

2666

BOOK 2666

4-679

2666

BOOK "P"

# FIELD NOTES

OF THE SURVEY OF PART OF THE

Subdivision Lines of <sup>Fractional</sup> Tp. 17 S. Rg. 32 E.

Of the Gila and Salt River Base and Meridian,  
In the State of Arizona

EXECUTED BY

John F. Hesse

In the capacity of U. S. Surveyor, under instructions dated September 5th, 1912,  
issued by the United States Surveyor General to govern surveys included in  
Group No. 18, which were approved by the Commissioner of the General Land  
Office, September 17, 1912 pursuant to authority contained in the Act of  
Congress dated August 23rd, 1912.

Survey commenced May 29, 1913

Survey completed May 29, 1913

135  
(1A)

BOOK 2666

# INDEX DIAGRAM.

*Frac.*  
Township 175 ..... , Range 32E .....

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Partial Subdivision of, <sup>Frac.</sup> Tp 17 S. R. 32 E.  
 Chains. May 28, 1913: At my camp which is situated near the cor. of secs. 21, 22, 27 and 28 <sup>in</sup> latitude  $32^{\circ}01'N.$ , longitude  $109^{\circ}04'20''W.$  I set off  $32^{\circ}01'N$  on the lat. arc,  $21^{\circ}30\frac{1}{2}'N.$  on the decl. arc and at 5h.00m p.m. l.m.t., determine with the solar a meridian at the S. end of meridian determined by observation of Polaris on May 22, and mark a point thereof, on the stone set May 22, 5 chs, N. of my station; this mark falls 0.4 ins. W. of the meridian determined by the Polaris observation.

May 28, 1913.

Survey commenced May 29, 1913 and executed with a W. and L. E. Gurley transit, not numbered, with solar attachment. The horizontal limb is provided with one double vernier, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was approved by the Supervising Surveyor August 28, 1913.

I examine the adjustments of the transit and find them correct, 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 7h.00m. a.m. l.m.t., I set off  $32^{\circ}01'N.$  on the lat. arc,  $21^{\circ}36'N.$  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. E. of the meridian established by Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively, about  $0'21''W.$  and  $0'16''E.$  of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h.30m. a.m. l.m.t. is  $N.13^{\circ}-00'W.$  the angle thus determined gives the mag. decl. as  $13^{\circ}-00'E.$

May 29<sup>1913</sup> At the cor. of secs. 2, 3, 34 and 35 <sup>on the N. bdy. of the Tp. recently estab. by me and described in Book "N"</sup> I set off  $21^{\circ}37'N.$  on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is  $31^{\circ}59'N.$

Thence I run

South,  $\frac{1}{2}$  bet. secs. 2 and 3, on true line,  
 Over gently rolling land, through dense brush.  
 15.61 Road, bears N.E. and S.W.  
 35.26 Fence, bears N.E. and S.W.  
 35.46 Road, bears N.E. and S.W.  
 39.55 Road, bears S.E. and N.W.  
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap <sup>1913</sup> S3 in W. and S2 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 67.95 Road, bears N.W. and S.E.  
 73.70 Wash, 8 lks. wide, course N.E.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked on brass cap, 1913;  
 T17SR32E in N. half;  
 S3 in N.W.  
 S2 in N.E.  
 S11 in S.E. and  
 S10 in S.W. quadrant;  
 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, gently rolling.  
 Soil, sandy loam over 2 ft. deep; dry, medium texture, 1st rate.  
 No timber.  
 Undergrowth, dense mesquite and greasewood.

Frac.  
Partial Subdivision of Tp. 17 S. R. 32 E.

Chains.	East, bet. <sup>frac.</sup> secs. 2 and 11, on true line, Over gently rolling land, through dense brush.
20.70	Intersect Arizona and New Mexico Bdy. at a point from which the 346 Mile cor, which is a granite stone 16x12x4 ins. set in mound of stone, marked and witnessed as des- cribed by the Surveyor General, bears N0°06'E. 37.17 chs. dist. At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins in the ground for closing cor. of <sup>frac.</sup> secs 2 and 11, marked on brass cap, 1913; CC, E. of center. NM in E. half; T17S, S2W in N.W. and S11, R32E in S.W. quadrant; Dig pits 24x18x12 ins. crosswise on each line, N. and S. 3 ft. and W. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, gently rolling. Soil, sandy loam over 2 ft. deep, dry, medium texture, 1st rate. No timber. Undergrowth, dense greasewood and mesquite.
40.00	West, bet. secs, 3 and 10, on true line, Over gently rolling land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for <sup>frac.</sup> sec. cor., marked on brass cap, 1913 in N. and S10 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.
77.44	Wash, 18 lks. wide, course N.E. Soil, changes from 1st to 4th rate.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 9, and 10, marked on brass cap, 1913; T17SR32E in N. half; S4 in N.W. S3 in N.E. S10 in S.E. and S9 in S.W. quadrant; Raise a mound of stone 2 ft. base, 1½ ft. high, W. of post. Pits impracticable. Land, gently rolling. Soil, sandy loam over 2 ft. deep, dry, medium texture, 1st rate, 77.50 chs. rocky 4th rate, 2.50 chs. No timber. Undergrowth, dense greasewood.
40.00	North, on random line bet. secs. 3 and 4. Set temp. <sup>frac.</sup> sec. cor.
80.00	Intersect N. bdy. of Tp. 7 lks. W. of cor. of secs. 3, 4, 33 and 34, recently estab. by me and described in Book "N" Thence I run S0°03'W., on true line, bet. secs. 3 and 4 Over gently rolling land, through dense brush.
11.65	Road, bears N.E. and S.W.
24.20	Wash, 12 lks. wide, course N.E.,
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for <sup>frac.</sup> sec. cor., marked on brass cap, 1913 in W. and S3 in E. half; raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Soil, changes from 1st to 4th rate.
52.85	Road, bears N.W. and S.E.
56.50	Wash, 1.50 chs. wide, course N.E.
60.45	Road, bears N.E. and S.W.
80.00	Intersect E. and W. line at the cor. of secs. 3, 4, 9 and 10, hereinbefore described. Land, gently rolling. Soil, sandy loam over 2 ft. deep, dry, medium texture, 1st rate, 40.00 chs. Rocky, 4th rate 40.00 chs.

Partial Subdivision of <sup>Frac.</sup> Tr. 17 S. R. 32 E.

Chains. No timber.  
Undergrowth, dense greasewood.

May 29, 1913.

*John P. Hesse*  
*U. S. Surveyor*

for FINAL OATH OF UNITED STATES SURVEYOR.  
see Book "O" (Subs of Frag. T. 16 S. - R. 32 E)

I, \_\_\_\_\_, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for \_\_\_\_\_ bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 191 \_\_\_\_\_, 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 \_\_\_\_\_ of the \_\_\_\_\_ Meridian, in the State of \_\_\_\_\_, 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 \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 191 \_\_\_\_\_



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, July 21, 1914

The foregoing field notes of the survey of ~~the~~ part of the

Subdivision Lines of

Fractional Township N<sup>o</sup> 17 South, Range N<sup>o</sup> 32 East of the  
Gila and Salt River Base and Meridian, Arizona

executed by John F. Hesse, U. S. Surveyor  
under his special instructions dated September 5th, 1912, 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 of  
Arizona.

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.