

2416

~~BOOK 2416~~

108

4-679

SEP 3-1912

Book "6"

BOOK 2416

FIELD NOTES

G.L.O. letter "E" Nov. 10-1913.
OF THE SURVEY OF THE

West, and portion of North and East Boundaries of T.28 N., R.17 W.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona,

EXECUTED BY

Jesse B. Wright,

In the capacity of U. S. Surveyor, under instructions dated August 28, 1911, issued by the United States Surveyor General to govern surveys included in Group No. 13, which were approved by the Commissioner of the General Land Office, September 28, 1911, pursuant to authority contained in the Act of Congress dated June 25, 1910.

Survey commenced Feb. 21, 1912, 191

Survey completed March 2, 1912, 191

1A 109

BOOK 2416

INDEX DIAGRAM.

Township 28 North, Range 17 West

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

6-151

—Book 7

Chains.

Survey commenced Feb. 21, 1912, and executed with a Young & Son's light mountain transit No. 6492, with Smith's patent solar attachment on side. The horizontal limb of the instrument is provided with two double verniers placed opposite to each other and each reading to 1' of arc, which is also the least reading of the verniers of the latitude and declination arcs.

I examine and test all the adjustments of the transit and solar attachment, and finding same correct; then, in order to test the solar apparatus, by comparing the results of observations on the sun, for meridians, made during p.m. & a.m. hours respectively, with a true meridian as determined by Polaris observation, I proceed as follows :

At 4h 30m p.m., l.m.t., at the cor. of Tps. 27 & 28 N., Rs. 17 & 18 W., as recently re-established by me, and heretofore described, lat. $35^{\circ}46'13''$ N., long. $114^{\circ}8'41''$ W., I set off $10^{\circ}42\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}46'$ N. on the lat. arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station.

At 9h 21 $\frac{1}{2}$ m p.m., l.m.t., I observe Polaris a Western elongation, in accordance with instructions in the "Manual", and mark the line thus determined by a tack in a stake driven firmly in the ground 6 chs. N. of my station. Feb. 21, 1912.

Feb. 22, 1912.

At 8h a.m., l.m.t., I set off the azimuth of Polaris, $1^{\circ}25\frac{1}{2}'$ to the East, and mark the true meridian thus determined by a tack in the stake 5 chs. N. of my station, which point falls .35 ins. E. of the point as determined by the solar on preceding afternoon.

Then I set off $10^{\circ}29\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}46'$ N. on the lat. arc, and determine a meridian with the solar, which meridian is identical with the true meridian as determined from observation of Polaris.

The solar apparatus, by p.m. & a.m. hours observations, defines positions for meridians about $20''$ W., and identical with, respectively of the true meridian as determined by Polaris observation; therefore from these observations, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h a.m. is $N. 16^{\circ} W.$; the angle thus determined gives the magnetic declination as $16^{\circ} E.$

From the cor. of Tps. 27 & 28 N., Rs. 17 & 18 W., as above described, I run, on range line, as per instructions,

Chains.

- North, bet. secs. 31 & 36.
Over rolling valley, through dense cacti, scattering greasewood, coarse guyata grass.
- 25.00 Leave cacti, brs. E. & W.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 36 in W., and
S 31 in E. half;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, T 28 N in N. half,
R 18 W S 25 in NW.,
R 17 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quad.;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land, rolling. Soil, 3rd rate, sandy, gravelly, loose, dry.
-
- North, bet. secs. 25 & 30.
Over rolling valley, through sage brush, coarse grass.
- 38.00 Enter cacti and greasewood, brs. NE. & SW.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 25 in W., and
S 30 in E. half;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T 28 N in N. half,
R 18 W S 24 in NW.,
R 17 W S 19 in NE.,
S 30 in SE., and
S 25 in SW. quad.;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land, rolling. Soil, 3rd rate, sandy, gravelly, loose, dry.
Sage brush, cacti, greasewood, fair grass.
-
- North, bet. secs. 19 & 24.
Over gently rolling valley, through scattering cacti and greasewood.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 24 in W., and
S 19 in E. half;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, T 28 N in N. half,
R 18 W S 13 in NW.,
R 17 W S 18 in NE.,
S 19 in SE., and
S 24 in SW. quad.;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land, rolling.
Soil, 3rd rate, gravelly, dry, loose.
Sage brush, cacti, greasewood, fair grazing.
At this cor. at noon, clouds obscure the sun,
impracticable to observe the latitude.

Chains.

North, bet. secs. 13 & 18.
 Over gently rolling valley, sparse vegetation.

18.00 Wash, 20 lks. wide, course NNW., centre of drainage.

20.72 Road, Greegs Ferry to Kingman & Hackberry, brs. NNW. & SSE.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 13 in W., and S 18 in E. half; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.

45.25 Wash, 30 lks. wide, course W.

60.19 Wash, 20 lks. wide, course W.

64.00 Water tank brs. West, 2 chs. dist., iron tank. Cook house brs. West, 7 chs. dist. Gold Basin Camp. Assay house and ruins of old 10 stamp mill brs. West, about 12 chs. dist. Camp abandoned, not working.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, T 28 N in N. half, R 18 W S 12 in NW., R 17 W S 7 in NE., S 18 in SE., and S 13 in SW. quad.; dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, rolling. Soil, 3rd rate, sandy, loose, dry. Sparse sage brush, greasewood, cacti.

North, bet. secs. 7 & 12.
 Over rolling land, through dense cacti and greasewood, land broken by many small washes, drainage west.

28.00 Wash, 20 lks. wide, course W.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 12 in W., and S 7 in E. half; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, T 28 N in N. half, R 18 W S 1 in NW., R 17 W S 6 in NE., S 7 in SE., and S 12 in SW. quad.; dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, rolling, broken. Soil, 3rd rate, gravelly, loose, dry. Cacti, greasewood, sage brush, fair grass.

Chains.

- North, bet. secs. 1 & 6.
Over rolling broken land, many small washes, drainage to WSW., near centre of valley.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 1 in W., and
S 6 in E. half;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 41.00 Wash, 50 lks. wide, course W. asc. grad.
- 50.00 Top of rise, brs. W. & E., desc. grad.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 28 & 29 N., Rs. 17 & 18 W., marked on brass cap,
T 29 N in N.,
R 17 W in E.,
T 29 N in S., and
R 18 W in W. half,
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quad.;
dig pits 24x18x12 ins. on each line, N., E. & W. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of small stones covered with earth 5 ft. base, $2\frac{1}{2}$ ft. high S. of cor.
Land, rolling, broken.
Soil, 3rd rate, sandy, gravelly, loose, dry.
Cacti, greasewood, sage brush, good grass.

General Description.

The West Boundary of T. 28 N., R. 17 W. runs over rolling land draining into what is called Hualpai Wash in the middle of a small valley running northerly into the Colorado.

The land to the west of the line is comparatively smooth, good for grazing purposes only.

The only settlement near the line is the old Gold Basin Camp, to which water is piped from a spring in the hills to the north-east. This camp is not working at present. There is no timber or wood on or near the line.

The soil is a loose, sandy or gravelly loam, fertile in places.

Feb. 22, 1912.

U. S. Surveyor.

Chains.

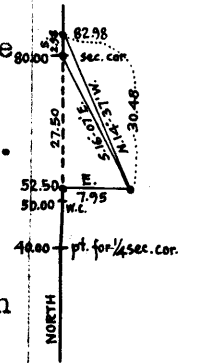
Feb..23, 1912.

At 8h a.m., l.m.t., at the cor. of Tps. 27 & 28 N., Rs. 16 & 17 W., which is an iron post 3 ins. in diam., 1 ft. above ground, with brass cap, marked and witnessed as described by the Surveyor-General, lat. 35°46'13" N., long. 114°02'18" W., I set off 10°08'S. on the decl. arc, and 35°46'N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, Var. 16°E.

- North, bet. secs. 31 & 36,
Over rolling grassy valley, asc. grad.
- 39.00 Leave valley, brs. E. & W., asc. prec. S. slope.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 10 ins. in the ground in mound of stone for 1/4 sec.cor., marked on brass cap, 1/4 S 36 in W., and S 31 in E. half;
raise a mound of stone 2 ft.base, 1 1/2 ft.high W.of cor.
- 50.50 Top of rocky granite spur, brs. SW. & NE., desc.
- 60.00 Head of stony gulch, course WSW., asc. very rough.
- 76.27 Top of high, rocky barren spur, brs. SW. & NE. 1500 ft. above valley, desc. prec.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. on barren bed-rock, in mound of stone for cor. of secs. 25,30, 31 & 36, marked on brass cap,
T 28 N in N. half,
R 17 W S 25 in NW.,
R 16 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quad.;
- raise a mound of stone 4 ft.base, 2 ft.high W.of cor.
- Land, rolling, mts.
Soil, 3rd & 4th rate, gravelly, stony.
Sage brush, cacti, fair grass, in places.

North, bet. secs. 25 & 30.

- Over very rough mts. stony land, along prec. W. slope.
- 20.00 Asc. prec. SW. slope.
- 40.00 Point for 1/4 sec. cor. falls in gulch, near head, course SW., asc. abruptly, 100 ft.
- 50.00 Top of prec. ascent, brs. WSW. & ENE.
Set an iron post 3 ft. long, 1 in. in diam. on barren bed-rock, in mound of stone for witness cor. to 1/4 sec. cor. marked on brass cap,
W C 1/4 S. of centre,
S 25 in NW., and
S 30 in NE. quad.;
- raise a mound of stone 2 ft.base, 1 1/2 ft.high W.of cor.
- At this cor., at noon, the sky is overcast and a fierce gale is blowing flurries of snow and hail.
Impracticable to observe the latitude.
I have left a flag on line on the ridge to the south, and continue my line by back & fore-sight.
- Asc. steep from cor., which by calculation is 2000 ft. above Tp.cor.
- 52.50 Top of high, rocky, barren spur, brs. WSW. & ENE.
From this point desc. prec. over rough huge granite boulders over which I cannot chain, therefore I send a man ahead, and place a flag on line on the north side of the next canyon.
With great difficulty, I measure a base line of 7.95 chs. to the East, this being the longest base possible.
At 7.95 chs. on this base, the flag to the North brs. N.14°37'W., the subtended angle is therefore 75°23'.
Dist. to flag. is tang. 75°23', 3.834x7.95= 30.48 chs., which added to 52.50 chs. gives
- 82.98 To flag on N. side of canyon, course W. ; I measure South 2.98 chs. from the flag, and at



Chains.

80.00 Set an iron post 3 ft. long, 3 ins. in diam, 12 ins. in the ground, on bed-rock, in mound of stone for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T 28 N in N. half,
R 17 W S 24 in NW.,
R 16 W S 19 in NE.,
S 30 in SE., and
S 25 in SW. quad.;

raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. From this cor. a flag left at 7.95 chs. on my base line E. of 52.50 chs., brs. S. 16° 07' E., subtended angle is therefore 16° 07'

$7.95 \times \cot. 16^{\circ} 07'$, $3.460 = 27.50$ chs. which added to 52.50 chs. gives 80.00 chs. to Cor., therefore my triangulation and measurement is practically correct.

Land, extremely rough and mts.

Soil, 4th rate, stony.

Few cedars and pinons.

From this cor. the land to the north rises over a succession of granite crags and bluffs over which I cannot chain, the slopes being also too steep for stadia measurement, and as it is impracticable also to measure a base line for triangulation with accuracy, and the land being so mountainous as to be worthless for any purpose whatever, I discontinue the survey of this line.

-General Description.-

The Frac. East Bdy. of T. 28 N., R. 17 W., as surveyed by me runs over a very rough, broken country, rising from the Hualpai Valley to an elevation 2100 ft. higher.

The land to the East of the line rises in a succession of bluffs and stony granite ridges for several miles to an elevation of about 6500 ft. above sea-level, or about 3000 ft. above the valley.

There is no water or timber on the line.

The land is practically worthless for agricultural or grazing purposes.

Feb. 23, 1912.

U. S. Surveyor.

Fractional North Boundary T. 28 N., R. 17 W.

Chains.

Feb. 24, 1912.
 Since it is impracticable to survey the whole of the East Boundary of T. 28 N., R. 17 W., I begin at the cor. of Tps. 28 & 29 N., Rs. 17 & 18 W., as recently established by me and herebefore described.
 At this cor., at 8h 30m a.m., l.m.t., I set off 9°45' S. on the decl. arc, and 35°51' N. on the lat. arc, and determine a meridian with the solar.
 Thence I run, on North Bdy. of Tp.,
 East, bet. secs. 6 & 31.
 Over rolling land, asc. grad. through scattering cacti and greasewood.
 Allowing 51 lks. for convergency, the S. bdy. of sec. 31 being 78.78 chs. long, at
 38.27 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S 31 in N., and
 S 6 in S. half;
 raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
 48.00 Stony wash, 50 lks. wide, course SW.
 55.00 Asc. steep, leave valley, brs. NNE. & SSW.
 63.00 Spur, brs. SW. & NE., desc.
 68.00 Gulch, 50 lks. wide, course SW. Asc. prec.
 77.00 Top of rocky spur, brs. SW. & NE.
 78.27 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, T 29 N in N.,
 T 28 N in S., and
 R 17 W in W. half,
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quad.;
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
 Land, rolling, broken, mts.
 Soil, 3rd & 4th rate, gravelly, stony.
 Greasewood, cacti, fair grass.

East, bet. secs. 5 & 32.
 Over mts. land, desc.
 6.00 Gulch, 80 lks. wide, course SW., asc. prec.
 13.75 Top low saddle in dividing ridge, brs. N. & S.
 high peak 20 chs. to SSW.
 high peak about 30 chs. to NNE., desc. steep.
 30.00 Foot of main slope, brs. N. & S., desc. grad. through dense greasewood and cacti.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S 32 in N., and
 S 5 in S. half;
 raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
 51.00 Road, brs. N. & S.
 52.00 Main wash, 180 lks. wide, course SSW. asc. grad.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, T 29 N in N.,
 T 28 N in S., and
 R 17 W in W. half,
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quad.;
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
 Land, mts., broken. Soil, 3rd rate, gravelly, stony.
 Sage brush, greasewood, cacti, fair grass.
 At this cor., at noon, I set off 9°43' S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35°51' N.

Chains.

East, bet. secs. 4 & 33.
 Over broken land, along S. slope, rolling hills to N.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 33 in N., and
 S 4 in S. half;
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 59.00 Wash, 50 lks. wide, course SW.
 76.00 Wash, 50 lks. wide, course SW.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 3, 4, 33 & 34, marked on
 brass cap, T 29 N in N.,
 T 28 N in S., and
 R 17 W in W. half,
 S 33 in NW.,
 S 34 in NE.,
 S 3 in SE., and
 S 4 in SW. quad.;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
 No bearings available.
 Land, rolling.
 Soil, 3rd rate, gravelly, stony.
 Greasewood, cacti, good grass.

East, bet. secs. 3 & 34.
 Over heavily rolling, broken land, drains to SSW., asc.
 6.00 Ridge, brs. SW. & NE. desc.
 21.00 Gulch, 20 lks. wide, course SW., asc.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 34 in N., and
 S 3 in S. half;
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 45.00 Spur, brs. SSW. & NNE., desc. grad.
 50.00 Foot of spur, brs. NE. & SW., thence along gentle SW. slope.
 54.00 Road, brs. ENE. & WSW.
 57.00 Wash, 20 lks. wide, course WSW.
 57.65 Wash, 100 lks. wide, course WSW.
 74.00 Wash, 20 lks. wide, course SW.
 79.40 Road and pipe line to Gold Basin, from spring,
 brs. S. $64^{\circ}10'$ W. & N. $64^{\circ}10'$ E.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 2, 3, 34 & 35, marked on
 brass cap, T 29 N in N.,
 T 28 N in S., and
 R 17 W in W. half,
 S 34 in NW.,
 S 35 in NE.,
 S 2 in SE., and
 S 3 in SW. quad.;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
 Land, rolling, broken.
 Soil, 3rd rate, gravelly, dry, stony.
 Greasewood, cacti, good grass.
 To the East of this cor. the land rises along the NW.
 slope of a rough rocky butte, and since the land to the
 East and south-east of this cor. is so rough and broken
 as to be worthless for agricultural or grazing purposes,
 at this cor. I discontinue the survey of this line.

General Description.

The Frac. N. bdy. of T. 28 N., R. 17 W. as surveyed
 by me runs over broken, mts. or rolling land, covered
 with a fair growth of native grass. There is no water
 timber or settlement on or near the line. The land to
 the north of line is rough and mountainous.

Feb. 24, 1912.

Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	West, ----	478.78	-----	-----	-----	478.78
West Boundary,	North, ----	480.00	480.00	-----	-----	-----
Frac. North Bdy.,	East, ----	318.27	-----	-----	318.27	-----
East Bdy. of secs.	-----	-----	-----	-----	-----	-----
3, 10, 15, 22 & 27	S. 0° 01' E.	400.00	-----	400.00	-0.12	-----
North Bdy. Sec. 35	S. 89° 58' E.	80.00	-----	-0.05	80.00	-----
North Bdy. Sec. 36	S. 89° 57' E.	80.04	-----	-0.07	80.04	-----
East Bdy. Sec. 36,	South, ---	80.00	-----	80.00	-----	-----
Convergency,	-----	-----	-----	-----	-0.37	-----
		Totals,	480.00	480.12	478.80	478.78
			-----	480.00	478.78	-----
		Error in lat.	---	-0.12	-----	-----
		Error in dep.	-----	-----	-0.02	-----

March 2, 1912.

Jesse B. Wright

 U. S. Surveyor.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,

Jesse B. Wright

U. S. Surveyor, during the periods and in the capacities under Group 13

stated opposite our several signatures, in surveying all those parts or portions of the

West, and portion of North and East bdrs. of T. 28 N. - R. 17 W.

of the Gila & Salt River Base & Meridian, in the State of Arizona,

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
<i>Herbert W. Worcester</i>	Jan. 23, 1912.	Mch. 3, 1912.	Chainman.
<i>John H. Bates</i>	Jan. 23, 1912.	Feb. 9, 1912.	Chainman.
<i>Elmore Welch</i>	Jan. 23, 1912.	Feb. 9, 1912.	Moundman.
<i>Elmore Welch</i>	Feb. 9, 1912.	Mch. 3, 1912.	Chainman.
<i>Samuel Kennedy</i>	Jan. 23, 1912.	Mch. 3, 1912.	Flagman.
<i>Herrmann Meyer</i>	Feb. 1, 1912.	Mch. 3, 1912.	Axeman.
<i>Chas. Whitfield</i>	Feb. 11, 1912.	Mch. 3, 1912.	Moundman.

Subscribed and certified to before me on the dates of the final service as shown above.

Jesse B. Wright
U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, Jesse B. Wright, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona, Group 13 bearing date of the 28th day of August, 1911, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the
West, and portion of North and East Bdrs. of T. 28 N.-R. 17 W.
of the Gila and Salt-
River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed 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 U. S. 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
U. S. Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me
this 15th day of October, 1912

Frank S. Ingalls
SURVEYOR-GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, April 21, 1913

The foregoing field notes of the survey of the

West, and portion of North and East bdrs. of T. 28 N.-R. 17 W. of the
Gila and Salt River Base and Meridian, Arizona

executed by Jesse B. Wright, U. S. Surveyor
under his special instructions, dated August 28, 1911, 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
U. S. 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.