cor.