

Book 6
4-679

1830

1830

BOOK 1830

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of
Township No. 9 South, Range No. 26 East.
of the

-1830-

Of the Gila and Salt River Baseline Meridian,
in the Territory of Arizona

AS SURVEYED BY

Philip Cohen

United States Deputy Surveyor,

Under his Contract No. *110*, dated *February 10*, ~~189~~ *1904*

Survey commenced *May 2*, ~~189~~ *1904*

Survey completed *May 14*, ~~189~~ *1904*

1830

BOOK 1830
NAMES AND DUTIES OF ASSISTANTS.

John M. Boyer, Chairman

E. C. Dietrich, Chairman

Ruford Marting, Axman

Clavel Lee, Axman

Breck Cash, Moundman

Charles B. Gould, Flagman

BOOK 1830

INDEX DIAGRAM.

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WE, John M. Fryer and E. C. Dietrich
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

Subdivisions of T9 S, R26 E

John M. Fryer, Chainman. ✓
Edgar C. Dietrich, Chainman. ✓

Subscribed and sworn to before me this 21
day of May, 1891904



Philip Contzen
U. S. Deputy Surveyor
(no notary available)

WE, Buck Cash and

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

the subdivisions of T9 S, R26 E

Buck Cash, Moundman. ✓
Moundman.

Subscribed and sworn to before me this 21
day of May, 1891904



Philip Contzen
U. S. Deputy Surveyor
(no notary available)

WE, Ruford Martinez and

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

the subdivisions of T9 S, R26 E

Claud Lee, Axman. ✓
Rafael Martinez, Axman. ✓

Subscribed and sworn to before me this 21
day of May, 1891904



Philip Contzen
U. S. Deputy Surveyor
(no notary available)

I, Charles R Gould, 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 T9 S, R26 E

Charles R Gould, Flagman. ✓

Subscribed and sworn to before me this 21
day of May, 1891904



Philip Contzen
U. S. Deputy Surveyor
(no notary available)

Chambers

Survey commenced May 2, 1904, and executed with a H. and P. E. Gurby light mountain transit, No. 4307, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the surveyor general for Arizona April 24, 1904.

I examined the adjustments of the transit, and correct the level and collimation errors. Then, to test the solar apparatus by comparing its indications, resulting from solar observations made during a. m. and p. m. hours with a meridian determined by observations on Polaris, I proceeded as follows:

At the cor. of secs 1, 2, 35 and 36, on the E. cdy. of the S/4, as heretofore described. Latitude $32^{\circ} 35' N$; Longitude $89^{\circ} 36' 58'' W$. I set off $32^{\circ} 35' N$ on the lat. arc, $15^{\circ} 28' N$ on the decl. arc, and at $4^{10} m$ p. m. l. m. t. determined with the solar meridian, and mark a point thereon, on a stone firmly set in the ground, 5 chs. N. of the cor.

May 2, 1904.

May 3: At $4^{45} m$ a. m., by my watch, which is correct I observed Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station.

At $7^{50} m$ a. m. l. m. t. I lay off the azimuth of Polaris $1^{\circ} 26'$ to the West and mark the meridian thus determined, by cutting a small groove in the stone set May 2, in which the meridian falls $1/2$ in East, of the mark determined by the solar.

At $8^{00} m$ a. m. l. m. t. I set off $32^{\circ} 35' N$ on the lat. arc, $15^{\circ} 41' N$ on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs. N. of my station; this mark falls 0.2 in East of the meridian established by the Polaris observation.

The solar apparatus, by p. m. and a. m. observations, defines positions for meridians, respectively about $0' 21''$ East and $0' 19''$ East of the meridian established by the Polaris observations. Therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at $5^{10} m$ a. m. is

Subdivision of S. 9 S, R. 26 E.

Chain N. 18° 32' W. the angle thus determined gives the mag. decl. 12° 32' E.

Plum & run
N. with, bet. sec. 25 and 26, on S. side guide markings.
Over gently rolling land, through dense undergrowth.

12.50 Dry wash, 20 lbs wide, course N. Easterly.

40.00 Set a firm post, 3 ft long, 4 in sq, with marked stem, 24 in in the ground, for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ S 35 on N. and 36 on E. face; dig pits 18x18x12 in, N. and S. of post 3 ft dist, and raise a mound of earth $3\frac{1}{2}$ ft base, 1 $\frac{1}{2}$ ft high, N. of cor.

76.65 Dry wash, 20 lbs wide, course E. thence N. Easterly.

80.00 Set a firm post, 3 ft long, 4 in sq, with charred stem, 24 in in the ground, for cor of sec 25, 26, 35 and 36, marked S 7 S 25 on N. E. B 26 S 36 on S. E. S 35 on S. W. and S 26 on W. W. face, with 1 notch on S. and E. edges; dig pits 18x18x12 in, in each sec $5\frac{1}{2}$ ft dist, and raise a mound of earth 4 ft base, 2 ft high, N. of cor.

Soil, sandy loam and gravelly; 2nd. and 3rd. water.
Sink, scattering magnolia, undergrowth, *trichilia*, *mosquit*, yucca and cacti.
Dense undergrowth, 8000 chs. ✓

East, on a tree line bet. sec 25 and 36.
Over level land, through dense undergrowth.

2.70 Dry wash, 20 lbs wide, course N. Easterly.

7.00 Dry wash, 20 lbs wide, course N. Easterly.

40.00 Set a sandstone, 20x10x5 in, ¹⁵ in the ground, for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on N. face; dig pits 18x18x12 in, E. and 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.

80.70 Intersect E. side of Sp. 57 the N. of the cor of sec 20 and 21, S 9 S, R 27 E, as written on described.

Set a sandstone, 18x10x10 in, 12 in in the ground, for clearing cor of sec 25 and 36, marked 6.6 on N. with 1 groove on E. and 5 grooves on N. face; dig pits 24x18x12 in, crosswise on each side, N. and S., 3 ft. and W. of stone 7 ft dist, and raise a mound of earth 4 ft base, 2 ft high, N. of cor.

Land, level and gently rolling.
 Soil, sandy loam and gravelly, and und 3rd rate.
 Timber, scattering mesquite, undergrowth, tesotilla, mesquite,
 yucca and cacti.
 Dense undergrowth, 80.76 chd. ✓

North pt. bet srec 25 and 26, on spegnicar meridional.
 Over level land through dense tesotilla undergrowth.
 40.00 Set a granite stone 18 x 10 x 8 ins 12 ins in the ground, for 1/4
 srec. cor, marked 4 on N. face; dig pits 18 x 18 x 12 ins, N. and
 S. of stone, 3 ft dist, and raise a mound of earth 3 1/2 ft base,
 1 1/2 ft high, N. of cor.
 63.00 Dry wash, 40 lbs wide, course, easterly.
 80.00 Set a granite stone, 18 x 8 x 6 ins, 12 ins in the ground, for cor of
 srec 23, 24, 25 and 26, marked with 2 notches on S. and 1
 notch on E. edge; dig pits 18 x 18 x 12 ins in each side, 5 1/2 ft
 dist, and raise a mound of earth 4 ft base, 2 ft high, N. of
 cor.

Land, rolling and level.
 Soil, sandy loam and gravelly, and und 3rd rate.
 Timber, scattering mesquite, undergrowth, tesotilla, mesquite,
 yucca and cacti.
 Dense undergrowth, 80.00 chd. ✓
 Mags: At this cor. I set off 15° 43' N. on the steel arc
 and at 12^h 4^m l. m. t., observe the sun on the meridian. The re-
 sulting lat. is 32° 37' N or within 0.1 of the proper lat.

East, on a true line bet srec 24 and 25.
 Over gently rolling land, through ^{dense} undergrowth.
 40.00 Set a granite stone, 18 x 10 x 8 ins, 12 ins in the ground, for 1/4
 srec. cor, marked 4 on N. face; dig pits 18 x 18 x 12 ins, E.
 and W. of stone, 3 ft dist, and raise a mound of earth 3 1/2
 ft base, 1 1/2 ft high, N. of cor.
 57.00 Inter dry wash, course E.
 56.00 Lower wash, course E. S. E.
 75.00 Lower wash 40 lbs wide, course N. Easterly.
 81.25 Intersect E. bdy. of Sp. 198 lbs N. of the cor of srec 19
 and 30, S. 9 S., R. 26 E. as hereof my description.
 Set a pine post 3 ft long, 4 ins sq. ^{with 1/2 inch diameter line in the ground} for closing cor of srec
 24 and 25, marked
 66 S. 9 S. R. 26 E. in N.

Station

(R)

S 25 on S and
 S 24 on N. face with 2 grooves on S. and 4 grooves on N. face.
 Dig pits 24 x 18 x 12 in, crosswise on each line, N. and S. 3 ft
 and N. of post 7 ft dist, and raise a mound of earth 4 ft
 base, 2 ft high, N. of cor.
 Land level and rolling.
 Soil, sandy and gravelly; 3rd rate.
 Timber scattering mesquite, undergrowth, mesquite, grasswood,
 trefoil, yucca and cacti.
 Denser undergrowth, 81.25 chd. ✓

N. with, but see 22 and 24, on S. E. side meridian.
 Over gently rolling land, through dense undergrowth.
 11.60 Dry wash, 15 lbs wide, corner E. S. E.
 35.50 Dry wash, 80 lbs wide, corner E. N. E.
 40.00 Set a granite stone, 20 x 10 x 8 in, 1 1/2 in in the ground for
 ✓ cor. marked 4 on N. face. Dig pits 18 x 18 x 12 in, N. side
 of stone, 3 ft dist, and raise a mound of earth 3 1/2 ft base,
 1 1/2 ft high, N. of cor.
 59.40 Dry wash, 15 lbs wide, corner E. N. E.
 70.80 Dry wash, 15 lbs wide, corner E. N. E.
 80.00 Set a granite stone, 18 x 8 x 6 in, 1 1/2 in in the ground for cor.
 R of see 13, 14, 23 and 24 marked with 3 notches on S. and 1
 notch on E. face. Dig pits 18 x 18 x 19 in, in each see, 5 1/2 ft
 dist, and raise a mound of earth 4 ft base, 2 ft high, N. of
 cor.
 Land rolling.
 Soil, sandy and gravelly; 3rd rate.
 Timber, a few mesquites, undergrowth, lesotilla, grasswood,
 mesquite, yucca and cacti.
 Denser undergrowth, 80.00 chd. ✓

East on a fur line, but see 13 and 24.
 Over rolling land, through dense grasswood.
 8.20 Dry wash, 20 lbs wide, corner N. S. E.
 40.00 Set a pine post, 2 ft long, 4 in sq, with charred stakes, 24 in
 R in the ground, for 1/2 cor. marked 4 & 18 on N. and 24 on S.
 face. Dig pits 18 x 18 x 12 in, E. and N. of post, 3 ft dist,
 and raise a mound of earth 3 1/2 ft base, 1 1/2 ft high, N. of cor.
 29.10 Bowel, bare, north and south.
 81.36 Enter on E. side of S. 162 lbs N. of cor. see 18 and 19,
 ✓

Chas. H.

S 9 S, R 27 E. as hereof on described.
Set a pine post, 3 ft long, 4 in sq, with marked stone, 2 1/2 in in the ground, for closing cor of sec 13 and 24 marked
68 S 9 S R 26 E on N.

S 24 on S and
S 13 on N. face with 3 grooves on S. and N. faces dig
pits 24 x 18 x 12 in, crosswise on each line N. and S. 3 ft
and N. of post 7 ft dist, and raise a mound of earth 4
ft base, 2 ft high, N. of cor.

Land, gently rolling.

Soil, sandy and gravelly; 3rd rate.
No timber, undergrowth, grasswood, yucca and cacti.
Dense undergrowth, 81.36 chs. ✓

May 3, 1904.

May 4. At 9^h 12^m a.m., l.m.t., I set off 32° 58' N. on the
lat. arc, 15° 59' N. on the decl. arc and determine a meridian
with the solar at the cor of sec 13, 14, 23 and 24.

Plumer & son

North, on Sec. 13th meridian, bet sec 13 and 14
Over rolling land, through dense grasswood.

19.50 Dry wash 15 lbs wide, course N. Easterly.

4.11.00 Set a granite stone 18 x 6 x 6 in, 12 in in the ground, for 1/4 sec
cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 in, N. and S. of
stone, 3 ft dist, and raise a mound of earth 3 1/2 ft base, 1 1/2 ft high,
N. of cor.

47.10 Dry wash, 40 lbs wide, course N. Easterly.

8.00.00 Set a granite stone, 18 x 8 x 7 in, 12 in in the ground, for cor of
sec 11, 12, 13 and 14 marked with 4 notches on S. and 1 notch
on E. edge; dig pits 18 x 18 x 12 in, in each, 5 ft dist, and
raise a mound of earth 4 ft base, 2 ft high, N. of cor.

Land, rolling.

Soil, sandy and gravelly; 3rd rate.
Timber scattering mesquite, undergrowth, grasswood,
resolida, yucca and cacti.
Dense undergrowth, 80.00 chs. ✓

East on a true line bet sec 12 and 13.

Over gently rolling land, through dense grasswood.

14.70 Dry wash, 15 lbs wide, course N. Easterly.

00.00 Set a granite stone 18 x 8 x 6 in, 12 in in the ground, for 1/4 sec

Chains

41.00 *PR* Set a pine post, 3 ft long, 4 ins sq, with marked stone, 24 ins in the ground, for 4 sec cor, marked 1/4 S 1 on N. and 1/2 on S face. Dig pits 18x18x12 ins, E. and W. of post, 3 ft dist and raise a mound of earth 3 1/2 ft base, 1 1/2 ft high, N. of cor.

75.56 Bound, from N. W. to S. E. and S. E. to N. W.

81.69 *PR* Entersect E. bdy of Sp. 3.00 chs N. of cor of 6 and 7, B 9 E, R 27 E, as heretofore described.

Set a pine post, 3 ft long, 4 ins ^{sq} in the ground, ^{in the ground} for closing cor of secs 1 and 12, marked 6 6 S 9 S R 26 E on N.

S 1 on S and
S 1 on N face, with 5 grooves on S and 1 groove on N. face. Dig pits 24x18x12 ins ^{crosswise} on each side, N. and S, 3 ft and N. of post 7 ft dist, and raise a mound of earth 4 ft high, 2 ft base, N. of cor.

Land, gently rolling.
Soil, sandy loam; 2nd and 3rd rate.
No timber, undergrowth, grasswood, mesquite, hrosotilla, yucca and cacti.
Dense undergrowth, 81.69 chs.

North, on the same meridian, bet sec 1 and 2.
Over gradually ascending ground through dense grasswood.

8.30 Dry wash, 15 lbs wide, course N. Easterly.

41.00 *PR* Set a pine post, 3 ft long, 4 ins sq, with marked stone, 24 ins in the ground, for 4 sec. cor, marked 1/4 S 2 on N. and 1/2 on E. face. Dig pits 18x18x12 ins, N. and S. of post, 3 ft dist and raise a mound of earth 3 1/2 ft base, 1 1/2 ft high, N. of cor.

76.28 *PR* Entersect N. bdy of Sp. 2 7 3 chs N. of cor of secs 35 and 36, S 8 S, R 26 E, as heretofore described.

Set a pine post, 3 ft long, 4 ins sq, with marked stone, 24 ins in the ground, for closing cor of secs 1 and 2, marked 6 6 S 9 S R 26 on S.

S 1 on E and
S 2 on N face, with 1 groove on E, and 5 grooves on N. face. Dig pits 24x18x12 ins ^{crosswise} on each side, E. and N. 3 ft and S of post, 7 ft dist, and raise a mound of earth 4 ft base, 2 ft high, S of cor.

Land, gently rolling.
Soil, sandy loam and gravelly; 2nd and 3rd rate.
No timber, undergrowth, grasswood, hrosotilla, yucca and cacti.

Subdivision of P. 9 S, R. 26 E.
 Collins

Druse underground, 76.28 chs. ✓

May 4, 1904.

May 5: At 7^h 10^m a.m., l.m.t., I set off 32° 35' N. on the lat wire, 16° 15' N. on the grad wire, and determined a meridian with the solar at the cor of secs 2, 3, 34 and 35, on the S. side of the Sp. as heretofore described.

Shower & rain

N. 0° 1' N., bet. secs. 34 and 35.

Over rolling land, through dense brush.

- 5.70 Dry wash, 30 lbs wide, course N. Easterly.
 - 4.00 Set a granite stone, 18x8x8 ins, 12 ins in the ground, for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on N. face. dig pits 18x18x12 ins N. and S. 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.
 - 6.3.00 Dry wash, 20 lbs wide, course Easterly.
 - 7.7.95 Dry wash, 15 lbs wide, course Easterly.
 - 8.0.00 Set a granite stone, 20x8x5 ins, $\frac{17}{8}$ ins in the ground, for cor of secs 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. side; dig pits 18x18x12 ins, in $\frac{1}{4}$ sec, 5 $\frac{1}{2}$ ft dist, and raise a mound of earth 4 ft base, 2 ft high, N. of cor.
- Land, rolling. Soil sandy loam and gravelly; 2nd and 3rd rate. No timber; underground, hospital, grasswood, yucca and cacti. Druse underground, 80.00 chs.

East, on a random line bet secs 26 and 35.

- 4.0.00 Set temp. $\frac{1}{4}$ sec. cor.
 - 7.7.96 Enterset N. and S. line 5 lbs N. of cor of secs 25, 26, 35 and 36.
- Shower & rain
- N. 89° 58' N. on a true line bet secs 26 and 35.
- Over level land, through dense brush.
- 6.95 Dry wash, 30 lbs wide, course N. E.
 - 11.45 Sun/wash, 30 lbs wide, course S. E.
 - 24.95 Sun/wash, 30 lbs wide, course N. E.
 - 39.98 Set a sandstone, 18x10x6 ins, 12 ins in the 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. Site impracticable.
 - 7.2.95 Dry wash, 20 lbs wide, course N. Easterly.
 - 7.7.96 Set cor of secs 26, 27, 34 and 35.
- Land, level and rolling.

Observations

Soil, sandy loam and gravelly; 2nd and 3rd rates.
 Timber, a few mesquites; undergrowth, trichial, mesquite, yucca
 and cacti.
 Dense undergrowth, 79.96 chs.

- N. 0° 1' W. bet sres 26 and 27.
 Over rolling land, through dense trichial undergrowth.
 21.15 Dry wash 15 lbs wide, course E.asterly.
 40.00 Set a granite stone, 18x7x7 ins, 12 ins in the ground, for $\frac{1}{4}$
 (B) sec. cor. marked $\frac{1}{4}$ on W. face; dig pits 18x18x12 ins N.
 and S. of stone 3 ft dist, and raise a mound of earth $3\frac{1}{2}$
 ft base, 12 ft high N. of cor.
 20.00 Dry wash, 15 lbs wide, course E. W. Easterly.
 80.00 Set a granite stone, 18x10x8 ins, 12 ins in the ground, for
 (B) cor. of sres 22, 23, 26 and 27, marked with 2 notches on S.
 and E. faces; 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, N. of
 cor.

Land, rolling.
 Soil, sandy loam, gravelly and stony; 2nd and 3rd and 4th rates.
 Timber, scattering mesquite; undergrowth, trichial, grass-
 wood, yucca and cacti.
 Dense undergrowth, 8.00 chs.
 May 5: At this cor. I set off 16° 18' N. on the steel arc,
 and at 12^h 5^m, l. m. t. observed the sun on the meridian;
 the resulting lat. is 32° 37' N. or within 0° 1' of the
 proper lat.

- S. 89° 58' E. on a random line bet sres 23 and 26.
 40.00 Set trap $\frac{1}{4}$ sec cor.
 79.90 Enter set N. and S. line (Sec S.W.) at the cor. of sres 23,
 24, 25 and 26.
 Showers & rain
 N. 89° 58' W. on a true line bet sres 23 and 26.
 Over rolling land, through dense undergrowth.
 21.50 Dry wash, 20 lbs wide, course N. Easterly.
 29.95 Set a pine post 3 ft long, 4 ins sq., with marked stone, 24
 ins in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S 23 on N. and
 $\frac{1}{4}$ on S. face; dig pits 18x18x12 ins E. and W. of post
 3 ft dist, and raise a mound of earth $3\frac{1}{2}$ ft base, 12 ft high,
 N. of cor.

blains

58.10 Dry wash, 15 lbs wide, course N. Easterly.
 79.90 S.W. cor of sec 22, 23, 26, and 27.
 Land, rolling.
 Soil, sandy loam and gravelly; 2nd. and 3rd. rate.
 No timber; undergrowth, *tsotilla*, *mosquito*, *yucca* and *cacti*.
 Dense undergrowth, 79.90 ch.

N. 0° 1' W. bet sec 22 and 23.
 Over rolling land, through dense brush.
 14.50 Dry wash, 60 lbs wide, course, Easterly.
 40.00 Set a sandstone, 18x8x6 ins, 12 ins in the ground, for $\frac{1}{4}$ sec
 or ev, marked $\frac{1}{4}$ on N. face; dig pits 18x18x12 ins, N. and S. 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 ev.
 51.80 Dry wash, 20 lbs wide, course N. Easterly.
 80.00 Set a point for sec ev falls in dry wash, 60 lbs wide, course N.E.
 82.00 Set a granite stone, 18x10x8 ins, 12 ins in the ground, for witness
 ev to ev of sec 14, 15, 22 and 23 marked with 3 notches on S.
 and 2 notches on E. edge, dig pits 18x18x12 ins in wash, 5
 ft dist, and raise a mound of earth 4 ft base, 2 ft high, N.
 of ev.
 Land, rolling.
 Soil, sandy loam, gravelly and stony; 2nd, 3rd and 4th rate.
 No timber; undergrowth, *tsotilla*, *mosquito*, *yucca* and *cacti*.
 Dense undergrowth, 80.00 ch. ✓

S 89° 58' E, on a random line bet sec 14 and 23, from ev
 point in wash.
 40.00 Set $\frac{1}{4}$ sec ev.
 79.90 Enter set N. and S. line 3 lbs N. of the ev of sec 13, 14, 23
 and 24.
 Shaded Brown
 N. 89° 57' W. on a true line bet sec 14 and 23.
 Over rolling land, through dense grasswood.
 39.95 Set a pine post, 3 ft long, 4 ins sq, with marked stone, 24
 ins in the ground, for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ S 14 on N. and 23
 on S. face; dig pits 18x18x12 ins, E. and W. of post 3 ft dist
 and raise a mound of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high, N. of ev.
 42.35 Dry wash, 40 lbs wide, course Northwesterly.
 79.90 S.W. cor point of sec 14, 15, 22 and 23.
 Land, rolling.

chains

Soil, sandy and gravelly; 3rd rate.
 No timber; undergrowth, grasswood, brodiaea, mesquite, yucca and cacti.
 Dense undergrowth, 79.90 chs.
 May 5, 1904.

May 6: At 7:45 a.m. I set off $32^{\circ} 38'$ N. on the
 tape. $16^{\circ} 32'$ N. on the steel wire and determine a meridian
 with the solar at the ev. point of sres 14, 15, 22 and 23.
 Thence I run
 N. $0^{\circ} 1'$ N, bet sres 14 and 15, from ev point in wash. Over rolling land, through dense brush.
 Witness ev.
 2.00 Dry wash, 20 lbs wide, course E. Easterly.
 16.50
 40.00 Set a granite stone, $18 \times 8 \times 6$ ins, 12 ins in the ground for $\frac{1}{4}$ sec
 ev., marked $\frac{1}{4}$ on N. face; dig pits $18 \times 18 \times 12$ ins, N. and S. 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 ev.
 44.95 Dry wash, 20 lbs wide, course N. Easterly.
 71.50 Dry wash, 20 lbs wide, course N. Easterly.
 79.00 Set a granite stone, $18 \times 8 \times 8$ ins, 12 ins in the ground, for witness
 ev. bet of sres 10, 11, 14 and 15, marked N. 6° with 4 notches on
 S. and 2 notches on E. edge; and raise a mound of stone, 2 ft
 base, $1\frac{1}{2}$ ft high, N. of ev. Site imperceptible.
 80.00 The point for sec ev falls in dry wash, course N. N. W.
 Land, rolling.
 Soil, gravelly and stony; 3rd and 4th rate.
 No timber; undergrowth, brodiaea, grasswood, yucca and cacti.
 Dense undergrowth, 80.00 chs.

$89^{\circ} 57'$ E, on a random line bet sres 11 and 14, from ev point.
 40.00 Set trap $\frac{1}{4}$ sec ev.
 79.70 Put a set N. and S. line, 5 lbs N. of the ev of sres 11, 12, 13
 and 14.
 Thence I run
 N. $89^{\circ} 55'$ W on a true line bet sres 11 and 14.
 Over rolling land through dense undergrowth.
 5.00 Dry wash, 20 lbs wide, course N. Easterly.
 14.10 Dry wash, 30 lbs wide, course N. Easterly.
 29.85 Set a sandstone, $18 \times 10 \times 8$ ins, 12 ins in the ground, for $\frac{1}{4}$ sec ev
 marked $\frac{1}{4}$ on N. face; dig pits, $18 \times 18 \times 12$ ins, E. and N. of stone,
 3 ft dist, and raise a mound of earth, $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft, N. of ev.

Subdivision of S. 9 S., R. 20 E.

6 chains

- 40.10 Dry wash, 15 lbs wide, course N. Easterly.
- 63.60 Dry wash, 20 lbs wide, course N. Easterly.
- 79.70 The ev point of sres 10, 11, 14 and 15.

Land, rolling.
Soil, sandy loam and gravelly; 2nd and 3rd rate.
No timber. Undergrowth, mesquite, hickory, grasswood, yucca and cacti.
Dense undergrowth, 79.70 chs.

7.01 W bet sres 10 and 11, from ev point in wash.
Over gradually ascending ground, through dense grasswood.

- 1.20 Dry wash, 10 lbs wide, course N. Easterly.
- 40.00 Set a sandstone, 18x10x8 ins, 12 ins in the ground, for 1/4 sres ev

OK marked 1/4 on W face. dig pits 18x18x12 ins N. and S. of stone 3 ft dist, and raise a mound of earth, 3 1/2 ft base, 1 1/2 ft high, N. of ev.
40.30 Dry wash, 15 lbs wide, course N. Easterly.

- 8.000 Set a granite stone, 18x10x10 ins, 12 ins in the ground, for ev of sres 2, 3, 10 and 11, marked with 5 notches on S. and 2 notches on E. edge; and raise a mound of stone, 2 ft base, 1 1/2 ft high, N. of ev. Pits impracticable.

Land, gently rolling.
Soil, gravelly and stony; 3rd and 4th rate.
No timber. Undergrowth, grasswood and hickory.
Dense undergrowth, 8.000 chs.

May 6: At this ev set off 16° 35' N. on the steel arc, and at 12^h 40^m l.m.t., observe the sun on the meridian; the resulting lat. is 32° 59' N. or within 00" of the proper lat.

- 40.00 Set temp 1/4 sres ev.
- 79.70 Enter set N. and S. line 3 lbs S. of the ev of sres 1, 2, 11 and 12.

Plumer 3 min
N. 89° 55' E, over rounded line bet sres 2 and 11.

- 38.20 Dry wash, 60 lbs wide, course Northwaly.
- 39.85 Set a pine post, 3 ft long, 4 ind sq, 24 ins in the ground, for 1/4 sres ev, marked 1/4 S. E. on N. and 11 on S. face, from which a tract, 4 ms diam, bears N. 68° E, 154 lbs dist, marked 1/4 S. E. B. S.

Chama

A mosquito, 5 mi drum, bear S. 13° E, 162 lbs dist, marked
 $\frac{1}{4}$ S 11 B S.
 51.50 Dry wash, 25 lbs wide, course Northwesterly
 71.55 Dry wash, 30 lbs wide, course N. W. Westerly.
 79.70 S hr cor of sres 2, 3, 10 and 11.
 Land, rolling.
 Soil, sandy and gravelly; 3rd rate.
 Timber, scattering mesquite and hickory; mangrove, mesquite,
 grasswood and cacti.
 Dense mangrove, 79.70 chs.

North on a true line bet sres 2 and 3.
 Over gradually descending ground through dense grasswood
 42.00 Set a sandstone, 20 x 8 x 6 ins, $\frac{15}{16}$ ins in the ground for $\frac{1}{4}$ s re cor,
 marked $\frac{1}{4}$ on N. face; dig pits 18 x 18 x 12 ins N. and S. of stone, 3
 ft dist, and raise a mound of earth 2 ft base, 1 1/2 ft high,
 N. of cor.
 76.00 Enter set N. bdy of Sp 26 4 lbs N. of cor of sres 34 and 35,
 S 8 S, R 26 E, as here for described.
 Set a sandstone, 20 x 6 x 6 ins, $\frac{15}{16}$ ins in the ground, for closing
 cor of sres 2 and 3, marked 66 on S; with 2 grooves on E
 and 4 grooves on N. face; dig pits 24 x 18 x 12 ins crosswise
 on each line, E. and N. 3 ft. and S of stone 7 ft dist, and
 raise a mound of earth 4 ft base, 2 ft high, S. of cor.
 Land, gently rolling.
 Soil, sandy loam and gravelly; 2nd and 3 rate.
 No timber; mangrove, grasswood and cacti.
 Dense mangrove, 76.00 chs.

May 6, 1904.

May 7: At 7²⁰ a.m. I met B set off 32° 35' N. on the
 lat arc. 16° 49' N. on the decl arc; and determine a meridian
 with the solar at the cor of sres 3, 4, 33 and 34 on the S bdy
 of the Sp, as here for described.
 I then B run
 N 0° 1' W bet sres 33 and 34.
 Over rolling land through dense *Lespedeza* mangrove.
 22.70 Dry wash, 20 lbs wide, course N. Easterly.
 40.00 Set a pine post, 3 ft long, 4 ins sq, with marked stone, 2 1/4 ins
 in the ground, for $\frac{1}{4}$ s re cor, marked $\frac{1}{4}$ S 33 on N, and 34 on
 E face; dig pits 18 x 18 x 12 ins, N. and S of stone, 3 ft dist

Subdivision of S. 9 S, R 26 E.

6 hours

<p>70.20 8.00 OK</p>	<p>and raise a mound of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high, N. of cor. Dry wash, 20 lbs wide, course N. Easterly. Set a granite stone, $24 \times 10 \times 8$ ins, 18 ins in the ground, for cor of ores 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. side. and raise a mound of stone 2 ft base, $1\frac{1}{2}$ ft high, N. of cor. Sets impracticable. Land, level and rolling. Soil, sandy loam, gravelly and stony; 2nd, 3rd and 4th rates. No timber; undergrowth, tricotilla, grasswood, yucca and cacti. Cane undergrowth, 8,000 lbs.</p>
<p>4.00 8.00 4.00 1.00 4.00 OK 52.30 73.15 8.00</p>	<p>East, on a random line bet ores 27 and 34. Set temp $\frac{1}{4}$ ore cor. Enter bet N. and S. line 5 lbs N. of the cor of ores 26, 27, 34 and 35 Shimel S. mm N. $89^{\circ} 58'$ W. on a true line bet ores 27 and 34. Over rolling land, through cane tricotilla undergrowth. Dry wash, 20 lbs wide, course E. S. E. Same wash, 20 lbs wide, course E. N. E. Set a granite stone $18 \times 10 \times 8$ ins, 12 ins in the ground; for $\frac{1}{4}$ ore cor, marked $\frac{1}{4}$ on N. face; dig pits $18 \times 18 \times 12$ ins, E. and 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. Dry wash, 10 lbs wide, course N. Easterly. Dry wash, 10 lbs wide, course N. Easterly. Shr cor of ores 27, 28, 33 and 34. Land, level and rolling. Soil, sandy, loam, gravelly and stony; 2nd, 3rd and 4th rates. No timber; undergrowth, mesquite, tricotilla; yucca and cacti. Cane undergrowth, 8,000 lbs</p>
<p>5.00 21.30 4.00 OK 4.95</p>	<p>4.00 N. $82^{\circ} 44'$ bet ores 27 and 28. Over rolling land, through cane tricotilla undergrowth. Dry wash, 15 lbs wide, course N. Easterly. Dry wash, 15 lbs wide, course N. Easterly. Set a granite stone, $18 \times 8 \times 8$ ins, 12 ins in the ground, for $\frac{1}{4}$ ore cor, marked $\frac{1}{4}$ on N. face; dig pits $18 \times 18 \times 12$ ins, N. and E. 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. Dry wash, 15 lbs wide, course, N. Easterly.</p>

Chain

24.00 Dry wash, 15 lbs wide, course N. Easterly.
 8.20 Set a granite stone, 18 x 10 x 8 ins, 12 ins in the ground, for cor of
 sres 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches
 on E. edge; dig pits 18 x 18 x 12 ins, in each sres, 5 1/2 ft dist, and
 raise a mound of earth 4 ft base, 2 ft high, N. of cor.
 Land, rolling.
 Soil, sandy loam and gravelly; 2nd and 3rd rates.
 No timber undergrowth, trichilla, yucca and cacti.
 Dense undergrowth, 8,000 chs.
 May 7: At this cor S set off 169 52 N. on the decl arc and
 at 12^h 4^m l. m. t. observed the sun on the meridian; the re-
 sulting lat. is 32° 37' N. or within 0° 1' of the proper lat.

89° 58' E, on a random line bet sres 22 and 27.
 4.00 Set temp 1/4 sres cor.
 80.02 Enter set N. and S. line 5 lbs S of the cor of sres 22, 23, 26
 and 27.
 Shiner Brum
 West, on a temp line bet sres 22 and 27.
 Over gently rolling land, through dense undergrowth.
 25 Dry wash, 15 lbs wide, course N. thence N. E.
 17.00 Dry wash, 25 lbs wide, course E. N. Easterly.
 40.01 Set a pine post, 3 ft long, 4 ins square, with marked stone,
 24 ins in the ground, for 1/4 sres cor, marked 1/4 S 22 on N. and
 27 on S. face; dig pits 18 x 18 x 12 ins E. and W. of post, 3 ft
 dist, and raise a mound of earth 3 1/2 base, 1 1/2 high N. of cor.
 52.80 Dry wash, 15 lbs wide, course N. Easterly
 8.22 In cor of sres 21, 22, 27 and 28.
 Land, gently rolling.
 Soil, gravelly and stony; 3rd and 4th rates.
 No timber, undergrowth, mesquite, trichilla yucca and cacti
 Dense undergrowth, 8,000 chs.

N. 0° 1/2 W. bet sres 21 and 22.
 Over rolling land, through dense undergrowth.
 13.00 Dry wash, 15 lbs wide, course N. Easterly.
 22.40 Begin ascent from rolling mesa, base N. E. and S. W.
 37.00 Post thrown over broken ground.
 41.00 Set a granite stone 20 x 8 x 6 ins, 15 ins in the ground, for 1/4 sres
 cor, marked 1/4 on N. face, and raise a mound of stone 2 ft base
 1 1/2 ft high, N. of cor. Sets impracticable.

16
Subdivision of S. 9 S, R. 26 E.

Chain

41.20 Dry wash, 10 lbs wide, course W. N. Westerly.
 73.60 Descent, bars E. and W.
 75.85 Descent steep.
 76.00 Spot, bars E. and W.
 77.10 Dry wash, 20 lbs wide, course N. Westerly.
 80.00 Set a granite stone, 18 x 10 x 8 ins, 12 ins in the ground, for cor of
 (62) sres 15, 16, 21, and 22, marked with 3 notches on S. and E. sides
 T. 9. S. on N. E. and R. 26 E. on S. faces
 and raise a mound of stone 2 ft base 12 ft high, W. of cor.
 Pits impracticable.
 Ground, rolling and broken.
 Soil, sandy, gravelly and stony; 3rd and 4th rate.
 Timber, scattering mesquite, undergrowth, brodiaea, grasswood,
 yucca and cacti.
 Dense undergrowth, 8000 chs. ✓

East, on a random line bet sres 15 and 22.
 40.00 Set temp. 1/4 sres cor.
 80.00 Enter set N. and S. line 3 lbs N. of the cor point of sres
 14, 15, 22 and 23.
 Shovel & run.
 N 89° 59' W, on a true line bet sres 15 and 22.
 Over rising ground, through dense grasswood.
 25.00 Dry wash, 20 lbs wide, course Northwesterly.
 40.00 Set a sandstone 18 x 10 x 8 ins, 12 ins in the ground, for 1/4 cor
 of cor marked 1/4 on N. face; dig pits 18 x 18 x 12 ins, E. and W. of
 stone, 3 ft dist, and raise a mound of earth 3 1/2 ft base, 12 ft
 high, N. of cor.
 43.00 Top of ridge, bars N. and S.; descent.
 51.20 Dry wash 15 lbs wide, course Northwesterly; descent.
 62.00 Top, bars N. and S.; begin descent over rolling ground.
 75.00 Spot.
 80.00 In cor of sres 15, 16, 21 and 22.
 Ground rolling.
 Soil, sandy and gravelly; 3rd rate.
 No timber, undergrowth, grasswood, mesquite, brodiaea, yucca
 and cacti.
 Dense undergrowth, 8000 chs

May 7, 1904.

May 8: At 7^h 5^m a.m. I met B set off 32° 38' N. on the
 lat line; ~~7-06~~ 7-05 N. on the del. arc, or to run a meridian

Chamberlain

with the solar at the cor of secs 15, 16, 21 and 22.

Shaner's Run

N. 0° E. W. bet secs 15 and 16.

Over level land, through dense undergrowth.

2.00

Begin ascent of S. slope of ridge.

8.75

Top, bars E. and W. descend.

14.00

Dry wash, 15 lbs wide, course W. westerly; ascend.

21.00

Top of ridge bars E. and W. descend.

27.00

Foot, bars N. E. and S. W. thence over gently rolling land.

4.00

Set a granite stone, 18x10x5 ins, 12 ins in the ground, for $\frac{1}{4}$

st

sec cor marked $\frac{1}{4}$ on N. face; dig pits 18x18x12 ins N. and E. 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.

8.00

Set a granite stone, 18x8x6 ins, 12 ins in the ground, for cor of

st

secs 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edge; 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, N. of cor.

Land, rolling.

Soil, sandy and gravelly; 3rd rate.

Timber, scattering mesquite; undergrowth, mesquite, hickory, general and cetera.

Dense undergrowth, 8.00 chd.

S. 89° 59' E, on a random line bet secs 10 and 15.

4.00 Set trip $\frac{1}{4}$ sec cor,

79.98 Enter set N. and S. line 7 lbs N. of the cor, ^{at} of secs 10, 11, 14 and 15.

Shaner's Run

N. 89° 56' W, on a true line bet secs 10 and 15, from cor point

Over rolling land, through dense undergrowth.

13.00

Begin descent over broken ground, bars N. E. and S. W.

19.80

Dry wash, 20 lbs wide, course N. westerly.

39.99

Set a sandstone, 18x10x5 ins, 12 ins in the ground, for $\frac{1}{4}$ sec

st

cor, marked $\frac{1}{4}$ on N. face; dig pits 18x18x12 ins, E. and 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; ft of broken descent, bars N. E. and S. W. thence over ground sloping N. W.

45.50

Dry wash 30 lbs wide course N. westerly.

79.40

Dry wash 30 lbs wide course N. westerly.

79.98

Set cor of secs 9, 10, 15 and 16.

Subdivision of S 9 S, R 26 E.

bound

Land, rolling and nearly level.
Soil, sandy loam, gravelly and stony; 2nd, 3rd and 4th
rate.
No timber: undergrowth, *trisetum*, *mesquite*, *grewia* and *cañon*.
Dense undergrowth, 79.98 chs.

N 0° 1' W, bet sec 9 and 10.
Over ground sloping N. W., through dense *mesquite* and
trisetum undergrowth.

- 1.50 Enter dry wash, course N.
- 17.80 Leave wash, course N. N. W.
- 35.55 Road from Safford to Wiley, bears N. and S. W.

4.00 Set a pin post, 3 ft long, 4 ins sq, 24 ins in the ground,
for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ S 9 on N. and 10 on E. face, from
which

A *mesquite*, 6 ins diam, bears S. 57 $\frac{1}{2}$ ° E, 137 lbs dist, marked
 $\frac{1}{4}$ S 10 B S.

A *trisetum*, 4 ins diam, bears S 41° W, 99 lbs dist marked
 $\frac{1}{4}$ S 9 B S.

8.00 Set a pin post, 3 ft long, 4 ins sq, 24 ins in the ground,
for ev of sec 3, 4, 9 and 10, marked

S 9 S 3 on N E,
R 26 E S 10 on S E,
S 9 on S W and

S 4 on N W face, with 5 notches on S and ~~3~~ notches on E
edges; from which

A *mesquite*, 7 ins diam, bears N. 23° E, 63 lbs dist, marked
S 9 S R 26 E S 3 B S.

A *mesquite*, 10 ins diam, bears S 20 $\frac{1}{2}$ ° E, 75 lbs dist, marked
S 9 S R 26 E S 10 B S. no other trees within limit. dig pits
18x18x12 ins, S W and N W of post, 5 $\frac{1}{2}$ ft dist, and
raise a mound of earth, 4 ft base, 2 ft high, W. of ev.

Land, gently rolling.
Soil, sandy loam and gravelly; 2nd and 3rd rate.
Timber, scattering *mesquite* and *trisetum*; undergrowth,
mesquite, *trisetum*, *grassweed*, *grewia* and *cañon*.
Dense undergrowth 8.00 chs.

May 8: At this ev I set off 17° 30' N. on the steel arc;
and at 12^h 5^m l.m.t. observed the sun by the meridian;
the resulting lat. is 32° 39' N. a within 0.1 of the
proper lat.

Subdivision

411.00 S 89° 56' E, on a true line bet s rec 3 and 10
Set temp. 1/4 sec cor.
79.80 Enters bet W and S line 10 lbs S of the cor of s rec 2, 3, 10
and 11.

Shower S run
Post, on a true line bet s rec 3 and 10.
Over rolling land, through dense grasswood.

23.50 Dry wash, 20 lbs wide, course N. Westerly.

38.90 Dry wash, 30 lbs wide, course Northwaly

39.90 Set a pin post, 3 ft long, 4 ins sq, with charred stake, 24
ins in the ground, for 1/4 sec cor, marked 1/4 S & on N. and
10 on S face; dig pits 18x18x12 ins, E. and W. of post,
3 ft dist, and raise a mound of earth 3 1/2 ft base, 1 1/2 ft
high, N. of cor.

67.45 Road from Safford to Niles, bears N. and S.

78.50 Dry wash, 40 lbs wide, course Northwaly.

79.80 S on cor of s rec 3, 4, 9 and 10.

Land, level and rolling.
Soil, sandy loam and gravelly; 2nd and 3rd rate.
No timber undergrowth, mesquites, grasswood, yucca
and cacti.
Dense undergrowth, 79.80 chs.

40:1 W, on a true line bet s rec 3 and 4.
Over ground sloping N. W. through dense undergrowth.

3.00 Dry wash, 20 lbs wide, course N. Westerly.

4000 Set a granite stone, 2x8x4 ins, 17 ins in the ground, for
1/4 sec cor, marked 1/4 on N. face; from which
A mesquite, 10 ins diam, bears S 48 1/2° E, 235 lbs dist,
marked 1/4 S 3 B S.
A tree, 4 ins diam, bears S. 32° W, 39 lbs dist, marked
1/4 S 7 B S.

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

76.09 Enters bet N. side of Sp 280, lbs W of the cor of s rec
33 and 34, S 8 E, R 26 E, as here to fore described.

Set a pin post, 3 ft long, 4 ins sq, with marked stone
24 ins in the ground, for closing cor of s rec 3 and 4
marked

S 6 S 9 S R 26 E on S,
S 3 on E, and
S 7 on W face with 3 ground on E. and W. faces, dig

Subdivision of S 9 S, R 26 E.

Chumel

Pits 24x18x12 ins, crosswise on each line, E and W, 3 ft, and S. of post, 7 ft dist, and raise a mound of earth 4 ft base, 2 ft high, S of ev.

Land, gently rolling.
Soil, sandy loam; 2nd rate.
Timber, scattering mesquite and teota; undergrowth, mesquite, teota, yucca and cacti.
Dense undergrowth, 7000 chs.

May 8, 1904.

May 9: At 7^h 15^m a.m. l. p. t.; S set off 32° 35' N, on the lat. arc; 17° 22' W on the decl arc; and determined a meridian with the solar at the ev of sres 4, 5, 32 and 33 on the S. bdy of the Sp as heretofore described.

Shmer 3 mm

N 0° 2' W, bet sres 32 and 33.

Over gently rolling land, through dense undergrowth.

12.70 Dry wash, 25 lbs wide, course N. Westerly.

33.30 Dry wash, 25 lbs wide, course N. Westerly.

39.00 Begin ascent broad N.E. and S. W.

41.00 Set a granite stone, 18x10x10 ins, 12 ins in the ground, for $\frac{1}{4}$ sres ev, marked $\frac{1}{4}$ on W face, and raise a mound of stone, 2 ft base, 1 1/2 ft high, W. of ev. Pits impracticable.

42.30 Top of spur, extending N; ascend.

45.50 Dry wash, 10 lbs wide, course Westerly; ascend.

57.50 Top, broad E. and W; begin steep ascent.

63.20 Dry wash, 30 lbs wide, course Westerly; ascend.

77.00 Top, broad E. and W.

81.00 Set a granite stone, 18x10x7 ins, 12 ins in the ground, for ev of sres 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edge; dig pits 18x18x12 ins in each sres, 5 1/2 ft dist, and raise a mound of earth, 4 ft base, 2 ft high, W. of ev.

Land, mountainous and level.

Soil, sandy loam, gravelly and stony; 2nd, 3rd and 4th rate.
Timber, scattering mesquite; undergrowth, teota, lachata, yucca and cacti.

Mountainous, or land covered with dense undergrowth, 8000 chs.

to line

East on a random line bet sres 28 and 33.

40.00 Set trip $\frac{1}{4}$ sres ev.

80.00 Putors set N. and S. line at the ev of sres 27, 28, 32 and 34.

Plumer Corn
 West, on a true line, bet sec 28 and 29.
 Over rolling land, through dense grasswood.
 13.00 Bond from Sufford to Wilcox, bears N. and S.
 15.60 Dry wash, 15 chs wide, course N. Easterly.
 44.00 Set a sandstone, 18x8x6 ins, 12 ins in the ground, for $\frac{1}{4}$ sec
 E, marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft
 base, 12 ft high, N. of cor. Sets impracticable.
 44.70 Dry wash, 10 chs wide, course N. Easterly; as usual.
 74.10 Set, bears NW and S.W.
 80.00 E. cor of sec 28, 29, 32 and 33.
 Land, rolling and mountainous.
 Soil, gravelly and stony; 3rd and 4th rate.
 No timber, undergrowth, grasswood, brodiaea, yucca and cacti.
 Mountains, or land covered with dense undergrowth, 8000 chs.

N. 0° 2' W bet sec 28 and 29.
 Along top of spur.
 3.00 Begin descent through dense brush, bears E. and W.
 31.00 Set, bears NW and SW. thence over rolling land.
 40.00 Set a sandstone, 20x8x6 ins, 15 ins in the ground, for $\frac{1}{4}$ sec cor,
 marked $\frac{1}{4}$ on N. face, dig pits 18x18x12 ins N. and S. of stone
 2 ft dist, and raise a mound of earth 5 $\frac{1}{2}$ ft base, 12 ft high,
 N. of cor.
 80.00 Set a sandstone, 18x8x8 ins, 12 ins in the ground, for cor of
 sec 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches
 on E. edge; 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, N. of cor.
 Land, mountainous and rolling.
 Soil, gravelly and stony; 3rd and 4th rate.
 No timber, undergrowth, brodiaea, yucca and cacti.
 Mountains, or land covered with dense undergrowth,
 8000 chs.
 May 9: At this cor. I set off 17° 24' N. on the decl. arc, and
 at 12 $\frac{3}{4}$ m, I set, observe the sun on the meridian. The result-
 ing lat. is 32° 37' N. or within 0° 1' of the proper lat.

East, on a random line bet sec 21 and 28.
 40.00 Set trans $\frac{1}{4}$ sec cor.
 80.00 Put a set N. and S. line 10 chs S of the cor of sec 21, 22
 27 and 28.

Subdivision of S 9 S, R 26 E.

L. Harris

	<p>Shower Barn S. 89° 56' W, on return line bet s rec 21 and 28. Over rolling land, through dense undergrowth.</p>
14.15	Dry wash, 15 lbs wide, course N. Easterly.
26.28	Road from Safford to Pibox, bears W. and S.
26.70	Big in descent over broken ground, bears W. and S. W.
32.70	Dry wash, 15 lbs wide, course N. Westerly.
41.00	Set a granite stone, 18 x 12 x 10 ins, 12 ins in the ground, for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ on N. face; dig pits 18 x 18 x 12 ins, E. and 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 ev.
46.70	Dry wash, 30 lbs wide, course N. Westerly.
8.00	In ev of s rec 20, 21, 28 and 29. Land, rolling and broken. Soil, gravelly and stony; s rec and 4 th rate. No timber; undergrowth, trees, mesquite, yucca and cacti. Dense undergrowth, 8,000 chs.
	<p>N 0° 2' N, bet s rec 20 and 21. Over rolling land, through dense undergrowth.</p>
2.30	Dry wash, 25 lbs wide, course Westerly.
4.00	Set a granite stone, 18 x 10 x 7 ins, 12 ins in the ground, for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ on W. face, from which A tree, 7 ins diam, bears S. 39° E, 122 lbs dist, marked $\frac{1}{4}$ S 21 B S. A tree, 5 ins diam, bears N. 44° W, 143 lbs dist, marked $\frac{1}{4}$ S 20 B S.
40.50	Dry wash, 25 lbs wide, course N. Westerly.
45.10	Dry wash, 15 lbs wide, course N. Westerly.
8.00	Set a granite stone, 18 x 10 x 8, 12 ins in the ground, for ev of s rec 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. edge; from which A mesquite, 7 ins diam, bears S. 84 $\frac{1}{4}$ ° W, 276 lbs dist, marked S 9 S R 26 E S 20 B S; no other trees within limit and raise a mound of stone, 2 ft base, 1 $\frac{1}{2}$ ft high, W. of ev. Pits impracticable. Land, rolling. Soil, sandy, gravelly and stony; s rec and 4 th rate. Timber, scattering mesquite and tree; undergrowth, tree, yucca and cacti. Dense undergrowth, 8,000 chs.

chain

- 7.89°56' E, on a random line bet sres 16 and 21.
 4.00 Set trap $\frac{1}{4}$ sec. ev.
 79.90 Enter set N. and S. line 5 lbs N. of the cor of sres 15, 16, 21 and 22.
 Shiner, Brown
 S 89°58' W, on a trap line bet sres 16 and 21.
 Over land, through dense undergrowth.
 2.60 Dry wash, 30 lbs wide, course N. Westerly.
 9.00 Board
 13.00 Pop, thinned over land sloping N. W.
 33.45 Pond from Safford to Wiley, bars N. and S.
 39.95 Set a sandstone, 20x8x5 in, 17 in in the ground, for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ on N. face, from which
 A mosquito, 5 in diam, bears S. 40° E, 58 lbs dist, marked $\frac{1}{4}$ S 27 B S.
 A mosquito, 5 in diam, bears N. 28° W, 84 lbs dist, marked $\frac{1}{4}$ S 16 B S.
 41.70 Dry wash, 35 lbs wide, course Northwly.
 54.80 Dry wash, 25 lbs wide, course Northwly.
 63.47 Pond, bars N. W. and S. E.
 72.70 Dry wash, 15 lbs wide, course N. Westerly.
 79.90 S. cor of sres 16, 17, 20 and 21.
 Land, rolling and level.
 Soil, sandy and gravelly; Ord natl.
 Timber, scattering mosquito and tosta; undergrowth, tosta, mosquito, yucca and cacti.
 Dense undergrowth, 79.90 chs.

May 9, 1904.

- May 10: At 7^h 20^m a. m., I met S set off 32°38' N. on the lat. wire; 17°38' W from the merid. wire, and determined a meridian with the solar at the cor of sres 16, 17, 20 and 21.
 Shiner Brown
 N. 0°2' W, bet sres 16 and 17.
 Over land sloping N. W. through dense undergrowth.
 17.65 Dry wash, 20 lbs wide, course N. Westerly.
 42.00 Set a granite stone, 18x8x6 in, 12 in in the ground, for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ on N. face; dig pits 18x8x12 in N. and S of stone, 3 ft dist, and raise a mound of earth $3\frac{1}{2}$ ft base, 12 ft high, N of cor.
 8.00 Set a quartz stone, 18x8x6 in, 12 in in the ground, for cor of

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Subdivision of S 9 S, R 26 E.

Chain

OK
Sacs 8, 9, 16 and 17, marked with 4 notches on S. and E. edge,
from which (2 in. dist)
A mesquite, 7 in. diam, bears S. 17 1/4° E, 183 lbs dist, marked
S 9 S R 26 E S 16 B 3.
A mesquite, 8 in. diam, bears N. 42° W, 68 lbs dist, marked
S 9 S R 26 E S 8 B 3; no other trees available; dig pits 18x18x12
in. N. and S. W. of stone, 5 1/2 ft dist, and raise a mound of
earth 4 ft base, 2 ft high, W. of ev.
Land, gently rolling.
Soil, sandy loam; 2nd rate.
Timber, a few mesquites; undergrowth, trestle, mesquite, grass-
wood, yucca and cacti.
Dense undergrowth, 8000 chs.

N. 89° 58' E, on a random line bet sacs 9 and 16.
4000 Set trap 1/4 sec ev.
79.86 Bitterset N. and S. line 10 lbs ^{W.} of the ev of sacs 9, 10, 15
and 16.
Plum 3 run
S 89° 54' W, on a true line bet 9 and 16.
Over sharply rolling land, through dense undergrowth
9.97 Pond, from Safford to Wiley, bears N. and S.
19.70 Dry wash, 25 lbs wide, course Northwly
28.15 Dry wash, 15 lbs wide, course N. Westwly.
37.85 Dry wash, 40 lbs wide, course Northwly. Thinner over ground
sloping N. W.
39.95 Set a pine post, 3 ft long, 4 in. sq., with marked stone, 24 in.
in the ground, for 1/4 sec ev, marked 1/4 S 9 on N. and 16 on S.
face; dig pits 18x18x12 in., E. and W. of post 3 ft dist and
raise a mound of earth, 3 1/2 ft base, 1 1/2 ft high, W. of ev.
61.25 Dry wash 60 lbs wide, course N. N. Eastwly.
67.20 Pond, bears N. W. and S. E.
79.86 1/4 sec ev of sacs 8, 9, 16 and 17.
Land, rolling.
Soil, sandy and gravelly; 2nd rate.
Timber, scattering mesquites; undergrowth, grasswood, mesquite,
trestle, yucca and cacti.
Dense undergrowth, 79.86 chs.

N. 0° 2' W, bet sacs 8 and 9.
Over ground sloping N. W, through dense undergrowth

15.25 Bond, bears N. W. and S. E.
 25.20 Bond, bears N. E. and S. W.
 4.000 Set a quartz stone 20x8x5 in, 15 in in the ground, for 1/4 sec
 ev, marked 4 on N. face; dig pits 18x18x12 in, N. and S. of
 stone, 3 ft dist, and raise a mound of earth 3 1/2 ft base, 1 1/2 ft
 high, N. of ev.
 8.000 Set a quartz stone 24x8x8 in, 18 in in the ground, for ev of
 sec 4, 5, 8 and 9, marked with 5 notches on S. and 4 notches
 on E edge; from which
 A total, 5 in diam, bears S 29° E, 143 lbs dist, marked
 S 9 S R 26 E S 9 S; no other bears within limit, dig pits
 18x18x12 in, N. E. S. W. and N. W. of stone, 5 1/2 ft dist, and raise
 a mound of earth 4 ft base, 2 ft high, N. of ev.
 Ground gently rolling.
 Soil, sandy loam; 2nd rate.
 timber, scattering mesquite and locust; undergrowth,
 trisota, grasswood, cacti.
 Dense undergrowth, 8000 ch.
 May 19: At this ev. I set off ~~at the~~ N. in the mer. arc, and
 at 12^h 4^m l. m. t. observed the sun on the meridian; the resulting
 lat is 32° 39' N or within 0.1' of the proper lat.

N. 89° 54' E, on a random line bet sec 4 and 9.
 4.000 Set temp 1/4 sec ev.
 79.98 Intersect N. and S. line at the ev of sec 3, 4, 9 and 10.
 Shovel 0 mm
 S 89° 54' N, on a random line bet sec 4 and 9.
 Area gently rolling land, through arid grasswood.
 20.70 Dry wash, 30 lbs wide, course N. easterly.
 38.00 Dry wash, 25 lbs wide, course N. easterly.
 39.99 Set a sandstone, 18x10x6 in, 12 in in the ground, for 1/4 sec
 ev, marked 4 on N. face; dig pits 18x18x12 in, E. and W.
 of stone, 3 ft dist, and raise a mound of earth, 3 1/2 ft base,
 1 1/2 ft high, N. of ev.
 53.11 Bond, from Suffolk to Wilcox, bears NW and SE.
 55.80 Dry wash, 15 lbs wide, course N. easterly.
 69.88 Bond, bears N. W. and S. E.
 71.43 Bond, bears N. and S.
 79.98 In ev of sec 4, 5, 8 and 9.
 Ground, level and gently rolling
 Soil, sandy loam; 2nd and 3rd rate

Subdivision of S9 S, R26 E.

Chumia

Timber, scattering mesquite, undergrowth, mesquite, tricola, grasswood, yucca and cactus.
Dense undergrowth 79.98 cha.

19.05
40.00
OK

N. 0° 2' W, on a true line bet s res 4 and 5.
Over ground sloping N. W, through dense mesquite undergrowth
Bound, bears N. N. and S. E.

Set a pin post 3 ft long, 4 ins sq, with marked stone 2 1/4 ins in the ground, for 1/4 sec cor, marked 4 & 5 on W, and 6 on E face; dig pits 18 x 18 x 12 ins, N. and S. of post, 3 ft dist, and raise a mound of earth 3 1/2 ft base, 1 1/2 ft high, W of cor; from this cor. School house bears N. 58° W, about 1/2 mile dist; Whaley's house bears N. 69 1/4° W, about 1/2 mile dist; Sisson's house bears N. 50 1/2° W, about 1/2 mile dist.

76.30
OK

Enter set N. by of the Sp 330 lbs W. of the cor of s res 32 and 33, S 8 S, R 26 E, as heretofore described.

Set a sandstone, 20 x 6 x 5 ins, 1 1/2 ins in the ground, for closing cor of s res 4 and 5, marked 6 6 on S, with 4 grooves on E and 2 grooves on W. face; dig pits 24 x 18 x 12 ins, crosswise on each line, E. and W. 3 ft, and S. of stone 7 ft dist, and raise a mound of earth 4 ft base, 2 ft high, S of cor.

Land, level and gently rolling.
Soil, sandy loam, 1st and 2nd rates.
Timber, mesquite, undergrowth, mesquite, tricola, baccharis, and Yucca eretia.
Dense undergrowth, 76.30 cha.

May 10, 1904.

May 11: At 7^h 20^m A.M. I set off 32° 35' N. on the lat. arc, 179° 53' W. on the decl arc, and determined a meridian with the solar at the cor of s res 5, 6, 31 and 32, on the S. by of the Sp, as heretofore described.

Same 3 am
N. 0° 2' W, bet s res 31 and 32.

Over mountainous land, ascending.

2.00
17.00
28.00
40.00

2.00 Gulch, 30 lbs wide, course N. W. westerly, ascending.
17.00 Top of ridge, 300 ft above gulch, bears E. and W, descend
28.00 Gulch, 30 ft below top of ridge, 30 lbs wide, course N. W.; thence over ground sloping N. W, through dense undergrowth,
40.00 Set a sandstone, 18 x 10 x 6 ins, 1 1/2 ins in the ground, for 1/4 sec

Chambers

Subdivision of Sq S, R 26 E.

ev, marked $\frac{1}{4}$ on N face; dig pits 18x18x12 ins, N. and S. 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 ev.

61.80 Bond, E. and W.

80.00 Set a sandstone, 18x10x7 ins, 12 ins in the ground, for ev of sec 29, 30, 31 and 32, marked with 1 notch on S, and 5 notches on E. side; 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, N. of ev.

Land, gently rolling, mountainous and level.

Soil, sandy loam, gravelly, stony and rocky; 3rd and 4th strata.

Timber, a few mesquite, undergrowth, toota, mesquite, yucca and cacti.

Mountainous, or land covered with dense undergrowth, 8000 ch.

East, on a random line bet sec 29 and 32.

41.00 Set temp $\frac{1}{4}$ sec ev.

80.00 Enter set N. and S. line at the ev of sec 28, 29, 32 and 33.

Hyper B, run

West, on a true line bet sec 29 and 32.

Over mountainous, along top of spur.

270 Beg in descent over broken ground, through dense undergrowth.

31.00 Set, bears N. and S. W. Turn over gently rolling land.

39.20 Dry wash, 30 lbs wide, course Northwly.

40.00 Set a sandstone, 18x10x6 ins, 12 ins in the ground, for $\frac{1}{4}$ sec ev. marked $\frac{1}{4}$ on N. face; dig pits 18x18x12 ins, E. and 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 ev.

43.70 Bond from Safford to Fort Grant, bears N. and S.

45.20 Dry wash, 100 lbs wide, course Northwly.

49.85 Dry wash, 30 lbs wide, course Northwly.

56.00 Dry wash, 15 lbs wide, course Northwly; us end.

64.27 Bond, bears N. and S.

69.00 Top, bears N. and S. begin gradual descent.

80.00 Str ev of sec 29, 30, 31 and 32.

Land, rolling, level & broken.

Soil, sandy, gravelly and stony; 3rd and 4th strata.

Timber, scattering mesquite and toota; undergrowth, mesquite, toota, yucca and cacti.

Dense undergrowth, 8000 ch.

Chassis

- 4.00.00 Set trip $\frac{1}{4}$ sec ev.
- 79.40 Enter set W. side of Sp 10 lbs N. of the ev of sec 25, 30, 31 and 36, as here before described.
- Shiner, 8 mm
N. $89^{\circ} 56' E$, on a trans line bet sec 30 and 31.
Over rolling land, ascending through dense undergrowth
- 2.00 Set, brass N. and S. observed.
- 5.00 Foot. enter bring a valley, brass N. and S.
- 8.00 Old road, brass N. and S.
- 15.10 Bring a wash, (dry), 40 lbs wide, course Northwly.
- 22.93 Old road, brass N. and S.
- 34.04 Grave valley, brass N. and S. thorn in draw.
- 39.10 Set a sandstone, $20 \times 12 \times 3$ ins, 15 ins in the ground, for $\frac{1}{4}$ sec ev marked $\frac{1}{4}$ on N. face; dig pits, $18 \times 18 \times 12$ ins, E. and W. of stone, 3 ft dist, and raise a mound of earth, $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high, 2 of ev.
- 45.80 Old road, brass N.W. and S.E.
- 58.00 Grave draw, course W.; begin gradual ascent.
- 79.40 Set ev of sec 29, 30, 31 and 32.
Land, level and gently rolling.
Soil, sandy, loam, and gravelly; 2nd and 3rd rate.
Pine, scattering mesquite; undergrowth, mesquite, toad, locust, buckeye, yucca and oak.
Dense undergrowth, 79.40 chs.
May 11: At this ev. I set off $9^{\circ} 55'$ N on the steel arc, and at $12^h 2^m$ P.M. observe the sun on the meridian; the true lat. is $32^{\circ} 36' N$ or within $0.1'$ of the proper lat.
-
- N. 0.2' N, bet sec 29 and 30
Over gently rolling land, through dense undergrowth.
- 4.00.00 Set a prism post, 3 ft long, 4 ins sq, with marked stone, 24 ins in the ground, for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ 830 on N. and 29 on E. face; dig pits, $18 \times 18 \times 12$ ins N. and E. of post, 3 ft dist, and raise a mound of earth, $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high, N. of ev.
- 76.50 Dry wash, 15 lbs wide, course W.
- 78.20 Same wash, 15 lbs wide, course N.W.
- 79.40 Same wash, 15 lbs wide, course N. Easterly.
- 8.00.00 Set a granite stone, $20 \times 12 \times 10$ ins, 15 ins in the ground, for ev of sec 19, 20, 29 and 30, marked with a notch on E. and 5 notches on E. ridge, from which

shams

82

A msqnt, 6 ins diam, bears N. 63 1/4° E, 145 lbs dist, marked 39 S, B 26 E S 20 13 S.

A msqnt, 8 ins diam, bears N. 68 1/4° W, 99 lbs dist, marked 39 S, B 26 E S 17 13 S; no other true writing limit, and raised a mound of stone, 2 ft base, 1 1/2 ft high, N. of cov. Pits impracticable.

Land, gently rolling.

Soil, sandy loam and gravelly; 2nd and 3rd rate.

Timber, scattering msqnt, undergrowth, bruta, msqnt, yucca and cacti.

Dense undergrowth, 8000 chs.

East, on a random line bet sees 20 and 29.

4000 Set trap 1/4 sec cov.

8000 Entrance N. and S line 5 lbs S of the cov of sees 20, 21, 28 and 29.

Shovel Drum

S 89° 58' W, on a true line bet sees 29 and 29.

Descending over broken ground, through dense undergrowth.

12.70 Dry wash, 15 lbs wide, course N. West by.

35.80 Dry wash, 30 lbs wide course N. West by.

4000 Set a granite stone, 18 x 10 x 10, 12 ins in the ground, for 1/4

sec cov, marked 1/4 on N. face; dig pits, 18 x 18 x 12 ins, E.

and N. of stone 3 ft dist, and raised a mound of earth 3 1/2 ft base, 1 1/2 ft high, N. of cov.

61.00 Dry wash, 90 lbs wide course North by; used

63.95 Road from Safford to Fort Grant, bears N. and S.

73.20 Top, thmes over gently rolling land.

76.50 Dry wash, 15 lbs wide, course N. East by.

8000 Entrance of sees 19, 20, 29 and 30.

Land, level, broken and gently rolling.

Soil, sandy and gravelly; 3rd rate.

Timber, scattering msqnt, undergrowth, bruta, msqnt, yucca and cacti.

Dense undergrowth, 8000 chs. ✓

S. 89° 56' W, on a random line bet sees 19 and 30.

4100 Set trap 1/4 sec cov.

79.30 Entrance W. side of the SA, 10 lbs S. of the cov of sees 19, 24, 25 and 30, as heretofore described.

Shovel Drum

Chumie

Subdivision of Sq S, R 26 E.

East, on a true line bet secs 19 and 30.
 Over rolling land, ascending.

7.00 Foot, under draw, course N.

8.50 Dry wash, 30 lbs wide, course N.

12.00 Low draw; ascend.

23.00 Pop, bears N. and S; descend.

37.00 Foot, under bridge valley, bears N.W. and S.W.

39.30 Set a sandstone, 9x6x6 in, 12 in in the ground, for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on N. face, from which
 A juno, 12 in diam, bears S. 41° W, 193 lbs dist, marked $\frac{1}{4}$ S 30 13 S.
 A tosta, 7 in diam, bears N. 43° W, 61 lbs dist, marked $\frac{1}{4}$ S 19 13 S.

45.50 Bridge wash, 100 lbs wide, course Northwly.

50.00 Low valley; begin steep ascent.

52.00 Pop, bears N. and S.

60.10 Dry wash, 20 lbs wide, course Northwly.

63.80 Road, bears N.W. and S.W.

79.30 Shovel of secs 19, 20, 29 and 30.
 Land, rolling and level.
 Soil, sandy and gravelly; 3rd rate.
 Timber, mesquite, tosta and juno; undergrowth, tosta, mesquite, chumigo, yucca and each.
 Dense undergrowth, 79.30 chs.

May 12, 1904.

May 12: At 7^h 10^m a.m., I met S and set off 32° 37' N on the lat. 18° 9' N. on the decl. arc and determined meridian with the solar at the cor of secs 19, 20, 29 and 30.

Shovel Bony
 N. 0° 2' W, bet secs 19 and 20.
 Ascending from cor.

6.00 Pop, bears N.W. and S.W.; begin ascent over broken ground

32.70 Road, bears N. N.W. and S. S.W.

40.00 Set a granite stone, 18x8x8 in, 12 in in the ground, for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on W. face; dig pits 18x18x12 in N. and S of stone, 3 ft dist, and raise a mound of earth 3 1/2 ft dia, 1 1/2 ft high, N. of cor

68.00 Foot, bears N.W. and S.E.

78.00 Road from Safford to Fort Grant, bears N. N.W. and S. S.E.

79.50 Dry wash, 10 lbs wide, course N.N.W.

8000 Set of granite stones, 20x12x8 ins, 12 ins in the ground, for cor of
 / sres 17, 18, 19 and 20, marked with 3 notches on S. and 5
 notches on E. edge; from which
 A mesquite, 6 ins diam, bears N. 20° E, 191 lbs dist, marked
 T9 S R26 E S 17 B 3.
 A tree, 8 ins diam, bears S 66 1/2° E, 173 lbs dist, marked
 T9 S R26 E S 20 B 3.
 A mesquite, 6 ins diam, bears S 152° W, 48 lbs dist, marked
 T9 S R26 E S 19 B 3.
 A mesquite, 6 ins diam, bears N. 57 1/2° W, 20 lbs dist, marked
 T9 S R26 E S 18 B 3.
 Land, broken and level.
 Soil, sandy loam, gravelly and stony; 2nd, 3rd and 4th rates.
 Timber, scattering mesquite and tree; undergrowth,
 tree, mesquite, yucca and cacti.
 Dense undergrowth, 8000 chs.

4000 N. 89° 58' E, on a random line bet sres 17 and 20.
 Set trap 1/4 sec cor.
 8000 Porters set N. and S. line at the cor of sres 16, 17, 20 and 21.
 Plumey Bram
 S 89° 58' W, on a true line bet sres 17 and 20.
 Over land sloping N. W. through dense undergrowth.
 3.60 Dry wash, 15 lbs wide, course N. W. westerly.
 27.70 Dry wash, 20 lbs wide, course N. W. westerly.
 4000 Set of sandstone, 20x8x6 ins, 17 ins in the ground, for 1/4 sec
 cor, marked 1/4 on N. face; sig pits 15x13x12 ins, E and W. of
 spot, 3 ft dist, and raise in mound of earth 3 1/2 ft base, 1 1/2 ft
 high, N. of cor.
 58.40 Dry wash, 15 ft wide, course N. W. westerly.
 60.70 Begin ascent
 6500 Port, bears N. and S
 66.55 Road, bears N. and S.
 72.40 Dry wash, 20 lbs wide, course N. W. westerly.
 79.75 Dry wash, 10 lbs wide, course Northwesterly.
 8000 Set cor of sres 17, 18, 19 and 20.
 Land, gently rolling and level.
 Soil, sandy and gravelly; 3rd rate.
 Timber, scattering mesquite; undergrowth, tree, mesquite,
 yucca and cacti.
 Dense undergrowth, 8000 chs.

Subdivision of S9 S, R26 E

bluffs

West on a random line bet secs 18 and 19.
 40.00 Set trap $\frac{1}{4}$ sec cor.
 79.20 Enter set N. bdy of the Sp 10 lbs S. of the cor of secs 13, 18, 19 and 24, as herebefore described.
 Primer found
 S 89° 56' E, on a true line bet secs 18 and 19.
 Over rolling land, through dense undergrowth.
 .60 Begin steep descent over boulders.
 6:20 Ent. entry to ringed valley; bars N. and S.
 11.45 Dry wash, 40 lbs wide, course Northwly.
 12.50 Ringed wash, 100 lbs wide, course Northwly.
 21.00 Dry wash, 40 lbs wide, course Northwly.
 25.10 Road, bars N. and S.
 30.40 Road, bars N. and S.
 39.20 Set a sandstone, 18 x 12 x 10 ins, 12 ins in the ground, for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on N. face, from which
 A tricola, 6 ins diam, bears S 77 $\frac{1}{2}$ ° W, 158 lbs dist, marked $\frac{1}{4}$ S 19 B S.
 A mesquite, 8 ins diam, bears N 5 $\frac{1}{4}$ ° W, 140 lbs dist, marked $\frac{1}{4}$ S 18 B S.
 43.20 Dry wash, 40 lbs wide, course Northwly.
 53.20 Cross valley and begin steep ascent.
 68.00 Popl, bars N. and S. descend.
 78.85 Road from Safford to Fort Grant, bars N. N. W. and S. S. E.
 79.20 E. cor. of secs 17, 18, 19 and 20.
 Land, level and rolling.
 Soil, sandy, gravelly, stony and rocky; 3rd and 4th rates.
 Timber, mesquite, tricola and jumo; undergrowth, tricola, mesquite, chamizo, yucca and cacti.
 Dense undergrowth, 79.20 chs.
 May 12. At this cor I set off 18° 11' W on the steel gyl. and at 12 $\frac{1}{2}$ m. I observe the sun on the meridian, the resulting lat is 32° 38' N. within 0'1" of the proper lat.

N 0° 2' N, bet secs 17 and 18.
 Over level land, through dense undergrowth.
 2.50 Dry wash, 10 lbs wide, course N. Westerly.
 32.00 Ascent
 34.00 Popl, bars N. W. and S. E. Thru over gently rolling land.
 40.00 Set a sandstone, 20 x 8 x 6 ins, 15 ins in the ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on N. face, dig pits 18 x 18 x 12 ins, N. and S. of

80.00 Set a sandstone, 18x8x7 ins, 12 ins in the ground, for cor of
 sec 7, 8, 17 and 18, marked with 4 notches on S. and 5 notches
 on E. edge; dig pits 18x18x12 ins, in each sec 5 1/2 ft dist,
 and raise a mound of earth 4 ft base, 2 ft high, N. of cor.
 Land, gently rolling and level.
 Soil, sandy and gravelly; 2nd rate.
 Timber, scattering mesquite; undergrowth, brodiaea, mesquite,
 yucca and cacti.
 Dense undergrowth, 80.00 chs.

40.00 Set trap 1/4 sec cor.
 80.00 Enter set N. and S. line 20 lbs S. of the cor of secs 8, 9, 16
 and 17.
 Shiner Brum
~~589° 50' W~~
 589° 50' W, on a true line bet secs 8 and 17.
 Over gradually descending ground through dense brush.
 11.90 Road, from Dufford to Fort Grant, cross N. and S.
 39.00 Dry wash, 25 lbs wide, course N. Easterly.
 41.70 Set a pine post, 3 ft long, 4 ins sq, with marked stone, 2 1/4
 ins in the ground for 1/4 sec cor, marked 1/4 S 8 on N. and 1/4
 on S. face; dig pits 18x18x12 ins, E and W. of post, 3 ft dist
 and raise a mound of earth, 3 1/2 ft base, 1 1/2 ft high, N. of cor.
 62.00 Dry wash, 25 lbs wide, course N. Westerly.
 80.00 Set cor of secs 7, 8, 17 and 18.
 Land, gently rolling and level.
 Soil, sandy loam; 2nd and 3rd rate.
 No timber; undergrowth, brodiaea, mesquite, yucca and cacti.
 Dense undergrowth, 80.00 chs.

40.00 Set trap 1/4 sec cor.
 79.20 Enter set W. by of the Sp 5 lbs N. of the cor of secs
 7, 12, 18 and 18, as heretofore described.
 Shiner Brum
 589° 58' E, on a true line bet secs 7 and 18.
 Over level land, through dense undergrowth.
 4.00 Dry wash, 30 lbs wide, course Northwily
 4.50 Land, draw; as usual.

Subdivision of S 9 S, R 26 E.

chains

- 2.00 Top, bars N. and S. enter broken ground.
- 30.00 Dry road.
- 38.00 Foot. enter Cornaga valley, bars N. and S.
- 39.20 Set a granite stone, 18 x 8 x 6 ins, 12 ins in the ground, for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ on N. face, from which
 - (K) A tree, 10 ins diam, bars N. $50\frac{1}{2}^{\circ}$ E, 156 lbs dist, marked $\frac{1}{4}$ S 7° B.S.
 - A tree, 12 ins diam, bars S. 54° E, 66 lbs dist, marked $\frac{1}{4}$ S 15° B.S.
- 42.00 Cornaga wash, 90 lbs wide, course Northwaly.
- 54.85 Pond, bars N. and S.
- 62.44 Pond, bars N. and S. (Safford to Staff Summit,
- 73.05 Dry wash, 60 lbs wide, course Northwaly; head valley and begin strip ascent.
- 75.80 Top, bars N. and S.
- 79.20 The ev of sres 7, 8, 17 and 18.
 Ground, level, broken and rolling.
 Soil, sandy and gravelly. Soil rate.
 Timber, scattering mesquite and tree, undergrowth, tree, mesquite, yucca and cacti.
 Dense undergrowth, 79.20 chs.

May 12, 1904.

- May 14: At 7^h 10^m a, m, l m & S set off 32° $39'$ N. on the lat arc; 18° $38'$ N. on the azel arc and determine a meridian with the solar at the ev of sres 7, 8, 17 and 18, Phoebe Summit
- $N 0^{\circ} 3' W$ bet sres 7 and 8.
 Over level land, through dense undergrowth.
- 11.00 Enter broken ground
 - 38.00 Begin ascent.
 - 40.00 Set a granite stone, 20 x 12 x 12 ins, 12 ins in the ground, for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ on N. face, from which
 - A mesquite, 12 ins diam, bars S. 88° E, 28 lbs dist, marked $\frac{1}{4}$ S 8° B.S.
 - A mesquite, 14 ins diam, bars S $74\frac{1}{2}^{\circ}$ N, 137 lbs dist, marked $\frac{1}{4}$ S 7° B.S.
 - 50.00 Winkersfelder house, bars 4.00 chs N. ft. of ascent, thence over level land.
 - 56.50 Well, bars 1.00 ch N.
 - 63.10 Pond, bars N. E. and S W.

Subdivision of Sq S, R 26 E.

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68.45 Pond from Safford to Fort Grant, bears N. E. and S. W.
 71.00 Same pond, bears N. W. and S. E.
 73.00 Enter heavy mesquite timber, bears N. E. and S. W.
 80.00 Set a pine post, 3 ft long, 4 ins sq, 24 ins in the ground, for
 ev of sres 5, 6, 7 and 8, marked
 S 9 S 8 5 on N. E.,
 R 26 E 8 8 on S. E.,
 S 7 on S. W. and
 S 6 on N. W. face, with 5 notches on S. and E. edge,
 from which
 A mesquite, 7 ins diam, bears N. $44\frac{3}{4}^{\circ}$ E, 99 lbs dist, marked
 S 9 S R 26 E 8 5 B S.
 A mesquite, 12 ins diam, bears S 48° E, 96 lbs dist, marked
 S 9 S R 26 E 8 8 B S.
 A mesquite, 14 ins diam, bears S $75\frac{1}{4}^{\circ}$ W, 143 lbs dist, marked
 S 9 S R 26 E 8 4 B S.
 A mesquite, 4 ins diam, bears N $70\frac{3}{4}^{\circ}$ W, 178 lbs dist, marked
 S 9 S R 26 E 8 6 B S.
 Sand, hard and broken.
 Soil, sandy loam and gravelly; 1st, 2nd and 3rd rate.
 Timber, mesquite and cotton; undergrowth, cotton, mesquite,
 cholla, yucca and cacti.
 Heavily timbered, or land covered with dense undergrowth,
 82.00 Ch. v

N. $89^{\circ} 50'$ E, on a random line bet sres 5 and 8.
 40.00 Set temp $\frac{1}{4}$ sec ev.
 80.00 Enter set N. and S. line 24 lbs N. of the ev of sres 4, 5, 8
 and 9.
 Placed 3 run
 West, on a true line bet sres 5 and 8.
 Over gradually ascending ground, through dense mesquite
 undergrowth.
 17.90 Pond, bears N. and S.
 46.00 Set a pine post, 3 ft long, 4 ins sq, with marked stakes, 24
 in the ground, for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ S 5 on N. and 8 on
 S. face, dig pits 18 x 18 x 12 ins, E. and W. of post, 3 ft dist,
 and raise a mound of earth $3\frac{1}{2}$ ft base, 12 ft high, N. of
 ev; enter heavy mesquite timber, bears N. and S.
 47.50 Enter bringa valley, bears N. and S. Dry wash, 90 lbs wide, common.
 52.40 Pond, bears N. and S.

Subdivision of S⁹ S, R 26 E.

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8.00	<p>Str ev of sec 5, 6, 7 and 8. Land, gently rolling and level. Soil, sandy loam; 2nd rate. Timber, mesquite; undergrowth, mesquite, toota, buckata, yucca and cacti. Heavily timbered, or land covered with dense undergrowth, 8.00 chs. ✓</p>
4.00	<p>N. 89° 58' W, on a random line bet sec 6 and 7. Set trap 1/4 sec ev. 79.20 Intersect N. bdy. of the Sp at the ev of sec 1, 6, 7 and 8, as per above described Plumer Plum S. 89° 58' E, on a trap line bet sec 6 and 7 Over level land, through dense undergrowth.</p>
6.00	<p>Arise and.</p>
8.00	<p>Enter bridge valley, bars N. and S.</p>
21.20	<p>Single wash, 90 lbs wide, course N. Easterly.</p>
39.20	<p>Set a pin post, 3 ft long, 4 ins sq, 24 ins in the ground, for 1/4 sec ev, marked 1/4 86 on N. and 7/8 on S. face, from which A toota, 6 ins diam, bears S 46° E, 57 lbs dist, marked 1/4 87 B.S. A toota, 5 ins diam, bears N. 23 1/4° W, 101 lbs dist, marked 1/4 86 B.S.</p>
50.20	<p>Dry wash, 20 lbs wide, course N. Easterly.</p>
75.10	<p>Road from Safford to Fort Grant, bars N. and S.</p>
76.35	<p>Road, bars N. and S.</p>
78.15	<p>Road, bars N. and S.</p>
79.20	<p>Str ev of sec 5, 6, 7 and 8. Land, level and rolling. Soil, sandy loam and gravelly; 2nd and 3rd rate Timber, scattering mesquite, toota, juno and hackberry; undergrowth, mesquite, toota, chamizo, yucca and cacti Dense undergrowth, 79.20 chs. ✓ May 14: At this ev I set off ^{13° 40' N} on the steel arc; and at 12^h 6^m l.m.t., observed the sun on the meridian; the resulting lat is 32° 39' N. or within 0° 1' of the proper lat.</p>
4.60	<p>N. 0° 2' N, on a trap line bet sec 5 and 6. Over level land, through mesquite timber and some brush.</p>
16.40	<p>Road, bars N. N. E. and S. S. W.</p>
22.00	<p>Wire fence, bars E. and W. hard timber and brush.</p>
22.00	<p>Reservoir, bars 3.00 chs E; artesian well, bars 5.00 chs E.</p>

22.30	J. Andrews, ^{purple} brass 30 lbs W.
23.92	Wire fence, brass E. and W. into field.
36.50	B. Campbell's fence, brass W. about 42.00 lbs dist.
36.66	Wire fence, brass E. and W. leave field partly and enter mesquite timber and dense undergrowth.
40.00	Set a pine post 3 ft long, 4 ins sq, 2 ft in the ground, for $\frac{1}{4}$ sec ev, marked $\frac{1}{4}$ S on W, and 5 on E. face, from which A mesquite, 8 ins diam, brass S $40\frac{1}{4}^{\circ}$ E, 48 lbs dist, marked $\frac{1}{4}$ S 5 B S. A mesquite, 6 ins diam, brass S 13° W, 148 lbs dist, marked $\frac{1}{4}$ S 6 B S.
44.20	Dry wash, 40 lbs wide, course N. Easterly.
76.19	Wire fence, brass E. and W.
76.23	Intersect N. bdy. of the Sp. 4.00 lbs W of the ev of s rec 31 and 32, S 8 S, R 26 E, as heretofore described. Set a sandstone, 18x8x6 ins, 12 ins in the ground, for closing ev of s rec 5 and 6, marked 6 on W and 5 on E, with 5 grooves on E. and 1 groove on W. face, from which A mesquite, 18 ins diam, brass S $54\frac{1}{2}^{\circ}$ E, 102 lbs dist, marked T9 S R 26 E S 5 B S. A mesquite, 24 ins diam, brass S. $75\frac{1}{4}^{\circ}$ W, 66 lbs dist, marked T9 S R 26 E S 6 B S. Sand, brk. Soil, sandy loam, 2nd rate. Timber, mesquite, undergrowth, mesquite and chumizo. Dense undergrowth, 58.97 lbs

May 14, 1904.

General Description

This township is level and gently rolling in the northwest and eastern portions, rolling and broken in the center and mountainous in the extreme southwest. The soil is mostly sandy loam and gravelly, second and third rate. There is but little grass. Mesquite timber abounds in the northwest portion of the township, with some tsota, junc, ash and walnut are found in the bringa wash, which traverses the western tier of sections. There is no running water in this township. There are two good roads crossing the township from

North to south. There are a number of settlers in
secs 5, and 6 who have developed artesian water and
have made substantial improvements.

Philip Conyers

W. B. Deputy Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed by Philip Conzen, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivision of T95R26E showing the respective capacities in which they acted:

- John M. Prager, Chairman. ✓
- E. C. Dietrich, Chairman. ✓
- Buck Cash, Moundman. ✓
- Richard Martinez, Axman. ✓
- Clarence Lee, Axman. ✓
- Charles R. Gould, Flagman. ✓

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philip Conzen, United States Deputy Surveyor, in surveying all those parts or portions of the

Subdivision of T95R26E

of the Salt River meridian, Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona

- John M. Prager, Chairman. ✓
- Edgar C. Dietrich, Chairman. ✓
- Buck Cash, Moundman. ✓
- Clarence Lee, Axman. ✓
- Rafael Martinez, Axman. ✓
- Charles R. Gould, Flagman. ✓

Subscribed and sworn to before me this 14 day of May, 189 1904



Philip Conzen U. S. Deputy Surveyor (no notary available)

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philip Centzen, 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 10 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

Subdivision Lines of T. 9 S., R. 26 E.

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

Philip Centzen
United States Deputy Surveyor.

Subscribed by said Philip Centzen, and sworn to before me }
this 17th day of May 1904, ~~189~~

Frank S. Ingalls
U.S. Surveyor General
for Arizona



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, Oct 31st 1904

The foregoing field notes of the survey of the subdivisional lines of T. 9 S., R. 26, E. of the Gila and Salt River Base and Meridian

executed by Philip Centzen under his contract No. 110, dated February 10th 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.