

1805
FIELD NOTES

BOOK 1805

OF THE SURVEY OF THE

West, South, East and North Boundaries

of
Township No. 4 South, Range No. 17 East

1805

BOOK 1805

Of the Gila and Salt River Basal and Meridian,
In the Territory of Arizona

AS SURVEYED BY

Philip Cortzen, United States Deputy Surveyor,

Under his Contract No. 114, dated March 15, 1891

Survey commenced June 21, 1891

Survey completed June 30, 1891

(1A)

NAMES AND DUTIES OF ASSISTANTS.

John M. Sawyer, J. Bernard Wright, chairman ✓

Chas. G. Aldridge, rudderman ✓

Austin A. Lynght, oxman ✓

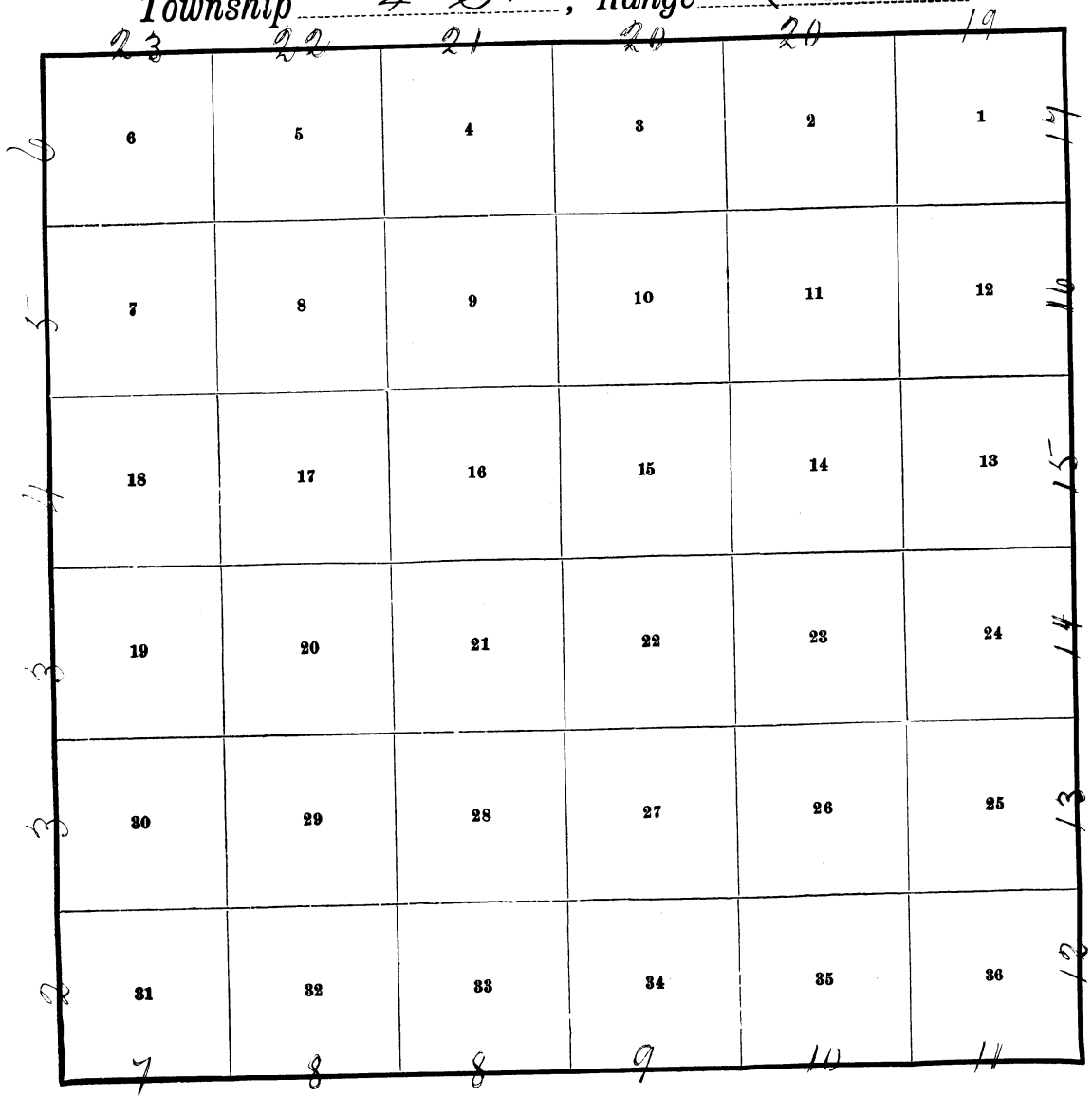
Arthur Rogers, flagman ✓

1805\

BOOK 1805

INDEX DIAGRAM.

Township 4 S., Range 17 E.



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PRELIMINARY OATHS OF ASSISTANTS.

WE, John M. Trayer and J. Bernard Wright
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

the West, South, East and North Boundaries of S 4 S. R. 17 E.

John M. Trayer, Chainman.
J. Bernard Wright, Chainman.

Subscribed and sworn to before me this 21st
day of June, 1891911.



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

WE, 9 Chesley G. Aldridge 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 West, South, East and North Boundaries of S 4 S. R. 17 E.

Chesley G. Aldridge, Moundman.
Moundman.

Subscribed and sworn to before me this 21st
day of June, 1891911.



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

WE, 9 Austin A. Lyright and

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

the West, South, East and North Boundaries of S 4 S. R. 17 E.

Austin A. Lyright, Axman.
Axman.

Subscribed and sworn to before me this 21st
day of June, 1891911.



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

I, Arthur Pogue, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

the West, South, East and North Boundaries of S 4 S. R. 17 E.

Arthur Pogue, Flagman.

Subscribed and sworn to before me this 21st
day of June, 1891911.



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

Chain

Survey commenced June 21, 1904 and executed with a Young & Sons light mountain transit, No. 5609, with solar attachment. The horizontal limb is provided with two double mirrors placed opposite to each other, reading to single mirrors of arc, which is also the least count of the mirrors 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, June 19, 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 elevations made during i. m. and p. m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Sps 4 and 5 S, R 16 and 17 E established by me June 20; latitude $33^{\circ} 2' N.$, longitude $110^{\circ} 35' W.$ I set off $33^{\circ} 2' N.$ on the lat. arc. $23^{\circ} 26' N.$ on the decl. arc; and at $4^h 8^m$ p. m. l. m. t. determined with the solar apparatus and mark a point thereof, on a stone firmly set in the ground, 5 chs N. of the cor.

June 21, 1904.

June 22: At $7^h 48^m$ a. m. l. m. t. 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 $7^h 20$ a. m. l. m. t. I lay off the azimuth of Polaris to the west, and mark the meridian thus determined, by setting a small board in the stone set June 21, and where the meridian falls 0.3 ins east of the mark determined by the solar.

At $8^h 40^m$ a. m. l. m. t. I set off $33^{\circ} 2' N.$ on the lat. arc. $23^{\circ} 26' N.$ 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 0.3 ins west of the mark obtained by the Polaris observation.

The solar apparatus by p. m. and a. m. observations, as found in the positions for meridians, respectively about $5^{\circ} 16'$ S. $11^{\circ} 16'$ E. of the meridian established by the solar.

West boundary of S 4 S, R 17 E
Chain

Observations therefore I conclude that the adjustments of the instrument are satisfactory.
The magnetic bearing of the true meridian, at 8^h 20^m on mⁿ is 13° 55' N, the angle thus determined gives the mag decl. 13° 55' E.

From the S W cor of S 1000
N lot area 21 and 26.

Over mountainous land, ascending through scattering pale yellow timber and undergrowth.

4.50 Start from saddle Mountain camp to coal fields, bears W. Easterly and S. Westerly.

15.40 Dry wash, on the side, course N. Westerly.

19.20 High Rock creek on the side, course N. Westerly; ascend.

26.50 Top of N slope of mountain, 150 ft above level; ascend steeply.

40.00 Hit a granite stone, 15 x 12 x 10 ins, 12 ins in the ground, for 1/4 are on marked 4 on N face; from which a pale yellow, 2 ins diam, bears S 25° E, 20 the dist, marked 4 S 21 P S.

A pale yellow, 2 ins diam, bears S 77 1/2° W, 20 the dist, marked 4 S 26 P S.

52.00 This cor stands on N slope of mountain 100 ft above level. Descend.

56.00 Descend, 150 ft below top of mountain, on the side, course Westerly; road from Dryhills to coal fields, bears Easterly and Westerly; ascend.

61.00 Bench, on the side, course N. Westerly.

75.00 Top of a pine, extending Westerly, 200 ft above level; descend.

78.00 Bench, on the side, course S. Westerly; ascend.

82.00 Hit a porphyry stone, 12 x 10 x 8 ins, 12 ins in the ground for 1/4 of area 25, 30, 21 and 26 marked with a notch on N and 1 notch on E side, facing which

A magnet, 2 ins diam, bears N 22 1/2° E, 12 the dist, marked 34 S 17 P S.

A magnet, 2 ins diam, bears S 45° W, 20 the dist, marked 34 S 16 to 26 P S.

no other trees within limit, under range a mass of stumps 2 ft high, 12 ft long, W of cor. Pale impracticable.

Bound mountainous

dry, sandy, gravelly stony and rocky, and covered with water. Under pale yellow, pale yellow and adjacent, undergrowth, rough, broken, pale wood, pale yellow, Spanish bayonet.

Chains

Yucca and cacti.
Succulent cacti.
Mountainous land, 80.00 chs.

N lat sec 25 and 30.

Over mountainous land, ascending through undergrowth.

2600 Top E slope mountain, 500 ft above sec cor, ascend.

2900 Enter gulch, course N.

3200 Leave gulch, course N. N. W. westerly; descend steeply through dense jehora brush.

4000 Set a porphyry stone, 18x10x8 ins, 12 ins in the ground, for 1/4 sec and marked 1/4 on N face. from which a pale wire, 5 ins diam, bears N. 14 1/2° E, 81 lbs dist, marked 1/4 S 30 B S.

A pale wire, 5 ins diam, bears N 54 1/2° W, 54 lbs dist, marked 1/4 S 25 B S; raise a mound of stone 2 ft base, 1 1/2 ft high, N of cor.

4400 Enter gulch, 30 lbs wide, course N. N. E.

6100 Small gulch, 30 lbs wide, course N. N. W.

6900 Big Rock creek, 400 ft below steep descent, 40 lbs wide, course N. W. westerly; leave dense jehora brush ascend

8000 Set a malpais stone, 18x8x8 ins, 12 ins in the ground, for each of sides 19, 24, 25 and 30, marked with 2 notches on S and 4 notches on N edge, from which

A pale wire, 8 ins diam, bears S 38 1/2° E, 87 lbs dist, marked S 4 S R 17 E S 30 B S.

A pale wire, 6 ins diam, bears N 22 1/4° W, 101 lbs dist, marked S 4 S R 16 E S 24 B S; no other trees present, limit, irregular mound of stone 2 ft base, 1 1/2 ft high, N of cor. Pits un-identifiable.

Land, mountainous,

gravelly, stony and rocky; 3rd and 4th rates.

Scattered mesquites, pale roads made pale, negro undergrowth, jehora, tracta, mesquites, palmilla, Spanish bayonet, amole, mesquite, and cacti.

Succulent cactus.

Mountainous or land covered with dense undergrowth, same chs

this cor, bearing: S set off ⁵³⁻⁵⁷ 2352; N on the sec cor, at 12 1/2 m p. W. l m t, observe the sun on the meridian, resulting lat as 30° N.

West boundary of S 4 S, R 17 E.
Chains

- N. lat sres 19 and 24.
 - Over mountainous land, ascending.
 - 3.00 Rock 100 ft high, bears 20 lbs E.
 - 6.70 Ascend over bluffs.
 - 11.00 Spur extending N 300 ft above sres and descend.
 - 19.50 Gulch, 250 ft below top of spur, 50 ft deep, 30 lbs wide, course Westerly; ascend.
 - 36.70 Spur, extending Westerly, 300 ft above gulch, thence ascend along broken slope of mountain.
 - 40.00 Both malpais stones, 18 x 10 x 8 ins, 12 ins in the ground, for 1/4 sres each marked 4 on N face, minor or grouped of stones 2 ft base, 1 1/2 ft high, N of each site impracticable.
 - 46.50 Top of mountain, 200 ft above 1/4 sres each bears N Westerly and S Easterly, begin steep descent of N slope over ledge and knoll.
 - 61.00 North fork of Big Rock creek, 300 ft below top of mountain, 30 lbs wide, course N Westerly; ascend.
 - 80.00 Stone on a sandstone in place, 2 ft 10 ins above ground, on which
- Set a cross (x) at the exact spot, for one of sres 13, 18, 19 and 24, marked with 3 notches on S and N sides of cross; from which
- A magnetic, 6 ins diam, bears N 88° W, in the dist marked S 4 S, R 16 E & S 13 R 3; no other trees within limit, rise a mound of stone 2 ft base, 1 1/2 ft high, N of each site impracticable.
- Land mountainous.
Soil, strong and rocky; end of the tract
Growth, several species, spruce, spruce, cedar, undergrowth, juncos, brack, magnum, palmetto, spanish bayonet, amole, mesquite and cacti.
Grain, wheat.
Mountainous land. 8000 ch.

June 22, 1904

June 23. At 6.45 a.m. left, I set off 20° from the lat sres 23 & 27 N on the creek and determined a meridian with the school at the end of sres 13, 18, 19 and 24
3 hours & 30 min
N. lat sres 10 and 18.
Over mountainous land, ascending through undergrowth.

West boundary of S 4 S, R 17 E.

chains

4.00 Top of ridge, bears Easterly and Westerly; descend.
 15.20 Gulch, 200 ft below top of ridge, 40 lbs wide, course Westerly; ascend.

40.00 Set a limestone, 18 x 10 x 8 ins, 12 ins in the 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, N of cor. Site impracticable.

57.00 Top of ridge, 500 ft above gulch, bears Easterly and Westerly; descend.

69.00 Canyon, 175 ft below top of ridge, 1 ch wide, course Westerly; ascend.

80.00 Limestone, 28 x 10 x 10 ins, 21 ins in the ground, for cor of spec 7, 12, 13 and 18, marked with 4 notches on S and 2 notches on N edge, from which
 A circle, 10 ins diam, bears S 10° W, 120 lbs dist, marked S 4 S R 16 E S 13 B S. No other trees within limit raised a mound of stone 2 ft base, $1\frac{1}{2}$ ft high, N of cor. Site impracticable.

Land mountainous.
 Soil generally stony and rocky; soil and 4th water.
 Timber, scattering, cedar, poplar, white, pale green and magenta; mandarin, yellow, black, mesquite, palmelle, Spanish bayonet, amole, mesquite and cacti.
 Giant cactus.
 Mountainous land, 2000 ch

N. lat ones 7 and 12.

Down mountainous land, ascending through undergrowth.

81.00 Set a limestone, 20 x 10 x 8 ins, 14 ins in the ground, for $\frac{1}{4}$ sec cor marked $\frac{1}{4}$ on W face, from which

A circle, 24 ins diam, bears S 85° W, 15 lbs dist, marked $\frac{1}{4}$ on W face, raise a mound of stone 2 ft base, $1\frac{1}{2}$ ft high, N of cor. Site impracticable. Begin descent over bluff.

82.00 At point for $\frac{1}{4}$ sec cor falls on face of bluff.

5000 Gulch, 30 lbs wide, course N. N. Easterly

65.00 Gulch, 25 lbs wide, course N. Easterly; top of steep descent

80.00 Set a limestone, 20 x 10 x 8 ins, 14 ins in the ground, for cor of spec 6, 7 and 12, marked with 5 notches on S and 1 notch on N edge, from which

A circle, 10 ins diam, bears N 21° E, 77 lbs dist, marked S 4 S R 17 E S 6 B S

A circle, 8 ins diam, bears S 21° E, 252 lbs dist, marked

W. boundary of S 4 S, R 17 E.

S 4 S, R 17 E S 7 B S, no other trees within limit. raise a mound of stone 3 ft base, 3 ft high, W of cor. Sets impracticable.

Land mountains

Soil, stony and rocky; 4th water.
 Timber, scattering Pinon, cedar, pines verde, pines negro and mesquite, undergrowth: jolover, laurel, tricot, mesquite, pines verde, palmilla, Spanish bayonet, amole, yucca and cacti.

Survey corner

This cor stands 700 ft below top of bluffs.
 June 23: My true cor I set off $23^{\circ} 26'$ N on the steel wire, and at 12th m limit, observed the sun on the meridian, the resulting lat is $33^{\circ} 6'$ N, or within 1' of the proper lat.

N. lat was 1 and 6.

32.70 Over mountains land, through dense undergrowth, set a limestone, 18 x 10 x 10 ins, 12 ins in the ground, for witness cor to $\frac{1}{4}$ sec cor, marked N 6, $\frac{1}{4}$ and N from which
 A pines verde, 6 ins diam, bears $S 70^{\circ} E$, 22 the dist, marked N 6 $\frac{1}{4}$ S 6 B S

A pines verde, 6 ins diam, bears $S 1^{\circ} W$, 57 the dist, marked N 6 $\frac{1}{4}$ S 1 B; raise a mound of stone 2 ft base, 12 ft high, W of cor.

32.25 Section line of mountains bears N 10 and S W, stake marked 1229-235, drilled.

32.00 Corner Vidal canyon, 500 ft below sec cor, bears E 10 and S W.

40.00 Spring Point falls on land subject to overflow

46.00 Water course, 2 chs wide, runs S. Westerly

49.50 Road, bears N. Easterly and S. Westerly.

51.00 Spring canyon, begins descent of slope of mountain.

52.00 Corner, on the side, runs S. Westerly.

8.00 Set a limestone, 18 x 8 x 8 ins, 10 ins in the ground, for witness cor to $\frac{1}{4}$ sec cor, for $\frac{1}{4}$ and 17 E, marked with 6 notches on each side, from which
 A pines verde, 10 ins diam, bears $N 21^{\circ} E$, 22 the dist, marked S 3 S, R 17 E S 21 B S

A pines verde, 5 ins diam, bears $S 60^{\circ} E$, 49 the dist, marked S 4 S, R 17 E S 6 B S

A pines verde, 6 ins diam, bears $S 38^{\circ} W$, 54 the dist, marked

Smith boundary of S 4 S, R 17 E.

S 4 S R 16 E S 1 B S.

A pale rock, 6 ins diam, bears N. 81 1/2° W, 43 lbs dist, marked S 3 S R 16 E S 36 B S; and raise a mound of stone 3 ft base, 3 ft high, N of cor. Land, mountainous and level.

Soil, sandy, gravelly, stony and rocky; 3rd and 4th water timber, scattering mesquite, pale wood, pale yucca and a few cottonwoods in Gila canyon; undergrowth, mesquite, tree, yucca, palm, spanish bayonet, mesquite and cacti.

Mount cactus.

Mountainous or level covered with some undergrowth, some cedars

June 23, 1904.

June 24: At 9:30 a.m. I mt. S set off 33° 2' N on the lat arc 23-7 23-26; N. on the decl arc and determined a meridian with the solar at the cor of Sps 4 and 5 S, Pos 16 and 17 E, as written for described.

Summit S. mound

E. lat 22 S and 31.

Over rolling land, through some undergrowth.

Ascent.

Top of spur, 200 ft above Spt cor, extending N. Westward;

Ascent.

Level, 100 ft below top of spur, 20 lbs wide, course N. Westward;

Ascent.

Top of spur, 150 ft above level, extending N. Westward; descent.

Set a sandstone, 18 x 8 x 7 ins, 12 ins in the ground, for a cor marked 1/4 on N face; from which

A rock, 8 ins diam, bears N. 14 1/2° W, 60 lbs dist, marked 1/4 S 4 S R 16 E S 36 B S; no other trees within limit; raise a mound of stone 3 ft base, 1 1/2 ft high, N. of cor. Site impracticable.

Level, 20 lbs wide, course N. Westward; descent along N. slope of mountain over small gulches and spurs extending N.

Set a sandstone, 18 x 10 x 8 ins, 12 ins in the ground, for cor of

lines 5, 6, 31 and 32, marked with 1 notch on W and 5 notches on E edge; from which

A rock 8 ins diam bears N. 8 1/2° E, 175 lbs dist, marked

S 4 S R 17 E S 32 B S; no other trees within limit; raise a mound of stone 2 ft base, 1 1/2 ft high, N. of cor. Site impracticable.

mountainous and rolling

generally sandy, stony, and some 4th water

South boundary of S 4 S, R 17 E

Shrub, scattering pale woods, pale negro and cedar undergrowth
johora, pale woods, pale negro, brata, mesquite, palmills, spanish
beyond, mesquite, amata, and cacti.

Mountains or land covered with grass undergrowth, 79.53 chd
Jan 24 11, this ev B set off 23° 25' N on the circ arc,
and at 12⁵ m to observe the sun on the meridian; the re-
sulting lat is 33° 2' N

E. lat area 5 and 32
Over mountains land, along N slope high range, through
dense undergrowth.

13.00 Bush, 40 lbs wood, course N Westerly

25.00 Bush, 80 lbs wood, course N Westerly

40.00 Set a malpais stone, 18 x 10 x 8 ins, 1 dm in the ground, for
1/4 sec ev marked 4 on N face, from which
A pale negro, 10 ins diam, bears S 21° E, 45 lbs dist, marked
4 S 5 B B

A pale negro, 10 ins diam, bears N 20 1/2° W, 10 lbs dist, marked
4 S 32 B B, and mass of mound of stone 2 ft base, 1 1/2 ft
high, N of ev

49.50 Round bush, bears about 20 lbs N

68.00 Trail, bears N Easterly and S Westerly

72.00 Bush, 40 lbs wood, course Northerly

80.00 Set a malpais stone, 22 x 10 x 10 ins, 1 dm in the ground, for
ev of eyes 4, 5, 32 and 33 marked with a notch on N and
4 notches on E edge, from which

A cedar, 24 ins diam, bears S 29° W, 19 lbs dist, marked
S 5 B R 17 E S 5 B B. N other trees nothing bright; mass of
mound of stone 8 ft base, 1 1/2 ft high, N of ev. Pit
unpracticable.

Land, mountains.

Soil, generally, stony and rocky; sad and 4th rate.

Shrub, scattering Indian grass pale negro undergrowth,
pale negro, johora, palmills, spanish beyond, mesquite
and cacti.

Grass cactus

Mountains or land covered with dense undergrowth,
8.00 chd

E. lat area 4 and 33

- Over mountainous land, ascending along N slope of high range, through dense undergrowth.
- 2000 At this point, on summit of high bluff, B offset 5 chs to the N.
- 4000 Falls on face of bluff, 300 ft high; descend.
- 4200 Offset 5 chs S back to line.
- 5330 Set a granite stone, 18 x 10 x 8 ins, 12 ins in the ground, for witness cor to 1/4 sec cor marked W by 1/4 on N face, raised a mound of stone 2 ft base, 1 1/2 ft high, N. of cor. Pts impractical.
- 5400 Deep gulch, 400 ft below bluff, 40 lbs wide, course N. ascend.
- 5600 Top of lower or N. broken slope of mountain.
- 6500 Bluff, 100 ft high, base about 8.00 chs S.
- 7000 Descend.
- 7150 Gulch, 15 lbs wide, course N. Easterly.
- 8000 Set a sandstone, 18 x 8 x 6 ins, 12 ins in the ground, for cor of secs 3, 4, 33 and 34, marked with 3 witness on W, and the course raised a mound of stone 2 ft base, 1 1/2 ft high, N. of cor. Pts impractical.

Mountainous

Soil, gravelly, stony and rocky; 3rd and 4th rates. Timber, scattering cedar, pale negro and pale woods; miscellaneous, yellow, pale negro, pale woods, palmilla, small, mesquite, Spanish bayonet and cacti.

Mountainous or land covered with dense undergrowth, 8000 chs

Jan 25, 1904
 At 6:45 am, on N. mt, B set off 33° 2' N on the
 line 1/4 sec 3, 4, 33 and 34.

Mount Binn
 Set area 3 and 34.

Over mountainous land, descending along N. slope mountain through dense undergrowth.

2000 Bluff, 100 ft below sec cor, 30 lbs wide, course Northwesterly, ascend.

3000 Top of spur, 300 ft above gulch, extending N. Easterly; descend.
 3200 Bluff, 100 ft below top of spur, 50 lbs wide, course Northwesterly, ascend.

Set a granite stone, 18 x 10 x 8 ins, 12 ins in the ground, for 1/4 sec cor on N face, raised a mound of stone 2 ft base, 1 1/2 ft high, N. of cor.

A cedar, 8 ins diam, bears 27° W 45 lbs dist marked
E 5 S R 17 E S 2 B 8.

An ash, 6 ins diam, bears N. $16^{\frac{3}{4}}$ W, 250 lbs dist, marked
S 4 S R 17 E S 35 B 8, and bears a mound of stone 2 ft base
 $1\frac{1}{2}$ ft high, N of cor. This cor stands on S bank of Deer creek,
50 ft above bed of the stream.

Ground, mountains.

Soil, gravelly and stony, 3rd and 4th rates.

Vegetation, scattering cedar, pale woods, and pale sage; a few
and cottonwoods on creek; undergrowth, joshua, pale
sage, greasewood, mesquite, prairie, Spanish bayonet, mesquite
and cacti.

Mount cacti.

Mountains or land covered with dense undergrowth, some clear
ground 25'. At this cor set off 23° $24'$ W on the steel rod,
read at $12^{\frac{1}{4}}$ m mt, observed the sun on the meridian; the
resulting lat is $33^{\circ} 2'$ N, or within 1' of the proper lat.

Lat 33.01 and 36.

Deer mountains land, descending through dense undergrowth

- 3000 Gully, 20 lbs wide, course N. W. to S. E.; as usual
- 3100 Spar, extending N; as usual.
- 3200 Gully, 50 lbs wide, course N. W. to S. E.; as usual.
- 3300 Spar, 100 ft above gully, extending N; as usual.
- 3400 Soil, bears N. W. to S. E. to S. E. to S. E.
- 3500 Gully, 100 ft below top of spar, 30 lbs wide, course N. W. to S. E.; as usual.
- 4000 Cor or sundstone, 18 x 10 x 6 ins, 12 ins in the ground; feet are marked 4 on N. face; from which
- 4100 A cedar, 24 ins diam, bears N. 20° W, 113 lbs dist, marked
E 5 S R 17 E S 36 B 8; no other cor within limit. bears a mound of
stone 2 ft base, $1\frac{1}{2}$ ft high, N of cor. Not improved. This cor
stands on spur, extending N. W.; covered over broken ground
and small gullies.
- 4500 Gully, 100 ft below 4 cor, 30 lbs wide, course N. E. to S. W.;
as usual.
- 4600 Spar, 100 ft above gully, extending N; as usual.
- 4700 Mouth of Walker spring canyon bears about 14 lbs N
- 4800 Spar, 100 ft above gully, extending N; as usual.
- 4900 Spar, 100 ft above gully, extending N; as usual.
- 5000 Spar, 100 ft above gully, extending N; as usual.

East boundary of S 4 S, R 17 E
Chains

3000 South road as usual S.W. slope of ridge
Set a circular 28 x 16 x 14 ins, 2.1 ins in the ground, for cor of Sps
4 and 5 S, R 17 and 18 E, marked with Pritchard on each edge;
from which

A pinion, 9 ins diam, bears N 3° W, 205 lbs dist, marked
S 4 S R 17 E S 36 B A; in a tree trunk within limit; riped a
mummy of stone 4 ft basal, 3 ft high, S of cor. Pits impractic-
able.

From this cor Manning's better bears S 50° E; Manning's ranch
cor Dray cor bears S 20° E, about 1 mile dist; rocky point
bears S 12 1/4° E, about 2 miles dist; 5 horizontal rods cor well
3030 ft.

Land mountainous and broken
Soil, gravelly and stony, bad water & thorns
Pines, scattering cedar, pale yucca, pale woods, mesquite,
ash and cottonwood, under growth, pale yucca, jehoval, pale
woods, trout, mesquite, palmilla, spanish bayonet, myzard,
agave, cacti.

Mount cactus
Mountainous or land covered with small rocks, 8000 ft.
Jan 25, 1904

General Description

Chains here are mountainous land. Soil is gravelly,
stony and rocky, bad water & thorns. There is scattering cedar,
mesquite, pale yucca and pale woods along the line S 4 S R 17 E and
S 4 S R 17 E, is mountainous, rugged and broken.

Jan 26: At 2:35 pm, cont. I set off 33 1/2 N on the
lat line, 20 ft ft on the small area and determined a
meridian with the school at the cor of Sps 4 and 5 S, R 17
and 18 E.

Change of soil
N. lat 200 (31) and 30

4.00 Land mountainous and ascending
Gulch, as the road crosses S.W. corner
13.00 Ridge, 100 ft above gulch, bears N. Easterly and S. Westerly;
desert.

27.40 Gulch, 200 ft below top of ridge, is the road across S.W. corner

1. East boundary of S H S, R 17 E.

- 32.50 Top of ridge, 75 ft above gulch, bears N. Easterly and S. Westerly; begin steep descent.
- 34.15 Soil, bears N. Easterly and S. Westerly.
- 35.20 Narrow spring canyon, 75 ft below top of ridge, 45 lbs wide, course S. Westerly; ascend.
- 40.00 Set a granite stone, 18 x 10 x 8 ins, 12 ins in the ground, for $\frac{1}{4}$ sec in marked $\frac{1}{4}$ on N face, from which
 A rod, 10 ins diam, bears N 50° E, 94 lbs dist, marked $\frac{1}{4}$ S 31 138.
 A rod, 8 ins diam, bears S 18 2° N, 94 lbs dist, marked $\frac{1}{4}$ S 36 13 S.
- 45.00 High peak, bears about 10 lbs W.
- 50.00 Top of spur, 400 ft above canyon, extending S Westerly; ascend.
- 52.50 Dry wash, 10 lbs wide, course S. Easterly; ascend.
- 74.00 Top of ridge, 200 ft above gulch, bears N. Westerly and S. Easterly; descend.
- 80.00 Wash, 15 lbs wide, course S. Easterly; ascend.
- 85.00 Set a granite stone, 20 x 10 x 6 ins, 15 ins in the ground, for cor. of sec 25, 31, 31 and 36, marked with 1 notch on S. and 5 notches on N. edge; raise a mound of stone 2 ft base, 1 1/2 ft high, W of cor. Pits impracticable.

Ground, mountainous
 Soil, gravelly, stony and rocky; 4th estate
 timber, scattering fir, cedar, maple, birch, undergrowth,
 gopher, spanish bayonet, palmilla and cacti.
 Pits impracticable.
 Mountainous land, 8000 lbs.

- N. West. sec 25 and 30.
- Desc. mountainous land, ascending.
- Top of spur, extending S. W.; begin steep descent through
 timber timber
- 85.00 Falls canyon, 200 ft below top of spur, 40 lbs wide, course
 S. Westerly; bear N. Westerly and S. Easterly.
- 90.00 Set a granite stone, 20 x 14 x 10 ins, 15 ins in the ground, for
 $\frac{1}{4}$ sec in marked $\frac{1}{4}$ on N face; from which
 A pole rods, 5 ins diam, bears N 25 1/2° W, 44 lbs dist,
 marked $\frac{1}{4}$ S 25 13 S; no other face visible; raise a
 mound of stone 2 ft base, 1 1/2 ft high. W of cor. Pits im-
 practicable.
- Top of ridge, 300 ft above canyon, bears N. Westerly
 and S. Easterly; descend through gravel gully
 wash in the middle, course S. Easterly; ascend.

Chain

62.00 Acorn & strap

76.50 Top of ridge, 500 ft above wash, bearing N. West by mag. & E. true; also used along N. E. slope

8.00 Set a red Spanish stone, 18 x 10 x 6 ins, 12 ins in the ground, for one of sides 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edge; from which
A. corner, 5 ins diam, bears N 25 1/2° E, 37 lbs dist, marked S 4 S R 18 E S 19 B S.

A barrel, 5 ins diam, bears S 26° E, 42 lbs dist, marked S 4 S R 18 E S 30 B S

A pinon, 14 ins diam, bears S 28 1/2° W, 44 lbs dist, marked S 4 S R 17 E S 25 B S.

A cedar, 8 ins diam, bears N 28 1/2° W, 37 lbs dist, marked S 4 S R 17 E S 24 B S, rises on mound of stone 2 ft long 1 1/2 ft high, N. of cor.

Land, mountainous.
Soil, generally stony and rocky; soil under 4th cor.
Timber, pinon and scattering oak, maple and laurel; undergrowth, jachora, rock, yucca, laurel, Spanish bayonet, mesquite and cacti.
Don't count.

Mountainous land covered with small undergrowth.

June 26. At this cor. B set off ^{75-77'} ~~2000'~~ N on the steel yard, and, at 12 1/2 mi, observed the sun on the meridian, the resulting lat is 35° 3' N.

A lat cor. 19 and 24
Over mountainous land, descending through undergrowth.

4.00 Enlist, on the ridge, across West by mag.

8.50 Top of spiral, extending N. W. beyond steep descent through N. bearing pinon timber and some oak timber.

10.20 Enlist, bears N. East by mag. & West by true.

24.70 No range, probably 70 ft.

25.50 Length fork, 1000 ft below top of spiral, 30 lbs. ridge across S. West by mag. bearing pinon timber and some oak timber; some mesquite and some cedar of some stone.

32.50 Enlist, on the ridge, across S. to West by mag.

38.00 N. corner set to a steel yard fault and Pinon timber, 4 x 4 ft 3 ft above ground, on which

East boundary of S 4 S, R 17 E.

- 6200 cut across (x) marked $\frac{1}{4}$ on W side, from which
- A larval, 12 ins diam, bears S 45° E, 16 lbs dist, marked N 6 $\frac{1}{4}$ S 19 B S.
- A pinon, 8 ins diam, bears N 5 $\frac{1}{2}$ ° W, 170 lbs dist, marked N 6 $\frac{1}{4}$ S 24 B S.
- 6400 Falls in same gulch, 40 lbs wide, courses S. W. to S. E.; as usual along N side.
- 6800 Spur of spur, 800 ft above gulch, extending S. W. to S. E.; as usual.
- 7200 Gulch, 175 ft below top of spur, 20 lbs wide, courses S. W. to S. E.; as usual.
- 8000 Set in Pinon tree, 18 x 10 x 5 ins, 12 ins in the ground, for each of trees 13, 18, 19 and 24, marked with 3 notches on S and N sides; from which
- A fault runs, 5 ins diam, bears N 33 $\frac{1}{4}$ ° E, 14 lbs dist, marked S 4 S R 18 E S 18 B S.
- A fault runs, 8 ins diam, bears S 58 $\frac{1}{2}$ ° W, 30 lbs dist, marked S 4 S R 17 E S 24 B S; no other trees within limit, piece of mound of stone 2 ft base, 1 $\frac{1}{2}$ ft high, W of cut. Site impracticable.

Ground, mountainous.
Soil, gravelly, stony and rocky; good wood 4th rate.
Timber, pinon and scattering cedar and larval; undergrowth, yucca, oak, trout, madrilla, virginal, spanish bayonet and cacti.
Grass, creosote.
Mountains, heavily timbered or land covered with small evergreen, 8000 chs.

Jan 26, 1904

Jan 24 - At 4:30 AM, light, S set off 33 $\frac{1}{4}$ ° N on the lat. coal, 23° 21' N of the reef ore, and at terminal intersection with the set at the end of trees 13, 18, 19 and 24.

Pinon tree
W of trees 13 and 18.
Over mountainous land, as coming through small oak brush
Spur of spur, 350 ft above the end of trees 13, 18, 19 and 24, extending S. W. to S. E.; as usual along S. side.
A limestone, 20 x 10 x 8 ins, 16 ins in the ground, W of cut.

East boundary of S 4 S, R 17 E.

- 4.00 1/4 acre corner marked 4 on N face. raise a mound of stone 2 ft base, 1 1/2 ft high, N of cor. Pits impracticable.
- 6.4.40 Corner, 20 ft below top of spur, 20 lbs wide, course S. Easterly; ascend.
- 8.00 1/2 lb limestone, 18 x 10 x 8 ins, 12 ins in of the ground, for cor of sect 7, 12, 13 and 18, marked with 4 notches on S and 2 notches on N edge. from which
 - A cedar, 12 ins diam, bears N 75 1/2 E, 24 1/2 lbs dist, marked S 4 S R 18 E S 7 B S.
 - A cedar, 10 ins diam, bears S 38 E, 19 1/2 lbs dist, marked S 4 S R 18 E S 18 B S.
 - A cedar, 20 ins diam, bears S 65 W, 15 lbs dist, marked S 4 S R 17 E S 13 B S.
 - A cedar, 7 ins diam, bears N 15 1/2 W, 50 lbs dist, marked S 4 S R 17 E S 12 B S; raise a mound of stone 2 ft base, 1 1/2 ft high, N of cor. This cor stands on a sloped ridge, 200 ft above gulch.
- Land mountainous
- Soil, gravelly, stony and rocky; soil and 4th rate.
- Timber, scattering cedar, Laurel and Spruce; undergrowth, oak, yew, hazel, prairie, Spanish bayonet, mixed spruce and earth.
- Wood cactus
- Mountainous or land covered with dense undergrowth, 8000 ch.
- N. 1/2 sec 7 and 12
- Over mountainous land, ascending through dense oak timber.
- 14.00 Top of limestone ridge, 200 ft above cor, bears N. W and S. E, ascend.
- 29.50 N. face limestone tract, on which
 - Set a cross (x) at the exact point, for witness cor to 1/4 acre corner marked 4 on N side of road, raise a mound of stone 2 ft base, 1 1/2 ft high, N of cor. Pits impracticable.
- 44.00 Same point for 1/4 acre cor falls on sloped gulch, 20 lbs wide, course N. Easterly, ascend.
- 44.00 Top of spur, extending N. Easterly, ascend.
- 67.00 Gulch, 700 ft below cor of sect 7, 12, 13 and 18, 20 lbs wide, course S. Easterly, lower slope basal and ascend.
- 69.00 Top of spur, extending N, ascend.
- 75.00 Same gulch, 20 lbs wide, course N. W, by, begin ascend.

East boundary of S 4 S, R 17 E.

along E slope of ridge.
 8000 Set a limestone, 20 x 10 x 8 ins, 15 ins in the ground, for cor of srs 1, 6, 7 and 12, marked with 5 notches on S and 1 notch on N edge, from which
 A rod, 8 ins diam, bears S 60° E, 208 lbs dist marked S 4 S R 18 E S 7 B B. no other true position limit. raise a mound of stone 2 ft base, 1 1/2 ft high, W of cor. Pits impracticable.

Land, mountainous.
 Soil, gravelly and stony; 3rd and 4th rates.
 Timber scattering pine, pale negro, pale red and cedar; undergrowth, oak, manzanita, juncos, palmilla, Spanish bayonet, myrtle and cacti.

Mountainous or land covered with dense undergrowth,
 8000 lbs.
 June 27: At this cor I set off ^{23°-20'} ~~23°-19'~~ N. on the arch and found at 12 1/4 m. mt. observed the sun on the meridian, the resulting lat. is 33° 6' N.

14000 Set a limestone, 24 x 12 x 10 ins, 18 ins in the ground, for cor of S 4 S and 4 E, R 17 and 18 E, marked with 2 notches on each edge, from which
 A rod, 10 ins diam, bears N 28 1/2° W, 102 lbs dist, marked S 1 B B. no other true position limit. raise a mound of stone 2 ft base, 1 1/2 ft high, W of cor. Pits impracticable.
 14000 Soil, gravelly and stony, 3rd and 4th rates.

14000 Set a limestone, 24 x 12 x 10 ins, 18 ins in the ground, for cor of S 4 S and 4 E, R 17 and 18 E, marked with 2 notches on each edge, from which
 A rod, 10 ins diam, bears N 28 1/2° W, 102 lbs dist, marked S 1 B B. no other true position limit. raise a mound of stone 2 ft base, 1 1/2 ft high, W of cor. Pits impracticable.
 14000 Soil, gravelly and stony, 3rd and 4th rates.

8000 Set a limestone, 24 x 12 x 10 ins, 18 ins in the ground, for cor of S 4 S and 4 E, R 17 and 18 E, marked with 2 notches on each edge, from which
 A rod, 10 ins diam, bears N 28 1/2° W, 102 lbs dist, marked S 1 B B. no other true position limit. raise a mound of stone 2 ft base, 1 1/2 ft high, W of cor. Pits impracticable.
 8000 Soil, gravelly and stony, 3rd and 4th rates.

North boundary of S 4 S, R 17 E.

Chain

S 3 S R 17 E S 36 B S. no other fence within limit. corner at
 mound of stone 4 ft base, 3 ft high, 2 of cor. Rite improvement
 visible from this on Mt Drumbull bears S 49 1/2° E;
 cor of the unnamed S. Body of the Rite Mountain Prussian
 Reservation, at the junction of Gila and Goshute canyons, which
 is a stone, irregular and triangular as described by the surveyor general, bears N. 1° 3' E;

163.4 chs dist.

Soil, generally stony and rocky. Soil good 4 to 6 ft.
 Scrub, scattering cedar, palo verde and palo negro; under
 growth, jubat, oak, mesquite, tricot, pinalillo, & prairie hayon,
 mesquite and cactus.

Mountains
 Mountainous land, 2000 chs
 connecting line to cor of the unnamed S. Body of the Rite
 Mountain Prussian Reservation at junction of Gila and Goshute
 canyons 162.55 chs of mountainous land.

June 27, 1904

General Description

This line runs over mountainous land through pinalillo wood
 & scattering cedar, palo negro and palo verde timber. Soil
 surface of the soil and of the water, suitable for agricultural
 purposes. There is no water course but little grass along the
 line. S 4 S, R 17 E, is mountainous, chiefly suitable for
 mineral and grazing purposes. There are no settlements in
 this S 4 S.

Jan 25. At 7th am, 1 mi to S out off at 2nd cor the lat cor;
 25. 10th M. on the rock road, and determine a true meridian
 with the solar at the cor of S 3 S and 4 S, R 17 E and 17 E,
 Chas. B. road

Run on a random line along the N. base of S 4 S, R 17 E,
 setting up to cor and side cor on at intervals of 1000 chs,
 set first a cor on at 2000 chs and at 4000 chs intersect
 N. base of the S 4 S, R 17 E of the cor of S 3 S and 4 S, R 17
 E and 17 E, as hereafter described.

The falling course to a variation of 2° or 3° N. per
 mile running from the N. W. cor of the S 4 S, therefore

From

S 89° 58' W, bet trees 1 and 36.

Over mountains land, descending through dense oak and
johara undergrowth.

Goled, 200 ft below sp cor, 80 lbs N.W. corner Northely;
as usual.

At this point I offset 4 chs N. on account of high bluff
over dense undergrowth.

Cor point falls on N. face of bluff.

Offset 4 chs S, back to line.

Bluffs on both sides of line.

Set a sandstone, 18 x 10 x 8 ins, 12 ins in the ground, for
reference cor to 4 sec cor, marked N 6 1/4 on N. face; from
which

A cedar, 6 ins diam, bears N. 88° E, 70 lbs dist, marked
N 6 1/4 S 36 B 8; no other trees within limit; raised at
ground of stone 2 ft base, 1 1/2 ft high, N. of cor. Pits im-
practicable.

Bluff 70 ft high.

Top of Limestone ridge, 800 ft above goled, bears N.
and E. by a steep descent of N slope, over ledge through
dense oak brush.

Goled, 500 ft below top of ridge, 30 lbs N.W. corner N. N.
Easterly; as usual.

77 00 Goled, 20 lbs N.W. corner N. Easterly.

Set a malpais stone, 18 x 10 x 6 ins, 12 ins in the ground, for cor
of trees 1, 2, 35 and 36, marked with 5 notches on E and 1
notch on W ridge; from which

A cedar, 2 1/2 ins diam, bears S 10 1/2° E, 178 lbs dist, marked
S 1 B 17 E S 1 B 8; no other trees within limit; raised at
ground of stone 2 ft base, 1 1/2 ft high, N. of cor. Pits impracticable.
Land, mountains.

Land, generally stony and rocky; soil over 4th rate.

Timber, scattering cedar, pale negro, pale verde, mesquite and
a few cottonwood, ash and laurel in goled; undergrowth, oak,
johara, tract, mesquite, palmito, Spanish bayonet, magical
juncos and cacti.

Mountains on land covered with dense undergrowth, 800 chs

28. At this cor I set off 23 1/2 N. on the dog and
29. Point above the summit the meridian; the north
is 33 1/2 N.

North boundary of S 4 S, R 17 E.
Chama

- 89°58' ^W lat area 2 and 35.
- Over mountainous land, ascending through some undergrowth
- 11.00 Top of ridge, 100 ft above sea level, bears N. E. 20° E. and S. W. 20° W.; ascend.
- 17.50 Draw, 150 ft below top of ridge, 200 chs ridge, course N. ascend.
- 35.00 Top of ridge, 280 ft above draw, bears N. E. 20° E. and S. W. 20° W.; ascend gradually.
- 40.00 Set a benchmark, 20 x 10 x 8 ins, 15 ins in the ground, for $\frac{1}{2}$ sea level marked $\frac{1}{2}$ on N. face, raise a mound of stone 2 ft base, 1 1/2 ft high, N. of cor. Pts impracticable.
- 46.00 East enter basin
- 64.50 Broad basin and ascend
- 67.00 Top of small limestone plateau
- 72.00 Begin's ^{ascend} trough canyon
- 78.00 Original ledge 4 ft wide, bears N. and S, but a cross (x) at exact point for witness cor to cor of area 2, 3, 34 and 35, marked with 2 notches on E. side & notches on N. side of cross from which
- A corner, 12 ins diam, bears N. 18° E, 120 lbs dist, marked S 12 S R 17 E S 35 S 35 S
- A corner, 12 ins diam, bears S 42° W, 100 lbs dist, marked S 4 S R 17 E S 35 S. no other cross within limit, raise a mound of stone 2 ft base, 1 1/2 ft high, N. of cor. Pts impracticable.
- 78.50 Beyond abruptly 200 ft, bear and undergrowth
- 80.00 The point for sea level falls in by canyon, 40 lbs wide, course Northward.

Land, mountainous and gently rolling
Soil, generally stony and rocky; soil above the water.
Rimul, scattering grass and Papaya, undergrowth, jilovera, viseta, mesquite, frankia, Spanish bayonet, mesquite and acacia.
Mountainous or land covered with some undergrowth, 80.00 chs.
June 28, 1904.

June 29. At the ... point, set off ... on the lat. and ...
89° 58' W lat area 3 and 34; from cor point
Over mountainous land, ascending from canyon

North boundary of S 4 S, R 17 E.

BOOK 1805

- 8.00 Edge of spur, extending N.E.; descend along N.W. slope.
- 12.00 Gulch, 20 lbs wide, courses N.E.; ascend.
- 37.60 Set a limestone, 18 x 10 x 6 ins, 12 ins in the ground, for witness cor to $\frac{1}{4}$ sec cor marked N 6 $\frac{1}{4}$ W N face, raise a mound of stone 2 ft base, 1 $\frac{1}{2}$ ft high, N of cor. Pit impracticable.
- 40.00 Falls on face of bluff.
- 43.00 Edge of spur, 700 ft above canyon, extending N; begin steep descent through dense undergrowth.
- 44.00 Deep gulch, 600 ft below top of spur, 30 lbs wide, courses Northw.; ascend.
- 7.000 Edge of spur, extending N. descend.
- 76.00 Gulch, 60 lbs wide, courses Northw.; ascend over large granite boulders. trace dense undergrowth.
- 80.00 The point for sec cor falls on granite boulder, 10 x 6 ft, 5 ft above ground, on which
 but a cross (x) at the exact point for cor off oaks 3, 4, 33 and 34, raise a mound of stone 3 ft base, 2 ft high, N of cor. Pit impracticable.
 Ground, mountainous.
 Soil, gravelly, stony and rocky; soil sand with water.
 Timber scattering cedar, pale yellow and pale red; undergrowth juniper, oak, laurel, tree, mesquite, pale yellow, pale red, Gambella, Spanish bayonet, mesquite, scrub and cacti.
 Mountains or land covered with dense undergrowth, 8000 ft.
- 89° 58' N. but oaks 4 and 33.
- Over mountainous land, ascending over large boulders.
- Edge of spur, extending N.E. descend.
- Deep gulch, 25 lbs wide, courses N.Easterly; ascend over bluff.
- Falls on face of bluff 100 ft high.
- Bluff 200 ft high.
- On limestone escarpment, 600 ft above gulch, base N. and S, but a cross (x) at the exact point for witness cor to $\frac{1}{4}$ sec cor marked N 6 $\frac{1}{4}$ W N face, from which
 A corner, 24 ins diam, base S 29° N, 123 lbs dist, marked N 6 $\frac{1}{4}$ S 4 B 3; no other trees within limit; raise a mound of stone 2 ft base, 1 $\frac{1}{2}$ ft high, N of cor. Pit impracticable.
- Edge of spur, extending S; descend.
- Gulch, 300 ft below top of spur, 15 lbs wide, courses S E; ascend.
- Edge of spur, 150 ft above gulch, extending S.W.; descend.

North Boundary of S 4 S, R 17 E
blinnel

79.50 Gulch, 200 ft below top of spur, 20 lbs wide, corner S, turned
W & north to Gila river, as usual.

80.00 Set a limestone, 24 x 10 x 6 ins, 18 ins in the ground, for cor of srs
4, 5, 32, and 33, marked with 4 notches on E and 2 notches on W
surface, rises a mound of stone 2 ft base, 1 1/2 ft high, N of cor.
Site impracticable.

Soil, mountainous
Soil, generally stony and rocky; 3rd and 4th water
Sinks, containing sand and silt; underground, Johnson,
Palmilla, Spanish bayonet, maggot, small wood, etc.
Mountainous land, 8000 ch.

June 29: At this cor I set off 2:10 PM on the decl. and
at 12:00 PM I set a corner on the mountain, the resulting
lat is 35° 7' N

S 89° 58' W, bet srs 5 and 32.
Over mountainous land, ascending through underground.

2.85 Top of ridge, bears Northward and somewhat; begins top descent
of N slope.

4.00 Set a limestone, 24 x 10 x 6 ins, 18 ins in the ground, for 1/4 srs cor
marked 4 on W face, rises a mound of stone 2 ft base, 1 1/2 ft
high, N of cor. Site impracticable.

45.00 Deep gulch, 900 ft below top of ridge, 20 lbs wide, corner S.
Nately, as usual.

75.00 Top of spur, 150 ft above gulch, extending S. Nately, as usual.

80.00 Set a limestone, 18 x 10 x 8 ins, 12 ins in the ground, for cor of srs
5, 6, 31, and 32, marked with 5 notches on E and 1 notch on W
face from which

A pale negro, 2 ins diam, bears N 35° W, 20 lbs dist, marked
S 4 S, R 17 E S 31 B 2. The structure within limit, rises a
mound of stone 2 ft base, 1 1/2 ft high, N of cor. Site impracticable.

Soil, mountainous
Soil, generally stony and rocky; 3rd and 4th water
Sinks, containing sand, pale negro and pale wood; underground,
torus, Johnson, Palmilla, Spanish bayonet, maggot, small wood,
etc.

Mountainous land, 8000 ch.

January, 1904.

North boundary of S. 4 S, R. 17 E.

BOOK 186

June 30: At 6^h 45^m a.m., lmt, B set off 33° 7' N. on the lat and 23° 12' N on the decl arc; and determined a meridian with the solar at the ev of arcs 5, 6, 31 and 32.

Physical B.m.

S 89° 58' W bet arcs 6 and 31.

Over mountainous land, also ending over spur extending S. W.

hick, 300 ft below arc ev, 20 lbs wide, course S. W. westerly.

Thence along S. W. slope of limestone mountain.

hick, 20 lbs wide, course S. W. westerly.

bet limestone, 18 x 10 x 10 ins, 12 ins in the ground, for 1/4 arc ev marked 1/4 on N. face; from which

A pale rods, 5 ins diam, bears N. 15° E, 27 lbs dist, marked 1/4 S 31 B S.

A pale rods, 6 ins diam, bears S 73° W, 72 lbs dist, marked 1/4 S 6 B S; raise a mound of stones 2 ft base, 1 1/2 ft high, N of ev.

Descent abruptly 200 ft to

flat region of the lake.

hick river, 200 lbs wide, course S. W.

Begin ascent over bluff.

Top of escarpment, 200 ft above river bed, bears N. E. westerly and S. W. westerly; thence ascending S. W. slope of limestone mountain.

Top of spur, extending S. W., descent.

hick, 20 lbs wide, course S.

the ev of S 3 and 4 S, R 16 and 17 E.

Over mountains

hick, grassy, stony, and much; 3rd and 4th water

timber, scattering pale rods, cedar and mesquite; undergrowth, yellow, pale woods, grasswood, tobacco, parhills, mangel, woods, through bayonet and cacti.

hick

mountainous land, 79.20 chs.

June 30, 1904

General Description.

This land runs over mountainous land. The soil is stony and rocky. There is some cedar and fir timber. There is no water except the lake runs on the line S 3 S, R 17 E is

North boundary of S. 4 S., R. 14 E.
T. 10 N.

mountains, rugged and broken and lies within the White Mountain
Indian reservation. There are no settlers within this S. 4.

Philip Conzen

U. S. Deputy Surveyor.

"Boundaries of T. 10 N."

LATITUDES - DEPARTURES & CLOSING ERRORS

LINES DESIGNATED	BEARING	DISTANCE	LATITUDES		DEPARTURES	
			N	S	E	W
WEST BOUNDARY	SOUTH	480.00	0NS.	480.00		
SOUTH BOUNDARY	EAST	479.53			479.53	
EAST BOUNDARY	NORTH	480.00	480.00			
NORTH BOUNDARY	WEST	479.80		.80		479.80
Concealage						.17
TOTALS			480.00	480.30	479.63	479.67
				480.00		479.53
ERROR IN LAT				0.30	ERROR IN DEC.	0.14

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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 West

South, East and North Boundaries of S 4 S. R. 17 E

showing the respective capacities in which they acted:

John M. Trayer ✓, Chairman.

J. Bernard Wright ✓, Chairman.

Chesley G. Aldridge ✓, Moundman.

....., Moundman.

Austin A. Lyzight ✓, Axman.

....., Axman.

Arthur Pogue ✓, 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 West South East and North Boundaries of

S 4 S. R. 17 E.

..... of the Gila and Salt River meridian, Territory of Arizona....., which are represented

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

General for Arizona.....

John M. Trayer ✓, Chairman.

J. Bernard Wright ✓, Chairman.

Chesley G. Aldridge ✓, Moundman.

....., Moundman.

Austin A. Lyzight ✓, Axman.

....., Axman.

Arthur Pogue ✓, Flagman.

Subscribed and sworn to before me this 24th day of August, 18919114.



D. M. Perry ✓

NOTARY PUBLIC PIMA COUNTY

My commission expires September 9, 1907.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philip Coutzen, 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 15th day of March, 1904, 189, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the West, South, East and North Boundaries of T4S, R17E

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

Subscribed by said Philip Coutzen, and sworn to before me }
this 24th day of August, 189-1904.



Clinton S. Hoover
Clerk U.S. District Court
First District of Arizona.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona
Oct 1st 1891904

The foregoing field notes of the survey of the South, North West & East boundaries of T4S, R17E of the Gila & Salt River Basin & meridian, in the Territory of Arizona

executed by Philip Coutzen, U.S. Dep. Surveyor under his contract No. 114, dated March 15 1891904, 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.
for Arizona

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.
for Arizona