

-1812.-

18

FIELD NOTES

OF THE SURVEY OF THE

West and North boundaries of S. 47. N. 4 E.

BOOK 1812

-1812.-

1812

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

AS SURVEYED BY

Edgar C. Dietrich, United States Deputy Surveyor,

Under his Contract No. *123*, dated *September 15*, 189*1904*

Survey commenced *December 28*, 189*1904*

Survey completed *December 31*, 189*1904*.

John H. Trayer, Chairman

John R. Eitrich, Chairman

George W. Piper, Chairman

William H. Kinn, Assn

Geo. Ormsby, Assn

Frank E. Miller, Stagnant

Book No. 1812

BOOK 1812

INDEX DIAGRAM.

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Meanders Page.....

WE, John M. Trayer and Frank 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 West and North boundaries of S 17 N. R 4 E.

John M. Trayer, Chainman.
Frank Dietrich, Chainman.

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



Edgar C. Dietrich
U. S. Deputy Surveyor

§
WE, Henry Pifer and _____
do solemnly swear that we will well and truly perform the duties of moundman 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 and North boundaries of S 17 N. R 4 E.

Henry Pifer, Moundman.
_____, Moundman.

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



Edgar C. Dietrich
U. S. Deputy Surveyor

WE, William M. Ware and Ira Owenby
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 and North boundaries of S 17 N. R 4 E.

Wm Ware, Axman.
Ira Owenby, Axman.

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



Edgar C. Dietrich
U. S. Deputy Surveyor

I, Fred E. Miller, 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 and North boundaries of S 17 N. R 4 E.

Fred E. Miller, Flagman.

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



Edgar C. Dietrich
U. S. Deputy Surveyor

No notary

4 P.M.

Survey commenced Dec. 27, 1904 and executed with a James W. Green and Co's light mountain transit No 4607 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 latitude arc reads 3' in excess, being an index error.

The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the Surveyor-General for Arizona, December 22, 1904.

I examine the adjustments of the instrument 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 proceed as follows:-

At the standard corner of T. 17 N. R. 4 E. previously described by me latitude $39^{\circ}-46'$ N. and longitude $111^{\circ}-46'$ W. I set off $39^{\circ}-46'$ N. on the lat. arc and $23^{\circ}-18'$ S. on the dec. arc and at 4 hr. 0 min P.M. l.m.t. determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5 chs. N. of the corner. At 0 hr 57 m. A.M. l.m.t. by my watch, which is correct, I observe Polaris at western elongation in accordance with the Manual of Instruction and mark a pt. in the line thus determined.

on a peg driven in the ground
5 chains north of my corner.

Dec. 27, 1904.

Dec. 28. At 8 h. 0 m. A.M. l. m. t., I
lay off the azimuth of Polaris $1^{\circ}28'$
to the East and mark the meridian
thus determined, by cutting a small
grove in the stone set Dec. 27. on
which the meridian falls 0.2 ins. W.
of the mark determined by the solar.
At 8.30 A.M. l. m. t. I set off $39-48$ W.
on the lat. arc and $23-14$ S. on the dec.
arc, and mark a point in the meridian
determined by the solar, by a cross on
the stone already set 5 chs. N. of the cor.
This mark falls 0.4 ins. W. of the meri-
dian established by Polaris observation.
The solar apparatus, by P.M. and A.M.
observations, defines positions for
meridians, respectively about $0^{\circ}-11''$
east and $0^{\circ}-21''$ west of the meridian
established by the Polaris observations,
therefore I conclude that the adjust-
ments of the instrument are satis-
factory. The magnetic bearing of
the true meridian at 8.00 A.M. is
 $N. 14^{\circ}-32' W.$ the angle thus de-
termined gives the magnetic dec-
lination $14^{\circ}-39' E.$

Edgar C. Dietrich
U. S. Deputy Surveyor

Chinas

December 28: At 8^h 30^m a.m., l.m.t., I set off 34° 46' N. on the lat. arc; 23° 14' S. on the dial. arc, and determine a true meridian with the solar as the standard cor. of Sp. 17 N., R. 4 E., just established by me.

Plumed & run North, bit. sec. 31 and 36.

Over mountainous land, descending through dense palo christo bush.

- 12.00 Broad of gulch, course N., ascend.
 - 15.75 Dip, bars E. and W.; plumed over level mesa.
 - 26.00 Begin descent.
 - 35.40 Gulch, 100 ft. below top of mesa, 20 lbs. wide, course S. W.; ascend.
 - 40.00 Set a calcareous stone, 18 x 10 x 4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raised a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 - 41.00 Dip, bars E. and W.; inter gently rolling land.
 - 62.00 Bar dense bush, bars N. E. and S. W.; descend.
 - 74.80 Gulch, 20 lbs. wide, course S. W.; ascend.
 - 80.00 Set a calcareous stone, 28 x 14 x 4 ins., in a ground of stone for cor. of sec. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edge, and raised a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- Land, mountainous, rolling and level.
Soil, gravelly and stony; 3rd and 4th rates.
Timber, a few cedar; undergrowth, palo christo, algarrota and totillo.
Mountainous or land covered with dense undergrowth, 80.00 chs.

North, bit. sec. 25 and 30.
Over mountainous land, ascending.

- 8.00 Ridge, bars N. and S. W.; descend.
- 14.15 Gulch, 10 lbs. wide, course S. W.; ascend through dense bush.
- 30.00 Ridge, bars N. and S. W.; descend through scattering cedar timber.
- 40.00 Set a calcareous stone, 18 x 10 x 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which a cedar, 6 ins. diam., bars S. 85° E., 122 lbs. dist., marked

Chains $\frac{1}{4}$ S 30 B S.
 A cedar, 12 ins. diam., bears S. 71° W, 53 lbs. dist., marked
 $\frac{1}{4}$ S 25 B S.
 46.50 Gulch, 100 ft. below top of ridge, 30 lbs. wide, course
 N. ascend.
 55.00 Ridge, 170 ft. above gulch, bears NW and S. N, descend.
 70.45 Small dry wash, course N. ascend.
 75.00 Top of N. slope of ridge, descend through heavy cedar
 and pinon timber.
 80.00 Set a calcareous stone, 18 x 10 x 8 ins., 12 ins. in the ground
 for cor. of sres. 19, 24, 25 and 30, marked with 2 notches
 on S. and 4 notches on N. ridge, from which
 A pinon, 8 ins. diam., bears N. 39° E, 17 lbs. dist., marked
 S 17 N R 4 E S 19 B S.
 A pinon, 10 ins. diam., bears S. 19° E, 20 lbs. dist., marked
 S 17 N R 4 E S 30 B S.
 A cedar, 5 ins. diam., bears S. 63° W, 24 lbs. dist., marked
 S 17 N R 3 E S 25 B S.
 A cedar, 10 ins. diam., bears N. 64° W, 91 lbs. dist., marked
 S 17 N R 3 E S 24 B S. and raise a mound of stone,
 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Land, mountainous.
 Soil, gravelly and stony; 3rd and 4th rates.
 Timber, cedar and pinon; undergrowth, paleo christo, al-
 garruta and traptilla.
 Mountainous, heavily timbered or land covered with dense
 undergrowth, 80.00, chs.
 December 28. At this cor. I set off $23^{\circ} 15'$ S. on the arid.
 face, and at $12^{\text{h}} 4^{\text{m}}$ l. m. t., observed the sun on the
 meridian. The resulting lat. is $34^{\circ} 47'$ or within $0.4'$ of
 the proper lat.

North, bet. sres. 19 and 24.
 Over mountainous land, descending through heavy timber
 and dense brush.
 4.00 Cross heavy timber, bears E. and W.
 9.50 Draw, 150 lbs. wide, course S. S. W. ascend.
 17.00 Top of ridge, 140 ft. above draw, bears NW and S. W.;
 thence over gently rolling land.
 24.00 Enter heavy cedar and pinon timber. bears E. and W.
 41.00 Set a calcareous stone, 18 x 10 x 7 ins., 12 ins. in the ground.

6hms

for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ in N. face, from which
 A cedar, 12 ins. diam, bears S. $36\frac{1}{2}^{\circ}$ E, 125 lbs. dist, marked
 $\frac{1}{4}$ S 19 B S.

A cedar, 24 ins. diam, bears N. $12\frac{1}{4}^{\circ}$ W, 101 lbs. dist, marked
 $\frac{1}{4}$ S 24 B S.

47.00 Grass, dense brush, begin descent along E. slope of ridge.

52.15 Road, bears N. N. W. and E. S. E.

68.20 Dry wash, 10 lbs. wide, course E.; enter gently rolling land.

80.00 Set a calcareous stone, $18 \times 8 \times 8$ ins., 12 ins. in the ground, for
 cor. of secs. 13, 18, 19 and 24 marked with 3 notches on S.
 and N. sides; from which

A cedar, 8 ins. diam, bears N. $18\frac{3}{4}^{\circ}$ E, 249 lbs. dist, marked
 S 17 N. R. 4 E S 13 B S.

A cedar, 24 ins. diam, bears S. 47° E, 107 lbs. dist, marked
 S 17 N. R. 4 E S 19 B S.

A fir, 9 ins. diam, bears S. $13\frac{3}{4}^{\circ}$ N, 112 lbs. dist, marked
 S 17 N. R. 3 E S 24 B S.

A cedar, 12 ins. diam, bears N. $56\frac{3}{4}^{\circ}$ W, 196 lbs. dist, marked
 S 17 N. R. 3 E S 13 B S.

Land, mountainous and gently rolling.

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

Timber, cedar and fir; undergrowth, pale chestn,
 algaroba and buckeye.

Mountains, heavily timbered on land covered with dense
 undergrowth, 80.00 lbs.

North, bet. secs 13 and 18.

Over, rolling land, through heavy cedar timber.

7.80 Old road, bears N. W. and S. E.

19.00 Dry wash, 10 lbs. wide, course S. E.

40.00 Set a calcareous stone, $20 \times 8 \times 8$ ins., 15 ins. in the ground,
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which
 A cedar, 36 ins. diam, bears N. $36\frac{3}{4}^{\circ}$ E, 250 lbs. dist, marked
 $\frac{1}{4}$ S 18 B S.

A cedar, 16 ins. diam, bears S. 28° W, 249 lbs. dist, marked
 $\frac{1}{4}$ S. 13 B S.

74.00 Run heavy cedar timber, bears E. and W.

80.00 Set a calcareous stone, $18 \times 8 \times 8$ ins., 12 ins. in the ground,
 for cor. of secs. 7, 12, 13 and 18, marked with 4 notches
 on S. and 2 notches on N. side; from which

A cedar, 18 ins. diam, bears N. $39\frac{1}{4}^{\circ}$ E, 250 lbs. dist, marked

Chains

at

S 17 N R 4 E S 7 B S.
A cedar, 7 ins. diam., bears S. 66 1/2° E, 300 lbs. dist., marked
S 17 N R 4 E S 18 B S.

A cedar, 24 ins. diam., bears N. 70 1/2° W., 218 lbs. dist., marked
S 17 N R 3 E S 12 B S.; no other trees within limits; dig
pit, 18 x 18 x 12 ins., S. W. of cor., 5 1/2 ft. dist., and raise
a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land, gently rolling.

Soil, sandy and gravelly loam; 2nd and 3rd rate.
Timber, cedar; undergrowth, huckleberry.
Barren timbered land, 74.00 lbs.

December 28, 1905.

December 29: At 8^h 50^m a.m. l.w.t. I set off 34° 49' on
the lat. arc; 23° 12' S. on the arc arc; and determine
a meridian with the solar at the cor. of secs. 7, 12, 13
and 18.

Shores & rim

North, bet. secs. 7 and 12.

Over gently rolling land.

40.00
at
Set a cedar post, 3 ft. long, 4 ins. sq., with marked, stone,
24 ins. in the ground, for 1/4 sec. cor. marked 1/4 S 12 on
W. and 7 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.

80.00
at
Set a sandstone, 20 x 8 x 6 ins., 15 ins. in the ground, for cor.
of secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1
notch on N. edge, from which

A cedar, 20 ins. diam., bears S. 72 1/4° E., 355 lbs. dist., marked
S 17 N R 4 E S 7 B S.

A cedar, 30 ins. diam., bears S. 41 1/2° W., 228 lbs. dist., marked
S 17 N R 3 E S 12 B S.; no other trees; dig pits, 18 x 18 x 12
ins., N.W. and N.E. of stone, 5 1/2 ft. dist., and raise a
mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling.

Soil, sandy and gravelly loam; 2nd and 3rd rate.
Timber, a few cedar.

North, bet. secs. 1 and 6.

Over rolling land.

2.00. Enter scattering cedar and dense brush.

Chains
8.10

Dry wash, 10 lbs. wide, course E.

411.00

Set a sandstone, 18 x 8 x 6 ins., 1 1/2 ins. in the ground, for
1/4 sec. cor. marked 1/4 on N. face, from which
A corner, 8 ins. diam., bears S. 65 1/4° E., 318 lbs. dist, marked
1/4 S 6 1/2 B S.

A corner, 12 ins. diam., bears S. 50° W., 285 lbs. dist, marked
1/4 S 1° B S.

511.50

Gulch, 30 lbs. wide, course S. E., have dense brush.

80.00

Set a sandstone, 24 x 12 x 6 ins., 1 1/2 ins. in the ground, for
cor. of Sp. 17 and 18 N., Rs. 3 and 4 E., marked with 6
notches on each edge, from which

A corner, 26 ins. diam., bears N. 33 1/4° W., 127 lbs. dist, marked
S 18° N R 3 E S 36° B S., no other corners; dig pits, 24 x 24 x 12
ins., on each line, N., E. and W., 4 ft., and S. of stone, 8
ft. dist., and raise a mound of earth, 5 ft. base, 2 1/2
ft. high, S. of cor.

Land, rolling,

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

Timber, scattering cedar, undergrowth, algaroba and
trinitella.

Dense undergrowth, 4850 lbs.

December 29, 1905.

General Description.

This line runs over mountainous and rolling land, Sp
17 N., R. 3 E., is mountainous and rolling in the east and
center. The western part of the Sp. is traversed by the
Verde river. There are a number of settlers in this Sp.

December 30. At 8:45 a.m. l.m.t., set off 34° 51' N. on the
lat. mer. 23-08' S. on the dial. arc, and determine a
true meridian with the solar at the cor. of Sp. 17
and 18 N., Rs. 4 and 5 E., which is a sandstone, 12 x 16 x 6
ins. above ground, marked

S 18° N on N.E.

R 5 E on S.E.

S 17° N on S.W. and

R 4 E on N.W. face, with 6 notches on each edge,
from which

6 chains
OK

A cedar, 6 ins. diam, bears N. 29 1/4° E.; 28 lbs. dist., marked
S 18 N R 5 E S 31 B S.

A cedar, 7 ins. diam, bears S 26 1/2° E., 17 1/2 lbs. dist., marked
S 17 N R 5 E S 6 B S.

A cedar, 12 ins. diam, bears S. 20 3/4° W., 126 lbs. dist., marked
S 17 N R 4 E S 1 B S.

A cedar, 14 ins. diam, bears N. 68 1/2° W., 79 lbs. dist., marked
S 18 N R 4 E S 36 B S. and a mound of stone, 9 ft. base,
2 ft. high, S. of cor.

This cor. does not answer the description given by the
surveyor general.

Stakes 3 run

Went on a random line, along the N. bdy. of Sp. 17 N.,
R. 4 E., setting temp. 1/4 sec. and sec. wks. at intervals of
40.00 chs.; and at 479.53 chs. intersect W. bdy. of the
Sp., 109 lbs. S. of the cor. of Sp. 17 and 18 N., R. 3
and 4 E., as herebefore described. The falling answers
to a correction of 11° 5', or 18 lbs. N. per mile,
counting from the N.W. cor. of the Sp.

Sharps 8 run

S. 59° 52' E., bet. sec. 6 and 31.

Over gradually descending ground.

34.80 Entered heavy cedar timber, bears N. W. and S. E.

39.53 Set a sandstone, 18 x 7 x 6 ins., 12 ins. in the ground, for
1/4 sec. cor. marked 1/4 on N. face, from which
A cedar, 6 ins. diam, bears S. 21 1/2° W., 131 lbs. dist., marked
1/4 S 6 B S.

A cedar, 10 ins. diam, bears N. 23 3/4° W., 61 lbs. dist., marked
1/4 S 31 B S.

47.30 Cross heavy timber, bears N. and S.; enter scattering cedar.

48.80 Dry wash, 30 lbs. wide, course S. E.; thence over gently
falling land.

66.80 Begin ascent, bears N. W. and S. E.

71.00 Ridge, bears N. and S.; descend.

77.00 Enter draw, course S.

79.30 Leave draw, ascend.

79.53 Set a sandstone, 18 x 8 x 4 ins., 12 ins. in the ground, for
cor. of sec. 5, 6, 31 and 32, marked with 1 notch on W.
and 5 notches on E. edge, from which

A cedar, 24 ins. diam, bears N. 66 1/2° E., 175 lbs. dist., marked
S 18 N R 4 E S 32 B S.

Chains

A cedar, 30 ins. diam, bears S. 27 1/2° E, 217 lbs. dist, marked S. 17 N. R. 4 E S. 5 B S. with other trees within limit, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Land, gently rolling, mountainous and level. Soil, sandy and gravelly loam and stony; 2nd, 3rd and 4th rats. Timber cedar. Mountainous or land covered with dense undergrowth, 22.70 chs. December 30, 1904.

December 31: At 8^h 40^m a.m. p.m. t. I set off 34° 51' on the lat. arc, 23° 3' S. on the decl. arc, and determined true meridian with the solar at the cor. of secs. 5, 6, 31 and 32.

Shovel 6 run S. 89° 52' E, bet. secs. 5 and 32.

Over mountainous land, ascending through scattering cedar and dense brush.

- 16.00 Bridge, 150 ft. above sec. end, bears N. and S.; descend.
- 40.00 Set a sandstone, 18 x 10 x 8 ins., 12 ins. in the ground, for 1/4 sec. end, marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pts. impracticable.
- 46.60 Trail, bears N. and S.
- 50.60 Dry wash, 20 lbs. width, course S. E.; ascend.
- 66.00 Bridge, bears N. and S.; descend.
- 69.70 Draw, 80 lbs. width, course S.; ascend.
- 80.00 Set a sandstone, 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, marked with 2 notches on W. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Land, mountainous. Soil, sandy, gravelly and stony; 3rd and 4th rats. Timber, no few cedar, undergrowth, *Trisetilla* and *algambat*. Mountainous or land covered with dense undergrowth, 80.00 chs.

S. 89° 52' E, bet. secs. 4 and 33.

Over mountainous land, ascending through dense *Trisetilla* brush.

- 2.00 Bridge, bears N. W. and S. E.; descend.

6 chains
 6.70 Road, bars N. W. and S. E.
 18.85 Dry wash, 15 lbs. wide, course S. E.; ascend.
 21.00 Bridge, 130 ft. above gulch, bars N. W. and S. E.; descend.
 33.00 Slowing creek, 40 lbs. wide, course S. E.; ascend.
 40.00 Set a symite stone, 18x8x6 ins., 12 ins. in the ground, for 1/4 sec. cor. marked 4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Site impracticable.
 48.00 Bridge, 100 ft. above creek, bars N. and S. W.; descend.
 57.30 Dry wash, 30 lbs. wide, course S. W.; ascend.
 67.00 Bridge, bars N. W. and S. E.; descend.
 69.00 Draw, 1 ch. wide, course S. W.; begin steep ascent.
 79.00 Bridge, 140 ft. above draw, bars N. and S.; descend.
 80.00 Set a sandstone, 18x9x6 ins., 12 ins. in the ground, for cor. of sres. 3, 4, 33 and 34, marked with 3 notches on W. and E. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Site impracticable.
 Land, mountainous.
 Soil, gravelly, and stony; 3rd and 4th rate.
 Timber, a few cedars, hawthorn, hickory and algonquin.
 Mountainous or land covered with dense undergrowth, 80.00 chs.
 December 31: At this cor. I set off 23° 4' S. on the dial arc, and at 12^h 6^m l. m. t. observed the sun on the meridian; the resulting lat. is 34° 52' or within 0.3' of the proper lat.

S. 89° 52' E., bet. sres. 3 and 34.
 Over mountainous land, descending through dense brush.
 39.00 Dry wash, 300 ft. below cor. of sres. 3, 4, 33 and 34, 30 lbs. wide, course S.; ascend.
 40.00 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for 1/4 sec. cor. marked 4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Site impracticable.
 45.00 Spur, extending S.; descend.
 51.00 Dry wash, 10 lbs. wide, course S. W.; ascend.
 59.00 Spur, bars N. W. and S. W.; enter level land.
 67.00 Descend.
 69.80 Dry wash, 10 lbs. wide, course S. W.; ascend.
 80.00 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for cor. of sres. 2, 3, 34 and 35, marked with 4 notches on W. and 2 notches on E. edge; and raise a mound of stone, 2 ft.

Chains

base, 1 1/2 ft. high, W. of cor. Pits inaccessible.
 Land, mountains and level.
 Soil, gravelly and stony; 3rd and 4th rate.
 Timber, scattering cedar, undergrowth, algarovita and
 tsotilla.
 Mountains or land covered with dense undergrowth,
 80.00 chs.

S. 89° 52' E., bet. sres. 2 and 35.
 Over mountainous land, ascending through scattering
 cedar timber and dense brush.

5.00 Bridge, bears N. and S.; ascend.

14.20 Dry wash, 20 lbs. wide, ascend S.; ascend.

26.00 Bridge, 100 ft. above wash, bears N. and S. W.; descend.

40.00 Spt of sandstone, 18 x 10 x 4 ins., 12 ins. in str. ground; foot
 1/4 s.e. cor. marked 1/4 on N. face; from which
 A cedar, 34 ins. diam., bears N. 39 1/2° E., 204 lbs. dist., marked
 1/4 S 35 B S.

A cedar, 6 ins. diam., bears S. 3° E., 127 lbs. dist., marked
 1/11 S 2 B S.

42.50 Dry wash, 40 lbs. wide, ascend S. W.; stoned over rolling land.

48.00 Enter heavy cedar timber, bears N. and S.

59.00 Cross heavy timber, bears N. W. and S. E.

80.00 Spt of conglomerate stone, 18 x 7 x 5 ins., 12 ins. in the ground,
 for cor. of sres. 1, 2, 35 and 36, marked with 5 notches on W.
 and 1 notch on E. face; from which

A cedar, 5 ins. diam., bears S. 29 1/2° E., 109 lbs. dist., marked
 S 17 N R 4 E S 1 B S.

A cedar, 7 ins. diam., bears S. 10 1/2° N., 170 lbs. dist., marked
 S 17 N R 4 E S 2 B S.

A cedar, 10 ins. diam., bears N. 74 1/4° N., 151 lbs. dist., marked
 S 18 N R 4 E S 35 B S; no other tree within limit, and raise
 a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous and rolling.

Timber, cedar, undergrowth, algarovita and tsotilla.

Mountains, heavily timbered or land covered with dense
 undergrowth, 80.00 chs.

S. 89° 52' E., bet. sres. 1 and 36.

Over rolling land, through heavy cedar timber and dense
 brush.

Chains
14.75 Dry wash, 20 lbs. rock, course S. E., lower heavy rock.
33.00 Draw, 2 chs. rock, course S.
34.00 Remter heavy rock, bears N. and S.
40.00 Set a sandstone, 18 x 8 x 4 ins., 12 ins. in the ground, for
1/4 sec. cor. marked 4 on N. face, from which
A rock, 8 ins. diam., bears S. 41 1/2° E., 72 lbs. dist., marked
1/4 S 1° B S.
A rock, 5 ins. diam., bears N. 15 1/4° W., 28 lbs. dist., marked
1/4 S 3 1/2° B S., and raise a mound of stone, 2 ft. base, 1 1/2
ft. high, N. of cor.
72.85 Dry wash, 30 lbs. rock, course S.
80.00 Put cor. of Sps. 17 and 18 N., R. 4, and 5 E.
Land, rolling.
Soil, gravelly and stony; 3rd and 4th rates.
Timber, cedar, undergrowth, algarrota, palo christo
and totolilla.
Heavily timbered or land covered with dense undergrowth,
80.00 chs.

December 31, 1904.
Note - All cor. established on this two lines by Deputy
Herbert B. Maxson have been destroyed.

Edgar L. Dietrich
W. S. Deputy Surveyor

LINE DESIGNATED	TRUE BEAR.	DISTANCE	LATITUDES		DEPARTURES	
			N+	S-	E+	W-
A STAND. 11 NORTH	EAST	480.00			480.00	
EAST BOUNDARY	NORTH	480.00 478.91	480.00			
NORTH BOUNDARY	1789-52	479.53	1.10			479.53
WEST BOUNDARY	SOUTH	480.00		480.00		
CONVERGENCY			481.10			45
			480.01	480.00	480.00	479.98
			480.00		479.98	
		ERROR IN LAT	6.10	1.07		.02 ERROR IN DEP.

General Description.

The east boundary of this township passes over very rough broken and hilly country covered with heavy cedar. The north boundary passes over very heavy rolling land through heavy cedar. The west boundary passes over land mountainous and gently rolling ^{thru heavy cedar.} The south boundary passes over mountainous, heavy rolling and nearly level land. There is no living water in the township but is a good winter range for cattle.

James Tail's stock ranch is located in the southern part of sec. 15. There is a large amount of cedar timber within the confines of this township.

LIST OF NAMES.

BOOK 1812

A list of the names of the individuals employed by Edgar C. Dietrich, 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 and North boundaries of S. 17 N. R. 4 E.

showing the respective capacities in which they acted:

- John M. Gray, Chainman.
- Frank Dietrich, Chainman.
- Hugo Pfifer, Moundman.
- William M. Ward, Axman.
- Ira Owenby, Axman.
- Fred E. Miller, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar C. Dietrich, United States Deputy Surveyor, in surveying all those parts or portions of the West and North boundaries of S. 17 N. R. 4 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.
- Ira Dietrich, Chainman.
- Hugo Pfifer ✓, Moundman.
- Wm Ward ✓, Axman.
- Ira Owenby, Axman.
- Fred E. Miller ✓, Flagman.

Subscribed and sworn to before me this 31st day of December, 1899 / 1904



Edgar C. Dietrich
U. S. Deputy Surveyor

Public available

I, Edgar C. Deitrich, 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 15 day of September, 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 West and North boundaries of T. 17 N., R. 4 E.

of the Gila 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.

Edgar C. Deitrich
United States Deputy Surveyor.

Subscribed by said Edgar C. Deitrich, and sworn to before me }
this eleventh day of July 1905, 189

Frank S. Ingalls
U. S. Surveyor General



~~No notary public available~~
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona, July 25th, 189/1905

The foregoing field notes of the survey of the North and West boundaries of T. 17 N., R. 4 E. of the Gila and Salt River Base and Meridian, Territory of Arizona

executed by Edgar C. Deitrich, U. S. deputy surveyor under his contract No. 123, dated September 15th 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.