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DEC. 27. 1901
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-1846-

BOOK 1846

Book "H"

FIELD NOTES

OF THE SURVEY OF THE

West and North boundaries

of
T. 23 S. R. 17 E

-1846-

1846

Of the Gila ^{and} Salt River Meridian,

AS SURVEYED BY

P. A. Hayden

, United States Deputy Surveyor,

Under his Contract No. 115, dated March 15th, 1894

Survey commenced October 5th, 1894

Survey completed October 10th, 1894

17 27

BOOK 1846

NAMES AND DUTIES OF ASSISTANTS.

John M. Trayer,	chairman
H. W. Higgins,	chairman
Juquin Bonillas,	roundman
Manuel Salazar,	roundman
Chas. M. Pogue,	ax man
Tom Jones	ax man
Arthur Pogue	flagman

BOOK 1846

INDEX DIAGRAM.

Township 23 S., Range 17 E.

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C
BOOK 1846

PRELIMINARY OATHS OF ASSISTANTS.

WE, John M. Trayer and H. W. Huggins
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 T. 23 S. R. 17 E

John M. Trayer, Chainman.
H. W. Huggins, Chainman.

Subscribed and sworn to before me this 14th
day of September, 1894



H. G. Power
NOTARY PUBLIC,
YUMA COUNTY, ARIZONA
MY COMMISSION EXPIRES

April 27th 1908

WE, Joaquin Bonillas and Manuel Salazar
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 and North boundaries of T. 23 S. R. 17 E

Joaquin Bonillas, Moundman.
Manuel Salazar, Moundman.

Subscribed and sworn to before me this 14th
day of September, 1894



H. G. Power
NOTARY PUBLIC,
YUMA COUNTY, ARIZONA
MY COMMISSION EXPIRES

April 27th 1908

WE, Chas. M. Pogue and Tom Jones
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 T. 23 S. R. 17 E

Chas. M. Pogue, Axman.
Tom Jones, Axman.

Subscribed and sworn to before me this 14th
day of September, 1894



H. G. Power
NOTARY PUBLIC,
YUMA COUNTY, ARIZONA
MY COMMISSION EXPIRES

April 27th 1908

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 and North boundaries of T. 23 S. R. 17 E

Arthur Pogue, Flagman.

Subscribed and sworn to before me this 14th
day of September, 1894



H. G. Power
NOTARY PUBLIC,
YUMA COUNTY, ARIZONA
MY COMMISSION EXPIRES

April 27th 1908

Chains

Survey commenced October 5, 1904, and executed with a Young and Sons light mountain transit, No. 5507, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reaching 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, June 10, 1904.

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

At the cor. of Sps. 23 and 24 E., Rps. 16 and 17 E., established by me September 18, latitude $31^{\circ}23'$ N., longitude $110^{\circ}40'$ W. I set off $31^{\circ}23'$ N., on the lat. arc, $4^{\circ}50'$ on the decl. arc; and, at 3^h30^m p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

At 6^h52^m p.m., l.m.t., by my watch, which is correct, I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in this line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

October 5, 1904.

October 6: At 4^h35^m 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 October 5, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7^h50^m a.m., l.m.t., I set off $31^{\circ}23'$ N., on the lat. arc; ~~and~~ 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. ^{east} ~~west~~ of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about $9''$ east and west of the meridian established by the Polaris

Chains

observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8^h 00^m a.m. is N. 12° 31' W.; the angle thus determined gives the mag. decl. 12° 31' E.

Shyer & rim

N. lat. sec. 31 and 36

Over level land, strong heavy oak timber

4.00 Level draw, course S. E.; ascend.

15.00 Bridge, bears E. and W.; descend.

20.00 Enter draw, course S. E.

26.00 Level draw, ascend.

37.80 Bridge, 500 ft. above Sp. ev. bears N. W. and S. E.; descend.

40.00 Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. ev. marked $\frac{1}{4}$ on N. face, from which

An oak, 20 ins. diam., bears S. 61° E., 46 lbs. dist., marked $\frac{1}{4}$ S 31 B S.

An oak, 8 ins. diam., bears N. 27° W., 60 lbs. dist., marked $\frac{1}{4}$ S 36 B S.; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of ev.

44.90 Enter draw, course S. E.

45.40 Dry wash, 30 lbs. wide, course S. E.

47.80 Level draw, ascend.

73.50 Bridge, 200 ft. above draw; descend.

75.50 Gulch, 10 lbs. wide, course E.; ascend.

77.80 Spur, extending S. E.; ascend.

80.00 Set a granite stone, 18x10x8 ins., 12 ins. in the ground, for ev. of sec. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edge; from which

An oak, 10 ins. diam., bears N. 79 1/2° E., 37 lbs. dist., marked S 23 S B 17 E S 30 B S.

An oak, 6 ins. diam., bears S. 50° E., 62 lbs. dist., marked S 23 S B 17 E S 31 B S.

An oak, 10 ins. diam., bears S. 57° W., 43 lbs. dist., marked S 23 S B 16 E S 36 B S.

An oak, 10 ins. diam., bears N. 38° W., 79 lbs. dist., marked S 23 S B 16 E S 25 B S.; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of ev.

Land, mountainous and level.

Soil, gravelly; 3rd rate.

6 lines

Timber, oak.

Mountainous or hilly timbered land, 80.00 cts.

N. lat. sec. 25 and 30.

Over mountainous land, ascending through, heavy oak timber.

41.50 Bridge, bars N. W. and S. E.; ascend.

9.35 Gulch, 15 lbs. wide, course S. E.; ascend.

12.80 Bridge, bars N. W. and S. E.; ascend.

18.60 Draw, 80 lbs. wide, course S. E.; ascend.

24.20 Bridge, bars E. and W.; ascend.

26.40 Dry wash, 25 lbs. wide, course S. E.

32.25 Gulch, 20 lbs. wide, course S. E.; ascend.

40.00 Bridge, 400 ft. above sec. cor., bars E. and W.

Set a sandstone, 18 x 8 x 7 ins., 1/2 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face; from which an oak, 6 ins. diam., bears S. 48° E., 69 lbs. dist., marked 1/4 S 30 B S.

An oak, 6 ins. diam., bears N. 80° W., 89 lbs. dist., marked 1/4 S 25 B S.; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; ascend.

44.60 Dry wash, 15 lbs. wide, course E.; ascend.

48.40 Bridge, 100 ft. above wash, bars E. and W.; ascend.

53.30 Dry wash, bars S. 80° E.

55.50 Ascend.

70.00 Bridge, 200 ft. above draw, bars E. and W.; ascend.

80.00 Set a sandstone, 18 x 10 x 10 ins., 1 1/2 ins. in the ground, for cor. of sec. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edge; from which

An oak, 12 ins. diam., bears N. 28 1/2° E., 67 lbs. dist., marked S 23 S R 17 E S 19 B S.

An oak, 10 ins. diam., bears S. 31° E., 22 lbs. dist., marked S 23 S R 17 E S 30 B S.

An oak, 16 ins. diam., bears S. 56 3/4° W., 63 lbs. dist., marked S 23 S R 16 E S 25 B S.

An oak, 8 ins. diam., bears N. 52° W., 18 lbs. dist., marked S 23 S R 16 E S 24 B S.; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous.

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

Timber, oak; mesquite, oak.

Chains

Mountainous or heavily timbered land, 80.00 chs.
 October 6. At this ev. I set off $5^{\circ}10'$ on the level and
 and at 12^h 4^m l. m. t. observed the sun on the meridian; the
 resulting lat. is $31^{\circ}25'$ or within $1'$ of the proper lat.

N. lat. sres. 19 and 24.

- Over mountainous land, ascending through heavy oak timber.
- 15.00 bridge, 15 lbs. wide, course S. E.; ascend.
- 17.00 Bridge, 200 ft. above sres. ev., bears N. W. and S. E.; descend
- 23.50 bridge, 10 lbs. wide, course S. E. ascend.
- 25.00 Bridge, bears N. E. and S. W.; descend.
- 33.50 bridge, 20 lbs. wide, course N. W.; ascend.
- 40.00 Set a sandstone, $18 \times 10 \times 6$ ins., 10 ins. in the ground, for
 ev. marked $\frac{1}{4}$ on W. face; from which
 An oak, 8 ins. diam., bears N. $42^{\circ} \frac{1}{2}'$ E., 6 lbs. dist., marked
 $\frac{1}{4}$ S 19 13 S.
- An oak, 26 ins. diam., bears N. 34° W., 18 lbs. dist., marked
 $\frac{1}{4}$ S 24 13 S.; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft.
 high, W. of ev.
- 44.00 Spur, 100 ft. above bridge, extending W.; descend.
- 50.60 Enter draw, course W.
- 55.10 Road, bears W. and S. W.
- 60.50 Dry wash, 60 lbs. wide, course W.
- 61.60 Low draw; ascend.
- 80.00 Set a sandstone, $20 \times 7 \times 7$ ins., 15 ins. in the ground, for
 ev. of sres. 18, 19 and 24, marked with 3 notches on S.
 and N. edges; from which
 An oak, 8 ins. diam., bears N. $57^{\circ} \frac{1}{4}'$ E., 27 lbs. dist., marked
 S 23 S R 17 E S 18 13 S.
 An oak, 8 ins. diam., bears S. 58° E., 113 lbs. dist., marked
 S 23 S R 17 E S 19 13 S.
 An oak, 24 ins. diam., bears S. $2^{\circ} \frac{1}{4}'$ W., 96 lbs. dist., marked
 S 23 S R 16 E S 24 13 S.
 An oak, 15 ins. diam., bears N. $37^{\circ} \frac{1}{4}'$ W., 30 lbs. dist., marked
 S 23 S R 16 E S 13 13 S.; and raise a mound of stone, 2 ft. base,
 $1\frac{1}{2}$ ft. high, W. of ev.
- Land, mountainous and level.
 Soil, gravelly; 2nd and 3rd rates.
 Timber, oak; undergrowth, oak.
 Mountainous or heavily timbered land, 80.00 chs.

Chains

- N. bet. sec. 13 and 18.
Low mountainous land, ascending through heavy oak
timber.
- 10.00 Spur of spur, extending N.W. descend.
- 13.60 Gulch, 10 lbs. wide, course N.W. ascend.
- 21.00 Spur, extending N.W. descend.
- 26.70 Gulch, 10 lbs. wide, course N.W. ascend.
- 27.00 Spur, extending N.W. descend.
- 28.00 Enter draw, course N.W.
- 29.80 Dry wash, 20 lbs. wide, course N.E.
- 32.70 Gravel draw; ascend.
- 40.00 Spur of ridge, 100 ft. above draw, bears N.W. and S.W.
Set a sandstone, 18 x 10 x 6 ins., 12 ins. in the ground, for
1/4 sec. cor. marked 1/4 on N. face, from which
An oak, 12 ins. diam., bears N. 4 1/4° E., 21 lbs. dist., marked
1/4 S. 18 B S.
- An oak, 7 ins. diam., bears S. 3 1/4° W., 56 lbs. dist., marked
1/4 S. 18 B S.
- 41.00 Descend.
- 42.90 Gulch, 10 lbs. wide, course N.W.; ascend.
- 47.68 Road, bears N.W. and S.W.
- 48.00 Spur, 100 ft. above gulch, extending N.W. descend.
- 53.25 Enter draw, course N.W.
- 57.60 Gravel draw; ascend.
- 58.00 Spur extending N.W. descend.
- 60.00 Gulch, 30 lbs. wide, course N.W. ascend.
- 68.00 Spur, extending N.W. descend.
- 75.40 Enter draw, course E.; bears heavy timber, bears E. and W.
- 77.00 Gravel draw; ascend.
- 80.00 Set a sandstone, 18 x 8 x 8 ins., 12 ins. in the ground, for
cor. of sec. 7, 12, 13 and 18, marked with 4 notches on S. and
2 notches on N. edge; from which
An oak, 24 ins. diam., bears N. 31 1/4° E., 305 lbs. dist., marked
S 23 S B 17 E S 7 B S.
- An oak, 8 ins. diam., bears N. 28° W., 285 lbs. dist., marked
S 23 S B 16 E S 12 B S; on other trees, and raise a mound
of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
Land, mountainous and level.
Soil, gravelly; 2nd and 3rd water.
Timber, oak,
Mountainous or heavily timbered land, 80.00 lbs.

chains

October 6, 1914.

October 7: At 4^h 45^m a.m., l.m.t., I set off 31027' N on the lat. arc, ~~5° 28' 18" S~~ on the circ. arc, and determined a meridian with the solar at the end of sres. 7, 12, 13 and 18. I began to run

N. lat. sres. 7 and 12.

Over mountainous land, ascending through oak timber.

- 8.35 Bridge, bars N. and S. W.
- 9.70 Bridge, bars N. and S. W.; ascend.
- 23.00 Gulch, 20 lbs. wide, course N. N. E.; ascend.
- 27.00 Spur, bars N. W. and S. E.; ascend through heavy oak timber.
- 29.00 Enter drain, course N. E.
- 33.10 Broad creek, ascend.
- 40.00 Set a granite stone, 18 x 8 x 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sres. ev. marked $\frac{1}{4}$ on N. face, from which an oak, 10 ins. diam., bars S. 46° E, 60 lbs. dist., marked $\frac{1}{4}$ S 7° 13 S.
- An oak, 15 ins. diam., bars S. 33 $\frac{1}{2}$ ° W., 41 lbs. dist., marked $\frac{1}{4}$ S 12° 13 S, and raise a mound of stone, 2 ft. base, 12 ft. high, W. of ev.
- 41.00 Spur, extending S. E.; ascend.
- 42.30 Drain, 90 lbs. wide, course S. E.; ascend.
- 50.00 Bridge, bars N. W. and S. E.; ascend.
- 52.00 Gulch, 10 lbs. wide, course S. E.; ascend.
- 54.10 Bridge, bars N. and S. W.; ascend.
- 58.50 Gulch, 15 lbs. wide, course N. E.; ascend.
- 63.00 Bridge, 200 ft. above gulch, bars E. and N.; ascend.
- 74.70 Gulch, 30 lbs. wide, course N. E.; ascend.
- 80.00 Set a granite stone, 20 x 10 x 10 ins., 15 ins. in the ground, for ev. of sres. 1, 6, 7 and 10, marked with 5 notch on S. and 1 notch on N. edge; from which an oak, 6 ins. diam., bars N. 23 $\frac{1}{4}$ ° E, 90 lbs. dist., marked S 23 S R 17 E S 6° 13 S.
- An oak, 12 ins. diam., bars S. 15 $\frac{1}{4}$ ° E, 97 lbs. dist., marked S 23 S R 17 E S 7° 13 S.
- An oak, 6 ins. diam., bars S. 73 $\frac{1}{2}$ ° W., 176 lbs. dist., marked S 23 S R 16 E S 12° 13 S.
- An oak, 12 ins. diam., bars N. 21° W., 109 lbs. dist., marked S 23 S R 16 E S 1° 13 S; and raise a mound of stone, 2 ft.

Chains

ft. base, 1 1/2 ft. high, N. of ev.
Round, unimpaired and fresh.
Soil, gravelly, and and and rate.
Smaller, with.
Unimpaired or heavily timbered land. 50.00 & h.

N. bet. sec. 1 and 6.
Over unimpaired land, ascending through heavy oak timber.

- .50 Bridge, bears E. and N. ascends.
- 7.40 Road, bears N 50° W. and S 50° E.
- 8.10 Dry wash, 30 lbs. wide, course N. W.
- 12.00 Ascend.
- 12.50 Spur, extending S. W. descend
- 14.30 Dry wash, 30 lbs. wide, course S. W. ascend.
- 29.00 Bridge, 300 ft. above wash, bears E. and N. ascend
- 34.00 Road, bears E. and N. ascend.
- 39.00 Set a granite stone, 18 x 10 x 10 ins, 12 ins in the ground, for nitrous ev. to 1/4 sec ev. marked N 6 1/2° W. from which
- A pinon, 6 ins. diam, bears N. 70° E, 23 lbs. dist., marked N 6 1/2° S 6 1/2° S.
- A pinon, 6 ins. diam, bears S. 65° W., 33 lbs. dist., marked N 6 1/2° S 1 1/2° S; and raise a mound of stone, 2 ft. base, 1 1/2 high, N. of ev.
- 41.00 Stalls in small gulch, course N.
- 56.00 Spur, 200 ft. above gulch, extending N. ascend.
- 63.00 Road, bears N. W. and S. E.
- 63.40 Dry wash, 20 lbs. wide, course N. W. ascend.
- 72.00 Bridge, bears E. and N. ascend.
- 74.30 Dry gulch, 20 lbs. wide, course N. ascend.
- 80.00 Set a malpais stone, 18 x 12 x 12 ins, 12 ins. in the ground for ev. of S 22 and 23 S, R. 16 and 17 E, marked with 6 notches on each side; from which
- An oak, 20 ins. diam, bears N. 33 1/2° E, 57 lbs. dist., marked S 22 S R 17 E S 31 1/2 S.
- An oak, 24 ins. diam, bears S. 76 1/2° E, 44 lbs. dist., marked S 23 S R 17 E S 6 3 S.
- An oak, 5 ins. diam, bears S. 26 3/4° W., 34 lbs. dist., marked S 23 S R 16 E S 1 1/2 S.
- An oak, 8 ins. diam, bears N. 74 1/2° W., 173 lbs. dist., marked

North boundary of T 23 S, R 17 E.

Chains

S 22 S R 16 E S 36 B S; and raise a mound of stone, 3 ft base, 2 ft high, S. of cr.
Land, mountainous.
Soil, gravelly and stony; 3rd and 4th rate.
Timber, oak and scattering juniper.
Mountainous or heavily timbered land, 50.00 chs.

October 7, 1904.

General Description.

This line runs over mountainous land through oak timber. Sp. 23 S, R. 17 E, is mountainous.

Philip Cantzen
A. S. Deputy Surveyor

North boundary of T 23 S, R. 17 E.

October 8: At 7^h 35^m a. m. l. m. t., I set off $31^{\circ}28'N$ on the lat. arc, ~~$5^{\circ}50'18''S$~~ on the circ. arc; and determined true meridian with the solar at the cr. of T 22 and 23 S, R. 16 and 17 E.

Plumer Run.

East on a random line, along the N. bay of Sp. 23 S, R. 17 E, setting trip. in sec. and sec. crs. at intervals of 40.00 chs. set first cr. at 39.00 chs, and at 479.00 chs, intersect the 3rd Guide Meridian 30 chs. N. of the cr. of T 22 and 23 S, R. 17 and 18 E, which is a sandstone 6x10x3 ins. about ground, marked and witnessed as described by the Surveyor general. The falling answers to a correction of 2' or 5 lps S per mile counting from the N. W. cr. of the Sp, therefore I run $N. 89^{\circ}58' W$, lat. crs. 1 and 36.

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

- 10.75 Dry wash, 57 chs. wide, cr. on S. W.
- 19.50 Dry wash, 20 chs. wide, cr. on S. W.
- 29.48 Old mound, crs. N. W. and S. W.
- 40.00 Set a malpais stone, 18x8x7 ins, 12 ins. in the ground, for $\frac{1}{4}$ sec. marked $\frac{1}{4}$ on N. face, from which
- 812 An oak, 8 ins. diam, crs. N. 9° E, 92 chs. dist, marked $\frac{1}{4}$ S 36 B S.

6 chains
 For only 8 ins. diam. bears S. 73 1/2° W. 21 lbs. dist. marked
 S 23 N. and raise a mound of stone 2 ft. base, 12 ft. high
 N. of ev.
 41.50 Dry wash, 30 lbs. wide, course S. W.
 53.00 Round, 100 lbs. wide course S. W.; heavy timber bears
 N. E. and S. W.
 69.85 Round, bears N. E. and S. W.
 80.00 Set a granite stone, 18 x 10 x 8 ins. 12 ins. in the ground, for
 ev. of sres. 1, 2, 35 and 36, marked with 2 notches on E. and 5
 notches on W. edge; from which
 An oak, 20 ins. diam., bears S. 18 1/2° E., 180 lbs. dist. marked
 S 23 N 17 E S 13 N.
 An oak, 10 ins. diam. bears S. 37° W., 35 lbs. dist. marked
 S 23 N 17 E S 13 N. no other trees within limit, and raised
 a mound of stone, 2 ft. base, 12 ft. high, N. of ev.
 Sand, nothing.
 Soil, gravelly and stony; soil same with note.
 Timber, oak, mesquite, oak and mesquite.
 Obviously timbered or land covered with dense undergrowth,
 80.00 chs. October 8, 1904.

October 9: At 4:30^{am} a.m. l.m.t., I set off 31028' W on the lat.
 line, ^{6.13} on the circ. arc; and determine a true
 meridian with the solar at the ev. of sres. 1, 2, 35 and 36.
 Primer 3 run

N. 89° 58' W. lat. sres. 2 and 35.
 For milling land, through dense oak brush.
 6.00 Enter heavy oak timber, bears N. E. and S. W.
 11.75 Round, bears N. E. and S. W.
 34.50 Dry wash, 30 lbs. wide, course S. E. bears heavy timber and
 dense brush, bears N. and S.
 40.00 Set a malpais stone, 18 x 10 x 8 ins. 12 ins. in the ground,
 for 1/4 sres. ev. marked = 18 x 18 x 12 ins. and raise a mound of stone 2 ft. base, 12 ft. high, N. of ev.
 E. and W. of stone; 5 1/2 ft. base, 12 ft. high, N. of ev.
 79.00 Dry wash, 35 lbs. wide, course S.
 80.00 Set a malpais stone, 18 x 10 x 8 ins. 12 ins. in the ground,
 for ev. of sres. 2, 3, 34 and 35, marked with 2 notches on E.
 and 4 notches on W. edge; from which
 An oak, 8 ins. diam., bears S. 54 1/2° W., 200 lbs. dist. marked
 S 23 N 17 E S 13 N.
 An oak, 10 ins. diam. bears N. 59 1/4° W., 134 lbs. dist. marked

Chain

S 22 S, R 17 E S 34 S S, no other trees within limit, and
raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of cor.
Corner, rolling.
Soil, gravelly and stony; 2nd and 4th rates.
Timber, oak, undergrowth, oak.
Gravelly timbered or land covered with moss undergrowth
34.50 chs.

N. 89° 58' W., bet. sres. 3 and 34.
Dirt rolling land, through scattering oak timber.

- 17.30 Dry wash, 40 lbs. wide, course 8.
- 31.00 Road, bars N. W. and S. E.
- 40.00 Set a malpais stone, 18 x 12 x 10 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.
- 48.35 Road, bars N. and S. W.
- 80.00 Set a malpais stone, 20 x 12 x 10 ins., 15 ins. in the ground,
for cor. of sres. 3, 4, 33 and 34, marked with 3 notches on E.
and N. verges, and raise a mound of stone, 3 ft. base, 2 ft.
high, N. of cor.
Land, rolling.
Soil, gravelly land and stony; 2nd, 3rd and 4th rates.
Timber, scattering oak.

N. 89° 58' W., bet. sres. 4 and 33.
Dirt rolling land.

- 110.50 Road, bars N. W. and S. E.
- 120.00 Set a sandstone, 15 x 10 x 8 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.
- 142.00 Old road, bars N. W. and S. E.
- 148.50 Dry wash, 10 lbs. wide, course 8.
- 160.50 Old road, bars N. W. and S. E.
- 160.60 Wire fence, bars N. W. and S. E.
- 167.00 Enter valley; course 8.
- 173.50 Dry wash, 50 lbs. wide, course 8.
- 180.00 Set a malpais stone, 18 x 10 x 7 ins., 12 ins. in the ground,
for cor. of sres. 4, 5, 32 and 33, marked with 4 notches on
E. and 2 notches on N. edge, and raise a mound of stone
2 ft. base, 1 1/2 ft. high, N. of cor.
Land, rolling.

6 chains

Soil, gravelly loam, 2nd and 3rd rate.
No timber.
Heavy rains prevented further work this date.
October 9, 1904.

October 10: at 7^h 20^m a.m. I set off 310[±] 8/10 on the
lat. line, 60° 35' S on the creek way, and determine
a true meridian to the solar alt. at the cor. of secs. 4, 5,
22 and 23.

Stinner Farm
N. 89° 58' W. lat. secs. 5 and 22.
Over level land.

- 3.00 Cross valley; Stinner over rolling land.
- 34.85 Wire fence, bars N. and S.
- 40.00 Set a malpais stone, 18 x 10 x 8 ins. 12 ins. in the ground, for
1/4 sec. cor. marked 1/4 on N. face, and raise a mound of
stone 2 ft. base, 1 1/2 ft. high, N. of cor.
- 53.00 Dry wash, 10 lbs. rock, course S.
- 63.00 Enter wash, course S. E.
- 71.00 Cross wash, course E.
- 80.00 Set a sandstone, 20 x 12 x 4 ins., 15 ins. in the ground, for cor.
of secs. 5, 21 and 22, marked with 5 in. ticks on E. and S.
notch on N. face, found which
is under, 30 ins. diam. bars S. 49° E. 100 lbs. stone marked
S 23 & R 17 & S 5 & 6 by number trees, and raise a mound
of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
Land, rolling.
Soil, gravelly loam, 2nd and 3rd rate.
No timber.

N. 89° 58' W. lat. secs. 6 and 31.
Over level land.

- 3.000 Enter rolling land and scattering oak timber
- 34.85 Wire fence, bars N. and S.
- 36.00 Enter heavy oak timber, bars N. and S.
- 40.00 Set a malpais stone, 18 x 10 x 8 ins. 12 ins. in the ground, for
1/4 sec. cor. marked 1/4 on N. face, and raise a mound of
stone 2 ft. base, 1 1/2 ft. high, N. of cor. also road.
- 50.10 Dry wash, 15 lbs. rock, course N. W. ascend.
- 62.00 Ridge, bars N. and S; descend.
- 77.00 Gulch, 10 lbs. rock, course S. E. ascend.
- 79.00 A line of Mrs. 22 and 23 S. Rs. 16 and 17 E.

* from which an
oak, 10 ins. diam., 60
ft. 1/2 to 157 lbs. dist.
marked 1/4 S 5 & 6.
An oak, 6 ins. diam.,
bars N. 39 3/4° W. 128
lbs. dist., marked
1/4 S 31 B S;

Chains

Land, mountainous and rolling.

Soil, gravelly; red oak.

Timber, oak.

Mountainous or heavily timbered land, 413.00 cts.

October 10, 1904.

Philip Conzen
U.S. Deputy Surveyor.

For authority red ink corrections see
deputy's letter of Jan'y 26, 1905.

LIST OF NAMES.

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 West and North boundaries of T. 23 S. R. 17 E

showing the respective capacities in which they acted:

- John M. Trayer* Chainman.
- H. W. Huggins* Chainman.
- Juquin Bonillas* Moundman.
- Manuel Salazar* Moundman.
- Chas. M. Pogue* Axman.
- Tom Jones* Axman.
- Arthur Pogue* 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

West and North boundaries of T. 23 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* Chainman.
- H. W. Huggins* Chainman.
- Juquin Bonillas* Moundman.
- Manuel Salazar* Moundman.
- Chas. M. Pogue* Axman.
- Tom Jones* Axman.
- Arthur Pogue* Flagman.

Subscribed and sworn to before me this

17th

day of *December*, 18*90*



H. G. Power
NOTARY PUBLIC.

IMA COUNTY, ARIZONA.
MY COMMISSION EXPIRES

April 27th 1908

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 15th day of March, 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. 23 S. R. 17 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 17th day of December, 1894



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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A.T., March 31, 1905

The foregoing field notes of the survey of the North and West Boundaries of T. 23 S. R. 17 E. of the Gila and Salt River Base and Meridian in the Territory of Arizona

executed by Philip Contzen, U.S. Deputy Surveyor under his contract No. 115, dated March 15, 1905, 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.