

N  
BOOK 1237

AMENDED SURVEY & RESURVEY  
OF THE

5<sup>th</sup> STANDARD PARALLEL NORTH  
THROUGH RANGE 5 EAST

1237

No. 1237

4-671

BOOK 1237

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FIELD NOTES  
GENERAL LAND OFFICE.

X

Sur + case No. 1237

Field Notes  
of the survey of the  
Fifth Standard Parallel North  
through  
Range No. 3 East,  
of the  
Gila & Salt River Base & Meridian,  
in the  
Territory of Arizona,  
as surveyed by  
Marvin Caudle &  
Carl R. Caudle,  
U. S. Deputy Surveyors,  
Under their Contract No. 97,  
dated June 30, 1902, and  
Special Instructions dated  
July 26, 1902, and February  
24, 1904.  
Survey Commenced, March 15, 1904.  
Survey Completed, March 19, 1904.

BOOK 1237

Names and Dates of Assistants,  
 Steward, L.P., chairman,  
 Schulz, Herman, chairman,  
 C.R. Caudle, acting, chairman,  
 Marvin Caudle, acting chairman.

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T. 21 N. R. 5 E.

31	32	33	34	35	36
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5th Standard Parallel North.

PRELIMINARY OATHS OF ASSISTANTS.

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We, L. L. Steward BOOK 1237

and Herman Schulz

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 distance to all notable objects, and the true length 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 Fifth Standard Parallel North along the south boundary of sections 32, 33, and 34, of Twp. 21 N. R. 5 E.

BOOK 1237

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

L. L. Steward, Chainman.

Herman Schulz, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

Subscribed and sworn to before me this 18th day of March, 1904.

Marion Baudle

U.S. Deputy Surveyor

~~Notary Public.~~

[SEAL.]

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5<sup>th</sup> St. Par. N. through R. 5 E

BOOK 1237

Survey commenced March, 18, 1909,  
and executed with a W. & P. E.  
Gurley light mountain  
transit, (not numbered)  
with solar attachment, and  
Jones patent latitude arc; the  
horizontal limb is provided  
with two double vernier  
placed opposite to each other  
reading to single minutes  
of arc; the vernier of the  
decl. arc reads to 30" of arc,  
and the vernier of the lat.  
arc read respectively to  
single minutes and ten  
seconds of arc; the instru-  
ment is also provided  
with a vertical arc of 180°  
the vernier of which

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5<sup>th</sup> St. Par. N. through R. 5 E.

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reads to 30" of arc.

The instrument was examined,  
tested on the true meridian  
at Phoenix, found correct,  
and was approved by the  
Surveyor general for  
Arizona, Sept. 19, 1900.

I examine the adjustments  
of the transit and correct  
the level and collimation  
errors, then to test the solar  
apparatus by comparing the  
results of observations on the  
sun, made during forenoon, and  
with a meridian determined by obs. on Polaris,  
an hour or so, proceed as

follows;

At the closing cor. of sec. 3<sup>rd</sup> 1/4  
T. 20 N. R. 5 E., which I established  
Dec. 4, 1902, I set off 0° 48' S. on

Latitude 35° 07' N., Longitude 111° 50' 30" W.

5<sup>th</sup> St. Par. <sup>0</sup> N. through R. 5 E.

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the decl. arc;  $35^{\circ} 07'$  N. on the  
lat. arc; and at  $3^h 30^m$  p.m.  
lucit, March ~~17~~<sup>18</sup>, 1904, determine  
a meridian with the solar,  
and mark a point thereof  
by a tack on a plug set firmly  
in the ground 5.00 ch. N.  
of my station.

At  $7^h 35^m$  p.m., lucit, I observe  
Polaris at western elongation  
and mark a point in the  
line thus determined by  
a tack on a plug set firmly  
in the ground 5.00 ch. N. of  
my station.

March, 18, 1904.

---

Mar. 19, 1904, at 7<sup>h</sup> a.m. Day  
off the azimuth of Polaris

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5th St. Par. N. through R. 55  
BOOK 1237

✓  
1°38" to the east and mark  
a point in the meridian  
thus determined by a tack  
on the plug already set  
5.00 chs. N. of my station,  
which point coincides  
with the point determined  
with the solar.

X  
At 8<sup>h</sup> a.m., h. alt., & set off 31 $\frac{1}{2}$  S.  
on the decl. arc; 35°07' N. on  
the lat. arc; and mark a point  
in the meridian thus deter-  
mined by a tack on the plug  
already set 5.00 chs. N. of my  
station, which point coincides  
with the point previously  
determined by the observation  
on Polaris.

The solar apparatus by p.w.



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5<sup>th</sup> St. Par. N. through R. 5 E.

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and am., observations  
defines positions for meridians  
respectively coinciding  
with the meridian  
determined from the  
observations on Polaris,  
therefore I conclude that  
the adjustments of my  
instrument are  
satisfactory.

The magnetic bearing of the  
~~the~~ meridian at 8<sup>h</sup>, 0<sup>m</sup>  
a.m. is N.  $15^{\circ} 50'$  W.; the  
angle thus determined  
gives the mag. decl.  $15^{\circ} 50' E.$

The standard cor. of sec.

31 and 32, as reestablished  
is as follows: A limestone  
16 X 10 X 6 ins., set in a mound of  
stone 2 ft base, 1 ft. high, cannot  
set in ground, for standard  
cor. of sec. 31 and 32, T. 21 N.  
R. 5 E.; from which

A pine 22 ins. diam., bears N. 21° 30' E.  
49 lks. dist., ~~mkd.~~ FXXNRVEXXXH

A pine 20 ins. diam., bears S. 21° 40' E. 81 lks.  
dist., ~~mkd.~~ FXXNRVE

A pine 29 ins. diam., bears S. 33° W. 133 lks.  
dist., ~~mkd.~~ FXXNRVE

A pine 21 ins. diam., bears N. 49° 30' W.  
56 lks. dist., ~~mkd.~~ FXXNRVEXXXH

These are the old bearing trees.  
*mkd as de cribed by the Survey Genl.*  
To insure perfect accuracy  
in this retracement and

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5<sup>th</sup> St. Par. N. through R. 5 E.

BOOK 1237

resurvey I deem it  
advisable to re-measure  
the S. bds. of sec. 32 and  
33, by two sets of chainmen  
and I proceed as follows:  
From the ~~standard~~ cor. of  
secs. 31 and 32 described  
above, I run  
East,

along the 5<sup>th</sup> St. Par. N.  
and S. Bdy of sec. 32,  
Over Mts. land through  
pine timber.

Ascend from cor.

- 15.25 Ridge 50 ft. high bears N 10° W. 75/10° E.  
20.85 Bottom of Gulch, 50 ft. deep.  
Course S. 18° W. Ascend  
27.85 Ridge 100 ft. high, bears N. 7° S.  
31.70 Ravine 40 ft. deep. Course S.

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Jct. St. Par. N. through R. 5 E.

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- No difference of measurements  
of 40.00 chs. by two sets of chainmen
- 40.00 Intersect the standard  $\frac{1}{4}$  sec.  
cor., which is a sandstone  $16 \times 12 \times 7$   
ins. set in a mound of stone  
2 ft. base 1 ft. high, cannot at  
in ground, mhd. SC  $\frac{1}{2}$  32 on N. face from which  
~~PREVIOUSLY SET BY ME~~
- A Pine 15 ins. diam., bears N.  $56^{\circ}$  E. 91  
lbs. dist., mhd. SC  $\frac{1}{2}$  32 BT
- A Pine 12 ins. diam., bears N.  $73^{\circ}$  W.  
133 lbs. dist., mhd. SC  $\frac{1}{2}$  32 BT
- 56.90 Descend, bears N. N.  $45^{\circ}$  E.
- 59.85 Gulch, course S. E. ascend
- 63.65 Ridge bears N.  $15^{\circ}$  W. and S.  $15^{\circ}$  E.
- 67.05 Ravine 50 ft. deep, course S.  $10^{\circ}$  E.
- 78.50 Ridge bears N.  $40^{\circ}$  S.
- No difference between measure-  
ments of 80.00 chs. by two sets  
of chainmen.

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5<sup>th</sup> St. Par. N. through R. 5 E.  
BOOK 1237

80.00 The standard cor. of sec. 32 and  
PREVIOUSLY SET BY ME  
33 <sup>^</sup> bears N.  $\frac{1}{2}$  E. I reestablish  
it on line as follows;

Set a Limestone 28 x 10 x 9 ins.  
in a mound of stone  $2\frac{1}{2}$  ft.  
base 2 ft. high, cannot set in  
ground, for standard cor.  
of sec. 32 and 33, mkd.  
S. C. on N. with 2 grooves on W.  
and 4 grooves on E. face;  
from which

Spine 23 ins. diam., bears N. 10° W. 5  
lks. dist., mkd. S C T 2 I N R 5 <sup>E</sup> 32 BT

Spine 32 ins. diam., bears N. 57° E.  
7 1/2 lks. dist., mkd. S C T 2 I N R 5 E 33 BT

Land. Mts.

Soil stony, 4<sup>th</sup> rate.

Timber heavy pine.

Mts heavily timbered land 80.00

East,

along the 5<sup>th</sup> standard  
Parallel North, and N. Bdy. of  
sec. 33.

Over mts land through  
heavy pine timber.

12.00 Descend into Volunteer Canyon  
bears N.E. + S.W.

12.50 Descend limestone wall 20 ft.  
high, bears N.E. + S.W.

18.00 Side hill ravine, course S.E.  
at foot descent of 250 ft.

Bend in Volunteer Canyon  
bears S. about 250 chp. where  
Canyon turns from S. 80° W. to S.  
Thence over steep S. slope.

24.25 Volunteer Canyon, course S. 80° W.

29.90 Volunteer Canyon, course N.W. to W.

37.60 Spur 100 ft. high, bears N. + S.

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5<sup>th</sup> St. Par. N. through R. 5E

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38.85 Ascend Limestone wall 25  
ft. high, bears N.E. & S.W.

Difference between measurement  
of 40.00 chs by two sets of  
chainmen is 4 lks. position  
of middle point

By 1<sup>st</sup> set 39.98 chs.

By 2<sup>nd</sup> set 40.02 chs.; the

mean of which is

PREVIOUSLY ESTABLISHED BY ME

40.00 The  $\frac{1}{4}$  sec. cor. <sup>A</sup> bears N.  $70^{\circ}$  W. 3 lks

dist. I reestablish the cor. at  
the proper point as follows;

Set a limestone  $20 \times 12 \times 8$  ins.,

in a mound of stone  $2\frac{1}{2}$  ft. base

$1\frac{1}{2}$  ft. high, cannot set in ground,

for standard  $\frac{1}{4}$  sec. cor. mark.

SC  $\frac{1}{4}$  33 on N. face; from which

An Aspen 5 ins. diam. bears

N.  $57^{\circ} 30'$  E. 20 lks. dist. Marked SC  $\frac{1}{4}$  S. 33 57

5th St. Par. N. through R. 5E  
BOOK 1237

An Aspen *betula*, diam., bears N. 80° 30' W.

77 lks. dist., mkt. S C  $\frac{1}{4}$  S 33 BT

A Pine 26 *lks.* diam., bears N. 79° E.

158 lks. dist., mkt. S. C.  $\frac{1}{4}$  S 33 BT

I mark two aspens for the reason  
that they are not as durable as  
pine trees, and no other  
pines were within suitable distance.

This cor. falls at the N. edge of  
bottom of Volunteer Canyon  
course from S.E. to S.W.

48.20 Spur, 100ft. high bears N. 45.  
Descend.

49.20 Descend Limestone wall 20ft.  
high, bears N. 45.

49.75 Bottom of Volunteer canyon  
course S.; 50ft. below spur.

51.40 Ravine, course S.W.

55.75 Same Ravine, course N.W.



5th St. Par. <sup>-16</sup> through R. 5 E.

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- 56.00 Ascend steep slope of canyon.
- 61.00 Sharp ridge 200 ft. high  
bear n.w. & s.e. Descend.
- 63.85 Descend overhanging cliff  
of limestone 20 ft. high,  
bear n.w. & s.e.
- 65.00 Bottom of Volunteer Canyon.  
course n.w. Foot descent  
of 175 ft. thence across  
low flat in bottom of canyon.
- + 68.00 Volunteer Canyon, course S  $\frac{1}{2}$  w.  
ascend steep slope of canyon.
- 73.20 Spur, bear n.e. & s.w.
- 74.75 Side hill ravine, course N.W.
- 78.48 Fall # lks. N. of etc S.C. of recs. 33 &  
34. I destroy all trace of this  
cor. and efface the marks on  
the bearing trace.
- Diff. bet. measurements

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5th St. Par. N. Strong R. 5 E.

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of 80.00 chs. by two sets of  
chainmen is 4 lks; position  
of middle point

By 1<sup>st</sup> set 79.98 chs.

By 2<sup>nd</sup> set 80.02 chs; the  
mean of which is

80.00 Set a malapaia stone

24 X 12 X 6 ins., 8 ins. in the  
ground, cannot set deeper,

~~in~~ <sup>in</sup> a mound of stone 2 ft. base,  
1 ft. high, for standard cor.

of acc. ~~55 or~~ 34, marked

SC on N. with 3 grooves on E.

and W. face; from which

~~A Pin 20 ins. diam., bears N. 47° 50' E.~~

~~6 lks. dist., marked S C T 2 / N R 5 34 BT~~

A Pin 20 ins. diam., bears <sup>N 39 1/2° W</sup> N. 55° 00' W

6 lks. dist., marked S C T 2 / N R 5 E S 34 BT

Note, - as the line bet. sec. 33 and

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5<sup>th</sup> St. Par. N. through R. 5 E.

BOOK 1237

34, when correctly established  
will intersect the 5<sup>th</sup> St.  
Par. N. at a point about 5,00 chs.  
W. of this cor., where a closing  
cor. will be established for sec.  
33 and 34, I establish this  
cor. as a cor. of sec. 34  
and mark but one bearing told  
as the 5<sup>th</sup> St. Par. affects N. at the point.  
Land, Mountainous  
Soil, stony, 4<sup>th</sup> rate.  
Timber, pine.  
Mountainous, heavily timbered  
land, 50,000 chs.

March, 19, 1904: at this cor. set  
off  $0^{\circ} 29\frac{1}{2}'$  S. on the decl. ar;  
and at 0<sup>h</sup> 18.2<sup>m</sup> p.m., local,  
observe the sun on the  
meridian; the resulting

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5<sup>th</sup> St. Par. N. through R. 5 E.

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lat. is  $35^{\circ}07'N$ ; which  
is correct.

From the Standard  $\frac{1}{4}$   
sec. cor. on the S. Bdy. of  
sec. 34, which is a post  
4 ins. sq.  $1\frac{1}{2}$  ft. above ground,  
greatly decayed; I reestablished  
as follows;

Set a malpais  $18 \times 10 \times 5$  ins.,  
12 ins. in the ground for  
standard  $\frac{1}{4}$  sec. cor., marked  
S C  $\frac{1}{4}$  on N. face; from which  
A Pine 29 ins. diam., bears N.  $7^{\circ}30'E$   
16 lks. dist., mark grown over,  
I remark S C  $\frac{1}{4}$  S 34 BT

A Pine 0 ins. diam., bears N.  $62^{\circ}35'E$   
76 lks. dist., mark grown over,  
I remark S C  $\frac{1}{4}$  S 34 BT

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5<sup>th</sup> St. Par. N. through R. 5 E.

BOOK 1237

I run

West,

on a true line along the  
S Bdy. of sec. 34, and 5<sup>th</sup> St.

Par. N.

Over mountainous land  
through heavy pine timber.

4.25 Descend, bears N.W. & S.E.

10.80 Ravine, 70 ft. deep, course N.W.

15.00 Spur, bears N.W. & S.E.

25.00 Flat ridge bears N.W. & S.E.

30.75 Small spur, bears N.W. & S.E. Descend

steep slope of Volunteer Canyon  
no diff. bet. measurements by two sets of plumb lines.  
35.05 To a point North of the

standard Cor. of secs. 33 & 34.

Set a Limestone 18 X 6 X 5 ins.

12 ins. in the ground for  
standard closing cor. of  
sec. 34, marked SC on N.

5th St. Pau. N. through R. 5 E. 1237

BOOK

CC on E., and 6 grooves on N. and 3 grooves on S. faces; from which A Pine 10 ins. diam, bears N. 59° E.

215 lka dist, marked S C C T 2 / N R S E S W B T

From this cor. I run South, bet. secs. 33 & 34.

Over mountainous land through heavy pine timber. Ascend over steep N.W. slope.

7.00 Top ascent of 200ft. bear

NE & SW to W  
no diff. bet. two sets of chertimer.

8.06  
~~7.88~~

Intersect the standard Cor. of secs. ~~33~~ & 34, previously described, which I change to refer to sec. 34 only.

I return to the standard 1/2 sec. cor. on the S. Bdy. of sec. 34, and run N. 89° 47' E.

5<sup>th</sup> St. Par. N. through R. SE.

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along the S. Bdy. of sec. 34.  
Over mountainous land  
through heavy pine timber.

30.67 Intersect the closing cor.  
of sec. 2 & 3, T<sub>4</sub>. 20 N. R. SE,  
<sup>originally reestablished.</sup>  
which is a sandstone <sup>24 N 14 W 10</sup>  
ins, set in a mound of stone  
3 ft. base, 1 1/2 ft. high, cannot  
set in ground. marked  
CC on S, with 2 grooves  
on E and 4 grooves on W. face,  
from which

A pine 10 ins. diam., bears S 70° W. 27  
lks. dist., marked CCT 20 NR SE S 3 BT.

A pine 38 ins. diam., bears S. 37° E. 41  
*as described by the Surveyor General.*  
lks. dist., marked I X N R V E H

This is an old bearing tree,  
Diff. bet. measurements of  
40.03 chs. by two sets of

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5th St. Par. N. through R. 5 E.

BOOK 1231

Chambers is 2 lks; position  
of middle point

By 1st set 40.02 chs.

By 2nd set 40.04 chs; the  
mean of which is

40.03 Intersect the standard

cor. of sec. 34 & 35, which

is a post 4 ins. sq, 1 1/2 ft.

above ground, firmly set in

the ground and a mound

of stone, marked as

described by the surveyor

general; from which

Spine 18 ins. diam., bears N. 77° 06.

33 lks dist., ~~marked XXXIXR VEXXXV~~

Spine 25 ins. diam., bears N. 26° 30' W.

77 lks. dist., ~~marked XXXIXR VEXXXV~~  
Old Bearing Trees marked as described by Surv. Genl

Land, Mountainous and  
rolling.



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5th St. Par. N. through R. 5 E.

BOOK 1237

Soil. story, 4th rate.

Timber, heavy pine.

Mountainous or heavily

timbered land; ~~82.96~~<sup>83.14</sup> chs.

35.05 chs.

~~7.88~~<sup>8.06</sup> chs

40.03 chs.

~~82.96~~ chs.

~~83.14~~

March 19, 1904.

No. 1237  
5<sup>th</sup> St. Par. N. through R. 5 & 6.

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General Description  
of lands along the 5<sup>th</sup>  
Standard Parallel North  
and S. Bdy. of sec. 32,  
33, and 34.

The lands along this  
line are mountainous  
and broken by Volunteer  
Canyon and tributaries.  
This canyon first crosses  
the line near the standard  
corner of sec. 34 (and 33)  
flows in a winding  
course westerly and  
crosses the line several  
times, the last time  
in this township and  
range being near the  
closing cor. of sec. 5 and 6.

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5th St. Par. N. through R. 5E.

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of tp. 20 N. R. 5 E.

It is an abrupt canyon and appears to have cut its way through the limestone plateau as the plateau was slowly elevated to its present position.

The soil is rocky, and unfit for agriculture, but a fair growth of grass is always to be found, which, aside from the timber, renders the land chiefly valuable for grazing.

The timber is a very good quality of pine, and is very valuable.

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5th St. Par. N. through R. 5 E.

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There are no settlers near this line, but a deserted boxcabin was found in the bottom of the canyon about 2000 chs. south of the standard cor. of sec 31 & 32.

A few pools of water was found in the canyon but no springs or running streams.

No valuable mineral deposits of any kind were found.

Marvin Caudle

U.S. Deputy Surveyor.

Carl Caudle

U.S. Deputy Surveyor.

LIST OF NAMES.

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A list of the names of the individuals employed by.....

*Marvin Caudle*

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 *Fifth Standard Parallel*

*North along the south boundary*

*of sections 32, 33, and 34,*

*of T. 21 N. R. 5 E.*

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, showing the respective capacities in which they acted.

*L. D. Steward*....., Chainman.

*Herman Schulz*....., Chainman.

....., Chainman.

....., Chainman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Manvin Boudle  
United States Deputy Surveyor, in surveying all those parts or portions  
of the Fifth Standard Parallel North along  
the south boundary of sections 32, 33 and  
34. of T<sub>1</sub> N. R. 5 E.

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of the Gila and Salt River Base and Meridian, in the Territory of Arizona, as 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.

L. L. Steward, Chainman.

Herman Schulz, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

Subscribed and sworn to before me this 25<sup>th</sup> day  
of March, 1904.

Manvin Boudle  
U. S. Deputy Surveyor Notary Public.

[SEAL.]

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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I *Marvin Caudle*, United States

Deputy Surveyor, do solemnly swear that in pursuance of a contract

received from *Hugh H. Price*, United States

Surveyor-General for Arizona, bearing date of the *30<sup>th</sup>*

day of *June*, 190<sup>2</sup>, 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 Ari-

zona, the Manual of Surveying Instructions, and the laws of the United

States, surveyed all those parts or portions of the

*Fifth Standard Parallel North*

*along the south boundary of*

*sections 32, 33, and 34, of*

*T. 21 N. R. 3 E.*

of the Gila and Salt River Base and Meridian, in the Territory of Ari-

zona, as are represented in the foregoing field notes as having been sur-

veyed by me and under my direction; and I do further solemnly swear

that all the corners of said survey have been established and perpetu-

ated in strict accordance with the Manual of Surveying Instructions, t  
special instructions of the United States Surveyor-General for Arizon  
and in the specific manner described in the field notes, and that the fo  
going are the TRUE field notes of such survey; and should any fraud  
detected I will suffer the penalty of perjury, under the provisions  
an act of Congress approved August 8, 1846.

*Morris Baudle*

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*Carl Baudle*

U. S. Deputy Surveyor

Subscribed and sworn to before me this

*7th*

of *July*, 190

*C. M. Finston*

*Clerk District Court  
DeWitt County Ariz*

4890b150-8-02

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A P P R O V A L.

Office of the

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United States Surveyor-General,

Phoenix, Arizona.

June 22 - 1904

The foregoing field notes of the survey ~~of~~ *resurvey* of the S. <sup>4</sup>/<sub>4</sub> Stand. Par. N. thro. R 5-E

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

Executed by *Candle & Cande*

United States Deputy Surveyor, under his contract No. 97, dated *June 30 1902*, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

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U. S. Surveyor-General.