

Book B

Accepted G.L.O. letter dated Dec. 17, 1912

2326

# FIELD NOTES

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OF THE SURVEY OF THE **BOOK 2326**

Subdivision Lines of T19N R25E  
and

Retracement of the North <sup>and</sup> Retracement of portion  
of the East Boundary of T19N R25E

Of the Gila Salt River Meridian,

In the State of Arizona

EXECUTED BY

John D. Hesse

and

Alfred N. Oliver

In the capacity of U.S. <sup>Transition</sup> Surveyor, under instructions dated Aug. 15, 1910,  
issued by the United States Surveyor General to govern surveys included in  
Group No. 5, which were approved by the Commissioner of the General Land  
Office, September 9, 1910, pursuant to authority contained in the Act of  
Congress dated March 4, 1911

Survey commenced July 26, 1911

Survey completed August 8, 1911

# INDEX DIAGRAM.

Township \_\_\_\_\_, Range \_\_\_\_\_

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

~~2~~ / A  
G.L.O. Letter "E" Phoenix 047482, dated July 2, 1942  
vacates survey as to the West Side and West Side Turequise  
claims and cancels plat.

Corrective survey Book No. \_\_\_\_\_.

BOOK 4008

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1AA

BOOK 2326

# INDEX DIAGRAM.

Township 19 N. Range 25 E.  
~~29~~ ~~29~~ ~~28~~ ~~28~~

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

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BOOK 2326

PRELIMINARY OATHS OF ASSISTANTS.

J. H. Bates  
C. Y. Brown

WE, L. F. Bates, R. A. Coombs and A. E. Lyon

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

the subdivision lines of Tp. 19 S. Rg. 25 E. and resurvey of the North boundary of Tp. 19 S. Rg. 25 E.

*A. E. Lyon*

*J. H. Bates*  
*L. F. Bates*

*C. Y. Brown*  
*R. A. Coombs*

Chainman.

Chainman.

Subscribed and sworn to before me this 26th.

day of July, 19 11

by A. E. Lyon July 29th., 1911



*John P. Hesse*

U. S. Transitman.

WE, R. L. Bates and H. R. Harvey

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 subdivision lines of Tp. 19 S. Rg. 25 E. and resurvey of the north boundary of Tp. 19 S. Rg. 25 E.

*R. L. Bates*

Moundman.

*H. R. Harvey*

Moundman.

Subscribed and sworn to before me this 26th.

day of July, 19 11



*John P. Hesse*

U. S. Transitman.

WE, E. E. Mills and E. Barnes

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 subdivision lines of Tp. 19 S. Rg. 25 E. and resurvey of the north boundary of Tp. 19 S. Rg. 25 E.

*E. E. Mills*

Axman.

*E. Barnes*

Axman.

Subscribed and sworn to before me this 26th.

day of July, 19 11



*John P. Hesse*

U. S. Transitman.

Ralph Brown and

WE, P. B. Hilderbran

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 subdivision lines of Tp. 19 S. Rg. 25 E. and resurvey of the north boundary of Tp. 19 S. Rg. 25 E.

*Ralph Brown*

*P. B. Hilderbran*

Flagman.

Subscribed and sworn to before me this 26th.

day of July, 19 11



*John P. Hesse*

U. S. Transitman.

Chains.

BOOK 2326

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Survey commenced July 26, 1911, and executed with a W. and L. E. Gurley Solar Compass, not numbered. The horizontal limb is provided with two double verniers placed opposite each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined and approved by the Supervising Surveyor. I examine the adjustments of the compass, 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 the cor. of secs. 21, 22, 27 and 28, Tp. 19 S., Rg. 25 E., latitude,  $31^{\circ}45\frac{1}{2}'$  N., longitude,  $109^{\circ}48'33''$  W., I set off  $31^{\circ}45\frac{1}{2}'$  N. on the lat. arc;  $19^{\circ}33'$  N. on the decl. arc; and at 5h.00m.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 my cor.

At 11h.16m.p.m., by my watch, which has correct l.m.t., I observe Polaris at E. elongation & mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

July 26, 1911.

July 27: At 6h. 30m., a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}23'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set July the 26, on which the meridian coincides with the mark determined by the solar.

At 7h.00m., l.m.t., I set off  $31^{\circ}45\frac{1}{2}'$  N. on the lat. arc;  $19^{\circ}25'$  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 coincides with the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians which coincide with the meridian determined by Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h.15m.a.m., l.m.t., is  $N.13^{\circ}15'W.$ ; the angle thus determined gives the magnetic declination  $13^{\circ}15'E.$

I commence at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the township, heretofore described.

Thence I run,  $N.0^{\circ}01'E.$ , bet. secs. 31 and 32.

Ascending.

- 8.25 Top of ridge, bears NW. and SE.; thence through Gleeson Mining Camp.
- 16.06 Cross road, bears E. and W.
- 34.54 Cross road, bears NE. and 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 S 32 in E. and  $\frac{1}{4}$  S 31 in W. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 50.14 Cross road, brs. NW. and SE.
- 63.94 Fence brs. NW. and SE.
- 64.55 Fence brs. NE. and SW.
- 79.40 Arizona Eastern R.R., NW. and SE.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked on brass cap,
  - T 19 S R 25 E in N. half;
  - S 30 in NW.,
  - S 29 in NE.,
  - S 32 in SE., and
  - S 31 in SW. quadrant; raise a mound of stone 2 ft.

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base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
Land, rolling and hilly,  
Soil, coarse gravel and rocks, 3rd rate.  
No timber.  
Undergrowth, mesquite.  
From this cor. U.S.M.M.No.1, Turquoise Mining District,  
brs. N.20°E., 25.80 chs.

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West, on a random line, bet. secs.30 and 31.

- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
80.05 Intersect W.bdy.of Tp.18 lks. N.of cor. of secs.25,30,31  
and 36, heretofore described.  
Thence I run,  
N.89°52'E. on a true line, bet. secs.30 and 31.  
Over rolling land.  
36.61 Wash, 15 lks.wide, course SE.  
40.02 $\frac{1}{2}$  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 30  
in N. and S 31 in S.half; raise a mound of stone 2 ft.  
base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
47.80 Intersect W.side line Turf Mining Claim, Survey No.2657  
at S,12°02'E. 507 lks. from NW. cor.  
74.36 Cross road, brs. NE.and SW.  
78.53 Arizona Eastern depot.  
79.29 Arizona Eastern R.R.  
80.05 The cor.of secs.29,30, 31 and 32.  
Land, rolling.  
Soil, coarse gravel and rocks, 3rd rate.  
No timber.  
Undergrowth, mesquite and oak brush.  
July 27: At this cor. I set off 19°21 $\frac{1}{2}$ 'N.on the decl.arc,  
and observe the sun on the meridian at noon; the re-  
sulting lat. is 31° 44 $\frac{1}{2}$ 'N.

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N.0°01'E., bet. secs. 29 and 30.

Ascending through dense brush.

- 18.90 Intersect N.end line of Batavia Mining Claim, Sur.No.2001,  
at S.65°38'W., 2.25 chs. from Cor.7.  
23.35 Top of ridge, bears E.and W., house bears S.88°35'W.  
28.90 Same house bears S. 75° 20'W.  
37.88 Cross road, bears E.and W. in wash 50 lks.wide, course E.  
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 S 29 in  
E. and  $\frac{1}{4}$  S 30 in W.half; raise a mound of stone 2 ft.  
base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
75.25 Top of ridge, brs. E.and W.; descend.  
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
ground for cor.of secs.19,20, 29 and 30, marked on  
brass cap,  
T 19 S R 25 E in N.half;  
S 19 in NW.,  
S 20 in NE.,  
S 29 in SE., and  
S 30 in SW. quadrant; raise a mound of stone 2 ft.  
base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
Land, hilly.  
Soil, rocky and worthless, 4th rate.  
No timber.  
Undergrowth, oak brush and mesquite.

July 27, 1911.

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July 28: At 7h.00m.a.m., 1.m.t., I set off 31°45 $\frac{1}{2}$ 'N. on  
the lat.arc; 19°11 $\frac{1}{2}$ 'N. on the decl. arc, and determine  
a meridian with the solar at the cor.of secs.19,20,29  
and 30.

West, on a random line, bet. secs.19 and 30.

- 40.00 Set temporary  $\frac{1}{4}$  sec.cor.

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- 80.30 Intersect W. bdy. of Tp. 9 lks. N. of cor. to secs. 19, 24, 25 and 30, heretofore described.  
Thence I run,  
N. 89° 56' E. on a true line bet. secs. 19 and 30.  
Ascend gradual slope.
- 40.15 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. 19 in N. and S 30 in S. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.
- 46.20 Top of ridge, bears NW. and SE., descend.
- 54.00 Cross wash, 10 lks. wide, course SE.; ascend.
- 62.10 Top of ridge, bears NW. and SE.; descend.
- 74.79 Cross road, bears N. and S.
- 80.30 The cor. of secs. 19, 20, 29 and 30.  
Land, hilly.  
Soil, rocky and worthless, 4th rate.  
No timber. No undergrowth.

- N. 0° 01' E., bet. secs. 19 and 20.  
Ascending through scattering brush.
- 22.75 Top of ridge, bears E. and W.; descend.
- 30.30 Cross wash, 15 lks. wide, course NE.; over rolling land.
- 38.70 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for witness  $\frac{1}{4}$  sec. cor., marked on brass cap,  
W C  $\frac{1}{4}$  in N. half,  
S 20 in SE., and  
S 19 in SW. quadrant; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 40.00 Cross wash, 15 lks. wide, course NW.
- 45.00 Cross same wash, course NE.
- 47.02 House bears N. 36° 17' E.
- 52.12 Cross road, bears NE. and SW.
- 64.25 Enter wash, 50 lks. wide, course SW.
- 76.40 Leave wash.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked on brass cap,  
T 19 S R 25 E in N. half;  
S 18 in NW.,  
S 17 in NE.,  
S 20 in SE., and  
S 19 in SW. quadrant; from which,  
A hackberry, 8 ins. diam., bears N. 57 $\frac{1}{2}$ ° W., 1.34 chs. dist., marked T 19 S R 25 E S 18 B T.  
An oak, 12 ins. diam., bears S. 65° E., 2.19 chs. dist., marked T 19 S R 25 E S 20 B T.  
No other trees available; dig pits 18x18x12 ins. 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, hilly and rolling.  
Soil, rocky, coarse and dry, 4th rate.  
No timber.  
Undergrowth, oak and mesquite.  
July 28: At this cor. I set off 19° 08' N. on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is 31° 46 $\frac{1}{2}$ ' N.

- West, on a random line, bet. secs. 18 and 19.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.00 Intersect W. bdy. of Tp. 23 lks. N. of the cor. of secs. 13, 18, 19 and 24, heretofore described.  
Thence I run,  
N. 89° 50' E. on a true line, bet. secs. 18 and 19.  
Ascending through dense brush.
- 0.30 Cross wash, course NE.
- 13.00 Top of ridge, brs. NW. and SE.; descend.
- 28.20 Cross wash, course SE.; ascend.
- 37.70 Top of ridge, brs. NW. and SE., descend.



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- 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 18 in N. and S 19 in S. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.
- 66.15 Cross wash, 50 lks. wide, course NE.; ascend.
- 74.30 Top of ridge, brs. N. and S.; descend.
- 78.70 Cross wash, 50 lks. wide, course S.; ascend.
- 80.00 The cor. of secs. 17, 18, 19 and 20.  
Land, mountainous.  
Soil, rocky and worthless, 4th rate.  
No timber.  
Undergrowth, mesquite and catclaw.

July 28, 1911.

July 29: At 7h. 00m. a.m., l.m.t., I set off  $31^{\circ}46\frac{1}{2}'$  N. on the lat. arc;  $18^{\circ}57\frac{1}{2}'$  N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.

N.  $0^{\circ}01'$  E., bet. secs. 17 and 18.

Over rolling land, through dense brush.

- 0.30 Enter wash, 75 lks. wide, course SW., follow along same.
- 3.41 Cross road, bears NW. and SE.
- 11.40 Leave wash, bears NW.
- 18.58 Fence bears NW. and SE.
- 19.15 Cross same wash, bears NE.
- 23.15 House, west 86 lks.
- 24.76 Fence, bears NE. and 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, S 17 in E. and  $\frac{1}{4}$  S 18 in W. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 40.50 Cross wash, 60 lks. wide, course NE.
- 56.67 Cross road, bears NE. and SW.
- 61.90 Cross wash, 20 lks. wide, course NE.
- 74.00 Cross road, bears NE. and SW.
- 79.40 Cross same wash, 20 lks. wide, course NW.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked on brass cap,  
T 19 S R 25 E in N. half,  
S 7 in NW.,  
S 8 in NE.,  
S 17 in SE., and  
S 18 in SW. 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, rolling.  
Soil, coarse sand and gravel; dry, 3rd rate.  
No timber.  
Undergrowth, mesquite and catclaw.

West, on a random line, bet. secs. 7 and 18.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.12 Intersect W. bdy. of Tp. 11 lks. S. of cor. of secs. 7, 12, 13 and 18, heretofore described.  
Thence I run,  
S.  $89^{\circ}55'$  E. on a true line, bet. secs. 7 and 18.  
Ascending through dense brush.
- 10.27 Top of ridge, NE. and SW.; old deserted house bears N.  $61^{\circ}30'$  E.; descend.
- 40.06 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 7 in N. and S 18 in S. half; and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
Old deserted house bears N.  $44\frac{1}{2}'$  W.
- 55.37 Cross wash, 75 lks. wide, course NE.
- 79.06 Cross road, bears N. and S.

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79.82 Cross wash, 15 lks. wide, course N.  
 80.12 The cor. of secs. 7, 8, 17 and 18.  
 Land, rolling and hilly.  
 Soil, coarse gravel and rocks; dry, 4th rate.  
 No timber.  
 Undergrowth, mesquite.  
 July 29: At this cor. I set off 18°54'N. on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is 31°47½'N.

N.0°01'E., bet. secs. 7 and 8.  
 Over slightly rolling land, through dense brush.  
 7.00 Cross wash, 2 lks. wide, course NW.  
 12.20 Cross road, bears E. and W.  
 26.44 Windmill bears N.40°30'E.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap S 8 in E. and ¼ S 7 in W. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.  
 Windmill, bears S.36°05'E.  
 53.18 Cross wash, 12 lks. wide, course NE.  
 58.87 Fence bears E. and W.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked on brass cap,  
     T 19 S R 25 E in N. half;  
     S 6 in NW.,  
     S 5 in NE.,  
     S 8 in SE., and  
     S 7 in SW. quadrant; dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.  
 Land, slightly rolling.  
 Soil, gravel, dry, coarse texture, 2nd. rate.  
 No timber.  
 Undergrowth, mesquite and catclaw.

July 29, 1911.

July 31: At 7h.00m., a.m., l.m.t., I set off 31°48'N. on the lat. arc; 18°29'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8.

Thence I run,  
 West, on a random line, bet. secs. 6 and 7.  
 40.00 Set temp. ¼ sec. cor.  
 80.14 Intersect W. bdy. of Tp., 11 lks. N. of cor. of secs. 1, 6, 7 and 12, heretofore described.  
 Thence I run,  
 N.89°55'E., on a true line, bet. secs. 6 and 7.  
 Over rolling land, through dense brush.  
 2.14 Cross wash, 70 lks. wide, course NE.  
 27.24 Cross same wash, course SE.  
 40.07 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 6 in N. and S 7 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.  
 80.14 The cor. of secs. 5, 6, 7 and 8.  
 Land, rolling.  
 Soil, coarse gravel and rocks, 4th rate.  
 No timber.  
 Undergrowth, mesquite and catclaw.

N.0°01'E., bet. secs. 5 and 6.  
 Over rolling land, through dense brush.  
 18.36 Fence bears E. and W.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

Chains.

85.98

the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, S 5 in E. and  $\frac{1}{4}$  S 6 in W. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable. Intersect N. bdy. of Tp. 4. 15 chs. N.  $89^{\circ}37'$  E. of cor. of secs. 31 and 32, which is a stone marked and witnessed as described by the Surveyor General.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 5 and 6, marked on brass cap,

C C S of center,

T 18 S R 25 E S 31 S 32 in N. half,

S 5 in SE., and

S 6 in SW. quadrant; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor. Pits impracticable.

Land, rolling.

Soil, coarse gravel and rocks, dry, 4th rate.

No timber.

Undergrowth, mesquite and catclaw.

July 31, 1911.

*Alfred N. Oliver*  
U. S. Transitman.

Survey commenced July 26, 1911, and executed with an A. Lietz Co. light mountain transit, No. 5631, with a solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of the arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and approved by the Supervising Surveyor.

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 camp near the cor. of secs. 21, 22, 27 and 28, Tp. 19 S., Rg. 25 E., latitude,  $31^{\circ}45\frac{1}{2}'$  N.; longitude,  $109^{\circ}48'33''$  W., I set off  $31^{\circ}45\frac{1}{2}'$  N. on the lat. arc;  $19^{\circ}33'$  N. on the decl. arc; and at 5h.00m., a.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 station.

At 11h.16m. p.m., by my watch, which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

July 26, 1911.

July 27: At 6h.30m., a.m., l.m.t., I lay off on the azimuth of Polaris,  $1^{\circ}23'$  to the west, and mark the meridian thus determined by cutting a small groove in the stone set July 26, on which the meridian coincides with the mark determined by the solar.

At 7h.00m., a.m., l.m.t., I set off  $31^{\circ}45\frac{1}{2}'$  N. on the lat. arc;  $19^{\circ}25'$  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 coincides with the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians which coincide with the meridian determined by Polaris observations; therefore

Chains.

- I conclude that the adjustments of the instrument are satisfactory.
- The magnetic bearing of the true meridian, at 7h.15m.a.m., is  $N.13^{\circ}15'W.$ ; the angle thus determined gives the mag. decl.  $13^{\circ}15'E.$
- I commence at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the township, heretofore described.
- Thence I run,  
 $N.0^{\circ}01'E.$ , bet. secs. 32 and 33.  
 Over rolling land, through dense brush.
- 19.55 Cross wash, 20 lks. wide, course NE.
- 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, S 33 in E. and  $\frac{1}{4}$  S 32 in W. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 53.83 Cross Arizona Eastern R.R. bears NE. and SW.; ascend.
- 61.50 Top of ridge, bears E. and W.; descend.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked on brass cap,  
 $T\ 19\ S,$   $R\ 25\ E$  in N. half,  
 $S\ 29$  in NW.,  
 $S\ 28$  in NE.,  
 $S\ 33$  in SE., and  
 $S\ 32$  in SW. quadrant; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- Land, rolling and hilly.  
 Soil, calcareous, 4th rate.  
 No timber.  
 Undergrowth, oak brush, catclaw and cactus.
- 
- West, on a random line, bet. secs. 29 and 32.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.04 Intersect N. and S. line 26 lks. N. of cor. of secs. 29, 30, 31 and 32.
- Thence I run,  
 $N.89^{\circ}49'E.$  on a true line, bet. secs. 29 and 32.  
 Ascending through dense brush.
- 35.84 Top of rocky hill; descend.
- 40.02 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 29 in N. and S 32 in S. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.
- 40.26 Intersect E. side line Whoop Up Mining Claim, Sur. No. 2383 A. at  $S.16^{\circ}32'E.$ , 10.00 chs. from NE. cor.
- 80.04 The cor. of secs. 28, 29, 32 and 33.  
 Land, mountainous.  
 Soil, limestone rock, 4th rate.  
 No timber.  
 Undergrowth, greasewood, oak brush and cacti.  
 July 27: At this cor. I set off  $19^{\circ}21\frac{1}{2}'N.$  on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is  $31^{\circ}44\frac{1}{2}'N.$
- 
- $N.0^{\circ}01'E.$ , bet. secs. 28 and 29.  
 Descending through dense brush.
- 18.65 Cross road, bears NE. and SW.
- 19.45 Cross wash, 20 lks. wide, course NE.; ascend.
- 25.95 Top of ridge, bears NE. and SW.; descend.
- 29.95 Cross wash, 15 lks. wide, course NE.; ascend.
- 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, S 28 in E. and  $\frac{1}{4}$  S 29 in W. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 48.65 Top of ridge, bears NE. and SW.; descend.
- 59.05 Cross wash, 20 lks. wide, course NE.; ascend.
- 72.65 Top of ridge, brs. E. and W.; descend.

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- 76.68 Intersect S.end line of Edith Mining Claim, survey No. 2458, N.89°35'W., 1.92 chs. from cor.No.2.
- 80.00 Set an iron post 3 ft. long, 2 ins.diam., 24 ins. in the ground for cor.of secs. 20,21,28 and 29, marked on brass cap,  
T 19 S R 25 E in N.half;  
S 20 in NW.,  
S 21 in NE.,  
S 28 in SE., and  
S 29 in SW. quadrant; raise a mound of stone 2 ft. base, 1½ ft. high,W.of cor. Pits impracticable.
- Land, mountainous.  
Soil, rocky and worthless, 4th rate.  
No timber.  
Undergrowth,oak brush and cacti.

July 27, 1911.

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July 28: At 7h.00m.,a.m., l.m.t., I set off 31°45½'N.on the lat.arc; 19°11½'N. on the decl.arc, and determine a meridian with the solar at the cor.of secs. 20,21,28 and 29.

- West on a random line, bet. secs.20 and 29.
- 40.00 Set temp. ¼ sec.cor.
- 80.08 Intersect the N.and S. line, 7 lks.N.of the cor.of secs. 19,20, 29 and 30.  
Thence I run,  
N.89°57'E. on a true line, bet. secs.20 and 29.  
Descending through scattering brush.
- 1.28 Cross wash, 8 lks.wide, course SE.
- 6.40 Top of small ridge, bears N.and S.; descend.
- 14.48 Cross wash, 15 lks.wide, course SW., ascend.
- 40.04 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec.cor., marked on brass cap, ¼ S 20 in N. and S 29 in S.half; raise a mound of stone 2 ft.base, 1½ft. high, N.of cor. Pits impracticable.
- 43.88 Top of ridge, brs. NW.and SE.; descend.
- 64.30 Intersect W.side line of Alice Mining Claim, Sur.No.2458, N.0°37' E., 3.26 chs. from cor.No.3.
- 80.08 The cor. of secs. 20,21,28 and 29.  
Land, mountainous.  
Soil, rocky and worthless, 4th rate.  
No timber.  
Undergrowth,oak brush and cacti.

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N.0°01' E. bet. secs.20 and 21.  
Over rolling country, through dense brush.

- 7.20 Cross wash,20 lks.wide, course NE.
- 30.60 Cross road, bears SE. and NW.
- 35.37 Cross road, bears NW. and SE.
- 40.00 Set an iron post 3 ft. long, 1 in.diam., 26 ins. in the ground for ¼ sec.cor., marked on brass cap S 21 in E., and ¼ S 20 in W.half; raise a mound of stone 2 ft. base, 1½ ft. high,W.of cor. Pits impracticable.  
From this cor. U.S.M.M.No.2 brs. N.68°08'E.34.35 chs.dist.
- 42.45 Cross wash 20 lks.wide, course SE.
- 43.78 Cross road, bears NW.and SE.
- 45.13 El Paso and Southwestern R.R.bears E.and W.
- 80.00 Set an iron post 3 ft. long, 2 ins.diam., 24 ins. in the ground for cor.of secs.16,17,20 and 21, marked on brass cap,  
T 19 S R 25 E in N.half;  
S 17 in NW.,  
S 16 in NE.,  
S 21 in SE., and  
S 20 in SW.quadrant; raise a mound of stone 2 ft. base, 1½ ft. high,W.of cor. Pits impracticable.
- Land, rolling and hilly.

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Chains.

Soil, rocky and worthless, 4th rate.  
 No timber.  
 Undergrowth, oak brush, catclaw and cacti.  
 July 28: At this cor. I set off  $19^{\circ}08'N$ . on the decl. arc,  
 and observe the sun on the meridian at noon; the result-  
 ing lat. is  $31^{\circ}46\frac{1}{2}'N$ .  
 From this cor. U.S.M.M. No. 1319, brs.  $N. 27^{\circ}02' W$ .

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West, on a random line, bet. secs. 17 and 20.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.00 Intersect N. and S. line 3 lks. S. of cor. of secs. 17, 18, 19  
 and 20.  
 Thence I run,  
 $S. 89^{\circ}59'E$ . on a true line, bet. secs. 17 and 20.  
 Over rolling land, through dense brush.  
 72.42 Cross road, bears NW. and SE.  
 17.20 Cross wash, 20 lks. wide, course SW.; ascend.  
 39.80 Top of ridge, brs. N. and S.; descend.  
 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,  $\frac{1}{4}$  S 17 in  
 N. and S 20 in S. half; raise a mound of stone 2 ft.  
 base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 From this cor. U.S.M.M. No. 1319, bears  $N. 52^{\circ} 20'E$ .  
 45.22 Intersect W. side line of Copper Bug Mining Claim, Sur. 2608.  
 S.W. cor. of claim bears  $S. 26^{\circ}50'E$ ., 4.55 chs. dist.  
 62.30 Cross wash, 20 lks. wide, course NE.; ascend.  
 65.96 Cross road, bears NE. and SW.  
 75.65 Top of ridge, bears N. and S.; descend.  
 80.00 The cor. of secs. 16, 17, 20 and 21.  
 Land, rolling and mountainous.  
 Soil, rocky and worthless, 4th rate.  
 No timber.  
 Undergrowth, oak brush, catclaw and cacti.  
 July 28, 1911.

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August 1: At 7h.00m.a.m., 1.m.t., I set off  $31^{\circ} 46\frac{1}{2}'N$ .  
 on the lat. arc;  $18^{\circ}14\frac{1}{2}'N$ . on the decl. arc, and deter-  
 mine a meridian with the solar at the cor. of secs. 16, 17,  
 20 and 21.  
 $N. 0^{\circ}01'E$ ., bet. secs. 16 and 17.  
 Over rolling land, through dense brush:  
 7.60 Cross road, bears NE. and SW.  
 8.30 Cross road, bears NE. and SW.  
 9.20 Cross wash, 20 lks. wide, course NE., ascend.  
 12.30 El Paso and Southwestern R.R., bears E. and W.  
 15.00 Top of ridge, brs. E. and W.; descend.  
 27.00 Cross wash, 30 lks. wide, course NW.; ascend.  
 35.00 Top of ridge, brs. E. and W.; descend.  
 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 S 16 in E.,  
 and  $\frac{1}{4}$  S 17 in W. half; raise a mound of stone 2 ft.  
 base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 48.60 Cross road, brs. NW. and SE.  
 49.15 Cross wash, 10 lks. wide, course NE.  
 52.20 Cross wash, 20 lks. wide, course SE.; ascend.  
 67.60 Top of ridge, brs. E. and W.; descend.  
 77.65 Cross wash, 10 lks. wide, course SE.  
 79.75 Cross road, bears NW. and SE.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in  
 the ground for cor. of secs. 8, 9, 16 and 17, marked on  
 brass cap,  
 T 19 S R 25 E in N. half,  
 S 8 in NW.,  
 S 9 in NE.,  
 S 16 in SE., and  
 S 17 in SW. quadrant; dig pits 18x18x12 ins.

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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 and hilly.  
Soil, rocky and worthless, 4th rate.  
No timber.  
Undergrowth, oak brush, catclaw and cacti.

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West, on a random line, bet. secs. 8 and 17.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.98 Intersect N. and S. line, 5 lks. N. of cor. of secs. 7, 8, 17 and 18.

Thence I run,

N.  $89^{\circ}58'E.$ , on a true line, bet. secs. 8 and 17.

Over rolling land, through dense brush.

11.38 Cross road, bears NE. and SW.

12.03 Cross road, brs. NE. and SW.

16.68 Cross road, brs. N. and S.

25.13 Cross wash, 10 lks. wide, course NE.

32.48 Cross road, brs. NW. and SE.

35.68 Cross road, brs. NW. and SE.

36.33 Cross wash, 10 lks. wide, course SE.

39.99 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 8 in N. and S 17 in S. half; dig pits 18x18x12 ins. E. and W. of cor.  $3\frac{1}{2}$  ft. dist., and raised a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

49.33 Cross road, brs. N. and S.

56.33 Cross wash, 1.00 ch. wide, course SE.

79.48 Cross road, brs. NW. and SE.

79.98 The cor. of secs. 8, 9, 16 and 17.

Land, rolling.

Soil, very sandy loam, over 2 ft. deep; dry, coarse texture, 2nd rate.

No timber.

Undergrowth, oak brush and cacti.

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N.  $0^{\circ}01'E.$ , bet. secs. 8 and 9.

Over rolling land, through scattering brush.

7.95 Cross wash, 50 lks. wide, course SE.

34.80 Cross wash, 1.50 chs. wide, course 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 S 9 in E. and  $\frac{1}{4}$  S 8 in W. half; dig pits 18x18x12 ins., N. and 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.

55.35 Cross wash, 12 lks. wide, course NE.

68.55 Cross road, brs. NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 8 and 9, marked on brass cap,

T 19 S R 25 E in N. half,

S 5 in NW.,

S 4 in NE.,

S 9 in SE.; and

S 8 in SW. quadrant; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Land, rolling.

Soil, very sandy loam over 2 ft. deep; coarse texture, dry 2nd rate.

No timber. Undergrowth, mesquite and cacti.

August 1: At this cor. I lay off  $18^{\circ}10\frac{1}{2}'N.$  on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is  $31^{\circ}48'N.$ 

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West, on a random line, bet. secs. 5 and 8.

40.00 Set temporary  $\frac{1}{4}$  sec. cor.

79.96 Intersect N. and S. line 5 lks. S. of cor. of secs. 5, 6, 7 and 8.

Chains.

Thence I run,  
 S.89°58'E. on a true line, bet. secs.5 and 8.  
 Over rolling land, through scattering brush.  
 0.21 Cross fence, brs. N.and S.  
 23.41 Fence, brs. NW.and SE.  
 33.61 Fence, brs. NW.and SE.  
 39.76 Cross wash, 10 lks.wide, course NE.  
 39.98 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,  $\frac{1}{4}$  S 5 in  
 N. and S 8 in S. half; dig pits 18x18x12 ins. E.and W.  
 of cor. 3 ft.dist., and raise a mound of earth  $3\frac{1}{2}$  ft.  
 base,  $1\frac{1}{2}$  ft. high, N.of cor.  
 Fence, brs.N.and S.  
 45.21 Cross road, brs.N.and S.  
 46.56 Cross road, brs. NW.and SE.  
 75.16 Cross road, brs. NW.and SE.  
 79.96 The cor.of secs.4,5,8 and 9.  
 Land, rolling.  
 Soil, very sandy loam over 2 ft. deep; dry, coarse texture,  
 2nd rate.  
 No timber.  
 Undergrowth, mesquite and cacti.

N.0°01'E., bet. secs.4 and 5.  
 Over rolling land, through dense brush.  
 18.45 Cross wash, 75 lks.wide, course NE.  
 20.45 Cross wash, 1.00 ch. wide, course NE.  
 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, S 4 in  
 E. and  $\frac{1}{4}$  S 5 in W.half; dig pits 18x18x12 ins., N.and  
 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.  
 69.80 Cross road, brs. NE.and SW.  
 86.46 Intersect N.bdy.of Tp., 4.18 chs.N.89°42'E, of cor.of  
 secs. 32 and 33. A stone marked and witnessed as de-  
 scribed by the Surveyor General.  
 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in  
 the ground for closing cor. of secs. 4 and 5, marked on  
 brass cap,  
 C C,S.of center,  
 T 18 S R 25 E S 32 S 33 in N.half;  
 S 4 in SE., and  
 S 5 in SW. quadrant; dig pits 24x18x12 ins.cross-  
 wise on each line E.and W. 3 ft., and S.of cor. 7 ft.  
 dist., and raise a mound of earth 4 ft. base, 2 ft.  
 high,S.of cor.  
 Land, rolling.  
 Soil, very sandy loam, over 2 ft. deep, dry, coarse tex-  
 ture, 2nd rate.  
 No timber.  
 Undergrowth, mesquite and cacti.

August 1, 1911.

July 29, 1911: At 7h.00m.a.m., 1.m.t., I set off 31°44'  
 N. on the lat.arc; 18°58'N. on the decl.arc, and de-  
 terminé a meridian with the solar at the cor.of secs.  
 3,4,33 and 34 on the S.bdy.of the Tp., heretofore described.  
 N.0°02'E., bet. secs.33 and 34.  
 Over rolling land, through dense brush.  
 14.60 Cross wash, 10 lks.wide, course E.  
 31.25 Cross wash, 5 lks.wide, course SE.  
 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 S 34 in  
 E. and  $\frac{1}{4}$  S 33 in W.half; dig pits 18x18x12 ins.N.and



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- 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.
- 57.20 Cross wash, 8 lks. wide, course SE.
- 76.25 Cross wash, 8 lks. wide, course SE.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 27, 28, 33 and 34, marked on brass cap,  
T 19 S R 25 E in N. half;  
S 28 in NW.,  
S 27 in NE.,  
S 34 in SE., and  
S 33 in SW. 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, rolling.  
Soil, sandy loam, over 2 ft. deep; dry, medium texture, 1st rate.  
No timber.  
Undergrowth, mesquite and cacti.

- West, on a random line, bet. secs. 28 and 33.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.98 Intersect N. and S. line 3 lks. S. of the cor. of secs. 28, 29, 32 and 33.  
Thence I run,  
S.  $89^{\circ}59'$  E. on a true line, bet. secs. 28 and 33.  
Over rolling land, through scattering brush,
- 11.70 Cross Arizona Eastern R.R., bears NE. and SW.
- 30.65 Cross road, brs. N. and S.
- 39.99 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  $\frac{1}{4}$  S 28 in N. and S 33 in S. half; dig pits 18x18x12 ins. E. and W. 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.
- 79.98 The cor. of secs. 27, 28, 33 and 34.  
Land, rolling.  
Soil, very sandy loam, over 2 ft. deep; dry, medium texture; 1st rate.  
No timber.  
Undergrowth, mesquite and cacti.

- N.  $0^{\circ}02'$  E., bet. secs. 27 and 28.  
Over level land.
- 31.28 Cross road, brs. NW. and SE.
- 39.42 Cross Arizona Eastern R.R., bears NE. and SW.
- 39.62 Cross Arizona Eastern R.R., bears NW. and SE.
- 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 S 27 in E. and  $\frac{1}{4}$  S 28 in W. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 40.95 Fence, bears E. and W.
- 61.40 Fence bears E. and W.
- 63.40 Cross road, brs. E. and W.
- 77.50 Cross wash, 20 lks. wide, course NE.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked on brass cap,  
T 19 S R 25 E in N. half;  
S 21 in NW.,  
S 22 in NE.,  
S 27 in SE., and  
S 28 in SW. 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, level.  
Soil, sandy loam over 2 ft. deep; dry, medium texture; 1st rate.  
No timber.

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Chains.

No undergrowth.

July 29: At this cor. I set off  $18^{\circ}54'N.$ , on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is  $31^{\circ}44\frac{1}{2}'N.$

West, on a random line, bet. secs. 21 and 28.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect N. and S. line, 3 lks. N. of cor. of secs. 20, 21, 28 and 29.

Thence I run,

N.  $89^{\circ}59'E.$  on a true line, bet. secs. 21 and 28.

Descending through scattering brush.

2.00 Intersect E. side line of Edith Mining Claim, Sur. No. 2458, N.  $1^{\circ}28'E.$ , 3.33 chs. from SE. cor.

15.32 Cross wash, 15 lks. wide, course SW., ascend.

24.67 Top of ridge, brs. N. and S.; descend.

37.77 Foot of ridge, El Paso and Southwestern R.R., bears N. and S., over rolling land.

40.01 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 21 in E. and S 28 in S. half; dig pits  $18 \times 18 \times 12$  ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

42.72 Cross road, brs. NW. and SE.

71.67 Cross wash, 15 lks. wide, course NE.

78.47 Cross road, brs. NE. and SW.

80.02 The cor. of secs. 21, 22, 27 and 28.

Land, rolling and hilly.

Soil, very sandy loam, over 2 ft. deep; dry, coarse texture, 2nd rate, except 37.77 chs., which is rocky and worthless, 4th rate.

No timber.

Underbrush, oak brush, catclaw and cacti.

N.  $0^{\circ}02'E.$ , bet. secs. 21 and 22.

Ascending through dense brush.

1.17 Cross road, brs. NE. and SW.

3.05 Cross road, brs. NW. and SE.

5.70 Telephone line, bears NW. and SE.

7.50 Cross wash, 30 lks. wide, course E.

11.25 Cross road, brs. E. and W.

14.50 El Paso and Southwestern R.R., bears NE. and SW.

26.60 Top of hill, brs. E. and W.; descend.

30.20 Cross wash, 30 lks. wide, course E.; ascend.

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, S 22 in E. and  $\frac{1}{4}$  S 21 in W. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

45.00 Top of ridge, brs. E. and W.; descend.

50.30 Cross wash, 8 lks. wide, course NE.

66.40 Cross wash, 15 lks. wide, course SE.

76.26 Cross wash, 10 lks. wide, course NE.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked on brass cap,

T 19 S, R 25 E in N. half;

S 16 in NW.,

S 15 in NE.,

S 22 in SE., and

S 21 in SW. quadrant; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Land, hilly.

Soil, rocky and worthless, 4th rate.

No timber.

Undergrowth, mesquite, catclaw, greasewood and cacti.

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- West, on a random line, bet. secs.16 and 21.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.04 Intersect N. and S. line 3 lks.S.of cor. of secs. 16,17,  
 20 and 21.  
 Thence I run,  
 S.89°59'E., bet. secs. 16 and 21, on a true line..  
 Descending through dense brush.  
 20.96 Cross road, bears NW.and SE.  
 31.14 Intersect E. side line of Mary Mine claim, Sur.No.2458 at  
 S.0°35'E., 1.79 chs. from cor.5.  
 35.04 Cross wash,30 lks.wide, course NE.  
 37.04 El Paso and Southwestern R.R., bears NW.and SE.  
 40.02 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  $\frac{1}{4}$  S 16 in  
 N. and S 21 in S.half; raise a mound of stone 2 ft.  
 base,  $1\frac{1}{2}$  ft. high,N.of cor. Pits impracticable.  
 51.54 Top of ridge, brs.N.and S,  
 56.29 El Paso and Southwestern R.R., bears NE.and SW.  
 63.04 Cross wash 15 lks.wide, course NE.  
 80.04 The cor.of secs.15,16,21 and 22.  
 Land, hilly.  
 Soil, rocky and worthless, 4th rate.  
 No timber.  
 Undergrowth, catclaw,oak brush and cacti.

July 29, 1911.

*John P. Hesse*  
 U. S. Transitman.

August 2: At 7h.00m. a.m., l.m.t., I set off  $31^{\circ}46\frac{1}{2}'$  N. on  
 the lat.arc;  $17^{\circ}59\frac{1}{2}'$  N. on the decl.arc, and determine  
 a meridian with the solar at the cor.of secs.15,16,21  
 and 22.

- N.0°02'E., bet. secs. 15 and 16.  
 Over rolling land, through scattering brush.  
 9.55 Cross wash, 30 lks.wide, course NE.  
 14.40 El Paso and Southwestern R.R., bears NW.and SE.  
 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 S 15  
 in E. and  $\frac{1}{4}$  S 16 in W.half; dig pits 18x18x12 ins.N.  
 and 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.  
 40.87 Cross road, brs. NE.and SW.  
 57.72 Cross road, brs. NE.and SW.  
 58.50 Cross wash, 1.50 chs. wide, course E.  
 76.91 Fence, bears E.and W.  
 80.00 Set an iron post 3 ft. long, 2 ins.diam., 24 ins. in the  
 ground for cor.of secs. 9,10,15 and 16, marked on  
 brass cap,  
 T 19 S R 25 E in N.half;  
 S 9 in NW.,  
 S 10 in NE.,  
 S 15 in SE., and  
 S 16 in SW. 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, rolling.  
 Soil, sandy loam, over 2 ft. deep; dry, medium texture,  
 1st rate.  
 No timber. Undergrowth, mesquite and cacti.

- West, on a random line, bet. secs.9 and 16.  
 40.00 Set temporary  $\frac{1}{4}$  sec.cor.  
 80.02 Intersect N.and S. line 3 lks.N.of cor. of secs. 8,9,16  
 and 17.  
 Thence I run,  
 N.89°59'E. on a true line, bet. secs.9 and 16.

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Over rolling land, through scattering brush.  
 1.40 Cross road, bears NW. and SE.  
 5.10 Fence, bears N. and S.  
 5.91 Fence, bears N. and S.  
 7.08 Cross road, bears NW. and SE.  
 17.52 Cross wash, 1.00 ch. wide, course SE.  
 40.01 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,  $\frac{1}{4}$  S 9 in N., and S 16 in S. half; dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 41.07 Cross road, brs. N. and S.  
 41.40 Fence, brs. N. and S.  
 80.02 The cor. of secs. 9, 10, 15 and 16.  
 Land, rolling.  
 Soil, sandy loam, over 2 ft. deep, dry; medium texture; 1st rate.  
 No timber.  
 Underbrush, mesquite and cacti.

N. 0° 02' E., bet. secs. 9 and 10.  
 Over rolling land, through scattering brush.  
 16.76 Fence, bears E. and W.  
 23.98 Cross road, brs. NE. and SW.  
 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 S 10 in E., and  $\frac{1}{4}$  S 9 in W. half; dig pits 18x18x12 ins., N. and 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.  
 43.11 Cross wash, 8 lks. wide, course SE.  
 52.84 Cross road, bears NE. and SW.  
 60.90 Cross wash, 10 lks. wide, course NE.  
 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,  
     T 19 S R 25 E in N. half;  
     S 4 in NW.,  
     S 3 in NE.,  
     S 10 in SE., and  
     S 9 in SW. 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, rolling.  
 Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate.  
 No timber.  
 Undergrowth, mesquite and cacti.  
 August 2: At this cor. I set off  $17^{\circ} 55\frac{1}{2}'$  N. on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is  $31^{\circ} 48'$  N.

West, on a random line, bet. secs. 4 and 9.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.10 Intersect N. and S. line 3 lks. S. of cor. of secs. 4, 5, 8 and 9.  
 Thence I run,  
 S.  $89^{\circ} 59'$  E. on a true line, bet. secs. 4 and 9.  
 Over rolling land, through dense brush.  
 11.19 Ascend rocky ridge.  
 22.10 Top of ridge, brs. N. and S.; descend.  
 36.45 Foot of ridge, cross road, bears NE. and SW.; over rolling land.  
 40.05 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 4 in N. and S 9 in S. half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

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- 72.43 Cross road, bears NE. and SW.  
80.10 The cor. of secs. 3, 4, 9 and 10.  
Land, rolling and hilly.  
Soil, rocky and worthless, 4th rate.  
No timber.  
Undergrowth, catclaw and cacti.

N.0°02' E., bet. secs. 3 and 4.

Over rolling land, through scattering brush.

- 28.58 Cross road, bears NE. and 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 S 3 in E. and  $\frac{1}{4}$  S 4 in W. half; dig pits 18x18x12 ins. N. and 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.  
86.83 Intersect N. bdy. of Tp., 4.24 chs. N.89°47' E. of cor. of secs. 33 and 34; a stone marked and witnessed as described by the Surveyor General.  
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 3 and 4, marked on brass cap,  
C C, S of center,  
T 18 S R 25 E S 33 S 34 in N. half;  
S 3 in SE., and  
S 4 in SW. quadrant; dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft., and S. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor.  
Land, rolling.  
Soil, very sandy loam, over 2 ft. deep; dry, medium texture; 2nd rate.  
No timber.  
Undergrowth, mesquite and cacti.

August 2, 1911.

July 31: At 7h.00m., a.m., l.m.t., I set off 31°43 $\frac{1}{2}$ ' N. on the lat. arc; 18°29' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of the Tp., heretofore described.

N.0°02' E., bet. secs. 34 and 35.

Over rolling land, through dense brush.

- 25.00 Cross wash, 1.00 ch. wide, course NE.  
35.88 Cross road, bears NW. and SE.  
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, S 35 on E. and  $\frac{1}{4}$  S 34 on W. half; dig pits 18x18x12 ins., N. and 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.  
40.95 Cross road, bears NNW. and SSE.  
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked on brass cap,  
T 19 S R 25 E in N. half,  
S 27 in NW.,  
S 26 in NE.,  
S 35 in SE., and  
S 34 in SW. 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, rolling.  
Soil, sandy loam, over 2 ft. deep, mixed with coarse gravel, dry; 2nd rate.  
No timber. Undergrowth, mesquite and cacti.

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West, on a random line, bet. secs.27 and 34.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
 80.02 Intersect N.and S. line,10 lks.N.of cor. of secs. 27,28,  
 33 and 34.  
 Thence I run,  
 N.89°56'E., on a true line,, bet. secs.27 and 34.  
 Over rolling land, through scattering brush.  
 39.80 Cross road, brs. NW.and SE.  
 40.01 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 27  
 in N., and S 34 in S.half; raise a mound of stone 2 ft.  
 base,  $1\frac{1}{2}$  ft. high,N.of cor. Pits impracticable.  
 54.65 Cross wash, 10 lks.wide, course SE.  
 67.35 Cross wash, 30 lks.wide, course NE.  
 75.25 Cross road, bears N.and S.  
 80.02 The cor.of secs.26,27,34 and 35.  
 Land, rolling.  
 Soil,very sandy loam, mixed with coarse gravel and rocks,  
 2nd rate.  
 No timber. Undergrowth, mesquite and cacti.

N.0°02'E., bet. secs.26 and 27.  
 Over rolling land, through scattering brush.  
 1.00 Cross wash, 20 lks.wide, course SE.  
 7.33 Cross road, brs. NE.and SW.  
 14.00 Cross road, bears NW: and SE.  
 24.85 Cross road, bears NE.and SW.  
 28.06 Arizona Eastern R.R., bears WNW. and ESE.  
 35.32 Cross road, bears NW.and SE.  
 39.75 Cross wash, 10 lks.wide, course SE.  
 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, S 26 on E.  
 and  $\frac{1}{4}$  S 27 on W.half; dig pits 18x18x12 ins. N.and 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.  
 43.05 Cross road, bears NW.and SE.  
 45.43 Cross road, bears NW.and SE.  
 56.61 Cross wash, 20 lks.wide, course NE.  
 74.62 Cross road, bears ENE. and WSW.  
 74.86 Telephone line bears WNW. and ESE.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
 ground for cor.of secs.22,23,26 and 27, marked on brass  
 cap,  
 T 19 S R 25 E in N.half;  
 S 22 in NW.,  
 S 23 in NE.,  
 S 26 in SE., and  
 S 27 in SW. 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, rolling.  
 Soil, sandy loam, mixed with coarse gravel, 2nd rate. No  
 timber.  
 Undergrowth, mesquite, cacti and broomweed.  
 July 31: At this cor. I set off  $18^{\circ} 25\frac{1}{2}'$  N. on the decl.  
 arc, and observe the sun on the meridian at noon; the  
 resulting lat.is  $31^{\circ} 45\frac{1}{2}'$  N.

West, on a random line, bet. secs.22 and 27.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
 79.98 Intersect N.and S.line at cor.of secs.21,22,27 and 28.  
 Thence I run,  
 East, on a true line, bet. secs.22 and 27.  
 Over rolling land, through scattering brush.  
 3.28 Cross wash, 35 lks.wide, course NE.  
 39.99 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 22

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in N. and S 27 in S.half; dig pits 18x18x12 ins E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.

- 41.12 Cross road, bears WNW. and ESE.  
 42.28 Telephone line bears WNW. and ESE.  
 61.33 Cross wash, 8 lks. wide, course SE.  
 63.73 Cross road, brs. NW. and SE.  
 79.98 The cor. of secs. 22, 23, 26 and 27.  
 Land, rolling.  
 Soil, sandy loam mixed with coarse gravel, 2nd rate.  
 No timber.  
 Undergrowth, mesquite and cacti.

N. 0°02'E. bet. secs. 22 and 23.

Over rolling land, through scattering brush.

- 19.00 Cross wash, 2.00 chs. wide, course NE.  
 28.75 Cross wash, 20 lks. wide, course SE.  
 39.58 Cross road, brs. NW. and SE.  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap, S 23 in E., and ¼ S 22 in W. half; dig pits 18x18x12 ins. N and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.  
 46.95 El Paso and Southwestern R.R., bears NW. and SE.  
 57.26 Cross road, bears NE. and SW.  
 65.00 Cross wash, 50 lks. wide, course SE.  
 75.39 Cross road, bears NE. and SW.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 14, 15, 22 and 23, marked on brass cap,  
     T 19 S R 25 E in N. half;  
     S 15 in NW.,  
     S 14 in NE.,  
     S 23 in SE., and  
     S 22 in SW. quadrant; raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.  
 Land, rolling.  
 Soil, sandy loam, mixed with coarse gravel and rocks, 2nd rate.  
 No timber.  
 Undergrowth, broomweed and cacti.

West, on a random line, bet. secs. 15 and 22.

- 40.00 Set temp. ¼ sec. cor.  
 80.02 Intersect N. and S. line 3 lks. S. of cor. of secs. 15, 16, 21 and 22.  
 Thence I run,  
 S. 89°59'E., on a true line, bet. secs. 15 and 22.  
 Over rolling land, through scattering brush.  
 10.58 Cross wash, 10 lks. wide, course SE.  
 28.53 El Paso and Southwestern R.R., bears NW. and SE.  
 40.01 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 15 in N. and S 22 in S. half; raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.  
 76.38 Cross road, bears NE. and SW.  
 80.02 The cor. of secs. 14, 15, 22 and 23.  
 Land, rolling.  
 Soil, sandy loam, mixed with coarse gravel and rocks, 3rd rate.  
 No timber.  
 Undergrowth, mesquite, catclaw and cacti.

July 31, 1911.

August 3: At 7h.00m., a.m., l.m.t., I set off 31°46½'N. on the lat. arc; 17°44'N. on the decl. arc, and determine

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- a meridian with the solar at the cor. of secs. 14, 15, 22 and 23.  
 N.  $0^{\circ}02'E.$ , bet. secs. 14 and 15.  
 Over rolling land, through scattering brush.
- 12.00 Cross wash, 10 lks. wide, course SE.  
 24.36 Cross wash, 50 lks. wide, course SE.  
 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 S 14 in E. and  $\frac{1}{4}$  S 15 in W. half; dig pits 18x18x12 ins., N. and 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.
- 51.28 Cross road, brs. NW. and SE.  
 70.82 Cross road, bears NE. and SW.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked on brass cap,  
     T 19 S R 25 E in N. half;  
     S 10 in NW.,  
     S 11 in NE.,  
     S 14 in SE., and  
     S 15 in SW. 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, rolling.  
 Soil, sandy loam, mixed with coarse gravel, 2nd rate.  
 No timber.  
 Undergrowth, mesquite and cacti.
- 
- West, on a random line, bet. secs. 10 and 15.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.04 Intersect N. and S. line 7 lks. N. of the cor. of secs. 9, 10, 15 and 16.  
 Thence I run,  
 N.  $89^{\circ}57'E.$  on a true line, bet. secs. 10 and 15.  
 Over rolling land.
- 6.25 Cross road, bears NE. and SW.; chimney on adobe house, brs. N.  $48^{\circ}47'E.$   
 40.02 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  $\frac{1}{4}$  S 10 in N. and S 15 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 42.29 Fence bears N. and S.  
 42.36 Chimney on adobe house, bears N.  $77^{\circ}07'W.$   
 80.04 The cor. of secs. 10, 11, 14 and 15.  
 Land, rolling.  
 Soil, sandy loam, mixed with coarse gravel, 2nd rate.  
 No timber.  
 No undergrowth.
- 
- N.  $0^{\circ}02'E.$ , bet. secs. 10 and 11.  
 Over rolling land, through scattering cacti.
- 20.65 Cross road, bears NE. and SW.  
 25.00 Cross road, bears NE. and SW.  
 37.70 Cross wash 20 lks. wide, course SE.  
 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, S 11 in E. and  $\frac{1}{4}$  S 10 in W. half; dig pits 18x18x12 ins. N. and 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.
- 67.50 Cross road, bears NE. and SW.  
 72.58 Cross wash, 8 lks. wide, course SE.  
 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,  
     T 19 S R 25 E in N. half;  
     S 3 in NW.,



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S 2 in NE.,  
S 11 in SE., and  
S 10 in SW. quadrant; dig pits 18x18x12 ins. in each  
sec. 5½ ft. dist., and raise a mound of earth 4 ft.  
base, 2 ft. high, W. of cor.

Land, rolling.

Soil, sandy loam, mixed with coarse gravel, 2nd rate.

No timber.

Undergrowth, cacti.

August 3: At this cor. I set off 17°40'N. on the decl.  
arc, and observe the sun on the meridian at noon; the  
resulting lat. is 31°48'N.

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West, on a random line, bet. secs. 3 and 10.

40.00 Set temp. ¼ sec. cor.

80.06 Intersect N. and S. line, 3 lks. S. of cor. of secs. 3, 4, 9  
and 10.

Thence I run,

S. 89°59'E., on a true line, bet. secs. 3 and 10.

Over rolling land.

36.87 Cross road, bears NE. and SW.

40.03 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for ¼ sec. cor., marked on brass cap ¼ S 3 in  
N. and S 10 in S. half; dig pits 18x18x12 ins. E. and  
W. of cor. 3 ft. dist., and raise a mound of earth 3½  
ft. base, 1½ ft. high, N. of cor.

54.60 Cross wash, 8 lks. wide, course NE.

73.66 Cross road, bears NE. and SW.

80.06 The cor. of secs. 2, 3, 10 and 11.

Land, rolling.

Soil, very sandy loam, over 2 ft. deep; dry, coarse tex-  
ture; 2nd rate.

No timber.

-----  
N. 0°02' E., bet. secs. 2 and 3.

Over rolling land.

7.75 Cross road, bears NE. and SW.

10.58 Cross wash, 15 lks. wide, course NE.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for ¼ sec. cor., marked on brass cap S 2 in E.,  
and ¼ S 3 in W. half; dig pits 18x18x12 ins. N. and S.  
of cor. 3 ft. dist., and raise a mound of earth 3½ ft.  
base, 1½ ft. high, W. of cor.

87.24 Intersect N. bdy. of Tp. 4. 18 chs. N. 89°44'E. of cor. of secs.  
34 and 35, a stone marked and witnessed as described  
by the Surveyor General.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
ground for closing cor. of secs. 2 and 3, marked on  
brass cap,

C C, S of center,

T 18 S R 25 E S 34 S 35 in N. half;

S 2 in SE., and

S 3 in SW. quadrant; dig pits 24x18x12 ins. crosswise  
on each line, E. and W. 3 ft., and S. 7 ft. dist., and  
raise a mound of earth 4 ft. base, 2 ft. high, S. of cor.

Land, rolling.

Soil, sandy loam, mixed with coarse gravel, 2nd rate.

No timber.

August 3, 1911.

*John P. Nease*  
U. S. Transitman.

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July 31: At the cor. of secs. 1, 2, 35 and 36 on the S. bdy.  
of the Tp. <sup>heretofore described</sup> I set off 18°25½'N. on the decl. arc, and  
observe the sun on the meridian at noon; the resulting

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lat. is  $31^{\circ}43\frac{1}{2}'N$ ,  
 $N.0^{\circ}03'E$ , bet. secs. 35 and 36.  
 Over level land, through dense brush.  
 38.75 Cross wash, 15 lks. wide, course SE.  
 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 S 36 in E.  
 and  $\frac{1}{4}$  S 35 in W. half; dig pits 18x18x12 ins. N. and 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.  
 45.65 Cross wash, 30 lks. wide, course E.  
 65.00 Cross wash, 23 lks. wide, course SE.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
 ground for cor. of secs. 25, 26, 35 and 36, marked on brass  
 cap,  
 T 19 S R 25 E in N. half,  
 S 26 in NW.,  
 S 25 in NE.,  
 S 36 in SE., and  
 S 35 in SW. 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, level.  
 Soil, gravel over 2 ft. deep; dry, medium texture; 1st  
 rate.  
 No timber.  
 Undergrowth, mesquite and catclaw.

-----  
 West, on a random line, bet. secs. 26 and 35.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.98 Intersect N. and S. line at the cor. of secs. 26, 27, 34 and 35.  
 Thence I run,  
 East, on a true line, bet. secs. 26 and 35.  
 Over level land, through dense brush.  
 4.23 Cross wash, 20 lks. wide, course SE.  
 22.38 Cross same wash, course NE.  
 24.08 Cross same wash, course SE.  
 39.99 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  $\frac{1}{4}$  S 26 in  
 N. and S 35 in S. half; dig pits 18x18x12 ins. E. and W.  
 of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft.  
 base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 79.98 The cor. of secs. 25, 26, 35 and 36.  
 Land, level.  
 Soil, gravel, over 2 ft. deep, dry, medium texture; 1st  
 rate.  
 No timber.  
 Undergrowth, mesquite.

July 31, 1911.

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 August 1: At 7h.00m. a.m., l.m.t., I set off  $31^{\circ}44\frac{1}{2}'N$ .  
 on the lat. arc;  $18^{\circ}14\frac{1}{2}'N$ . on the decl. arc, and deter-  
 mine a meridian with the solar at the cor. of secs. 25,  
 26, 35 and 36.  
 East, on a random line, bet. secs. 25 and 36.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 92.58 Intersect E. bdy. of Tp. 18 lks. S,  $2^{\circ}05'E$  of cor. of secs. 25, 30, 31  
 and 36, a mound witnessed as described by the  
 Surveyor General.  
 Thence I run,  
 $S.89^{\circ}53'W$ , on a true line, bet. secs. 25 and 36.  
 Over level land, through scattering brush.  
 14.58 Cross road, brs. NW. and SE.  
 31.44 Arizona Eastern R.R., bears NE. and SW.  
 31.96 Arizona Eastern R.R. (side track) bears NW. and SE.  
 52.58 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  $\frac{1}{4}$  S 25 in  
 N. and S 36 in S. half; dig pits 18x18x12 ins. E. and W.

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	of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
72.18	Cross wash, 10 lks. wide, course SE.
87.73	Cross wash, 10 lks. wide, course SE.
92.58	The cor. of secs. 25, 26, 35 and 36. Land, level. Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate. No timber. Undergrowth, mesquite and cacti.
-----	
	N. $0^{\circ}03'$ E., bet. secs. 25 and 26. Over level land, through dense brush.
1.58	Cross wash, 15 lks. wide, course E.
16.82	Arizona Eastern R.R., bears WNW. and ESE.
26.60	Cross road, bears NE. and SW.
33.80	Cross wash, 10 lks. wide, course SW.
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 S 25 in E., and $\frac{1}{4}$ S 26 in W. half; dig pits 18x18x12 ins. N. and 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.
56.30	Cross road, brs. NW. and SE.
63.04	Telephone line, bears NW. and SE.
76.34	El Paso and Southwestern R.R., bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked on brass cap, T 19 S R 25 E in N. half, S 23 in NW., S 24 in NE., S 25 in SE., and S 26 in SW. 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, level. Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate. No timber. Undergrowth, mesquite.
-----	
	West, on a random line, bet. secs. 23 and 26,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 3 lks. S. of cor. of secs. 22, 23, 26 and 27. Thence I run, S. $89^{\circ}59'$ E., on a true line, bet. secs. 23 and 26. Over level land, through dense brush.
35.70	Fence bears N. and S.
40.01	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, $\frac{1}{4}$ S 23 in N. and S 26 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
41.91	Fence bears N. and S.; house bears S. 2.27 chs. dist.
74.21	El Paso and Southwestern R.R., bears NW. and SE.
80.02	The cor. of secs. 23, 24, 25 and 26. Land, level. Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate. No timber. Undergrowth, mesquite. August 1: At this cor. I set off $18^{\circ}10\frac{1}{2}'$ N. on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ}45\frac{1}{2}'$ N.
-----	
	East, on a random line, bet. secs. 24 and 25.
40.00	Set temp. $\frac{1}{4}$ sec. cor.

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89.44 Intersect E. bdy. of Tp. 7 lks. S.  $2^{\circ}05' E.$  of cor. of secs. 19, 24, 25 and 30, a mound, witnessed as described by the Surveyor General.

Thence I run,  
 $S. 89^{\circ}57' W.$ , on a true line, bet. secs. 24 and 25.  
 Over level land, through dense brush.

16.99 Arizona Eastern R.R., bears NE. and SW.

49.44 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 N. and S 25 in S. half; dig pits 18x18x12 ins. E. and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

60.39 Cross wash, 10 lks. wide, course SE.

83.39 Cross road, bears NW. and SE.

89.44 The cor. of secs. 23, 24, 25 and 26.  
 Land, level.  
 Soil, sandy loam, over 2 ft. deep, dry; medium texture, 1st rate.  
 No timber.  
 Undergrowth, mesquite.

N.  $0^{\circ}03' E.$ , bet. secs. 23 and 24.  
 Over level land, through dense brush.

6.53 Cross road, bears NW. and SE.

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 S 24 in E. and  $\frac{1}{4}$  S 23 in W. half; dig pits 18x18x12 ins. N. and 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.

75.75 Cross road, bears E. and W.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 13, 14, 23 and 24, marked on brass cap,  
 T 19 S R 25 E in N. half,  
 S 14 in NW.,  
 S 13 in NE.,  
 S 24 in SE., and  
 S 23 in SW. 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, level.  
 Soil, sandy loam over 2 ft. deep; dry, medium texture, 1st rate.  
 No timber.  
 Undergrowth, mesquite and cacti.

August 1, 1911.

August 2: At 7h. 00m., a.m., l.m.t., I set off  $31^{\circ}46\frac{1}{2}' N.$  on the lat. arc;  $17^{\circ}59\frac{1}{2}' N.$  on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24.

West on a random line, bet. secs. 14 and 23.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.06 Intersect N. and S. line 3 lks. N. of cor. of secs. 14, 15, 22 and 23.

Thence I run,  
 $N. 89^{\circ}59' E.$  on a true line, bet. secs. 14 and 23.  
 Over level land, through dense brush.

34.16 Cross road, bears NE. and SW.

40.03 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 14 in N. and S 23 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth 3 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.06 The cor. of secs. 13, 14, 23 and 24.  
 Land, level.  
 Soil, sandy loam, over 2 ft. deep, dry, medium texture; 1st rate.

Chains

No timber.  
Undergrowth, mesquite, catclaw and cacti.

East, on a random line, bet. secs. 13 and 24.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

86.36 Intersect E. bdy of Tp., 15 lks. S.  $2^{\circ}05'$  E. of cor. of secs. 13, 18, 19 and 24, a mound witnessed as described by the Surveyor General.

Thence I run,

S.  $89^{\circ}54'$  W., on a true line, bet. secs. 13 and 24.

Over level land, through dense brush.

2.64 Arizona Eastern R.R., bears NE. and SW.

9.69 Cross road, bears NW. and SE.

46.36 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  $\frac{1}{4}$  S 13 in N. and S 24 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

86.36 The cor. of secs. 13, 14, 23 and 24.

Land, level.

Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate.

No timber.

Undergrowth, mesquite and cacti.

August 2: At this cor., I set off  $17^{\circ}55\frac{1}{2}'$  N. on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is  $31^{\circ}46\frac{1}{2}'$  N.

N.  $0^{\circ}03'$  E., bet. secs. 13 and 14.

Over level land, through dense brush.

22.20 Cross road, brs. NW. and SE.

25.07 Cross road, brs. NE. and SW.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked in brass S 13 in E. and  $\frac{1}{4}$  S 14 in W. half; dig pits 18x18x12 ins. N. and 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, 2 ins. diam., 24 ins. in the ground for cor. of secs. 11, 12, 13 and 14, marked on brass cap,

T 19 S R 25 E in N. half,

S 11 in NW.,

S 12 in NE.,

S 13 in SE., and

S 14 in SW. quadrants; 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, level.

Soil, sandy loam, over 2 ft. deep; dry, medium texture, 1st rate.

No timber.

Undergrowth, mesquite and cacti.

August 2, 1911.

August 3; At 7h.00m. a.m., l.m.t., I set off  $31^{\circ}47\frac{1}{2}'$  N. on the lat. arc;  $17^{\circ}44'$  N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 11, 12, 13 and 14.

West, on a random line, bet. secs. 11 and 14.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.12 Intersect N. and S. line 5 lks. S. of cor. of secs. 10, 11, 14 and 15.

Thence I run,

S.  $89^{\circ}58'$  E. on a true line, bet. secs. 11 and 14.

Over level land, through dense brush.

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- 21.99 Cross road, bears NE. and SW.  
 40.06 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 11 in N. and S 14 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 80.12 The cor. of secs. 11, 12, 13 and 14.  
 Land, level.  
 Soil, sandy loam, over 2 ft. deep; dry, medium texture, 1st rate.  
 No timber.  
 Undergrowth, mesquite and cacti.

August 3, 1911.

August 2:

- East, on a random line, bet. secs. 12 and 13.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 83.24 Intersect E. bdy, 30 lks. S.  $2^{\circ}05'E.$  of cor. of secs. 7, 12, 13 and 18, a mound witnessed as described by the Surveyor General.  
 Thence I run,  
 S.  $89^{\circ}47'W.$ , on a true line, bet. secs. 12 and 13.  
 Over level land.  
 43.24 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 N. and S 13 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 83.24 The cor. of secs. 11, 12, 13 and 14.  
 Land, level.  
 Soil, sandy loam, over 2 ft. deep, dry, medium texture; 1st rate.  
 No timber.

August 2, 1911.

August 3: N.  $0^{\circ}03'E.$ , bet. secs. 11 and 12.

- Over level land.  
 25.00 Cross road, bears NE. and SW.  
 28.65 Cross wash, 15 lks. wide, course E.  
 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 S 12 in E. and  $\frac{1}{4}$  S 11 in W. half; dig pits 18x18x12 ins. N. and 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.  
 43.40 Cross wash, 20 lks. wide, course E.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 1, 2, 11 and 12, marked on brass cap,  
 T 19 S R 25 E in N. half,  
 S 2 in NW.,  
 S 1 in NE.,  
 S 12 in SE., and  
 S 11 in SW. 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, level.  
 Soil, sandy loam, over 2 ft. deep, dry, medium texture; 1st rate.  
 No timber.

West, on a random line, bet. secs. 2 and 11.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.10 Intersect N. and S. line, 7 lks. S. of cor. of secs. 2, 3, 10 and 11.  
 Thence I run,

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- S.89°57'E., on a true line, bet. secs.2 and 11.  
Over level land.
- 40.05 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 2 in N. and S 11 in S.half; dig pits 18x18x12 ins. E.and W.of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft.base, 1 $\frac{1}{2}$  ft. high,N.of cor.
- 80.10 The cor.of secs.1,2,11 and 12.  
Land,level.  
Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate.  
No timber.  
August 3: At this cor. I set off 17°40'N. on the decl. arc, and observe the sun on the meridian at noon;the resulting lat. is 31°48'N.

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- East, on a random line, bet. secs.1 and 12.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.10 Intersect E.bdy.42 lks.S.2°05'E. of cor.of secs.1,6,7 and 12, a mound witnessed as described by the Surveyor General.  
Thence I run,  
S.89°42' W. on a true line, bet. secs.1 and 12.  
Over level land.
- 40.10 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 N. and S 12 in S.half; dig pits 18x18x12 ins.E.and W.of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft.base, 1 $\frac{1}{2}$  ft. high,N.of cor.
- 80.10 The cor.of secs.1,2,11 and 12.  
Land,level.  
Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate.  
No timber.

- 
- North 0°03'E. bet. secs.1 and 2.  
Over level land.
- 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 S 1 in E. and  $\frac{1}{4}$  S 2 in W.half; dig pits 18x18x12 ins. N.and 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.
- 87.65 Intersect N.bdy.of Tp., 4.12 chs. N.89°41'E.of cor.of secs.35 and 36, a stone marked and witnessed as described by the Surveyor General.  
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor.of secs.1 and 2, marked on brass cap,  
C C S of center,  
T 18 S R 25 E, S 35, S 36 in N.half,  
S 1 in SE., and  
S 2 in SW. quadrant; dig pits 24x18x12 ins.cross-wise of each line,E.and W. 3 ft., and S.of cor. 7 ft. dist., and raise a mound of earth 4 ft.base, 2 ft. high,S.of cor.
- Land,level.  
Soil, sandy loam,over 2 ft. deep; dry,medium texture;1st rate.  
No timber.

August 3, 1911.

*Alfred N. Bliss*  
U. S. Transitman.

GENERAL DESCRIPTION

While in the field, I was given to understand by the Mining Company that the group of claims in secs. 16, 17, 20 and 21 formed one contiguous area of patented ground. At that time I had no knowledge of Mineral Survey No. 2636 and several others that have apparently been patented since.

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This township is rough and mountainous in the western portion and rolling and level in the east where the soil is a sandy loam generally covered with a growth of mesquite brush and cactus. The Turquoise Mining District lies along the foot hills of the Dragoon Mountains in the southwestern portion of the township and the camp of Gleeson and Courtland are largely depopulated.

*Alfred N. Shinn*

U. S. Transitman.



Retracement of the North Boundary of Tp. 19 S., Rg. 25 E.

Chains August 4: I begin at the cor of Ts. 18 & 19 S., Rgs. 25 and 26 E., which I find marked and witnessed as described by the Surveyor General  
 Thence I run West bet. secs. 1 and 36. Over level land.  
 3.03 Arizona and Eastern R. R., bears N. 5° 10' W. and S. 5° 10' E.  
 40.09 Fall 15 lks. N. of the ¼ sec. cor. bet. secs. 1 and 36, a stone, marked and witnessed as described by the Surveyor General. The course of this ½ mile is S. 89° 47' W. 40.09 chs.  
 Thence I run West from ¼ sec. cor.  
 38.80 Cross road, bears N.E. and S.W.  
 40.03 Fall 22 lks. N. of cor. of secs. 1, 2, 35 and 36, a stone, marked and witnessed as described by the Surveyor General. The course of this ½ mile is S. 89° 41' W.  
 Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture 1st rate.  
 No timber. No undergrowth.  
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 West bet. secs. 2 and 35. Over level land  
 40.00 Fall 16 lks. N. of the ¼ sec. cor. bet. secs. 2 and 35, a stone, marked and witnessed as described by the Surveyor General. The course of this ½ mile is S. 89° 46' W. 40 chs.  
 Thence I run West from ¼ sec. cor.  
 40.02 Fall 19 lks. N. of cor. of secs. 2, 3, 34 and 35, a stone, marked and witnessed as described by the Surveyor General. The course of this ½ mile is S. 89° 44' W. 40.02 chs.  
 Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.  
 No timber. No undergrowth.  
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 West bet. secs. 3 and 34. Over level land.  
 40.04 Fall 16 lks. N. of the ¼ sec. cor. bet. secs. 3 and 34, a stone, marked and witnessed as described by the Surveyor General. The course of this ½ mile is S. 89° 46' W. 40.04 chs.  
 Thence I run West from ¼ sec. cor.  
 21.11 Cross road, bears N. and S.  
 40.04 Fall 15 lks. N. of cor. of secs. 3, 4, 33 and 34, a stone, marked and witnessed as described by the Surveyor General. The course of this ½ mile is S. 89° 47' W. 40.04 chs.  
 Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.  
 No timber. No undergrowth.  
 August 4: At this cor. I set off 17° 24½' N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 31° 49' N.  
 -----  
 West bet. secs. 4 and 33. Over level land, through scattering brush.  
 40.0 4 Fall 22 lks. N. of the ¼ sec. cor. bet. secs. 4 and 33, a stone, marked and witnessed as described by the Surveyor General. The course of this ½ mile is S. 89° 41' W. 40.04 chs.  
 Thence I run West from ¼ sec. cor.  
 23.59 Cross road, bears N. E. and S. W.

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40.02 Fall 21 lks.N.of cor.of secs.4,5,32 and 33, a stone marked and witnessed as described by the Surveyor General. The course of this half mile is S.89°42'W., 40.02 chs. Land, level. Soil, sandy loam over 2 ft. deep, dry, medium texture; 1st rate. No timber. Undergrowth; mesquite and cacti.

West, bet. secs.5 and 32. Over level land, through dense brush. 13.00 Cross road, bears N.and S. 39.99 Fall 21 lks.N.of the  $\frac{1}{4}$  sec.cor., bet.secs.5 and 32, a stone marked and witnessed as described by the Surveyor General.

The course of this half mile is S.89°42'W., 39.99 chs. Thence I run, West, from  $\frac{1}{4}$  sec.cor.

39.93 Fall 27 lks.N.of the cor. of secs.5,6,31 and 32, a stone marked and witnessed as described by the Surveyor General.

The course of this  $\frac{1}{2}$  mile is S.89°37'W, 39.93 chs. Land, level. Soil, sandy loam over 2 ft. deep; dry, medium texture; 1st rate. No timber. Undergrowth, mesquite and cacti.

West, bet. secs.6 and 31. Over rolling land, through dense brush. 40.00 Fall 18 lks.N.of the  $\frac{1}{4}$  sec.cor., bet. secs.6 and 31, a stone marked and witnessed as described by the Surveyor General. The course of this half mile is S.89°45' W., 40.00 chs.

Thence I run, West, from  $\frac{1}{4}$  sec.cor. 24.25 Cross wash, 70 lks.wide, course NE. 36.03 Fall 30 lks.N.of the cor.of Ts.18 and 19 S.,Rs.24 and 25 E., a stone marked and witnessed as described by the Surveyor General.

The course of this half mile is S.89°31'W. Land, rolling. Soil, sandy loam over 2 ft. deep; dry, medium texture; 1st rate. No timber. Undergrowth, mesquite and cacti.

August 4, 1911.

*Alfred N. Olcott*  
U. S. Transitman.

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Chains.

- August 8: I commence at the corner of secs. 1, 6, 7 and 12, on the east bdy. of the township, previously described.
- Thence I run,  
N.2°05'W., bet. secs. 1 and 6.  
Over level land.
- 6.71 Cross fence, bears NE. and SW.  
35.61 Cross Arizona and Eastern Ry. bears NW. and SSE.  
40.05 Fall 14 lks. E. of remains of old  $\frac{1}{4}$  sec. cor., which I destroy and reestablish in same place as follows:  
Set a granite stone 18x8x6 ins., 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and dig pits 18x18x12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
The course of this half mile is N.2°17'W., 40.05 chs.  
Thence from  $\frac{1}{4}$  sec. cor., I run,  
N.02°05'W.
- 8.18 Cross telegraph line, bears NW. and SSE.  
11.40 Cross fence, bears E. and W.  
12.18 Cross wash, 12 lks. wide, course E.  
12.16 Cross fence bears E. and W.  
25.58 Cross fence bears NE. and SW.  
47.51 Fall 63 lks. E. of the cor. of Tps. 18 and 19 S., Rs. 25 and 26 E., marked and witnessed as described by the Surveyor General.  
The course of this half mile is N.2°51' W.  
Land, level.  
Soil, sandy loam, medium texture, dry; 1st rate.  
No timber.

August 8, 1911.

*John P. Hesse*  
U. S. Transitman.

*Transitman*

FINAL OATHS OF ~~DEPUTY~~ SURVEYOR AND HIS ASSISTANTS.

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BOOK 2326

LIST OF NAMES.

A list of the names of the individuals employed by John F. Hesse

Transitman

, 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

subdivision lines of Tp. 19 S. Rg. 25 E. and resurvey of the north boundary of Tp. 19 S. Rg. 25 E.

showing the respective capacities in which they acted:

J. H. Bates, C. Y. Brown, L. F. Bates, Chainman.

R. A. Coombs, A. E. Lyon, Chainman.

R. L. Bates, Moundman.

H. R. Harvey, Moundman.

E. E. Mills, Axman.

E. Barnes, Axman.

Ralph Brown, P. B. Hilderbran, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John F. Hesse and Alfred N. Oliver

Transitmen

, United States ~~Deputy~~ Surveyor, in surveying all

those parts or portions of the subdivision lines of Tp. 19 S. Rg. 25 E. and the resurvey of the north boundary of Tp. 19 S. Rg. 25 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.

J. H. Bates C. Y. Brown A. E. Lyon, Chainman.

L. F. Bates R. A. Coombs, Chainman.

R. L. Bates, Moundman.

H. R. Harvey, Moundman.

E. E. Mills, Axman.

E. Barnes, Axman.

Ralph Brown P. B. Hilderbran, Flagman.

Subscribed and sworn to before me this 4th.

day of August, 1911

John F. Hesse

U. S. Transitman




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FINAL OATH OF UNITED STATES ~~DEPUTY~~ SURVEYOR.

I, We, John P. Nesse and Alfred N. Oliver, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank Ingalls United States Surveyor General for Arizona, bearing date of the 25th day of August, 1910, 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 subdivision lines of P195, P195 E. and resurvey of the N. E. of P195 R25 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.

John P. Nesse  
Alfred N. Oliver  
United States ~~Deputy Surveyor~~  
Transitman

Subscribed by said John P. Nesse, and sworn to before me }  
this 18th day of July, 1912  
and by said Alfred N. Oliver Aug 2, 1912 }  
 Frank Ingalls  
SURVEYOR-GENERAL OF ARIZONA

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Francis A. Coy Aug 3, 1912

The foregoing field notes of the survey of the Subdivisional lines of P195 R25 E. Resurvey of the North and Retracement of portion of the East Boundary of P195 R25 E.

executed by John P. Nesse and Alfred N. Oliver  
under his contract No. 1, dated Aug 25, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.  
Frank 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.