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Book O.

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Accepted letter E. May 4-1910

BOOK 2169

FIELD NOTES

OF THE SURVEY OF THE

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Subdivision of T. 18 S. R. 32 E.

2169

Of the Gila & Salt River Base & Meridian,

Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 154, dated February 9, 1909

Survey commenced June 30, 1909

Survey completed July 6, 1909

6-151

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BOOK 2169

NAMES AND DUTIES OF ASSISTANTS.

Levi J. Stover Chainman
William Chick "
Lee Engush Moundman
Frank Sanford "
Joseph Tompkins Axeman
James McAlister "
Bertram Chick Flagman

55
18

BOOK 2169

BOOK 2169

INDEX DIAGRAM.

Township 18 South Range 32 East

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New Mexico

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Levi J. Stover and William Click
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of
Subdivision of T. 18 S. R. 32 E.

Levi J. Stover x, Chairman.
William Click, Chairman.

Subscribed and sworn to before me this 30th
day of June, 1909



Jesse B. Wright
U.S. Deputy Surveyor

WE, Lee English and Frank Sanford
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of
Subdivision of T. 18 S. R. 32 E.

Lee English, Moundman.
Frank Sanford, Moundman.

Subscribed and sworn to before me this 30th
day of June, 1909



Jesse B. Wright
U.S. Deputy Surveyor

WE, Joseph A. Tompkins and James W. Miller
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of
Subdivision of T. 18 S. R. 32 E.

Joseph A. Tompkins, Axman.
James W. Miller, Axman.

Subscribed and sworn to before me this 30th
day of June, 1909



Jesse B. Wright
U.S. Deputy Surveyor

I, Bertram Click, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of
Subdivision of T. 18 S. R. 32 E.

Bertram Click, Flagman.

Subscribed and sworn to before me this 30th
day of June, 1909



Jesse B. Wright
U.S. Deputy Surveyor

Subdivision of T. 18 S. R. 32 E.

Chains

Survey commenced, June 30, 1909, and executed with a Young & Sons light mountain transit No. 6492 with Smith patent solar attachment on side. The horizontal limb of the instrument is provided with two double verniers placed opposite to each other and each reading to 1' of arc, which is also the least reading of the verniers of the latitude and declination arcs and the vertical arc of the instrument.

I examine and test the levels, the line of collimation, and standards of the instrument and find same correct. I also examine, test and adjust carefully the latitude arc of the solar by means of the strident level, and at noon of this date at the cor. of secs. 5, 6, 31 & 32 on the North boundary of the Tp. recently established by me

I test the declination arc and hour circle of the solar and find same correct.

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

at 3h p.m., l.m.t., at the cor. above described,

I set off $23^{\circ} 11' N.$ on the decl. arc and $31^{\circ} 54' N.$ on the lat. arc and observe the sun for meridian, and mark the meridian thus determined by a small nail driven in a tree 6 chs. N. of my station. July 1, 1909, at 12h 55.6 m a.m., l.m.t. I observe Polaris at E. Elong. in accordance with instructions in the "Manual" and mark the line thus determined by a tack in a stake driven in the ground 6 chs. N. of my station.

at 7h a.m., l.m.t., I set off the azimuth of Polaris $1^{\circ} 23'$ to the W. and mark the true meridian thus determined by a tack in the tree 6 chs. N. of my station, which line is 0.30 ins. W. of the line as given by the solar on preceding evening.

At 7h 30m l.m.t., I set off $23^{\circ} 9' N.$ on the decl. arc and $31^{\circ} 54' N.$ on the lat. arc and determine a meridian with the solar, which meridian gives a line identical with the true meridian determined by Polaris observations.

The solar apparatus by p.m. & a.m. observations defines positions for meridians respectively $14'' E.$ and identical with the true meridian determined by Polaris observations; hence I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h 30m a.m., l.m.t., is $N. 13^{\circ} 20' W.$

The angle thus determined gives the magnetic declination as $13^{\circ} 20' E.$

Thence from the above described cor. I run, as per instructions,

South, bet. secs. 5 & 6.

Over rolling land, through dense mesquite brush.

- 5.00 Wash 150 lks. wide, course E.
 - 17.50 Corner of wire fence is 60 lks. W. runs SW. & NW. from Cor.
 - 31.50 Telephone line, from Rodeo, N.M. to Paradise, Ariz, brs. NW. & SE.
 - 36.00 Enter stony wash, course E.
 - 39.50 Leave wash.
 - 40.00 Set a granite stone 20x10x10 ins. 15 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
- No bearings available. Pits impracticable.

Subdivision of T. 28 S. R. 32 E.

Chains

67.00 Main wash 3 chs. wide, course E.
 80.00 Set a granite stone 24x10x8 ins. 18 ins. in the ground for
 Cor. of secs. 5, 6, 7 & 8, marked with 5 notches on S. & E
 edges and raise a mound of stone 3 ft. base 2 ft. high W
 of cor. No bearings available. Pits impracticable.
 Land, rolling.
 Soil, 2nd & 3rd rate, sandy, gravelly, stony.
 No timber.
 Undergrowth, mesquite.
 Land covered with dense undergrowth, 80.00 chs.

West on a random line bet. secs. 6 & 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect W. bdy. at point 12 lks. S. of cor. of secs.
 6, 7, 1 & 12, whence I run,
 S. 89° 55' E. on a true line bet. secs. 6 & 7.
 Over mts. land along rough stony S. slope of ridge.
 4.00 Spur, brs. SE. & NW. desc. steep.
 30.00 Box canyon 5 chs. wide, 100 ft. deep course SE. asc. prec.
 40.02 Top of sharp ridge, brs. NW. & SE. (Mineralized)
 Set a blue granite stone 20x10x10 ins. in mound of stone
 on bed rock for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise
 a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
 No bearings available. Pits impracticable.
 43.00 Head of gulch course SE.
 Descend over very broken stony ground.
 80.04 To cor. of secs. 5, 6, 7 & 8
 Land, mts. broken.
 Soil, 3rd rate, stony.
 No timber. Undergrowth, scattering mesquite, palneo, cacti.
 Mountainous land exceptionally difficult to survey, 80.04 chs.
 At this cor. at noon, I set off 23° 8' N. on the decl.
 arc and observe the sun on the meridian.
 The resulting lat. is 31° 53' N. /

South bet. secs. 7 & 8.
 Over broken land desc. grad, through dense mesquite brush.
 23.00 Enter main wash, course ESE.
 33.00 Leave wash.
 40.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of
 stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available. Pits impracticable.
 57.00 Wash 2 chs. wide, course ESE.
 58.85 Wood road, brs. E. & W.
 68.00 Wash 80 lks. wide, course E.
 70.00 Begin asc. NE. slope of mtn.
 80.00 Set a granite stone 20x12x6 ins. 15 ins. in ground for
 Cor. of secs. 7, 8, 17 & 18, marked with 4 notches on S. &
 5 notches on E. edges and raise a mound of stone 4 ft.
 base 3 ft. high W. of cor. No bearings available.
 Land broken mts. Soil, 2nd & 3rd rate, gravelly, stony.
 No timber. Undergrowth, mesquite.
 Mts. land or land covered with dense undergrowth, 80.00 chs.

N. 89° 55' W. on a random line bet. secs. 7 & 18.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect W. bdy. of tp. at point 19 lks. S. of cor. of
 secs. 7, 12, 13 & 18, whence I run,
 S. 89° 47' E. on a true line bet. secs. 7 & 18.
 Over mts. land desc. over very rough stony ground.
 with great difficulty.
 40.04 Set a granite stone 20x10x10 ins. 15 ins. in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone
 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
 No bearings available. Pits impracticable.
 42.00 Gulch 3 chs. wide, course ENE. old road in same.
 Ascend N. end of mtn.

Subdivision of T. 18 S. R. 32 E.

Chains

65.00 Top of N. End of high rocky butte, brs. N. & S. desc. steep.
 80.08 To cor. of secs. 7, 8, 17, & 18.
 Land, mts.
 Soil, 3rd rate, very stony.
 Few scattering oak and cedar.
 Undergrowth, scattering scrub oak, palneo, ocotillo.
 Mts. land exceptionally difficult to survey, 80.08 chs.
 July 1, 1909.

July 2, 1909, at 7h a.m., 1 a.m.t., at the cor. above described, I set off 23° 5½' N. on the decl. arc and 31° 52' N. on the lat. arc and determine a true meridian with the solar, thence I run,
 South, bet. secs. 17 & 18.
 Over mts. land asc. over very stony E. slope of mtn. with great difficulty over loose stones.
 15.00 Top of E. end of Mtn. brs. N. & S. desc.
 40.00 Foot of main slope brs. NE. & SW.
 Set a granite stone 20x10x6 ins. 15 ins. in ground for ¼ sec. cor. marked ¼ on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available.
 Thence over stony, rolling ground slopes gently to E.
 53.10 Wash 80 lks. wide, course NE.
 77.00 Wash 180 lks. wide, course NE.
 80.00 Set a granite stone 24x14x8 ins. 18 ins. in ground for cor. of secs. 17, 18, 19 & 20, marked with 3 notches on S. and 5 notches on E. edges and raise a mound of stone 3 ft. base 2 ft. high W. of cor. from which,
 A willow tree 6 ins. diam. brs. N. 82° W. 250 lks. dist., marked T. 18 S. R. 32 E. S. 18 B.T.
 No other bearings available.
 Land, mts., rolling.
 Soil, 2nd & 3rd rate, stony.
 No timber. Undergrowth, scattering mesquite.
 Mts. land exceptionally difficult to survey, 40.00 chs.
 Stony and broken ground, -----, 40.00 chs.

N. 89° 47' W. on a random line bet. secs. 18 & 19.
 40.00 Set temp. ¼ sec. cor.
 80.10 Intersect W. bdy. of tp. at point 9 lks. S. of cor. of secs. 13, 18, 19 & 24, whence I run,
 S. 89° 43' E. on a true line bet. secs. 18 & 19.
 Over mts. land desc. loose stony ground with great difficulty.
 5.00 Canyon 150 lks. wide, 100 ft. deep, course SE.
 40.05 Set a granite stone 24x12x8 ins. 18 ins. in ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone 3 ft. base 2 ft. high N. of cor.
 No bearings available. Desc. grad. over broken ground.
 51.10 Wash 2 chs. wide, course NE.
 78.00 Wash 2 chs. wide, course NE.
 80.10 To cor. of secs. 17, 18, 19 & 20.
 Land, mts., broken.
 Soil, 3rd rate, stony.
 No timber. Undergrowth, scattering mesquite.
 Mts. land exceptionally difficult to survey, 40.05 chs.
 Broken, stony land, -----, 40.05 chs.

At this point in the work, on this date, I discharged Joseph Tompkins, as axeman, for negligence and carelessness relative to his duties, and employed James McAlister, as axeman.

Subdivision of T. 18 S. R. 32 E.

Chains

South, bet. secs. 19 & 20.
Over broken stony ground, slopes gently to E.

37.00 Wash 120 lks. wide, course E.

40.00 Set a granite stone 20x10x10 ins. 15 ins. in ground for 1/4 sec.cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
No bearings available.

76.00 Enter wash of main canyon, course E.

79.00 Leave wash. Heavy oak timber in wash.

80.00 Set a granite stone 24x10x10 ins. 18 ins. in ground for cor. of secs. 19,20,29 & 30; marked with 2 notches on S. & 5 notches on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. from which,
An oak tree 24 ins.diam.brs.N.6° E. 241 lks.dist., marked T. 18 S. R. 32 E. S. 20 B.T.
An oak tree 14 ins.diam.brs.N.46°W. 169 lks.dist., marked T. 18 S. R. 32 E. S. 19 B.T.
No other bearings available.

Land, broken. Soil, 3rd rate; stony.

Timber, heavy oak in main washes.

Undergrowth, scattering mesquite.

Broken, stony, land ----- 80.00 chs.

At the above described cor. at noon, I set off 23° 04' N. on the decl. arc and observe the sun on the meridian. The resulting lat. is 31° 50' N.

N.89° 43' W. on a random line bet. secs. 19 & 30.

40.00 Set temp. 1/4 sec.cor.

80.16 Intersect W. bdy. of Tp. at point 16 lks. N. of cor. of secs.19,24,25 & 30, whence I run, S.89° 50' E. on a true line bet. secs. 19 & 30.

Over rolling, stony ground, desc. grad, along S. side of main canyon, through heavy oak timber.

40.08 Set a granite stone 24x12x8 ins. 18 ins. in ground for 1/4 sec.cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. from which,
An oak tree 10 ins.diam.brs.N.10° E. 30 lks.dist., marked 1/4 S. 19 B.T.

An oak tree 15 ins.diam.brs.S.71 1/2° E.142 lks.dist., marked 1/4 S. 30 B.T.

80.16 To cor. of secs. 19,20,29 & 30.

Land,rolling. Soil,2nd & 3rd rate, stony.

Timber, heavy oak. No undergrowth.

Heavily timbered land exceptionally difficult to survey, 80.16 chs.

South, bet. secs. 29 & 30.

Over rolling land sloping gently to E.

40.00 Set a granite stone 20x14x10 ins.15 ins.in ground for 1/4 sec.cor.marked 1/4 on W. face, and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.

45.00 Wood road, brs. NW. & SE.

80.00 Set a granite stone 20x12x10 ins. 15 ins. in ground for Cor. of secs. 29,30,31 & 32, marked with 1 notch on S. & 5 notches on E. edges and raise a mound of stone 3 ft. base 2 ft. high W. of cor. No bearings available.

Land, rolling. Soil,3rd rate, gravelly, stony.

No timber, or undergrowth. good grass.

Rolling land, 80.00 chs.

Subdivision of T. 18 S. R. 32 E.

Chains N. 89° 50' W. on a random line bet. secs. 30 & 31.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect W. bdy. of Tp. at point 5 lks. N. of cor. of secs. 25, 30, 31, & 36, whence I run, S. 89° 52' E. on a true line bet. secs. 30 & 31. Over mts. land desc. steep over loose rock, with great difficulty.
 20.00 Foot of main slope, brs. N. & S. Thence desc. grad. over stony ground on N. side of Canyon, through heavy oak timber.
 40.05 Set a granite stone 24x12x10 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. from which, An oak tree 18 ins. diam. brs. S. 89° E. 158 lks. dist., marked $\frac{1}{4}$ S. 31 B.T. No other bearings available.
 Leave oak timber, desc. grad. over stony ground.
 80.10 To cor. of secs. 29, 30, 31 & 32. Land, mts, rolling. Soil, 2nd & 3rd rate, stony. Timber, oak. No undergrowth, fair grass. Mts. land or land covered with dense heavy timber and exceptionally difficult to survey, 40.05 chs. Broken or stony ground, -----, 40.05 chs.

South, on a random line bet. secs. 31 & 32.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 52.90 Intersect cor. of secs. 31, 32, 5 & 6 on S. bdy. of Tp., whence I run, over rolling land, asc. grad.
 North, on a true line bet. secs. 31 & 32.
 12.90 Set a granite stone 24x12x8 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
 22.90 Stony wash 2 chs. wide, course SE.
 52.90 To cor. of secs. 29, 30, 31 & 32, Land, rolling. Soil, 3rd rate, gravelly, stony. No timber or undergrowth. Rolling land, ---- 52.90 chs.

July 2, 1909.

July 3, 1909, at 7h a.m., l.m.t., at the cor. of secs. 45, 32 & 33 on N. bdy. of Tp., I set off 23° 1' N. on the decl. arc and 31° 54' N. on the lat. arc and determine a true meridian with the solar, Thence I run,
 South, bet. secs. 4 & 5 .
 Over rolling land, through dense mesquite brush.
 40.00 Set a granite stone 24x12x10 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 5 ft. base 4 ft. high W. of cor. No bearings available.
 40.20 Enter stony wash, course ESE.
 43.00 Leave wash.
 55.60 Road, Rodeo to Paradise, NW. & SE.
 60.85 Wash 20 lks. wide, course SE.
 80.00 Set a granite stone 24x12x10 ins. 18 ins. in ground for Cor. of secs. 4, 5, 8 & 9, marked with 5 notches on S. & 4 notches on E. edges and raise a mound of stone 3 ft. base 2 ft. high W. of cor. No bearings available.
 Land, rolling.
 Soil, 2nd rate, sandy, gravelly.
 No timber. Undergrowth, mesquite.
 Land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 18 S. R. 32 E.

Chains	
	West on a random line bet. secs. 5 & 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. & S. line at point 5 lks. S. of cor. of secs.
	5, 6, 7, & 8, whence I run,
	S. $89^{\circ} 58'$ E. on a true line bet. secs. 5 & 8.
	Over rolling, stony land desc. grad. through dense mes-
	quite brush.
38.00	Wash 10 lks. ESE.
39.98	Set a granite stone $18 \times 10 \times 8$ ins. 12 ins. in ground for
	$\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of
	stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
	No bearings available.
40.30	Wash 20 lks. wide, course ESE.
54.15	Telephone line, Rodeo to Paradise, NW. & SE.
57.00	Wash 20 lks. wide, course SE.
79.96	To cor. of secs. 4, 5, 8 & 9.
	Land, rolling,
	Soil, 2nd & 3rd rate, stony, gravelly.
	No timber.
	Undergrowth, mesquite,.
	Land covered with dense undergrowth, 79.96 chs.
	South, bet. secs. 8 & 9.
	Over very stony broken ground, many washes, running E.
	Through dense mesquite brush.
21.35	Telephone line, Rodeo to Paradise, brs. NW. & SE.
40.00	Set a granite stone $20 \times 12 \times 10$ ins. 15 ins. in ground for
	$\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone
	2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
	No bearings available.
78.85	Wash 20 lks. wide, course SE.
80.00	Set a white granite stone $30 \times 15 \times 10$ ins. 10 ins. in ground
	in mound of stone for cor. of secs. 8, 9, 16 & 17, marked
	with 4 notches on S. & 4 notches on E. edges and raise a
	mound of stone 3 ft. base 2 ft. high W. of cor.
	No bearings available.
	Land, rolling, broken.
	Soil, 2nd rate, gravelly, stony.
	No timber.
	Undergrowth, mesquite, palmo,
	Land covered with dense undergrowth, 80.00 chs.
	N. $89^{\circ} 58'$ W. on a random line bet. secs. 8 & 17
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. & S. line at cor. of secs. 7, 8, 17 & 18,
	whence I run,
	S. $89^{\circ} 58'$ E. on a true line bet. secs. 8 & 17.
	Over mts. land desc.
20.00	Foot of slope, enter dense mesquite, brs. N. & S.
29.60	Road, brs. NW. & SE.
	Desc. grad. over very stony ground, in wash.
30.00	Leave wash, runs SE.
40.00	Set a malapais stone $20 \times 12 \times 12$ ins. 15 ins. in ground for
	$\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of
	stone 2 ft. base 2 ft. high N. of cor.
	No bearings available.
80.00	To cor. of secs. 8, 9, 16, & 17.
	Land, rolling, broken, mts.
	Soil, 2nd & 3rd rate, stony, gravelly.
	No timber,
	Undergrowth, mesquite, navajo brush.
	Mts. land or land covered with dense undergrowth, 80.00 chs.
	At this cor. at noon, I set off $22^{\circ} 59'$ N. on the dec.
	arc and observe the sun on the meridian.
	The resulting lat. is $31^{\circ} 52'$ N.

Subdivision of T. 18 S. R. 32 E.

Chains

South, bet. secs. 16 & 17.
 Over rolling land, through dense mesquite.
 4.00 Wash 2 chs. wide, course E.
 13.60 Road, brs. E. & W.
 14.20 Wire fence., brs S 72° 35' E. & N. 72° 35' W.
 Enter pasture of Frank Sanford.
 18.00 W. end of small circular corral.
 20.00 Build mound of stone on line.
 House of Frank Sanford, brs. E. 4 chs. dist.
 37.00 Wash 2 chs. wide, course E.
 40.00 Set a granite stone 18x15x15 ins. 12 ins. in ground for
 1/4 sec.cor. marked 1/4 on W. face and raise a mound of
 stone 2 ft. base 1 1/2 ft. high W. of cor. from which,
 A mesquite tree 6 ind.diam.brs.N. 22 3/4° E. 119 lks.dist.
 marked T. 18 S. R. 32 E. S. 16 B.T.
 A mesquite tree, 6 ins.diam.brs.N. 52 1/4° W. 161 lks.dist.,
 marked T. 18 S. R. 32 E. S. 17 B.T.,
 Enter almost impenetrable thicket of mesquite.
 60.00 Build mound of stone on line.
 61.50 Wire fence, brs. E. & W.
 Leave pasture of Frank Sanford.
 80.00 Set a granite stone 24x10x8 ins. 18 ins. in ground for
 cor. of secs. 16, 17, 20 & 21, marked with 3 notches on S.
 & 4 notches on E. edges and raise a mound of stone
 2 ft. base 1 1/2 ft. high W. of cor.
 No bearings available.
 Land, rolling.
 Soil, 2nd rate, sandy, gravelly.
 No timber.
 Undergrowth, mesquite.
 Land covered with dense undergrowth,----- 40.00 chs.
 Land covered with dense undergrowth, & exceptionally
 difficult to survey,----- 40.00 chs.

N. 89° 58' W. on a random line bet. secs. 17 & 20.
 40.00 Set temp. 1/4 sec.cor.
 80.04 Intersect cor. of secs. 16, 17, 20 & 21,
 whence I run,
 S. 89° 58' E. on a true line bet. secs. 17 & 20.
 Over rolling land, desc. grad. through dense mesquite
 brush. over very stony ground.
 14.00 Enter wash, course E. desc. in same.
 20.00 Leave wash, runs ENE.
 40.02 Set a granite stone 18x10x6 ins. 12 ins. in ground for
 1/4 sec.cor. marked 1/4 on N. face and raise a mound of
 stone 3 ft. base 2 ft. high N. of cor.
 No bearings available.
 50.00 Wash 20 lks. wide, course NE.
 80.04 To cor. of secs. 16, 17, 20 & 21.
 Land, rolling. Soil, 2nd rate, stony, gravelly.
 No timber. Undergrowth, mesquite.
 Land covered with dense undergrowth, 80.04 chs.

South bet. secs. 20 & 21.
 Over rolling land, sloping gently to E.
 30.00 Wash 30 lks. wide, course E.
 40.00 Set a granite stone 18x10x10 ins. 12 ins. in ground for
 1/4 sec.cor. marked 1/4 on W. face and raise a mound of stone
 2 ft. base 1 1/2 ft. high W. of cor. from which,
 An oak tree 24 ins. diam. brs. S. 22 3/4° E. 205 lks. dist.,
 marked 1/4 S. 21 B.T.
 44.00 Main wash 3 chs. wide, course ENE. Heavy oak trees in same.
 80.00 Set a granite stone 24x12x10 ins. 18 ins. in ground for
 cor. of secs. 20, 21, 28, & 29, marked with 2 notches on S. edges
 & 4 notches on E. edges and raise a mound of stone 4 ft.
 base 3 ft. high W. of cor. No bearings available.
 Land, rolling. Soil, 2nd rate, gracelly.
 Timber, some oak in main washes. Undergrowth, mesquite.
 Rolling land, 80.00 Chs.
 July 3, 1909.

Subdivision of T. 18 S. R. 32 E.

Chains	
	July 4, 1909. At 7h a.m., l.m.t., at the cor. of secs. 20, 21, 28 & 29, I set off 22° 56' N. on the decl. arc and 31° 50' N. on the lat. arc and determine a true meridian with the solar, Thence I run, N. 89° 58' W. on a random line bet. secs. 20 & 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. & S. line 7 lks. S. of cor. of secs. 19, 20, 29 & 30, whence I run, S. 89° 55' E. on a true line bet. secs. 20 & 29. Over rolling, stony ground, desc. grad.
4.00	Enter wash 2 chs. wide, course E. Down same through oak timber.
36.00	Leave wash, and oak timber, runs E.N.E.
40.00	Set a granite stone 24x12x12 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 3 ft. base 2 ft. high N. of cor. No bearings available.
80.00	To cor. of secs. 20, 21, 28 & 29. Land, rolling, stony. Soil, 2nd & 3rd rate, gravelly, stony. Timber, some oak in washes. Undergrowth, scattering mesquite. Rolling land, ----- 80.00 chs.
	South bet. secs. 28 & 29. Over rolling land.
40.00	Set a granite stone 20x10x8 ins. 15 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
80.00	Set a granite stone 24x10x8 ins. 18 ins. in ground for cor. of secs. 28, 29, 32 & 33, marked with 1 notch on S. & 4 notches on E. edges and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available. Land, rolling. Soil, 2nd rate, gravelly. No timber or undergrowth, fair grass. Rolling land, 80.00 chs.
	N. 89° 55' W. on a random line bet. secs. 29 & 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect N. & S. line 7 lks. N. of cor. of secs. 29, 30, 31 & 32, whence I run, S. 89° 58' E. on a true line bet. secs. 29 & 32. Over rolling land, through scattering mesquite.
39.96	Set a granite stone 24x12x10 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face & raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. No bearings available.
42.00	Wood road, brs. NW. & SE.
79.92	To cor. of secs. 28, 29, 32 & 33. Land, rolling. Soil, 2nd rate, gravelly. No timber. Undergrowth, scattering mesquite, palmeo. Rolling land, ----- 79.92 chs.
	South, on a random line bet. secs. 32 & 33.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
53.00	Intersect N. bdy. T. 19 S. R. 32 E. at pt. 57 lks. E. of cor. of secs. 4 & 5, At point of intersection, I Set a granite stone 24x12x10 ins. 18 ins. in ground for closing cor. of secs. 32 & 33, marked CC. on N. with 2 notches on W. & 4 grooves on E. faces & raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. No bearings available. From this closing cor. I run, North, on true line bet. secs. 32 & 33. Over rolling land, through scattering mesquite brush.
13.00	Set a granite stone 20x12x10 ins. 15 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face & raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
18.00	Headquarter ranch house of San Simon Cattle Co. brs. E. 25 chs.

Subdivision of T. 18 S. R. 32 E.

Chains

38.00 Wood road, brs. NW. & SE.
 53.00 To cor. of secs. 20,21, 28 & 29.
 Land, rolling. Soil, 2nd rate, gravelly.
 No timber. Undergrowth, mesquite.
 Rolling land, 53.00 chs.
 At this cor. at noon, I set off 22° 54' N. on the decl.
 arc and observe the sun on the meridian.
 The resulting lat. is 31° 50' N.

S.0° 1' W. bet. secs. 3 & 4.
 Over rolling land.
 40.00 Set a granite stone 20x12x10 ins. 15 ins. in ground for
 1/4 sec.cor. marked 1/4 on W. face and raise a mound of stone
 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.
 80.00 Set a white granite stone 30x12x10 ins. 23 ins. in ground
 for cor. of secs. 3,4,9 & 10, marked with 5 notches on
 S. & 3 notches on E. edges and raise a mound of stone
 2 ft. base 1 1/2 ft. high W. of cor.
 No bearings available. Pits impracticable.
 Land, rolling. Soil, 2nd rate, gravelly.
 No timber. Scattering navajo brush & mesquite.
 Rolling land,----- 80.00 chs.

West, on a random line bet. secs. 4 & 9.
 49.00 Set temp. 1/4 sec.cor.
 80.04 Intersect N. & S. line at point 5 lks.S.of cor.of secs.
 4,5, 8 & 9, whence I run,
 S.89° 58' E. on a true line bet. secs. 4 & 9.
 Over rolling land,through scattering mesquite & navajo
 brush.

27.00 Road, Rodeo to Paradise, brs. NW. & SE.
 40.02 Set a granite stone 20x12x10 ins. 15 ins. in ground for
 1/4 sec.cor. marked 1/4 on N. face and raise a mound of stone
 2 ft. base 1 1/2 ft. high N.of cor. No bearings available.
 80.04 To cor. of secs. 4,5,8 & 9.
 Land, rolling. Soil, 3rd rate, gravelly.
 No timber. Scattering mesquite & navajo brush.
 Rolling land, ----- 80.04 chs.

S.0° 1' W. bet. secs. 9 & 10.
 Over rolling land, through scattering mesquite and
 navajo brush.
 40.00 Set a granite stone 20x12x10 ins. 15 ins. in ground for
 1/4 sec.cor.marked 1/4 on W.face & raise a mound of stone
 2 ft. base 1 1/2 ft.high W.of cor. No bearings available.
 52.00 Road, brs. WNW. & ESE.
 80.00 Set a granite stone 18x12x10 ins. 12 ins. in ground for
 Cor. of secs.9,10,15 & 16, marked with 4 notches on S.&
 3 notches on E. edges & raise a mound of stone 2 ft.
 base 1 1/2 ft. high W. of cor. No bearings available.
 Land,rolling. Soil,3rd rate,sandy,gravelly.
 Scattering mesquite & navajo brush, vegetation scanty.
 Rolling. land, ----- 80.00 chs.

N.89° 58' W.on a random line bet.secs. 9 & 16.
 40.00 Set temp. 1/4 sec. cor.
 80.10 Intersect N.& S.line at point 14 lks.S.of cor.of secs.
 8,9,16 & 17, whence I run,
 S.89° 52' E. on a true line bet. secs. 9 & 16.
 Over rolling land, through dense mesquite.
 21.00 Road, brs. ENE. & WSW.
 40.05 Set a granite stone 20x12x10 ins. 15 ins.in ground for
 1/4 sec.cor.marked 1/4 on N.face & raise a mound of stone 2
 ft.base 1 1/2 ft.high N.of cor. No bearings available.
 66.65 Telephone line Rodeo to Paradise, brs. NW. & SE.
 80.10 To cor. of secs. 9,10,15 & 16.
 Land,rolling. Soil,gravelly,sandy,2nd & 3rd rate.
 No timber. Undergrowth, mesquite.
 Land covered with dense undergrowth 80.10 chs. July 4, 1909.

Subdivision of T. 18 S. R. 32 E.

Chains	July 5, 1909. At 7h a.m., l.m.t., at the cor. of secs. 9, 10, 15 & 16, I set off 22° 51' N. on the decl. arc and 31° 52' N. on the lat. arc and determine a true meridian with the solar. Thence I run, South, bet. secs. 15 & 16. Over rolling land, desc. grad. through scattering mesquite. Telephone line, Rode to Paradise, brs. NW. & SE. Enter open flat, brs. E. & W. Road, brs. E. & W. Set a granite stone 20x8x6 ins. 15 ins. in ground for ¼ sec. cor. marked ¼ on W. face and dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. & raise a mound of earth 3½ ft. base ½ ft. high W. of cor. No bearings available. Main wash or draw, 150 lks. wide, course E. Build mound of small stones on line. House of R. Avary brs. E. 16 chs. dist. Set a granite stone 24x15x12 ins. 18 ins. in ground for cor. of secs. 15, 16, 21 & 22, marked with 3 notches on S. & E. edges and 18 S. on NE., 32 E. on SE. faces, and dig pits 18x18x12 ins. in each sec. 5½ ft. dist. & raise a mound of earth 4 ft. base 2 ft. high W. of cor. No bearings available. Land, Rolling. Soil, 2nd rate, sandy. No timber. scattering mesquite. Rolling land, ----- 80.00 chs.
40.00	N. 89° 52' W. on a random line bet. secs. 16 & 21. Set temp. ¼ sec. cor.
80.06	Intersect N. & S. line at point 5 lks. N. of cor. of sess. 16, 17, 20 & 21, whence I run, S. 89° 54' E. on a true line bet. secs. 16 & 21. Over rolling land, through dense mesquite. desc. grad.
40.03	Set a limestone 20x12x8 ins. 15 ins. in ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone 2 ft. base ½ ft. high N. of cor. No bearings available.
80.06	To cor. of secs. 15, 16, 21 & 22. Land, rollin. Soil, 2nd rate, sandy, loamy, gravelly. No timber. Undergrowth, mesquite. Rolling land covered with dense undergrowth, 80.06 chs.
38.00	S. 0° 1' W. bet. secs. 21 & 22. Over rolling land, smooth & open. Wire fence, brs. N. 10° E. & S. 10° W. Enter pasture of Stover, McAlister, & Avary.
40.00	Set a granite stone 20x10x6 ins. 15 ins. in ground for ¼ sec. cor. marked ¼ on W. face and raise a mound of stone 2 ft. base ½ ft. high W. of cor. No bearings available. House of James McAlister brs. S. 89½° E. 26 chs. dist.
80.00	Wire fence brs. E. & W. Leave pasture.
80.00	Set a granite stone 20x12x10 ins. 15 ins. in ground for Cor. of secs. 21, 22, 28 & 27, marked with 2 notches on S. & 3 notches on E. edges, and dig pits 18x18x12 ins. in each sec. 5½ ft. dist. & raise a mound of earth 4 ft. base 2 ft. high W. of cor. No bearings available. Land, rolling, Soil, 2nd & 3rd rate, sandy, gravelly. No timber or undergrowth. Rolling, land, ----- 80.00 chs.
40.00	N. 89° 54' W. on a random line bet. secs. 21 & 28 Set temp. ¼ sec. cor.
80.10	Intersect N. & S. line at point 9 lks. S. of cor. of secs. 20, 21, 28 & 29, whence I run, S. 89° 50' E. on a true line bet. secs. 21 & 28. Over rolling land, desc. grad. through dense mesquite.
40.05	Set a granite stone 18x10x6 ins. 12 ins. in ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone 2 ft. base ½ ft. high N. of cor. No bearings available.
80.10	To cor. of secs. 21, 22, 27 & 28. Land, rollin. Soil, 2nd rate, gravelly. Undergrowth, mesquite Rolling land covered with dense undergrowth, 80.10 chs.

Subdivision of T. 18 S. R. 32 E.

Chains	S. 0° 1' W. bet. secs. 27 & 28. Over rolling land, through scattering mesquite.
14.20	Wire fence, brs. E. & W. Leave mesquite, enter pasture of G. C. McCabe.
40.00	Set a granite stone 18x10x5 ins. 12 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. & raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor. No bearings available. Windmill & tank of G. C. McCabe brs. S. 82° W. 14 chs. dist.
53.70	Wire fence, brs. E. & W. leave pasture of McCabe.
54.10	Middle of land, brs. E. & W.
54.50	Wire fence, brs. N. 83 $\frac{1}{2}$ ° E. & S. 33 $\frac{1}{2}$ ° W. enter pasture of W. H. Davis.
80.00	Set a granite stone 15x10x5 ins. 10 ins. in ground for Cor. of secs. 27, 28, 33 & 34, marked with 1 notch on S. & 3 notches on E. edges, dig pits 18x18x12 ins. in each sec 5 $\frac{1}{2}$ ft. dist. & raise a mound of earth 4 ft. base 2 ft. high W. of cor. No bearings available. House of W. H. Davis brs. S. 24° 10' W. 11 chs. dist. Land, rolling. Soil, 2nd rate, sandy, loamy. good grass. No timber. Undergrowth, scattering mesquite. sage brush. Rolling land, ----- 80.00 chs.
	N. 89° 50' W. on a random line bet. secs. 28 & 33.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. & S. line at point 7 lks. N. of cor. of secs. 28, 29, 32 & 33, whence I run, S. 59° 53' E. on a true line bet. secs. 28 & 33. Over rolling land. desc. grad.
40.04	Set a granite stone 20x10x8 ins. 15 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and dig pits 18x18x12 ins. E. & W. of stone 3 ft. dist. & raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor. No bearings available.
61.85	Wire fence, brs. N. & S. Enter pasture of W. H. Davis.
80.08	To cor. of secs. 27, 28, 33 & 34. Land, rolling. Soil, 2nd rate, sandy, gravelly, loamy. No timber. Undergrowth, scattering mesquite. Good grass. Rolling land, ----- 80.08 chs.
	S. 0° 1' W. bet. secs. 33 & 34. Over rolling land.
3.00	Draw, 2 chs. wide, course NE.
4.00	Wire fence, brs. E. & W. Enter field of W. H. Davis.
19.00	Wire fence, brs. E. & W. Leave field " " "
40.00	Set a granite stone 20x10x10 ins. 15 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. & raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor. No bearings available.
53.13	Intersect N. Bdy. of T. 19 S. R. 32 E. at point 87 lks. E. of cor. of secs. 3 & 4. At point of intersection, I set a granite stone 20x10x6 ins. 15 ins. in ground for closing cor. of secs. 33 & 34, marked C.C. on N., with 4 grooves on W. & 2 grooves on E. faces and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. No bearings available. At this cor. at noon, I set off 22° 49' N. on the decl. arc and observe the sun on the meridian. The resulting lat. is 31° 48 $\frac{1}{2}$ ' N. Land, rolling. Soil, 2nd rate, sandy. No timber, or undergrowth. Good native grass. Rolling land, ---- 53.13 chs.
	As the old cor. of secs. 3 & 4. on N. bdy. of T. 19 S. R. 32 E. is in a very dilapidated condition, almost obliterated, I destroy same and at original cor. point, I set a granite stone 14x10x6 ins. 9 ins. in ground for cor. of secs. 4 & 9 on N. bdy. of T. 19 S. R. 32 E., marked with 4 grooves on W. & 2 grooves on E. faces & raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high S. of cor. No bearings available. The flag left by me at cor. of secs. 4 & 5, brs. N. 39° 47' W. I leave flag at this cor.

Subdivision of T. 18 S. R. 32 E.

Chains

S. 0° 1' W. bet. secs. 2 & 3.

Over gently rolling valley.

40.00 Set a granite stone 20x14x12 ins. 15 ins. in ground for 1/4 sec.cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.

80.00 Set a granite stone 30x15x12 ins. 23 ins. in ground for cor. of secs. 2,3, 10 & 11, marked with 5 notches on S. & 2 notches on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.

Land, rolling, level. Soil, 2nd rate, sandy, gravelly. No timber or undergrowth. Rolling land, ----- 80.00 chs.

West on a random line bet. secs. 3 & 10.

40.00 Set temp. 1/4 sec.cor.

80.00 Intersect N. & S. line at point 7 lks. S. of cor. of secs. 3,4, 9 & 10, whence I run,

S. 89° 57' E. on a true line bet. secs. 3 & 10.

Over rolling land, desc. gently, though scattering navajo brush.

40.00 Set a granite stone 20x10x6 ins. 15 ins. in ground for 1/4 sec.cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. No bearings available.

80.00 To cor. of secs. 2,3,10 & 11. Land, rolling. Soil, sandy, gravelly. No timber. Undergrowth, scattering navajo brush & mesquite. Rolling land, 80.00 chs.

East bet. secs. 2 & 11.

Over rolling land,

21.53 Intersect E. bdy. of Arizona at point, whence

352 mile cor. brs. N. 44. 80 chs.

353 mile cor. brs. S. 35.16 chs.

Set a granite stone 24x15x10 ons. 18 ins. in ground for closing cor. of secs. 2 & 11, marked with 5 grooves on S. & 1 groove on N. face, and CC. on W. N.M. on E. faces and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available. Pits impracticable.

Rolling land, 21.53 chs.

S. 0° 1' W. bet. secs. 10 & 11.

Over level, sandy, gravelly, barren flat.

40.00 Set a granite stone 20x12x10 ins. 15 ins. in ground for 1/4 sec.cor. marked 1/4 on W. face and dig pits 18x18x12 ins N. & S. of stone 3 ft. dist. & raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor. No bearings available.

80.00 Set a granite stone 24x15x12 ins. 18 ins. in ground for Cor. of secs. 10,11,14 & 15, marked with 4 notches on S. & 2 notches on E. edges and raise a mound of stone covered with earth 4 ft. base 2 ft. high W. of cor. No bearings available.

Land, level, soil, 3rd rate, sandy, gravelly. No undergrowth. Level land, 80.00 chs.

N. 89° 57' W. on a random line bet. secs. 10 & 15

40.00 Set temp. 1/4 sec.cor.

80.00 Intersect N. & S. line 2 1/2 lks. S. of cor. of secs.

9,10,15 & 16, whence I run, over rolling land,

S. 89° 56' E. on a true line bet. secs. 10 & 15 .

19.74 Main road, Rodeo to Paradise, brs. NW. & SE. enter barren flat.

40.00 Set a granite stone 20x10x6 ins. 15 ins. in ground for 1/4 sec.cor. marked 1/4 on N. face and raise a mound of stone covered with earth 4 ft. base 2 ft. high N. of cor.

80.00 To cor. of secs. 9,10,15 & 16. Land, rolling, level. Soil, 3rd rate, sandy, gravelly. No timber. Undergrowth, scattering mesquite, vegetation very scanty.

Rolling or level land, ---- 80.00 chs.

July 5, 1909.

Subdivision of T. 18 S. R. 32 E.

Chains	<p>July 6, 1909. At 7h a.m., l.m.t. at the cor. of secs. 10, 11, 14 & 15, ✓ I set off 22° 45' N. on the decl. arc and 31° 52' N. on the lat. arc and determine a true meridian with the solar, thence I run, East bet. secs. 10 & 14. Over level sandy flat. 21.54 Intersect E. bdy. of Arizona at point whence, 353 mile cor. brs. N. 44.86 chs. 354 mile cor. brs. S. 35.10 chs. Set a granite stone 20x8x6 ins. 15 ins. in ground for closing cor. of secs. 11 & 14, marked C.C. on W., N.M. on E., with 2 grooves on N. & 4 grooves on S. faces and dig pits 24x18x12 ins. crosswise on line N. & S. of stone 3 ft. & W. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. No bearings available. Land, rolling, level. soil, 3rd rate, gravelly. barren. Rolling land, ----- 21.54 chs.</p>
30.00	<p>S. 0° 1' W. bet. secs. 14 & 15. Over open level plain.</p>
40.00	<p>Enter very dense heavy palmeo, brs. E. & W. Set a granite stone 20x10x8 ins. 15 ins. in ground for ¼ sec. cor. marked ¼ on W. face, dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor. No bearings available.</p>
50.00	<p>Leave palmeo, brs. E. & W., enter open plain.</p>
60.50	<p>Road, Rodeo, to Paradise, brs. NW. & SE.</p>
62.40	<p>Wire fence, brs. NW. & SE. Enter pasture of Stover, Avary & McAlister.</p>
80.00	<p>Set a granite stone 20x12x10 ins. 15 ins. in ground for cor. of secs. 14, 15, 22 & 23, marked with 3 notches on S. & 2 notches on E. edges and dig pits 18x18x12 ins. in each sec. 5½ ft. dist. & raise a mound of earth 4 ft. base 2 ft. high W. of cor. No bearings available. Land, level. Soil, 2nd rate, sandy, clayey, loamy. No timber. Undergrowth, palmeo. Good grass last ½ mile. Level land, ----- 60.00 chs. Land covered with dense undergrowth, 20.00 chs.</p>
40.00	<p>N. 89° 56' W. on a random line bet. secs. 15 & 22. set temp. ¼ sec. cor.</p>
80.04	<p>Intersect cor. of secs. 15, 16, 21 & 22, whence I run, S. 89° 56' E. on a true line bet. secs. 15 & 22. Over level grassy plain.</p>
6.00	<p>Wire fence, brs. N. & S.</p>
16.00	<p>House of L.J. Stover brs. S. 4 chs. dist.</p>
40.02	<p>Set a granite stone 20x10x10 ins. 15 ins. in ground for ¼ sec. cor. marked ¼ on N. face and dig pits 18x18x12 ins. E. & W. of stone 3 ft. dist. & raise a mound of earth 3½ ft. base 1½ ft. high N. of cor. No bearings available</p>
77.00	<p>Telephone line, Rodeo to Paradise, brs. NW. & SE.</p>
80.04	<p>To cor. of secs. 14, 15, 22 & 23. Land, level. Soil, 2nd rate, sandy, loamy. good grass. No timber or undergrowth. Rolling or level land, ---- 80.04 chs.</p>
3.00	<p>East bet. secs. 14 & 23. Wire fence, brs. N. & S. Leave pasture of Stover, Avary & McAlister.</p>
12.00	<p>Wind mill and tank of San Simon Cattel Co. brs. N. 10 chs.</p>
19.60	<p>Road, Paradise to Rodeo, brs. NW. & SE.</p>
21.64	<p>Intersect E. bdy. of Arizona at point whence, 354, mile cor. brs. N. 44.82 chs. 355 mile cor. brs. S. 35.20 chs. Set a granite stone 20x12x8 ins. 15 ins. in ground for closing cor. of secs. 14 & 23, marked CC. on W., N.M. on E., with 3 grooves on N. & S. faces, and dig pits 24x18x12 ins. N. & S. of stone 3 ft., & W. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level; soil, 2nd rate, sandy, loamy, good grass. No timber or undergrowth. Level land, 21.64 chs.</p>

Subdivision of T. 18 S. R. 32 E.

Chains S.0° 1' W. bet. secs. 22 & 23.
 Over level open plain.

2.00 Telephone line Rodeo to Paradise, brs. NW. & SE.

40.00 Set a granite stone 15x10x10 ins. 10 ins. in ground for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on W. face and dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base 2 ft. high W. of cor. No bearings available. House of L. Avary brs. N.60° E. 15 chs. dist.

45.00 Wire fence, brs. E. & W. leave pasture of Stover, McAlister & Avary.

47.50 Wire fence brs. E. & W. Enter pasture of J.A.Lemmons.

80.00 Set a granite stone 15x10x10 ins. 10 ins. in ground for Cor. of secs. 22,23, 26 & 27, marked with 2 notches on S. & E. edges, dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist. & raise a mound of earth 4 ft. base 2 ft. high W. of cor. No bearings available.

Land, rolling, level. Soil, 2nd rate, sandy, loamy.
 Good native grass.
 Rolling or level land, 80.00 chs.

N.89° 56' W. on a random line bet. secs. 22 & 27.

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

80.08 Intersect cor. of secs. 21,22,27 & 28, whence I run, S.89° 56' E. on a true line bet. secs. 22 & 27.
 Over gently rolling valley.

13.35 Wire fence, brs. N. & S. Enter pasture of J.A.Lemmons.

40.04 Set a granite stone 20x8x8 ins. 15 ins. in ground for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on N. face and dig pits 18x18x12 ins. E. & W. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.No bearings available. House of John A. Lemmons brs. S. 60° E. 6 chs. dist.

80.08 To cor. of secs. 22,23,26 & 27.
 Land, level, rolling. Soil, 2nd rate, sandy, loamy.
 No timber or undergrowth, Good native grass.
 Level land, -----80.08 chs.

East bet. secs. 23 & 26.
 Over rolling or level land.

6.50 Wire fence, brs. N. & S. Leave pasture of J.A.Lemmons.

21.60 Intersect E. bdy. of Arizona at point whence,
 355 mile cor. brs. N. 44.80 chs.
 356 mile cor. brs. S. 35.10 chs.

Set a granite stone 18x10x8 ins. 12 ins. in ground for closing cor. of secs. 23 & 26, marked CC on W., N.M. on E., with 4 grooves on N. & 2 grooves on S. faces and dig pits 24x18x12 ins. crosswise on line N. & S. 3 ft. & W. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. No bearings available.

Land, level. Soil, 2nd rate, sandy. good native grass.
 Level land, ----- 21.60 chs.

At this cor. at noon, I set off 22° 43' N. on the decl. arc and observe the sun on the meridian.
 The resulting lat. is 31° 50' N. ✓
 From this cor. House of James Franklin brs S. 23° W. 4 chs. dist.

Subdivision of T. 18 S. R. 32 E.

Chains	S.0° 1' W. bet. secs. 26 & 27. Over level valley.
11.75	Wire fence brs. E. & W. Leave pasture of J.A.Lermans.
40.00	Set a granite stone 15x10x6 ins. 10 ins. in ground for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on W. face, dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available. House of G.C.McCabe brs. N.55° E. 23 chs. dist. House of Samuel Avary brs. N.36° E. 18 chs. dist.
51.25	Wire fence, brs. E. & W.
51.75	Wire fence, brs. E. & W.
80.00	Set a granite stone 18x12x10 ins. 12 ins. in ground for cor. of secs. 26, 27, 34 & 35, marked with 1 notch on S. & 4 notches on E. edges and dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. No bearings available. Land, level. Soil, 2nd rate, sandy gravelly, loamy. No timber or undergrowth, Fine native grass. Rolling or level land, ----- 80.00 chs.
	N.39° 56' W. on a random line bet. secs. 27 & 34.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.06	Intersect cor. of secs. 27, 28, 33 & 34, whence I run, S. 89° 56' E. on a true line bet. secs. 27 & 34. Over gentl rolling land.
40.03	Set a granite stone 15x10x6 ins. 10 ins. in ground for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on N. face, dig pits 18x18x12 ins. E. & W. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor. No bearings available.
(27.00)	Wire fence brs. N. & S. Leave pasture of W. H. Davis.
80.06	To cor. of secs. 26, 27, 34 & 35. Land level, rolling. Soil, 2nd rate, sandy. Good grass. Rolling or level land, ----- 80.06 chs.
	East bet. secs. 26 & 35.
21.20	Wire fence, brs. N. & S.
21.60	Intersect E. bdy. of Arizona at point whence, 356 mile cor. brs. N. 44.96 chs. 357 mile cor. brs. S. 34.90 chs. Set a granite stone 15x12x12 ins. 10 ins. in ground for closing cor. of secs. 26 & 35, marked CC on W., N.M. on E. with 5 grooves on N. & 1 groove on S. faces, and dig pits 24x18x12 ins. crosswise on each line N. & S. 3 ft., and W. of stone 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. No bearings available. House of L. Leatherman brs. N.23° W. 22 chs. dist. Land, rolling, level. Soil, 2nd rate, sandy. Good grass. Rolling or level land, ----- 21.60 chs.
	S.10° 1' W. bet. secs. 34 & 35. Over gently rolling valley.
12.85	Wire fence, brs. E. & W. Enter pasture of Forrest Hughes.
40.00	Set a granite stone 15x10x8 ins. 10 ins. in ground for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on W. face and dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available. House of Forrest Hughes brs. N. 45° W. 14 chs. dist.
52.95	Wire fence, brs. E. & W., enter lane.
53.40	Intersect N.bdy. of T. 19 S. R. 32 E. at point 90 lks.E. of cor. of secs. 2 & 3. Set a granite stone 15x12x6 ins. 10 ins. in ground for closing cor. of secs. 34 & 35, marked CC on N. with 4 grooves on E. & 2 grooves on W. faces and dig pits 24x18x12 ins. E. & W. 3 ft. & N. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. No bearings available. Land, rolling. Soil, 2nd rate, sandy. Fair grass. Rolling or level land, 53.40 chs.

Subdivision of T. 18 S. R. 32 E.

Chains

Noting that the cor. of secs. 2 & 3 on N. bdy. of T. 19 S. R. 32 E. is in a very dilapidated condition, almost obliterated, I destroy the old cor. and at orig. cor. point, I Set a granite stone 12x10x6 ins. 8 ins. in ground for cor. of secs. 2 & 3 of T. 19 S. R. 32 E., marked with 4 notches on W. & 2 notches on E. edges, and dig pits 24x24x12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high S. of cor. No bearings available.

From this cor. the cor. of secs. 3 & 4 on N. bdy. of T. 19 S. R. 32 E. is plainly visible, and brs. N. 89° 47' W. The closing cor. of Tps. 18 & 19 S. R. 32 E. on E. bdy. of Arizona brs. S. 89° 47' E.

July 6, 1909.

General Description.

This township embraces a variety of lan, being rough and mountainous along the Western portion, descending thence over a rolling valley to the level plain along the Eastern portion.

There is considerable oak timber in the western part. The eastern portion is a rich sandy loam with very little undergrowth, covered mostly with a good growth of native grass.

There is very little water in the township except in the wells of the settlers.

There a number of settlers in the eastern part, who have built more or less substantial houses, erected windmills and are successfully cultivating considerable areas of the rich valley land mostly by the dry farming process dependant upon the summer rains for water, which has been found sufficient ordinarily.

The names of the various settlers are as follows :-

Frank Sanford, in sec. 13.

R. Avary, in sec. 15.

L. J. Stover & Jas. McAlister in sec. 22.

San Simon Cattle Co. in secs. 14 & 33.

L. Avary in secs. 23

J. A. Lemmons & Ed. Lemmons in sec. 27

Jas. Franklin, G. C. McCabe, S. Avary, and L. Leatherman in sec. 26.

W. H. Davis, in sec. 33.

F. Hughes, in sec. 34.

G. C. McCabe also has windmill & improvements in sec. 28.

These settlers are energetic and industrious and are successfully raising quantities of cane, kaffir corn, and beans on what has been heretofore a dry plain.

Inasmuch as I employed all my assistants from among the settlers in the immediate vicinity of the work and there being no Notary Public or other officer with seal duly qualified to administer oaths, available without incurring great delay and considerable expense, I was compelled to administer the preliminary and final oaths to my assistants.

Jesse Bellright
U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

a, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

Subdivision of T. 18 S. R. 32 E.

showing the respective capacities in which they acted:

Levi J. Stover, Chainman.

William Clich, Chainman.

Lee English, Moundman.

Frank Sanford, Moundman.

Joseph Tompkins, Axman.

James McWister, Axman.

Bertram Clich, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B. Wright

a, United States Deputy Surveyor, in surveying all those parts or portions of the

Subdivision of T. 18 S. R. 32 E.

of the Gila &

Salt River Base & meridian, Terr. 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

Levi J. Stover X, Chainman.

William Clich, Chainman.

Lee English, Moundman.

Frank Sanford, Moundman.

Joseph Tompkins, Axman.

James McWister, Axman.

Bertram Clich, Flagman.

Subscribed and sworn to before me this 6th

of July, 1909



Jesse B. Wright
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B. Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 9th day of February, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

Subdivision of T. 18 S. R. 32 E.

of the Gila & Salt River Base & meridian, in the Terr. of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Jesse B. Wright
United States Deputy Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me

this 9th day of July, 1909

W. H. ...
U.S. Commissioner



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

John ... July 20 - 1909, 1909

The foregoing field notes of the survey of Subdivisional lines of T. 18 S. R. 32 E., Gila and Salt River Base and Meridian, Arizona

executed by Jesse B. Wright, U.S. Dep. Sur under his contract No. 154, dated July 9, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank 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 Sur