

2141

Book A

accepted, Letter E. July 14-1910

FIELD NOTES

2141

2141

OF THE SURVEY OF THE

Re-survey of 2nd Std. Par. N.
 thro' Range 23 E. ^{sub part of R 22 E.}
 Trac. East bdy. T 8 N. R 23 E.
 " West " " " "

2141

Of the Gila and Salt River Basins Meridian,
 Arizona

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 133, dated May 26, 1905

Survey commenced Nov 16th, 1908

Survey completed Nov 19th, 1908

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BOOK 2141

NAMES AND DUTIES OF ASSISTANTS.

Jahn Adair Chammon

Roy Perrod "

Delbert A Perrod Flemons

44 10

BOOK 2141

PRELIMINARY OATHS OF ASSISTANTS.

WE, John Adair and Roy Penrod
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon 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 2nd Sta. Por. N. Thro' R 23 E. and True E + W. base T 8 N R 23 E

John W. Adair, Chainman.

Roy Penrod, Chainman.

James L Penrod "
George Hall "

Subscribed and sworn to before me this 16th
day of Nov, 1908

Jesse B Wright
N. S. Dep. Surveyor



WE, _____ 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 _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



WE, _____ 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 _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



I, Delbert A Penrod, 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 2nd Sta. Por. N. Thro' R 23 E. True E + W. base T 8 N R 23 E

Delbert A Penrod, Flagman.

Subscribed and sworn to before me this 16th
day of Nov, 1908

Jesse B Wright
N. S. Dep. Surveyor



RECOVERY OF 2nd Standard Parallel North, through R. 23 E. 1.

Chains.

Survey commenced Nov. 16, 1908, and executed with a W. and L. E. Gurley light mountain transit, special make, unnumbered. The plates of this instrument are provided with two double verniers, each reading to 1' of arc, and with Burt's patent solar attachment, the latitude and declination arcs reading by verniers to 30" of arc.

Preliminary to commencing the subdivision of T. 8 N., R. 23 E., I examine the 2nd Standard Parallel N. along the S. bdy. of T. 9 N., R. 23 E., from which I am instructed to initiate my survey of T. 8 N., R. 23 E.

I find the corners in a dilapidated condition, several of them obliterated and out of limits in distance in part of this line. Hence, I find it necessary to re-survey this line through R. 23 E. before subdividing T. 8 N., R. 23 E.

I examine and test carefully the levels and line of collimation of my instrument; also the decl. arc, the solar lines and lenses, and polar axis of the solar attachment, and find same in satisfactory adjustment as to tests.

In order to test the solar attachment by comparing a.m. and p.m. observations for meridian with a meridian established by polaris observation, I proceed as follows:

At 5h. p.m., l.m.t., at the standard cor. of Tps. 9 N., Rs. 22 and 23 E.; latitude, $34^{\circ}04'38''$ N., longitude, $109^{\circ}58'44''$ W., which is a basalt stone 16x12 ins. x 10 ins. above ground, marked and witnessed as described by the Surveyor General, I set off $18^{\circ}48'$ S. on the decl. arc, and $34^{\circ}04'30''$ N. on the latitude arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a tack in a stake driven in the ground 5 chs. N. of my station.

Nov. 17, 1908. At 3h. 40m. a.m., l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined by a cross on a fixed stone 5 chs. N. of my station.

At 7h. 30m. a.m., l.m.t., I set off the azimuth of polaris $1^{\circ}26'$ to the east, and mark a point in the meridian thus determined by a tack in the stake 5 chs. N. of my station, which point falls $1/4$ ins. W. of the meridian determined by the solar on preceding evening.

At 8h. 30m. a.m., l.m.t., I set off $18^{\circ}57'$ S. on the decl. arc, and determine a meridian with the solar. This meridian gives a line coinciding with the meridian as established by polaris observation. From these observations I conclude that my instrument is in satisfactory adjustment. The magnetic bearing of the true meridian at 8h. a.m. is $14^{\circ}55'$ W., which angle gives the magnetic variation at this point as $14^{\circ}55'$ E.

From this cor. I run,
East on a random line, along S. bdy. sec. 31.
Var. $14^{\circ}55'$ E.

40.00 No sign of old cor. found after diligent search. I leave temporary corner on line, and continue east.

30.18 Evident remains of old cor. 5 lks. S. of line; I leave temporary cor., and run from old cor.

East, on a random line, on S. bdy. of sec. 32.

40.14 Find remains of old cor. 17 lks. S. of line, from which I run East, continuing measurement.

30.40 Old cor. of secs. 32 and 33, on line.

Thence I run,

East on a random line, on S. bdy. sec. 33.

40.16 Old $1/4$ sec. cor. is 8 lks. S. of the line, whence I run, continuing measurement east.

3. Resurvey of 2nd Stand Parallel North, through Range 33 E.

chains.
80.46 Evident remains of old cor. 14 lks. N. of line.
Whence I run,
East, on a random line on S. bdy. sec. 34.
40.20 Old standard 1/4 sec. cor. is 10 lks. N. of line, whence I
run, continuing measurement.
80.50 Old standard cor. of secs. 34 and 35 is North, 8 lks. dist.,
whence I run,
east, on a random line on S. bdy. sec. 35.
40.00 No sign of original standard 1/4 sec. cor. found after
diligent search.
80.64 Find old standard cor. of secs. 35 and 36, 20 lks. N. of
line, whence I run,
East, on a random line on S. bdy. sec. 36.
40.15 Find old standard 1/4 sec. cor. 8 lks. N. of line, whence
I run, continuing measurement.
80.55 Find old standard cor. of Tps. 9 N., Rs. 23 and 24 E., 16
lks. N. of line, which is a basalt stone firmly set and
marked and witnessed as described by the Surveyor
General.
I re-build a mound of stone 3 ft. base, 2 ft. high, N. of
cor.
Thence I run,
S. 89° 55' W. over rolling land, through heavy pine timber.
Difference between measurements of 40.20 chs. by
two sets of chainmen is 4 lks.; position of middle
point
By 1st set, 40.15 chs.
By 2nd set, 40.22 chs., the mean of which is
40.20 Original standard 1/4 sec. cor. on line, which is a basalt
stone marked and witnessed as described by the Sur-
veyor General. I reestablish this corner in its
original position, and raise a mound of stone 2 ft.
base, 1-1/2 ft. high, N. of cor.
45.37 As per instructions set a malpais stone 50x15x6 ins., 24
ins. in the ground for closing cor. of T. 8 N., R. 23
and 24 E., marked with 6 grooves on S., E. and W.
faces, and 6 on S. face, and raise a mound of stone 2
ft. base, 1-1/2 ft. high, S. of cor., from which,
A pine tree, 10 ins. diam., brs. S. 75-1/4° E., 31
lks. dist., marked T 8 N R 24 E S S S S S T.
A pine tree, 24 ins. diam., brs. S. 6° W., 74 lks.
dist., marked T 8 N R 23 E S 1 S S S T.
Difference between measurements of 80.55 chs. by two
sets of chainmen is 10 lks.; position of middle
point
By 1st set, 80.40 chs.
By 2nd set, 80.50 chs., the mean of which is
80.55 To original standard cor. of secs. 35 and 36, which is a
basalt stone firmly set, marked and witnessed as de-
scribed by the Surveyor General.
This cor. I reestablish in its original position, and re-
build the mound of stone 2 ft. base, 1-1/2 ft. high, N.
of cor.
Land, rolling.
Soil, 2nd and 3rd rate, stony.
Timber, heavy pine and scattering oak.
Heavily timbered land, 80.55 chs.
At this cor. at 11h. 45m., l.m.t., I set off 13° 01' S. on
the decl. arc, and observe the sun on the meridian; the
resulting lat. is 34° 04' N.

Thence I run,
S. 89° 51' W., on a true line on S. bdy. sec. 35.
Var. 14° E.
Over rolling land, through heavy pine.
Difference between measurements of 40.22 chs. by two sets
of chainmen is 6 lks.; position of middle point
By 1st set, 40.35 chs.
By 2nd set, 40.29 chs., the mean of which is

Chains.
40.52

Set a malpais stone 24x10x8 ins., 18 ins. in the ground, for standard 1/4 sec. cor., marked S C 1/4 on N. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., from which,
A pine tree, 24 ins. diam., brs. N. 41-1/4° E., 45 lks. lks. dist., marked S C 1/4 S 35 B T.
No other bearings available.

Difference between measurements of 80.64 chs. by two sets of chainmen is 8 lks.; position of middle point
By 1st set, 80.68 chs.
By 2nd set, 80.60 chs., the mean of which is

80.64

To original standard cor. of secs. 34 and 35, which is a basalt stone firmly set, and marked and witnessed as described by the Surveyor General. I reestablish this cor. in its original position, and re-build the mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor.
Land, rolling.
Soil, 2nd and 3rd rate, stony.
Timber, heavy pine and oak.
Heavily timbered land, 80.64 chs.

S. 89° 55' W., on a true line on S. bdy. sec. 34.
Over rolling land, through heavy pine and oak.
Difference between measurements of 40.10 chs. by two sets of chainmen is 4 lks.; position of middle point

40.10

By 1st set, 40.08 chs.
By 2nd set, 40.12 chs., the mean of which is
To original standard 1/4 sec. cor., which is a basalt stone, marked and witnessed as described by the Surveyor General. I reestablish this cor. in its original position, and re-build the mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor.

Thence I run, continuing measurement,
S. 89° 51' W., on a true line on S. bdy. sec. 34.
Difference between measurements of 80.50 chs. by two sets of chainmen is 10 lks.; position of middle point

80.50

By 1st set, 80.35 chs.
By 2nd set, 80.25 chs., the mean of which is
Remains of original standard cor. of secs. 33 and 34 on line. This cor. I reestablish in its original position by setting a basalt stone 24x12x10 ins., 18 ins. in the ground for standard corner of secs. 33 and 34, marked S C on N. with 3 grooves on E. and W. faces, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., from which,
A pine tree, 15 ins. diam., brs. N. 39-1/4° W., 54 lks. dist., marked T 9 N R 23 E S 33 B T.
A pine tree, 10 ins. diam., brs. N. 34-1/4° E., 80 lks. dist., marked T 9 N R 23 E S 34 B T.

Land, rolling.
Soil, 2nd and 3rd rate, stony.
Timber, heavy pine and oak.
Heavily timbered land, 80.50 chs.

Nov. 17, 1908.

Nov. 18, 1908. At 8h. a.m., 1 p.m. t. At this last described cor. I set off 19° 11' S. on the decl. arc, and 34° 04' 30" N. on the lat. arc, and determine a true meridian with the solar, thence I run,

40.50

S. 89° 48' W., on a true line on S. bdy. sec. 33.
Over heavily rolling land, through heavy pine and oak.
Difference between measurements of 40.50 chs. by two sets of chainmen is 12 lks.; position of middle point
By 1st set, 40.36 chs.
By 2nd set, 40.24 chs., the mean of which is
Original standard 1/4 sec. cor., on line marked and witnessed as described by the Surveyor General.

4. Runway 2nd Standard Parallel North through Range 23 East.

chains.

- I reestablish this cor. in its original position, and re-build the mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor.
Thence I run, continuing measurement S. 89° 53' W.
Difference between measurements of 80.46 chs. by two sets of chainment is 8 lks.; position of middle point
By 1st set, 80.50 chs.
By 2nd set, 80.42 chs., the mean of which is
80.46 To original standard cor. of secs. 32 and 33, on line, which is a basalt stone, marked and witnessed as described by the Surveyor General. This cor. I re-establish in its original position, and re-build the mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor.
Land, rolling, heavily timbered.
Soil, 2nd and 3rd rate, stony.
Timber, heavy pine and oak.
Heavily timbered land, 80.46 chs.
-
- Thence I run,
West, on a true line on S. by sec. 32.
Over rolling mesa, through heavy pine and oak; descend.
13.00 Bottom of descent.
13.37 House of H. J. Hansen on line.
At 15 chs. I run N. 1 ch., thence W. 3 chs. on offset;
thence S. 1 ch. to line at
15.00 On true line.
14.80 End of fence on line, thence along same.
21.00 Saw mill brs. S. 2 chs. dist.
22.00 Stream of clear water, 10 lks. wide, 1 ft. deep, course N. 45° W.
38.00 House of Jack Evans brs. N. 75 lks. dist.
Difference between measurements of 40.26 chs. by two sets of chainmen is 8 lks.; position of middle point
By 1st set, 40.22 chs.
By 2nd set, 40.30 chs., the mean of which is
40.26 Remains of old standard 1/4 sec. cor. on line. I re-establish this corner in its original position by setting a malpais stone 8x12x18 ins., 12 ins. in the ground to bed rock with mound of stone around it, stone marked S 1/4 on N. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., from which
An oak tree, 24 ins. diam., brs. N. 62° E., 168 lks. dist., marked S 1/4 S 32 B T.
A pine tree, 24 ins. diam., brs. N. 75° W., 141 lks. dist., marked S 1/4 S 32 B T.
Thence I run,
N. 89° 45' W., continuing measurement, along road.
42.00 House of D. L. Penrod, brs. N. 75 lks. dist.
42.50 Irrigating ditch, brs. N. and S.
43.00 store of S. McCoy, brs. S. 3 chs. dist.
44.00 House of S. McCoy, brs. S. 3.00 chs. dist.
47.50 Saloon of D. L. Penrod and Company, brs. N. 40 lks. dist.
53.50 Leave road to SE.; enter dense pine.
54.50 House of George Hall, brs. N. 2.00 chs. dist.
55.00 Showlow and Pinetop road, brs. NW. and SE.
56.00 House of George Hall brs. N. 7.00 chs. dist.
59.00 Wood road, brs. NW. and SE.
62.50 Fort Apache-Helbrook telegraph line, brs. NW. and SE.
63.00 School house brs. S. 2.50 chs. dist.
74.00 House of Delbert Penrod, brs. S. 6.00 chs. dist.
77.00 House of Albert Penrod brs. S. 5.00 chs. dist.
Difference between measurements of 80.40 chs. by two sets of chainmen is 12 lks.; position of middle point
By 1st set, 80.46 chs.
By 2nd set, 80.34 chs., the mean of which is
80.40 Original cor. destroyed, traces of stone pile; therefore, I reestablish this standard corner by setting a malpais stone, 8x12x18 ins., 12 ins. in the ground for

Resurvey Second Standard Parallel North, through R. 23 E. 5.

Chains.

standard corner of secs. 32 and 31, marked S C on N., with 1 groove on W. and 5 grooves on E. faces, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor.
 A pine, 15 ins. diam., brs. N. 6° W., 70 lks. dist., marked T 9 N R 23 E S 31 B T.
 A pine, 24 ins. diam., brs. N. 27-1/2° E., 113 lks. dist., marked T 9 N R 23 E S 32 B T.
 Land, mountainous.
 Soil, stony, 2nd and 3rd rate.
 Timber, pine and oak.
 Mountainous land, timbered and covered with dense undergrowth, 80.40 chs.

8.00
9.30
15.70

thence I run, N. 89° 58' W. on a true line on S. bdy. sec. 31.
 Magnetic variation, 14° 45' E.
 Descending through dense pine and oak.
 House of Lionel Perrod, brs. S. 8.00 chs.
 Road, brs. N. and S.
 Road from Snowflake, to Pinetop, brs. S. 40° E., and N. 40° W.

27.90
38.00

Road brs. SE. and NW.
 Fence brs. S. 35° E., and N. 35° W.
 Enter field of Lionel Perrod.
 Difference between measurements of 40.09 chs. by two sets of chainmen is 10 lks., position of middle point
 By 1st set, 40.14 chs.
 By 2nd set, 40.04 chs., the mean of which is

40.09

After diligent search fail to find original standard 1/4 sec. cor.; therefore,
 Set a malpais stone, 24x14x10 ins., 18 ins. in the ground, for standard 1/4 sec. cor., marked S C 1/4 S 31 on N., and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor.

44.95

A pine, 15 ins. diam., brs. N. 60° E., 107 lks. dist., marked S C 1/4 S 31 B T.
 No other trees within limits.
 Fence brs. N. and S.; leave field; descend through pine and oak timber.

52.00

Stream of water from ditch, course NW.
 Difference between measurements of 80.18 chs. by two sets of chainmen is 14 lks.; position of middle point,
 By 1st set, 80.25 chs.
 By 2nd set, 80.11 chs., the mean of which is

80.18

Standard cor. of Tp. 9 N., R. 22 and 23 E., which is a malpais stone, marked and witnessed as described by the Surveyor General.
 Land, mountainous, or covered with dense undergrowth.
 Soil, stony, 2nd and 3rd rate.
 Timber, pine and oak.
 Mountainous land, heavily timbered or covered with dense undergrowth, 80.18 chs.

2.50
8.00
14.00
22.00
30.70

West, on the S. bdy. of Sec. 36, T. 9 N., R. 23 E.
 Magnetic variation 14° E.
 Descending through dense pine timber.
 Road brs. N. 48° W., and S. 48° E.
 bottom of slope.
 Old irrigation ditch, brs. NW. and SE.; ascend.
 Top of slope, descend.

40.00

Fence brs. NE. and SW. Enter old field of Albert Perrod.
 Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks., position of middle point,
 By 1st set, 40.04 chs.
 By 2nd set, 39.96 chs., the mean of which is
 Original standard 1/4 cor. destroyed. Find traces of mound of stone; therefore,
 Set a sandstone, 30x24x12 ins., 25 ins. in the ground, for standard 1/4 sec. cor., marked S C 1/4 S 36 on N., and raise a mound of stone, 2 ft. base, 1-1/2 ft. high.

6. Resurvey Second Standard Parallel North, through R. 22 E.

chains.

42.70
43.21

N. of cor.
 An oak, 10 ins. diam., brs. N. 13° W., 206 lks. dist.,
 marked S 6 1/4 S 36 B T. No other bearings
 available.

Fence brs. N. and S.

In accordance with special instructions, I set a sand-
 stone, 36x24x18 ins., 33 ins. in the ground, for closing
 cor. of Tp. 8 N., R. 22 and 23 E., marked with 6 grooves
 on E., W. and S. faces, and C G. on N., and raise a
 mound of stone, 2 ft. base, 1-1/2 ft. high, S. of cor.

A pine, 12 ins. diam., brs. S. 32-1/2° E., 53 lks.
 dist., marked T 8 N R 23 E S 6 C C B T.

A pine, 10 ins. diam., brs. S. 70-1/2° W., 33 lks. dist.,
 marked T 8 N R 22 E S 1 C C B T.

Land, rolling and heavily timbered.
 Soil, stony, 2nd and 3rd rate.
 Timber, pine and oak.
 Heavily timbered land, 43.21 chs.

Nov. 18: At this cor., at 11h. 45m., a.m., l.m.t., I set off
 19° 15' 30" S. on the decl. arc, and observe the sun on
 the meridian. The resulting lat. is 34° 04' 50" N.

GENERAL DESCRIPTION.

This portion of the 2nd. Standard Parallel North is
 through heavy pine and oak timber, over rolling mesa,
 covered in places with dense pine undergrowth.

U. S. Dep. Surveyor.

Fractional West Boundary of T. 8 North, Range 23 E. 7.

Chains.

Survey begun Nov. 16, 1908, and executed with a W. and L. E. Gurley light mountain transit, special make, unnumbered. The horizontal limb of the instrument is provided with two double verniers, each reading to 1' of arc, and with Burt's patent solar attachment the latitude and declination arcs reading by verniers to 30" of arc.

I examine and test carefully the level and line of collimation of the instrument, and also examine and test the decl. arc, the solar lines and lenses, and the polar axis of the solar, and find same in satisfactory adjustment.

At 8h. p. m., l. m. t., at the standard cor. of Tps. 9 N., Rs. 22 and 23 E., I set off 19°16'30" S. on the decl. arc, and 34°04'30" N. on the lat. arc, and determine a meridian with the solar. This meridian coincides with the meridian as determined by me by polaris observation on Nov. 17. Hence I conclude that the instrument is in satisfactory adjustment.

I return to the closing corner of Tps. 8 N., Rs. 22 and 23 E., as established by me at 3.21 chs. W. of the standard 1/4 sec. cor. on S. bdy. sec. 36 of T. 9 N., R. 22 E., and run thence as per special instructions.

South, on range line on W. bdy. Sec. 6, T. 8 N., R. 23 E. Over heavily rolling land; descend gradually, through heavy pine and oak timber.

4.00
4.30
7.30
14.20
17.40
27.00
40.00

Road, hrs. E. and W. Deserted house of Albert Perrod hrs. E. 4 chs. dist.

Old fence, hrs. E. and W.; ascend gradually.

Old ditch hrs. SW. and NE.

Fence hrs. S. 50° E. and N. 50° W. Leave Perrod's place.

Road, hrs. S. 40° W. and N. 40° E., and ascend.

Top of slope, descend gradually.

Set a limestone 24x15x6 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 2 ft. base, 1-1/8 ft. high, W. of cor., from which,

A pine tree, 15 ins. diam., hrs. S. 15° E., 125 lks. dist., marked 1/4 S 6 B T.

An oak tree, 10 ins. diam., hrs. N. 68-1/2° W., 23 lks. dist., marked 1/4 S 1 B T.

50.00
67.18
80.00

Foot of descent.

Line of R. R. survey, hrs. S. 50° W., and N. 50° E.

Set a limestone 26x26x20 ins., 27 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges, and raise a mound of stone 2 ft. base, 1-1/8 ft. high, W. of cor., from which,

A pine tree, 15 ins. diam., hrs. N. 31-1/2° E., 53 lks. dist., marked T 8 N R 23 E S 6 B T.

An oak tree, 8 ins. diam., hrs. S. 30° E., 38 lks. dist., marked T 8 N R 23 E S 6 B T.

A pine tree, 15 ins. diam., hrs. S. 28° W., 38 lks. dist., marked T 8 N R 22 E S 12 B T.

A pine tree, 24 ins. diam., hrs. N. 23° W., 46 lks. dist., marked T 8 N R 23 E S 1 B T.

Land, mountainous.

soil, stony, 2nd and 3rd rate.

Timber, pine, oak and juniper.

Mountainous land, heavily timbered, 80.00 chs.

00.72

Thence S. on W. bdy. bet. secs. 7 and 12. Intersect N. boundary of White Mountain Indian Reservation.

Set a sandstone 18x10x5 ins., 12 ins. in the ground for closing cor., marked C C on N., and W M I R on S. faces with 6 grooves on E. and W. faces, and raise a mound of stone 2 ft. base, 1-1/8 ft. high, N. of cor., from which.

8. Fractional West Boundary of Township 8 North, Range 23 East.

Chains.

A pine tree, 15 ins. diam., brs. N. 23° W., 44 lks. dist., marked T 8 N R 23 E S 12 C C B T.
An oak tree, 8 ins. diam., brs. N. 29-1/2° E., 41 lks. dist., marked T 8 N R 23 E S 6 C C B T.
Angle point 300 of the N. bdy. W M I R brs. N. 51° 24' E. 9.69 chs.

Fractional East Bdy. of Township 8 North, Range 23 E.

I begin at the closing corner of Tps. 8 N., Ra. 23 and 24 E., as established by me in re-survey of 2nd Stand. Parallel North at point 5.17 chs. S. 39° 53' W. from the Stand. 1/4 sec. cor. on S. bdy. sec. 36, of T. 9 N., R. 23 E.

At this cor. at 5h. 30m. p.m. 1st Mt., I set off 19° 16' 30" S. on the decl. arc, and 54° 04' 30" N. on the lat. arc, and determine a true meridian with the solar.

Thence I run,

S. on E. boundary of township, bet. secs. 1 and 6.

Descend gradually, through heavy pine timber.

40.00

Set a granite stone 24x15x8 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, W. of cor., from which,

A pine tree, 18 ins. diam., brs. N. 65° E., 32 lks. dist., marked 1/4 S 6 B T.

A pine tree, 24 ins. diam., S. 65° W., 9 lks. dist., marked 1/4 S 1 B T.

80.00

Set a malpais stone 24x18x16 ins., 18 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, W. of cor., from which,

A pine tree, 24 ins. diam., brs. S. 50° W., 6 lks. dist., marked T 8 N R 23 E S 12 B T.

A pine tree, 18 ins. diam., brs. S. 2° E., 28 lks. dist., marked T 8 N R 24 E S 7 B T.

No other bearings available.

Land, rolling mesa.

Soil, stony, 2nd and 3rd rate.

Timber, heavy pine and oak.

Heavily timbered land, 80.00 chs.

South, on E. bdy. bet. secs. 7 and 12.

Over rolling mesa, heavily timbered.

10.75

Intersect N. bdy. of White Mountain Indian Reservation. Set a malpais stone 30x24x12 ins., 24 ins. in the ground for closing cor., marked C C on E., W M I R on S., with 6 grooves on E. and W. faces, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., from which,

A pine tree, 10 ins. diam., brs. N. 25° E., 90 lks. dist., marked T 8 N R 24 E S 7 C C B T.

A pine tree, 24 ins. diam., brs. N. 55° W., 25 lks. dist., marked T 8 N R 23 E S 12 C C B T.

Angle point 258 on N. bdy. W M I R brs. N. 62° 02' E., 14 lks. dist.,

Angle point 259 on N. bdy. W M I R brs. S. 62° 02' W., 15.92 chs. dist.

Land, rolling; heavily timbered, 10.47 chs.

GENERAL DESCRIPTION.

The fractional E. and W. boundaries of this township run over rolling mesa, land, through heavy pine and oak timber, with some juniper. The soil, is in general, stony, 2nd and 3rd rate.

Nov. 18, 1908.

Fractional East and West Boundaries, T.8 N., R.23 E.

Line Designated.	True Bearing.	Distance. Chs.	Latitudes.			Departures.	
			N. Chs.	S. Chs.	E. Chs.	W. Chs.	
W. Bdy. N. Bdy.	North,	80.73	80.73				
	East,	43.21			43.21		
	S. 89° 58' E.	80.18		.05	80.18		
	S. 89° 45' E.	40.14		.17	40.14		
	East,	40.26			40.26		
	N. 89° 53' E.	40.15	.08		40.15		
	N. 89° 48' E.	40.30	.14		40.30		
	N. 89° 51' E.	40.20	.10		40.20		
	N. 89° 53' E.	40.10	.08		40.10		
	N. 89° 51' E.	80.64	.10		80.64		
N. 89° 53' E.	34.98	.08		34.98			
E. Bdy. O. J. S. Bdy. 259 43rd M. 261 262 263 265 43-1/2 M. 264 265 266 44 M. 268 269 270 271 44-1/2 M. 272 273 274 45 M. 275 276 277 45-1/2 M. 279 280 281 46 M. 282 46-1/2 M. 285 286 47 M. 288 289 47-1/2 M. 291 292 48 M. 293 294 295 48-1/2 M. 297 298 49 M. 300	South,	90.75		90.75			
	S. 62° 02' W.	18.92		7.46		14.06	
	N. 82° 35' W.	11.28	1.46			11.19	
	N. 87° 46' W.	4.80	.19			4.80	
	S. 75° 15' W.	8.09		2.05		7.82	
	S. 68° 10' W.	13.15		4.89		12.81	
	S. 59° 08' W.	14.74		7.86		12.65	
	S. 56° 00' W.	9.76		5.46		8.09	
	S. 78° 35' W.	9.40		1.86		9.21	
	N. 76° 37' W.	16.64	3.85			16.19	
	S. 78° 14' W.	5.47		1.30		5.31	
	S. 84° 10' W.	6.07		.62		6.04	
	S. 60° 14' W.	8.21		4.08		7.13	
	S. 85° 42' W.	12.95		11.67		5.62	
	S. 17° 12' W.	6.24		5.96		1.84	
	S. 58° 37' W.	7.63		3.97		6.51	
	S. 60° 05' W.	3.20		1.60		2.77	
	S. 77° 48' W.	7.82		1.68		7.64	
	S. 65° 20' W.	13.48		6.05		12.05	
	N. 85° 19' W.	16.52	1.34			16.47	
	N. 71° 45' W.	8.31	2.60			7.89	
	N. 58° 16' W.	19.69	10.35			16.75	
	N. 53° 00' W.	6.92	4.16			5.55	
	N. 61° 37' W.	6.08	2.91			5.34	
	N. 83° 35' W.	7.76	.87			7.71	
	S. 85° 35' W.	12.99		1.00		12.95	
	N. 88° 06' W.	10.18	.34			10.17	
	S. 86° 35' W.	9.79		.58		9.77	
	S. 84° 15' W.	10.62		1.06		10.57	
	N. 84° 51' W.	29.71	2.67			29.59	
N. 67° 15' W.	19.93	7.71			18.38		
N. 72° 35' W.	12.01	3.59			11.46		
N. 56° 34' W.	9.05	4.98			7.55		
N. 62° 20' W.	7.08	3.28			6.27		
N. 59° 48' W.	26.32	20.22			16.85		
N. 65° 32' W.	7.65	3.17			6.96		
N. 75° 17' W.	19.35	5.57			18.53		
N. 56° 13' W.	19.95	11.09			16.58		
N. 53° 37' W.	1.70	1.01			1.37		
N. 49° 33' W.	8.90	5.77			6.77		
S. 85° 38' W.	6.00		.46		5.98		
N. 67° 15' W.	5.38	2.08			4.96		
S. 84° 45' W.	20.11		1.83		20.03		
S. 61° 25' W.	13.59		6.50		11.93		
N. 87° 54' W.	22.60	.83			22.52		
S. 58° 00' W.	5.08		2.69		4.31		
S. 70° 00' W.	9.76		3.34		9.17		
S. 51° 24' W.	9.69		6.04		7.57		
Totals,			181.34	180.65	480.16	481.12	
			180.65			480.16	
			.69			.96	

Fractional East and West Boundaries T.8 N..R.23 E.

In surveying the boundaries of this township, I was compelled to administer the preliminary and final oaths to my assistants, as there was no notary or other officer available, and great delay and expense would have been incurred to appear before such officer.

Jesse B. Wright
U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Jesse B Wright

a, 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 2nd Std. Sec. 70 T8N R23E and Trac. E. & W. bds. T8N R23E

showing the respective capacities in which they acted:

John W. Adair, Chainman.

Roy Perrod, Chainman.

James L. Perrod, ~~Chainman~~

George Hall, ~~Chainman~~

Asman.

Asman.

Albert A. Perrod, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B Wright

a, United States Deputy Surveyor, in surveying all those parts or portions of the Re-survey 2nd Std. Sec. 70 T8N R23E and Trac. E. & W. bds. T8N R23E

of the Sec. 70 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 W. Adair, Chainman.

Roy Perrod, Chainman.

James L. Perrod, ~~Chainman~~

George Hall, ~~Chainman~~

Asman.

Asman.

Albert A. Perrod, Flagman.

Subscribed and sworn to before me this 15th day of Nov, 1908

Jesse B Wright
U.S. Dep. Surveyor



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B Wright, 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 26th day of May, 1905, 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 Resurvey 2nd 1st Div. N. thro' R 23 E. and Trac. E & W. Secs. T 8 N R 23 E

of the Gila and Salt River Base 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.

Jesse B Wright
United States Deputy Surveyor.

Subscribed by said Jesse B Wright, and sworn to before me }
this 16th day of December, 1908

W. H. ...
U. S. ...



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. November 29, 1909

The foregoing field notes of the survey of the Resurvey of the Record Standard Parallel North Range 23 East and portion of Range 22 East, and survey of the frac. East and West Boundaries of frac. T 8 N. R. 23 E. Gila and Salt River Base and Meridian, Arizona.

executed by Jesse B Wright U.S. Deputy Surveyor under his contract No. 133, dated May 26, 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.