

1828-

Book "A" Feb 1904

# FIELD NOTES

OF THE SURVEY OF THE

South and West Boundaries

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

BOOK 1828

1828

-1828-

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

AS SURVEYED BY

Philip C. Cochran, United States Deputy Surveyor,

Under his Contract No. 110, dated February 10, 1891 1904

Survey commenced April 28, 1891 1904

Survey completed April 30, 1891 1904

NAMES AND DUTIES OF ASSISTANTS.

John M. Fryer, chairman

Edgar C. Dietrich, chairman

Buck Cash, muddman

Claud Lee, axman

Rafael Martinez, axman

Charles R. Gould, flagman

BOOK 1828

### INDEX DIAGRAM.

Township *N. 9 South*, Range *N. 26 East*

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
5	4	4	3	3	2

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, John M. Prager and Edgar 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

the South and West boundaries of T. 9 S. R. 26 E.

John M. Prager, Chainman.  
Edgar C. Dietrich, Chainman.

Subscribed and sworn to before me this 27<sup>th</sup>  
day of April, 1894



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 South and West boundaries of T. 9 S. R. 26 E.

Buck Cash, Moundman.  
Buck Cash, Moundman.

Subscribed and sworn to before me this 27<sup>th</sup>  
day of April, 1894



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

WE, Claud Lee and Rafael Martinez

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 South and West boundaries of T. 9 S. R. 26 E.

Claud Lee, Axman.  
Rafael Martinez, Axman.

Subscribed and sworn to before me this 27<sup>th</sup>  
day of April, 1894



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 South and West boundaries of T. 9 S. R. 26 E.

Charles R. Gould, Flagman.

Subscribed and sworn to before me this 27<sup>th</sup>  
day of April, 1894



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

chains

Having been instructed to survey first, the West boundary of S. 9 S., R. 26 E. in connection with the survey of the exterior of S. 9 S., R. 26 E. and finding said boundary impracticable to survey on account of high and rough mountains and deep canyons and gorges I proceeded to the cor. of S. 9 and 10 S., R. 26 and 27 E. which is a decayed stake with marks nearly obliterated. I destroyed all traces of the old cor. and reestablished it at the same point as follows:

Set a iron post, 3 ft long, 4 in sq, with marked stone, 24 ins in the ground, for cor. of S. 9 and 10 S., R. 26 and 27 E. marked

S. 9 N. S. 31 on N. E.

R. 27 E. S. 6 on S. E.

S. 10 S. S. 1 on S. W. and

R. 26 E. S. 36 on N. W. faced, with 2 notches on each edge; dig pits 24 x 24 x 12 ins on each line, N. E. and N. W. 4 ft. and 1 ft. 8 ft. dist and raise a mound of earth 5 ft. base, 2 ft. high, S. of cor. Thence I proceed to survey the S. Ely of S. 9 S., R. 26 E.

Survey commenced April 23, 1904, and executed with a W. and Q. E. survey light mountain transit, no. 4397, 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 corrected the level and collimation errors. Then, to test the solar attachment by comparing its indications, <sup>obtained from solar observation</sup> made during a. m. and p. m. hours with a meridian determined by observations on solar, I proceeded as follows:

At the S. E. cor. already described, latitude  $32^{\circ} 35' N$ , longitude  $109^{\circ} 56' 58'' W$ ; I set off  $22^{\circ} 35' N$  on the lat. arc,  $14^{\circ} 14' W$  on the decl. arc; and at  $2^h 30^m$  p. m. height determined with the solar attachment and mark a point thereof, on a stone firmly set on the ground, 5 chs N. of the cor.

April 23, 1904.

April 23 At 5<sup>h</sup> 22<sup>m</sup> a. m. by my watch, which is correct, &

observed Polaris at eastern elongation, in accordance with Manual of  
Instructions, and mark a point in the line thus determined, and  
peg driven in the ground 5 chs N. of my station.  
At 7 a.m. l.m.t. I lay off the azimuth of Polaris  $1^{\circ}25'$  to  
the West and mark the meridian thus determined by cutting  
a small groove in the stone set April 25, on which the meridian  
falls 0.4 ins West of the mark determined by the solar. 14-28  
At 4<sup>30</sup> a.m. l.m.t. I set  $32^{\circ}35'$  N. on the lat. arc  $14^{\circ}28'$   
the decl. arc, and mark a point in the meridian, <sup>determined</sup> with the  
solar, by a cord on the stone already set 5 chs N. of my  
station; this mark falls 0.4 ins West of the meridian estab-  
lished by the Polaris observation.  
The polar apparatus by p.m. and a.m. observations defined  
meridians respectively about  $0^{\circ}21'$  East and  $0^{\circ}21'$   
West of the meridian established by the Polaris observations.  
Therefore I conclude that the adjustments of the instru-  
ment are satisfactory.  
The magnetic bearing of the true meridian at 4<sup>30</sup> a.m. is  
 $12^{\circ}33'$  N.; the angle thus determined gives the mag. decl.  
 $12^{\circ}34'$  E.

Summer 3 run  
Dist. bet. sec. 1 and 36.

- Dry gently rolling land.
- Through dense tortilla and cactus.
- 24.65 Dry wash, 20 lbs wide, course N. Easterly.
- 42.00 Set a pine post, 3 ft long, 4 ins sq, with marked stem, 24 ins  
in the ground, for 4 sec. cor., marked 1 & 2 on N. and 1 on S.  
face. Dig pits  $18 \times 18 \times 12$  ins, 6 and 11. 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.
- 64.00 Dry wash, 20 lbs wide, course N. Easterly.
- 72.75 Dry wash, 15 lbs wide, course N. Easterly.
- 80.00 Set a pine post, 3 ft long, 4 ins sq, with marked stem, 24 ins  
in the ground, for cor. of sec. 1, 2, 35 and 36, marked  
S 9 S 36 on N.E.,  
R 26 E S 1 on S.E.,  
S 10 S 2 on S.W. and  
S 36 on N.W. face, with 1 notch on S. end & notches on N.  
edge. Dig pits,  $18 \times 18 \times 12$  ins, in rocky sec. 5  $5\frac{1}{2}$  ft dist. and raise a  
mound of earth 4 ft base, 2 ft high, N. of cor.  
Land, gently rolling.

land

Soil, gravelly; 3rd rate.  
No timber; undergrowth, tree-tilla, grasswood, yucca and cacti.  
Dense undergrowth, 8000 chs. ✓

Post, bet sec 2 and 35.  
Over gently rolling land.  
Through grass tree-tilla and cacti.

80.00 Dry wash, 60 lbs wide, course N. Easterly.  
40.00 Set a pine post, 3 ft long, 4 ins sq, with marked stone, 24 ins in the ground, for 4 sec. cor, marked  $\frac{1}{4}$  S 35 on N. and 200 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.

80.00 Set a granite stone, 18x10x6 ins, 12 ins in the ground, for cor of sec. 2, 3, 34 and 35, marked with 2 notches on E. and 4 notches on N. edge; from which  
A tree, 6 ins diam, bears N. 40 1/4° E, 366 lbs dist, marked S 9 E R 26 E S 35 13 S.  
A tree, 8 ins diam, bears N. 38° W, 273 lbs dist, marked S 9 E R 26 E S 34 13 S; dig pits 18x18x12 ins S. E. and S. W. of post, 3 1/2 ft. dist, and raise a mound of earth 4 ft base, 2 ft. high, N. of cor. No other trees within limits.

Land, rolling.  
Soil, gravelly; 3rd rate.  
Timber, scattering tree-tilla; undergrowth, tree-tilla, grasswood, yucca and cacti.  
Dense undergrowth, 8000 chs. ✓

Post, bet sec. 3 and 34.  
Over gently rolling land, through dense tree-tilla.

8.50 Dry wash, 60 lbs wide, course N. Easterly.  
20.40 Dry wash, 20 lbs wide, course N. Easterly.  
40.00 Set a granite stone, 18x8x8 ins, 12 ins in the ground, for 4 sec. cor, marked  $\frac{1}{4}$  on N. 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.

80.00 Set a pine post, 3 ft long, 4 ins sq, with marked stone, 24 ins in the ground, for cor of sec 3, 4, 33 and 34, marked S 9 E S 34 on N.E., S 21 E S 3 on S.E.,



South boundary of P. 9 S., R. 26 E.

behind

S 10 S S 4 on S R, and  
S 33 on N. W. face, with 3 notches on E. and W. edges;  
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, rolling.  
Soil, sandy loam and gravelly; 2nd and 3rd rate.  
Sparsely scattering mesquites, mesquite, tree-tilia, yucca, mesquite,  
baccata, yucca and cacti.  
Dense undergrowth, 8000 lbs. ✓

West, bet secs. 4 and 33.  
Over gently rolling land, through dense tree-tilia and  
cacti

1.17 Road from Safford to Wilcox, bears Northwesterly and Southwesterly  
40.00 Set a granite stone, 18x10x8 ins, 12 ins in the ground, for  
1/4 sec cor, marked 4 on N. face, dig pits 18x18x12 ins E.  
and W. of post, 3 ft dist, and raise a mound of earth 2 1/2 ft  
base, 1 1/2 ft high, N. of cor.

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

41.30 Dry wash, 35 lbs wide, course N. Westerly.

8.000 Set a sandstone, 22x6x6 ins, 14 ins in the ground, for cor of sec  
4, 5, 32 and 33, marked with 4 notches on E. and 2 notches on N.  
edges, from which

A mesquite, 7 ins diam, bears N. 72 1/2° E, 140 lbs dist, marked  
S 9 S R 26 E S 33 S S.

A mesquite, 8 ins diam, bears N. 78 1/2° W, 133 lbs dist, marked  
S 9 S R 26 E S 32 S S. dig pits 18x18x12 ins, S. E. and S. W. of  
stone, 5 1/2 ft dist, and raise a mound of earth 4 ft base, 2 1/2 ft  
high, N. of cor. ~~no other trees within limits~~  
Land, rolling and level.

Soil, sandy loam, gravelly and stony; 2nd, 3rd and 4th rate.  
Sparsely scattering mesquites, undergrowth, tree-tilia, mesquite,  
baccata, yucca and cacti.

Dense undergrowth, 8000 lbs

April 29: At this cor I set off ~~lat 31'~~ on the decl. arc, and  
at 12 1/2 m. l. m. t. observed the sun on the meridian. The  
resulting lat. is 32° 35' N or within 0' 1" of the proper lat.

West, bet secs. 5 and 32.  
Over level land, through dense undergrowth.  
1.60 Dry wash, 40 lbs wide, course Northwesterly.



chains

- 10.25 Road, bears Northwly and Southwly, descend.
  - 15.00 Foot, bears Northwly and Southwly; thence over gently rolling land.
  - 20.20 Dry wash, 20 lbs wide, course Northwly.
  - 32.43 Road from Safford to Fort Grant, bears Northwly and Southwly.
  - 40.00 Set a sandstone, 18x12x10 ins, 12 ins in the ground, for  $\frac{1}{4}$  sec. 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.
  - 48.00 Descend
  - 52.00 Foot, bears Northwly and Southwly.
  - 58.50 Road, bears Northwly and Southwly.
  - 61.00 Dry wash, 100 lbs wide, course Northwly; begin steep ascent.
  - 80.00 Set a sandstone, 20x14x8 ins, 17 ins in the ground, for cor. of secs 5, 6, 31 and 32, marked with 5 notches on E. and 1 notch on N. edge, and raise a mound of stone, 2 ft base,  $1\frac{1}{2}$  ft high, N. of cor. Site impracticable.
- Land, gently rolling, mountainous and level, soil, sandy, gravelly and stony; 3rd and 4th rates. Timber, scattering mesquits; undergrowth, mesquits, brat, yucca and cacti.
- Mountains or land covered with dense undergrowth, 80.00 ✓  
cha.

- West, bet secs. 6 and 31.
- Over mountainous land, ascending through scattering undergrowth.
- 2.00 Top of ridge, 200 ft above wash, bears Northwly and Southwly, descend.
- 15.00 Gully, 300 ft below top of ridge, 30 lbs wide, course N. Westerly; ascend along N. slope mountain.
- 26.00 Top of spur, 300 ft above gully, extending N. W.; descend.
- 40.00 Set a granite stone, 24x12x10 ins, 13 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.
- 66.50 Gully, 600 ft below top of spur, 40 lbs wide, course N. Westerly; ascend.
- 74.50 Top of spur, 150 ft above gully, extending N. W.; descend.
- 92.00 Set a granite stone, 24x12x12 ins, 15 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.

## South boundary of S. 9 E., R. 26 E.

notches on rock ridge; and raise a mound of stone 2 ft  
base, 1 1/2 ft high, S. of cor. But impracticable  
Land, mountainous.

Soil, gravelly, stony and rocky; Ord and 4th water  
timber, scattering mesquite; undergrowth, brush, yucca  
and cacti.

Mountainous land, 79.54 chs. ✓

April 29, 1904.

## General Description.

This line runs over rolling land. S. 10 E., R. 26 E., is  
maintained in the way; the remainder being rolling, covered  
with dense brush, with a gradual slope to the N. E. There  
are no streams in this S. 10, and apparently no water. ✓

Philip Coutzen

chain

April 30: At 7 h 50 m a.m., l.m.t., I set off  $32^{\circ} 35' N.$  on the lat. arc,  $14^{\circ} 49' N.$  on the decl. arc; and determined a true meridian with the solar at the cor of Sps 9 and 10 S, Rs 25 and 26 E., as heretofore described.

Shower, 8 mm  
North, bet sec 31 and 36.

Over mountainous land, along N. slope of ridge.

9.00

Begin descent.

20.20

Foot; enter birch valley, and dense undergrowth, bear N. N. W. and S. S. W.

20.50

Road, bears northerly and southerly.

25.50

Birch wash, so the wide course N. N. Easterly.

40.00

Set a pine post, 3 ft long, 4 in sq, with marked stone, 24 in in the ground; for  $\frac{1}{4}$  sec. cor, marked  $\frac{1}{4}$  S 36 on W., and 31 on E. face; from which

ft

A tricola, 4 in diam, bears N.  $62^{\circ}$  E., 89 lbs dist; marked  $\frac{1}{4}$  S 31 B S.

A tricola, 4 in diam, bears S  $82^{\circ}$  W. 18 lbs dist, marked  $\frac{1}{4}$  S 36 B S.

49.00

Draw valley and no wind, bears N. Easterly and S. Westerly.

59.00

Top of spur, extending N. Easterly, descend.

61.00

Foot; enter draw, course N. E.

68.00

Draw again and ascend.

71.00

Top, bears N. E. and S. W.; thence over rolling land.

8.00

Set a sandstone,  $18 \times 10 \times 8$  in, 12 in in the ground, for cor of sec 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edge; from which

ft

A mesquite, 7 in diam, bears S  $82^{\circ}$  W. 204 lbs dist, marked 29 S R 25 E S 36 B S.

A mesquite, 8 in diam, bears N.  $73^{\circ}$  W. 344 lbs dist, marked 29 S R 25 E S 25 B S; no other trees available, dig pits  $18 \times 18 \times 12$  in, N. W. and S. E. of stone, 5 ft dist and raise a mound of earth 4 ft base 2 ft high, N. of cor.

Land, level, mountainous and rolling.

Soil, sandy loam, gravelly, stony and rocky; 2nd, 3rd and 4th cuts.

Pinon, mesquite, tricot, ash, sycamore, cottonwood, grape, walnut; undergrowth, mesquite, tricot, chamise, baccharis, yucca and cacti.

Mountainous and land covered with dense undergrowth.

West boundary of Sp 9 S., R. 26 E.  
6 lines

North, bet secs 25 and 30.  
Over rolling land, through dense troutal undergrowth.

25.50 Descend.

29.00 Foot; enter draw, course N. E.

33.95 Dry wash, 20 lbs wide, course N. E.

40.00 Sta point for 1/4 sec ev falls in same wash, course N.

43.10 Cross wash, course N. W. Easterly.

44.00 Set a granite stone, 18x10x6 ins, 12 ins in the ground, for witness, corner to 1/4 sec. ev, marked N. E., 1/4 on N. face, from which

ok  
A back line, 12 ins diam, bears S 51° E 43 lbs dist, marked N. E. 1/4 S 30° E 13 S.

A troutal 6 ins diam, bears S 39° W. 129 lbs dist, marked N. E. 1/4 S 25° E 13 S.

47.20 Cross draw and ascend.

49.50 Top; bears N. E. and S. W.; turner over rolling land.

80.00 Set 4 sandstone, 20x10x8 ins, 14 ins in the ground, for ev of sec 19, 24, 25 and 30, marked with 2 notched on S. and 4 notched on N. side; dig pits 18x18x12 ins, in each cor., 5 1/2 ft dist, and raise a mound of earth 4 ft base, 2 ft high, N. of cor.)

ok  
Land, rolling and level.  
Soil, sandy, gravelly and stony; good sand 4th rate.  
Shrub, mosquito troutal, ash and back brush; undergrowth, mosquito, troutal, baccharis, yucca and cacti.  
Dense undergrowth, 8000 chd. ✓

North, bet secs 19 and 24.

Over rolling land, through dense troutal and cacti.

9.70 Begin steep descent.

11.00 Foot; enter draw, course N.

17.70 Dry wash 20 lbs wide, course N. E.

28.60 Cross draw; ascend.

32.00 Top of spur, extending N. E.; descend.

34.00 Foot; enter draw.

40.00 Sta point falls in dry wash, course N.

41.20 Cross wash and draw, course N. N. E.; ascend.

41.50 Set a granite stone, 18x10x8 ins, 12 ins in the ground, for 1/4 sec ev, marked 1/4 on N. face, and raised a mound of stone, 2 ft base, 1 1/2 ft high, N. of cor. Sets impracticable.

42.20 Top; bears E. and W; descend.

47.00 Foot; enter same draw, course N.

63.70 Draw down; ascend.  
 66.30 Top of narrow spur extending N.E.; descend.  
 68.20 Foot; enter rocky draw course N. E.  
 75.80 Dry wash, course & stream N. E.  
 76.90 Draw down; ascend.  
 78.50 Top; bars E. and N.  
 80.00 S'm point for ore ev falls on granite stone in place, 2 x 2 ft, 6 in above ground, on which  
 but a cross (+) at the exact point, for ev of s'cs 13, 18, 19 and 24, marked with 3 notches on S. and N. sides of cross and raised a mound of stone, 2 ft base, 1 1/2 ft high, N. of ev. This impracticable.  
 Land, rolling and level.  
 Soil, sandy, gravelly, stony and rocky; 3rd and 4th rate.  
 Timber, scattering mesquite and totol. mesquite, mesquite, totol, porchata, yucca and cacti.  
 Undergrowth, 8000 chs.  
 April 30. At this ev I set off <sup>11:45</sup> on the decl arc and at 12:45 m. I observe the sun on the meridian. The resulting latitude is 22° 38' N, or within 0' 1" of the proper lat.

North, bet s'cs 13 and 18.  
 Over rolling land, through dense totol and cacti.  
 2.00 Dry wash, 20 lbs wide, course E; ascend.  
 6.00 Side of stony spur, extending N. E.  
 8.00 Descend.  
 12.00 Foot; through very firm sloping N.  
 18.70 Dry wash, 30 lbs wide, course E.  
 40.00 Set a marker, 24 x 12 x 8 in, 18 in in the ground, for s'cs ev. marked 4 in N. face. from which  
 A mesquite, 8 in diam, bears N. 13° E. 178 lbs dist, marked 4 S 18 B S.  
 A mesquite, 8 in diam, bears N. 78° N. 108 lbs dist, marked 4 S 13 B S.  
 51.70 Dry wash, 30 lbs wide, course Easterly.  
 57.00 Region gradual ascent over stony ground.  
 65.00 Top of low spur of mountain, extending E; descend.  
 68.60 Descend steeply.  
 70.00 Foot; enter draw, course N.



West boundary of S. 9 S., R. 26 E.

6 chains

7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N. edge, from which  
 A tree, 8 ins diam, bears N. 27° E, 129 lbs dist, marked S 9 S R 26 E S 7 B S.  
 A jam, 5 ins diam, bears S 84° E, 147 lbs dist, marked S 9 S R 26 E S 18 B S.  
 A mesquite, 12 ins diam, bears S 28° W, 241 lbs dist, marked S 9 S R 25 E S 18 B S.  
 A mesquite, 6 ins diam, bears N. 76 1/4° W, 151 lbs dist, marked S 9 S R 25 E S 12 B S.  
 Ground, rolling and level.  
 Soil, sandy, gravelly and stony; soil and 4th part.  
 Timber, mesquites, trees and jam; undergrowth, trees, mesquites, yucca and cacti.  
 Dense undergrowth, 80.00 chs. ✓

North, bet area 7 and 12.  
 Over gradually descending ground, through dense trees and mesquite undergrowth.  
 10.00 Dry wash, 20 lbs wide, course N. Easterly.  
 26.00 Draw drain, course N. N. E; used.  
 28.00 Top of spur, extending E.  
 31.30 Descend.  
 32.30 Foot; bears E. and W.  
 40.00 Set a sandstone, 24 x 6 x 6 ins, 18 ins in the ground, for 1/4 sec. on, marked 1/4 on N. face, from which  
 A tree, 5 ins diam, bears S. 45° E, 180 lbs dist, marked 1/4 S 7 B S.  
 A tree, 5 ins diam, bears N. 4° W. 97 lbs dist, marked 1/4 S 12 B S.  
 47.40 Ascend.  
 50.00 Top; bears N. E. and S. W.; thence over rolling land.  
 60.53 Hill, bears 4.00 chs E.  
 64.20 Dry wash, 20 lbs wide, course, Easterly.  
 70.40 Descend, steep.  
 71.40 Foot; infra drain, course E.  
 74.30 Dry wash, 30 lbs wide, course E.  
 79.00 Draw drain used ascend.  
 80.00 Set a sandstone, 20 x 8 x 7 ins, ~~17~~<sup>15</sup> ins in the ground, for ev of area 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edge; from which

At A tricola, 7 ins diam, base S. 8° E, 21 lbs dist, marked S 9 S R 26 E S 7 B S.

A mosquito, 10 ins diam, base S 42° W, 47 lbs dist, marked S 9 S R 25 E, S 12 B S. no other trees within limit, and raised

A mound of stone 2 ft base, 1 1/2 ft high, N. of cor. Pits impracticable.

Land, rolling and level.

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

Timber, scattering mesquites and tricola; undergrowth, mesquites, tricola, bechata, yucca and cacti.

Dense undergrowth, 80.00 etc. ✓

North, bet secs 1 and 6.

Over rolling land, ascending from draw, through dense undergrowth.

60 Pop, bars E. and W.

3.80 Grassland

5.32 Spot, bars N. W. and S. E.

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

17.40 Begin steep ascent over boulders.

20.70 Spot, 600 feet above dry wash, bars E. and W. turned over stony mesa.

40.00 Set a sandstone, 24 x 6 x 6 ins, 18 ins in the ground, for a sec cor, marked 4 on N. face, and raised a mound of stone, 2 ft base, 1 1/2 ft high, N. of cor. Pits impracticable.

44.50 Begin steep descent from mesa to Emmanis canyon.

62.52 Spot, Emmanis wash, <sup>600 ft. flow mesa</sup> 40 lbs wide, course, Easterly; ascend

65.40 Spring, bars 4.00 the N. reservoir, bars 7.00 the E.

72.70 Edge of mesa 600 ft above canyon, bars E. and W.

76.20 Set a sandstone, 24 x 10 x 5 ins, 12 ins in the ground, for corner of S. 9 E., R. 25 and 26 E. marked with C. C. on S. north, a groove on S. E. and N. face, and raised a mound of stone 2 ft base, 1 1/2 ft high, S. of cor. Pits impracticable.

Land, level and mountainous.

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

Timber, scattering mesquites and tricola; undergrowth, tricola, mesquites, yucca and cacti.

Mountainous or land covered with dense undergrowth, 82.20 etc. ✓

April 30, 1904



12  
b. base.  
West boundary of S. 9 E., R. 26 E.

General Description.

This line runs over rolling, level and mountainous land. S. 9 E., R. 25 E. is covered by the Sierrita range locally known as the Grabams. Mount Graham, the highest peak of this range, has an accredited elevation of 10,200 ft above the level of the Pacific ocean.

Philip Couzear  
U. S. Deputy Surveyor.

BOUNDARIES OF T 9 S R 26 E  
LATITUDES, DEPARTURES & CLOSING ERRORS

LINE DESIGNATED	TRUE BEARING	DISTANCE	LATITUDES		DEPARTURES	
			N	S	E	W
		C.M.S.				
SOUTH BOUNDARY	WEST	479.54				479.54
WEST BOUNDARY	NORTH	476.20	476.20			
NORTH BOUNDARY	EAST	242.89			242.89	
" "	58°52'E	39.95		30	39.95	
" "	EAST	79.56			79.56	
" "	N 89°34'E	39.93	30		39.93	
" "	EAST	79.25			79.25	
EAST BOUNDARY	50°8'W	79.32		79.32		19
" "	SOUTH	79.13		79.13		79
" "	50°7'W	79.40		79.40		.08
" "	50°5'W	79.46		79.46		.12
" "	50°20'W	79.37		79.37		.47
" "	50°32'W	79.48		79.48		.75
CONVERGENCY						.46

476.50	476.31	481.81	480.85
476.20	476.26	480.85	481.69
476.25	476.26	481.69	

ERROR IN LAT. 24  
ERROR IN DEP. 75  
72

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

13 99

LIST OF NAMES.

BOOK 1828

A list of the names of the individuals employed by Philip Contzen

....., 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 South and West boundaries of T. 9 S. R. 26 E. showing the respective capacities in which they acted:

- John M. Gray, Chainman. ✓
- Edgar C. Dietrich, Chainman. ✓
- ....., Moundman.
- Buck Cash, Moundman. ✓
- Claud Lee, Axman. ✓
- Rafael Martinez, Axman. ✓
- Charles B. Gould, Flagman. ✓

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philip Contzen....., United States Deputy Surveyor, in surveying all

those parts or portions of the South and West boundaries of T. 9 S. R. 26 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. Gray, Chainman. ✓
- Edgar C. Dietrich, Chainman. ✓
- ....., Moundman.
- Buck Cash, Moundman. ✓
- Claud Lee, Axman. ✓
- Rafael Martinez, Axman. ✓
- Charles B. Gould, Flagman. ✓

Subscribed and sworn to before me this 16<sup>th</sup> day of May, 1904



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

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philip Contzen, 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<sup>th</sup> day of February, 1894, 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 South and West boundaries of T. 9 S. R. 26 E

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 Contzen  
United States Deputy Surveyor.

Subscribed by said Philip Contzen, and sworn to before me }  
this 17<sup>th</sup> day of May, 1894

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona  
October 31<sup>st</sup> 1904, 1899

The foregoing field notes of the survey of the South and West Boundaries of T. 9 S. R. 26 E.

executed by Philip Contzen under his contract No. 110, dated February 10<sup>th</sup> 1904, 1899, 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.