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SEP. 12. 1910

Book B.

BOOK 2238

Accepted S. L. O. letter  
E - July 29, 1912

# FIELD NOTES

OF THE SURVEY OF THE

Subdivisional Lines of Townships  
South, Range 3 East.

2238

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Of the Gila Salt River Base Meridian,  
Territory of Arizona

AS SURVEYED BY

William W. Shawk, United States Deputy Surveyor,

Under his Contract No. 164, dated June 10, 1910

Survey commenced August 19th, 1910

Survey completed August 29th, 1910

6-151

2238

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NAMES AND DUTIES OF ASSISTANTS.

J. M. Heath,	Chairman
E. C. Halbeinsen,	chairman
W. H. Easternwood,	roundman
H. N. Blair,	man
Delos J. Dean,	Hayman

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1B

BOOK 2238

# INDEX DIAGRAM.

Township 1 South, Range 3 East.

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*Handwritten annotations in the diagram:*

- Row 2, Column 6: 5
- Row 3, Column 5: 5
- Row 3, Column 6: 4
- Row 4, Column 5: 7
- Row 4, Column 6: 4
- Row 5, Column 2: 14
- Row 5, Column 3: 11
- Row 5, Column 4: 9
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PRELIMINARY OATHS OF ASSISTANTS.

WE, J. M. Heath and E. C. Halbeisen

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

Subdivisional Lines of Township 1 South, Range 3 East

J. M. Heath, Chainman.

E. C. Halbeisen, Chainman.

Subscribed and sworn to before me this 16 day of August, 1910

R. H. Rickey  
Notary Public



My Com. expires Dec. 7-1911

WE, W. H. Easternwood and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

Subdivisional Lines of Township 1 South, Range 3 East

W. H. Easternwood, Moundman.

....., Moundman.

Subscribed and sworn to before me this 16 day of August, 1910

R. H. Rickey  
Notary Public



My Com. expires Dec. 7-1911

WE, H. N. Blair and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Subdivisional Lines of Township 1 South Range 3 East

H. N. Blair, Axman.

....., Axman.

Subscribed and sworn to before me this 16 day of August, 1910

R. H. Rickey  
Notary Public



My Com. expires Dec. 7-1911

I, Delos J. Dean, 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

Subdivisional Lines of Township 1 South, Range 3 East

Delos J. Dean, Flagman.

Subscribed and sworn to before me this 16 day of August, 1910

R. H. Rickey  
Notary Public



My Com. expires Dec. 7-1911

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10Subdivision of T<sub>1</sub> S., R<sub>3</sub> E.

chains.

Survey commenced August 19, 1910, and executed with a Young and Sons light mountain transit No. 7532, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the latitude and declination arcs.

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

I examine the adjustments of the transit, and find them correct; then to test the solar apparatus, by comparing indications resulting from solar observations made during a.m. and p.m. hours with a meridian established by observation on polaris, I proceed as follows:

At the cor. of secs. 1, 2, 35 and 36, T<sub>1</sub> S., R<sub>3</sub> E., lat.  $33^{\circ}17'20''$  N.; longitude  $112^{\circ}00'46''$  W., I set off  $33^{\circ}17\frac{1}{2}'$  N. on the lat. arc;  $12^{\circ}50\frac{1}{2}'$  N. on the decl. arc and at 5h 00m. p.m., l.m.t., determine a meridian with the solar and mark a point thereof by a cross on a stone firmly set in the ground, 5chs. N. of my station.

At 9h 42m p.m., l.m.t., I observe polaris at eastern elongation, in accordance with the manual of surveying instructions, and mark a point in the line thus determined on a peg driven in the ground 5 chs, N. of my station.

August 19, 1910.

August 20; At 6 a.m., l.m.t., I lay off the azimuth of polaris,  $1^{\circ}24'$  to the west, and mark the meridian thus determined by a small groove on the stone set August 19, on which the meridian coincides with mark determined by the solar

At 6h 30m a.m., l.m.t., I set off  $33^{\circ}17\frac{1}{2}'$  N. on the lat. arc;  $12^{\circ}40\frac{1}{2}'$  N. on the decl. arc and mark a point in the meridian determined by the solar by a small cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by polaris observations.

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

The magnetic bearing of the true meridian at 7h 00m., is  $N 13^{\circ}45'$  W.; the angle thus determined gives the mag. decl. as  $13^{\circ}45'$  E.

From the cor. of secs. 1, 2, 35 and 36, previously set by me, I run

N  $0^{\circ}01'$  W. bet. secs. 35 and 36.

Slowly Ascending thru dense underbrush.

40.00

Diligent search fails to find any sign of old  $\frac{1}{4}$  sec. cor. I set an ironwood post, 3ft. long, 4ins. sq., with marked stone, 24ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 35 on W., and 36 on E. face; from which

A palo verde 8ins. diam., bears  $N 65\frac{1}{2}'$  E. 125 lks. dist., marked  $\frac{1}{4}$  S 36 BT

An ironwood, 8ins. diam., bears  $N 12^{\circ}54'$  W. 247 lks. dist., marked  $\frac{1}{4}$  S 35 BT.

47.40

Wash, 15 lks. wide, course SE.

50.20

Road, bears NE. and SW.

59.80

Wash, 10 lks. wide, course SE.

74.45

Wash, 15 lks. wide, course E.

80.00

Diligent search fails to reveal any sign of old sec. cor. I set a granite stone, 20X10X6ins., 15ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges; from which

Subdivision of Tp. 1 S., Rg. 3 East.

chains.

A palo verde 6ins.diam., bears S 13° E. 256 lks. dist.,  
 marked T 1 S R 3 E S 36 BT  
 and build a mound of stone, 2½ ft. base, 1½ ft. high, W. of  
 cor. pits impracticable.  
 Land, slightly rolling.  
 Soil, sandy 2nd rate.  
 Timber, palo verde and ironwood.  
 Underbrush, greasewood.

Thence I run  
 East on random line bet. sess. 25 and 36.

40.00  
79.70

Set emp. ¼ sec. cor.  
 Intersect the Tp. bdy. 5 lks. N. of the cor. of secs. 25, 30,  
 31 & 36, which is post with marks nearly obliterated.  
 I destroy old cor. and in the same place set a palo verde  
 post, 3ft. long, 4ins. sq., with marked stone, 24ins. in the  
 ground, for cor. of secs. 25, 30, 31 & 36, marked

T 1 S S 30 on NE.,  
 R 4 E S 31 on SE.,  
 R 3 E S 36 on SW., and

S 25 on NW. face; with 1 notch on S. and 5 notches on  
 N. edge; dig pits, 18X18X12ins., in each sec. 5½ ft. dist.,  
 and raise a mound of earth, 4ft. base, 2ft. high, W. of cor.

Thence I run  
 N 89° 58' W. on true line bet. secs. 25 & 36  
 Slowly ascending thru dense underbrush.

1.50  
2.55  
4.00  
8.30  
13.90  
27.45  
27.70  
38.00  
39.85

Road, bears N. and S.  
 Wash, 10 lks. wide, course S.  
 Road, bears NE. and SW.  
 Wash, 10 lks. wide, course SW.  
 Wash, 10 lks. wide, course SW.  
 Wash, 10 lks. wide, course SW.  
 Road, bears NE. and SW.  
 Wash, 10 lks. wide, course S.  
 Set a granite stone, 18X18X10ins., 10ins. in the ground,  
 for ¼ sec. cor., marked ¼ on N. face; from which  
 An ironwood, 4ins. diam., bears S 20½° E. 355 lks. dist.,  
 marked ¼ S 36 BT.  
 A mesquite 4 ins. diam., bears N 81° 10' W. 250 lks. dist  
 marked ¼ S 25 BT.  
 No trace of old ¼ sec. cor.

41.70  
47.95  
49.20  
64.15  
79.70

Wash, 10 lks. wide, course S.  
 Wash, 10 lks. wide, course S.  
 Road, bears NE. and SW.  
 Wash, 10 lks. wide, course S.  
 The cor. of secs, 25, 26, 35 & 36.  
 Land, rolling.  
 Soil, gravelly; 2nd rate.  
 Timber, ironwood, mesquite and paloverde.  
 Underbrush, greasewood.  
 At this cor. I set off 12° 34' N. on the decl. arc and  
 observe the sun on the meridian at noon; the resulting  
 lat. is 33° 18' N.

Thence I run  
 N 0° 01' W. bet. secs. 25 and 26.  
 Ascending over loose rocks thru dense underbrush.

1.70  
2.30  
6.70  
18.75  
23.75  
26.85  
31.70  
37.00  
40.00

Road, bears E. and W.  
 Asc. steep rocky SE. slope.  
 Along steep rocky E. slope.  
 Wash, 15 lks. wide, course SE. Asc. very steep rocky slope.  
 Top of ridge, bears E. and W. Desc. steep precipitous rocky  
 slope.  
 Wash, 30 lks. wide, course SE. Asc. steep precipitous  
 rocky slope.  
 Top of ridge, bears E. and W. Desc. steep rocky slope.  
 Drain, course NE, Asc. steep rocky slope.  
 Set a granite stone, 28X14X10ins., 2ins. in the ground,

## Subdivision of Tp. 1 S., R 3 East.

chains

for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; from which  
 A palo verde 5 ins. diam., bears S  $47\frac{1}{2}^{\circ}$  E 107 lks. dist.,  
 marked  $\frac{1}{4}$  S 25 BT  
 An ironwood, 4 ins. diam., bears S  $64\frac{1}{2}^{\circ}$  W. 55 lks. dist.,  
 marked  $\frac{1}{4}$  S 26 BT  
 No trace of old cor.

42.50 Top of ridge, bears E. and W. Desc. steep rocky slope.  
 48.00 Across flat, extends East.  
 50.25 Road, bears E. and W.  
 52.50 Wash, 10 lks. wide, course E.  
 59.75 Wash, 10 lks. wide, course E. Asc. steep rocky slope.  
 63.75 Top of Ridge, bears E. and W. Desc. steep rocky slope.  
 66.00 Along toe of E. slope.  
 67.80 Wash, 20 lks. wide, course E.  
 70.65 Wash, 15 lks. wide, course E.  
 80.00 Set a granite stone, 18X8X8 ins., 12 ins. in the ground, for  
 cor. of secs. 23, 24, 25 & 26, marked with 2 notches on S.,  
 and 1 notch on E. edge; from which.  
 A palo verde 6 ins. diam., bears N  $84^{\circ}$  E. 308 lks. dist.,  
 marked T 1 S R 3 E S 24 BT  
 An ironwood, 6 ins. diam., bears S  $85^{\circ}$  E. 320 lks. dist.,  
 marked T 1 S R 3 E S 25 BT  
 A palo verde 6 ins. diam., bears S  $66^{\circ}$  W 43 lks. dist.,  
 marked T 1 S R 3 E S 26 BT  
 A palo verde 4 ins. diam., bears N  $27^{\circ}$  W 239 lks. dist.,  
 marked T 1 S R 3 E S 23 BT  
 Land, mountainous.  
 Soil, rocky; 3rd rate.  
 Timber, ironwood and paloverde.  
 Underbrush, greasewood and cacti.  
 August 20, 1910.

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August 21; At 6h 30m., a.m., l.m.t., I set off  $33^{\circ}19'N.$   
 on the lat. arc;  $12^{\circ}20\frac{1}{2}'N.$  on the decl. arc and determine  
 a meridian with the solar at the cor. of secs. 23, 24, 25 & 26.  
 Thence I run  
 S  $89^{\circ}58'E.$  on random line bet. ses. 24 and 25.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.90 Intersect the Tp. Bdy. 9 lks. S. of the cor. of secs.  
 19, 24, 25 and 30, which is post with marks nearly obliterated.  
 I destroy old cor. and in the same place set a  
 ironwood post, 3ft. long, 4 ins. sq., with marked stone, 24 ins.  
 in the ground, for cor. of secs. 19, 24, 25 and 30, marked  
 T I S S 19 on NE.,  
 R 4 E S 30 on SE.,  
 R 3 E S 25 on SW., and  
 S 24 on NW. face, with 2 notches on S., and 4 notches  
 on N. edge; from which  
 An ironwood, 12 ins. diam., bears N  $64^{\circ}$  W. 178 lks. dist.,  
 marked T 1 S R 3 E S 24 BT  
 dig pits, 18X18X12 ins., in each sec.,  $6\frac{1}{2}$  ft. dist., and raise  
 a mound of earth, 4ft. base, 2ft. high, W. of cor.  
 Thence I run  
 S  $89^{\circ}58'W.$  on true line bet. secs. 24 and 25  
 Ascending thru dense underbrush.

11.10 Wash, 20 lks. wide, course SE.  
 15.90 Wash, 15 lks. wide, course SE.  
 23.90 Wash, 15 lks. wide, course SE.  
 26.00 Wash, 10 lks. wide, course SE.  
 30.90 Wash, 10 lks. wide, course SE.  
 33.90 Wash, 10 lks. wide, course SE.  
 39.60 Wash, 10 lks. wide, course SE.  
 39.95 Set a palo verde post, 3ft. long, 4 ins. sq., with marked  
 stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 24  
 on N., and 25 on S. face; dig pits, 18X18X12 ins., E. and W.  
 of post, 3ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  
 $1\frac{1}{2}$  ft. high, N. of cor.

Subdivision of Tp. 1 S., Rg. 3 East.

chains	
50.75	Wash, 10 lks. wide, course S.
52.15	Wash, 15 lks. wide, course S.
58.30	Wash, 10 lks. wide, course SE.
64.15	Wash, 10 lks. wide, course S.
66.80	Wash, 15 lks. wide, course S.
79.90	The cor. of secs. 23, 24, 25 and 26. Land, rolling. Soil, gravelly; 2nd rate. Timber, palo verde and ironwood. Underbrush, greasewood and cacti.
<hr/>	
	Thence I run N 0°01' W. bet. secs. 23 and 24. Ascend over loose rocks thru dense underbrush.
5.00	Asc. steep rocky slope.
8.50	Top of ridge, bears E. and W. Desc. steep rocky slope.
15.00	Wash, 20 lks. wide, course E. Asc. steep precipitous slope.
36.00	Top of ridge, bears NE. and SW. Desc. steep precipitous rocky slope.
40.00	Set a granite stone, 18x8x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A palo verde 4 ins. diam., bears S 85 $\frac{1}{2}$ ° E. 216 lks. dist., marked $\frac{1}{4}$ S 24 BT A palo verde 4 ins. diam., bears S 38 $\frac{1}{2}$ ° W. 136 lks. dist., marked $\frac{1}{4}$ S 23 BT.
45.00	Over rolling and broken land.
50.00	Wash, 25 lks. wide, course E.
60.50	Wash, 125 lks. wide, course SE.
80.00	An ironwood tree 8 ins. diam., for cor. of secs. 13, 14, 23 and 24, I mark T 1 S S 13 on NE., R 3 E S 24 on SE., S 23 on SW., and S 14 on NW. side, with 3 notches on S., and 1 notch on E. side; from which A palo verde 4 ins. diam., brs. N 35 $\frac{1}{2}$ ° E. 547 lks. dist., marked T 1 S R 3 E S 13 BT An ironwood, 10 ins. diam., brs. S 7 $\frac{1}{2}$ ° E. 276 lks. dist., marked T 1 S R 3 E S 24 BT A palo verde 5 ins. diam., brs. S 71 $\frac{1}{2}$ ° W. 306 lks. dist., marked T 1 S R 3 E S 23 BT An ironwood, 4 ins. diam., brs. N 9°45' W. 167 lks. dist., marked T 1 S R 3 E S 14 BT Land, rolling and mountainous. Soil, gravelly and rocky; 2nd and 3rd rate. Timber, palo verde and ironwood. Underbrush, greasewood and cacti. At this cor. I set off 12°14' N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 33°20' N.
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	Thence I run N 89°58' E. on random line bet. secs. 13 and 24.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.14	Intersect the Tp. Bdy. 3 lks. S. of the cor. of secs. 13, 18, 19 and 24, previously described by me. Thence I run S 89°57' W. on true line bet. secs. 13 and 24. Ascending thru dense underbrush.
24.15	Wash, 10 lks. wide, course SE.
38.07	Set a malpais stone, 15x8x8 ins., 10 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked WC $\frac{1}{4}$ on N. face; from which An ironwood, 4 ins. diam., bears N 70°45' E. 90 lks. dist., marked WC $\frac{1}{4}$ S 13 BT. A palo verde 5 ins. diam., bears S 69° W. 285 lks. dist., marked WC $\frac{1}{4}$ S 24 BT.



## Subdivision of Tp. 1 S., R. 3 East.

chains.

40.07 Point for  $\frac{1}{4}$  sec. cor. falls in wash, 25 lks. wide, course ESE.  
 44.00 Wash, 10 lks. wide, course SE.  
 60.00 Road, bears NW. and SE  
 67.50 Wash, 10 lks. wide, course SE.  
 80.14 The cor. of secs. 13, 14, 23 & 24. 79.00. Wash 30 lks. wide co. SE.  
 Land, rolling.  
 Soil, gravelly; 3rd rate.  
 Timber, ironwood and paloverde.  
 Underbrush, greasewood and cacti.

Thence I run

N  $0^{\circ}01'$  W. bet. secs. 13 & 14.

und~~er~~ broken and rolling land thru dense timber and underbrush.

0.70 Wash, 30 lks. wide, course SE.  
 26.00 Wash, 100 lks. wide, course SE.  
 35.00 Wash, 75 lks. wide, course SE. Asc. steep preceptitious rough rocky S. slope of Salt River mountains.  
 40.00 Set a granite stone, 24X8X6 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; and raise a mound of stone, 2 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable  
 No trees available.

As this line now passes into the Salt River Mountains and the prolongation of it would not include any agricultural land I discontinue it at this point.

August 21, 1910.

August 22; At 9h. 00m. a.m., l.m.t., I set off  $11^{\circ}57'$  N. on the decl. arc;  $33^{\circ}21'$  N. on the lat. arc and determine a meridian with the solar at the cor. of secs. 7, 12, 13 and 18.

Thence I run

West bet. secs. 12 and 13.

Ascending over loose rocks thru dense underbrush.

24.00 Ascend steep preceptitious rocky slope.  
 28.50 Top of ridge, bears N. and S. Desc. steep preceptitious rough rocky slope  
 32.00 Wash, 50 lks. wide, course SE. Asc. steep preceptitious rough rocky slope.  
 40.00 Point for  $\frac{1}{4}$  sec. cor. falls on granite rock, 9'X4 $\frac{1}{2}$ 'X3' above ground. I mark a cross (X) at exact point for  $\frac{1}{4}$  sec. cor., and mark  $\frac{1}{4}$  on N. side of cross. and raise a mound of stone, 2 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor. Pits impracticable. No trees available.

As this line now passes into the Salt River Mountains and the prolongation of it would not include any agricultural land, I discontinue it at this point.

From the cor. of secs. 2, 3, 34 and 35 on S. bdy. previously described, I run,

N  $0^{\circ}01'$  W. bet. secs. 34 and 35.

Over level and thru dense underbrush.

11.80 Road, bears NE. and SW.  
 13.00 Ascend steep rough rocky SE slope.  
 17.40 Descend steep rough rocky NE slope.  
 21.00 Across flat.  
 22.50 Wash, 10 lks. wide, course E.  
 30.00 Ascend steep rough rocky slope.  
 38.00 Top of ridge, bears E. and W. Desc. steep rocky slope.  
 40.00 Set a granite 18X10X8 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; from which  
 A palo verde 5 ins. diam., bears N  $83^{\circ}45'$  E. 90 lks. dist., marked  $\frac{1}{4}$  S 35 BT  
 A palo verde 4 ins. diam., bears N  $0^{\circ}45'$  W. 155 lks. dist., marked  $\frac{1}{4}$  S 34 BT.  
 No trace of old  $\frac{1}{4}$  sec. cor.

Subdivision of Tp.1 S.,Rg. 3 East.

chains.

46.50 Wash, 20 lks. wide, course E.  
 53.00 Wash, 10 lks. wide, course E. Asc, steep rocky slope.  
 62.85 Top of ridge, bears E. and W. Desc. steep rocky slope.  
 66.00 Asc, steep SE slope.  
 69.00 Top of ridge, bears NE. and SW. Desc. steep rough slope.  
 77.25 Wash, 20 lks. wide, course NE.  
 80.00 Set a quartz stone, 20X10X8 ins., 15 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edge; from which  
 A palo verde 10 ins. diam., brs. N 47° 45' E. 167 lks. dist., marked T 1 S R 3 E S 26 BT.  
 A palo verde 4 ins. diam., bears S 48° E. 78 lks. dist., marked T 1 S R 3 E S 35 BT.  
 A palo verde 5 ins. diam., brs. S 54½° W. 95 lks. dist., marked T 1 S R 3 E S 34 BT.  
 A palo verde 5 ins. diam., bears N 51½° W. 117 lks. dist., marked T 1 S R 3 E S 27 BT.  
 Land, mountainous.  
 Soil, rocky; 3rd rate.  
 Timber, ironwood and paloverde.  
 Underbrush, greasewood and cacti.

August 22, 1910.

August 23; At 6h 30m. a.m., l.m.t., I set off 33 18' N. on the lat. arc; 11° 40' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 26, 27, 34 & 35.

Thence I run  
 East on random line bet. secs. 26 and 35

40.00 Set temp. ¼ sec. cor.  
 80.02 Intersect the N. and S. line 20 lks. S. of the cor. of secs. 25, 26, 35 and 36.

Thence I run  
 S 89° 51' W. on true line bet. secs. 26 and 35.

Over rough broken land thru dense timber and underbrush

3.30 Wash, 10 lks. wide, course S.  
 19.75 Wash, 15 lks. wide, course S.  
 31.30 Wash, 10 lks. wide, course SE.  
 35.70 Wash, 10 lks. wide, course SE.

40.01 Set a granite stone, 20X8X6 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which  
 A palo verde 5 ins. diam., brs. S 53½° W 176 lks. dist., marked ¼ S 35 BT.  
 An ironwood, 4 ins. diam., bears N 28½° E. 152 lks. dist., marked ¼ S 26 BT.

43.85 Wash, 15 lks. wide, course SE.  
 48.50 Wash, 10 lks. wide, course SE.  
 63.00 Wash, 10 lks. wide, course SE.  
 75.50 Wash, 15 lks. wide, course SE.  
 80.02 The cor. of secs. 26, 27, 34 and 35.

Land, broken and rough.  
 Soil, rocky; 3rd rate.  
 Timber, ironwood and paloverde.  
 Underbrush, greasewood and cacti.

Thence I run  
 N 0° 01' W. bet. secs. 26 and 27.

Descend steep rocky slope thru dense underbrush.

0.80 Wash, 20 lks. wide, course E. Over rolling land over loose rocks.  
 3.75 Wash, 10 lks. wide, course SE.  
 13.25 Road, bears NW. and SE.  
 28.00 Ascend steep rocky slope.  
 30.50 Top of ridge, bears E. and W Desc. steep rocky slope.

## Subdivision of Tp. 1 S., Rg. 3 East.

chains.	
34.50	Wash, 20 lks. wide, course SE. Over rolling and broken land.
39.75	Old road, bears NW. and SE.
40.00	Set a malpais stone, 20X8X6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which An ironwood, 4 ins. diam., bears S 53° E. 174 lks. dist., marked $\frac{1}{4}$ S 26 BT. An ironwood, 4 ins. diam., bears N 41° W. 60 lks. dist., marked $\frac{1}{4}$ S 27 BT.
48.90	Wash, 15 lks. wide, course SE.
52.00	Asc. steep rocky slope.
59.00	Top of ridge, bears NW. and SE. Along steep rocky NE. slope
66.00	Asc. steep rocky slope.
70.35	Top of ridge, brs. NE. & SW. Along steep rocky NW slope.
78.70	Desc. steep rocky slope.
80.00	Set a malpais stone, 20X6X6 ins., 15 ins. in the ground, for cor. of secs. 22, 23, 26 & 27, marked with 2 notches on S. and E. edges; from which A palo verde 4 ins. diam., bears N 27° E. 140 lks. dist., marked T 1 S R 3 E S 23 BT A palo verde 4 ins. diam., brs. S 17° 45' E. 62 lks. dist., marked T 1 S R 3 E S 26 BT A palo verde 4 ins. diam., bears S 88 $\frac{1}{4}$ ° W. 33 lks. dist., marked T 1 S R 3 E S 27 BT A palo verde 4 ins. diam., bears N 57 $\frac{1}{2}$ ° W 81 lks. dist., marked T 1 S R 3 E S 22 BT Land, rolling and mountainous. Soil, rocky; 3rd rate. Timber, palo verde and ironwood. Underbrush, greasewood and cacti. At this cor. I set off 11 34' N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 33 19' N.
	Thence I run N 89° 51' E. on random line bet. secs. 23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect the N. & S. line 5 lks. N. of the cor. of secs. 23, 24, 25 and 26. Thence I run S 89 53' W. on true line bet. secs. 23 and 26. Ascending over loose rocks thru dense underbrush.
22.00	Top of ridge, bears N. and S. Desc. steep rocky slope.
30.00	Drain, course S. Asc. steep rocky slope.
35.00	Top of ridge, bears N. and S. Desc. steep rocky slope.
39.40	Wash, 30 lks. wide, course SW.
40.03	Set a malpais stone, 36X12X7 ins., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A palo verde 4 ins. diam., brs. N 67 $\frac{1}{4}$ ° E. 42 lks. dist., marked $\frac{1}{4}$ S 23 BT A palo verde 5 ins. diam., bears S 68 $\frac{1}{2}$ ° E 67 lks. dist., marked $\frac{1}{4}$ S 26 BT
42.30	Wash, 10 lks. wide, course SE. Asc. steep rocky slope.
47.75	Top of ridge, brs. N. & S. Desc. steep rocky slope.
58.50	Wash, 70 lks. wide, course SE.
70.00	Bend in same wash, comes from NW. course NE. Asc. along steep rocky N. slope.
80.06	The cor. of secs. 22, 23, 26 & 27. Land, mountainous. Soil, rocky; 3rd rate. Timber, palo verde and ironwood. Underbrush, greasewood and cacti. August 23, 1910. August 24, at 4.30 a.m. l.m.t., I set off 33 19' N on the lat. arc; 11 20 1/2' N on the decl. arc. and determine a meridian with the solat at the cor. of secs. 22, 23, 26 & 27. Thence I run N 0° 01' W bet. secs. 22 and 23. Descend steep rocky slope thru dense underbrush.

## Subdivision of Tp. 1 S., Rg. 3 East.

chains.	
3.80	Wash, 15 lks. wide, course E. Asc. steep rocky SE. slope.
8.00	Desc. steep rocky NE. slope.
14.50	Wash, 20 lks. wide, course E. Over rough land.
21.25	Canyon, 3chs. wide, course SE. Asc. steep rocky slope.
33.00	Top of ridge, bears NE. and SW. Desc. steep rocky slope.
39.00	Over broken land.
40.00	Set a malpais stone, 20X10X8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A palo verde 5 ins. diam., bears S 27° E. 54 lks. dist., marked $\frac{1}{4}$ S 23 BT A palo verde 5 ins. diam., bears N 24° W. 66 lks. dist., marked $\frac{1}{4}$ S 22 BT
41.65	Old road, bears E. and W.
56.00	Wash, 15 lks. wide, course E.
62.00	Ascend along steep rocky E. slope.
70.00	Asc. steep rocky rough S. slope.
78.20	Top of ridge, bears E. and W. Desc. steep precipitous rocky slope.
78.60	Bluff, 40 ft. high, bears E. and W.
80.00	Point for cor. of secs. 14, 15, 22 & 23 falls on a malpais stone, 2 $\frac{1}{2}$ X1 $\frac{1}{2}$ X1 $\frac{1}{2}$ ft. above ground. I mark cross (X) at exact point for cor. of secs. 14, 15, 22 & 23, and mark 3 notches on S. and 2 notches on E. side of cross. from which A palo verde 5 ins. diam., brs. N 37° E 139 lks. dist., marked T 1 S R 3 E S 14 BT. A palo verde 4 ins. diam., bears S 74° 45' E. 124 lks. dist., marked T 1 S R 3 E S 23 BT A palo verde 6 ins. diam., brs. S 58 $\frac{1}{2}$ ° W. 30 lks. dist., marked T 1 S R 3 E S 22 BT A palo verde 4 ins. diam., brs. N 40° W. 71 lks. dist., marked T 1 S R 3 E S 15 BT. Land, broken and mountainous. Soil, rocky and gravelly; 2nd and 3rd rate. Timber, palo verde & ironwood. Underbrush, greasewood & cacti.
	Thence I run N 89° 53' E. on random line bet. secs. 14 and 23
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect the N. & S line, 3 lks. N. of cor. of secs., 13, 14, 23 & 24. Thence I run S 89° 54' W. on true line bet. secs. 14 & 23. Over broken and rolling land thru dense underbrush.
39.60	Wash, 25 lks. wide, course SE. Asc. steep slope.
40.04	Point for $\frac{1}{4}$ sec. cor. falls on granite rock 12X6X3 ft. above ground, I mark a cross (X) at exact point for $\frac{1}{4}$ sec. cor., and mark $\frac{1}{4}$ on N. side of cross. from which A palo verde 5 ins. diam., brs. N 89° E. 65 lks. dist., marked $\frac{1}{4}$ S 14 BT and raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
42.00	Top of ridge, bears N. and S. Desc. steep slope.
44.00	Over broken land covered with loose rocks.
59.75	Wash, 15 lks. wide, course SE.
67.00	Asc. steep slope over loose rocks.
70.50	Top of ridge, brs. N. and S. Desc. steep slope.
74.00	Wash, 10 lks. wide, course N. Asc. steep rocky rough slope.
80.08	The cor. of secs. 14, 15, 22 and 23, Land, broken and mountainous. Soil, rocky; 2nd & 3rd rate. Timber, palo verde and ironwood. Underbrush, greasewood & cacti. At this cor. I set off 11° 14' N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 33° 20' N.

## Subdivision of Tp.1 S., Rg. 3 East.

chains	
	From the cor. of sec. 3, 4, 33 and 34, on the S. bdy. previously described. I run N 0°02' W. bet. secs. 33 and 34.
	Ascend over rolling land thru dense underbrush.
16.25	Road, bears NE. and SW.
31.00	Wash, 30 lks. wide, course E. Asc. steep rocky slope.
37.50	Desc. along steep rocky W. slope.
40.00	Set a malpais stone, 20X10X8 ins., 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
	A palo verde 4 ins. diam., brs. S 45° E. 62 lks. dist., marked $\frac{1}{4}$ S 34 BT
	A palo verde 5 ins. diam., brs. N 81 $\frac{1}{2}$ ° W. 50 lks. dist., marked $\frac{1}{4}$ S 33 BT No trace of old $\frac{1}{4}$ cor.
42.00	Drain, course W. Asc. steep rocky slope.
44.75	Top of ridge, bears E. and W. Desc. steep rocky slope
48.70	Wash, 25 lks. wide, course SE. Over rolling land.
60.50	Wash, 60 lks. wide, course SE.
72.00	Road, bears E. and W.
74.00	Wash, 40 lks. wide, course SE. Asc. along rocky slope.
80.00	Set a malpais stone, 20X8X8 ins., 15 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edge; from which
	A palo verde 5 ins. diam., brs. N 37 $\frac{1}{2}$ ° E. 201 lks. dist., marked T 1 S R 3 E S 27 BT.
	A palo verde 4 ins. diam., brs. S 54° E. 27 lks. dist., marked T 1 S R 3 E S 34 BT
	A palo verde 4 ins. diam., brs. S 20° W. 96 lks. dist., marked T 1 S R 3 E S 33 BT
	A palo verde 5 ins. diam., brs. N 14 $\frac{1}{2}$ ° W. 222 lks. dist., marked T 1 S R 3 E S 28 BT
	Land, rolling and mountainous.
	Soil, rocky; 2nd & 3rd rate.
	Timber, palo verde & ironwood.
	Underbrush, greasewood & cacti.
	August 24, 1910.
	August 25; At 6h 30m a.m., l.m.t., I set off 11°00' N. on the decl. arc; 33°18' N. on the lat. arc and determine a meridian with the solar at the cor. of secs. 27, 28, 33 & 34
	Thence I run
	East on random line bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect the N. and S. line 10 lk. N. of the cor. of secs. 26, 27, 34 and 35.
	Thence I run
	N 89°56' W. on true line bet. secs. 27 and 34.
	Over broken and rolling land thru dense underbrush.
10.80	Wash, 70 lks. wide, course SE.
33.90	Road, bears NE. and SW.
39.98	Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
	A palo verde 6 ins. diam., brs. N 25 $\frac{1}{2}$ ° W. 295 lks. dist., marked $\frac{1}{4}$ S 27 BT.
	A palo verde 5 ins. diam., brs. S 36 $\frac{1}{2}$ ° E. 230 lks. dist., marked $\frac{1}{4}$ S 34 BT.
48.00	Wash, 20 lks. wide, course NE. Asc. steep rocky slope.
55.00	Top of ridge, bears N. and S. Desc. steep slope.
63.50	Wash, 20 lks. wide, course S.
69.50	Wash, 15 lks. wide, course S.
76.00	Wash, 15 lks. wide, course S. Asc. steep slope.
79.96	The cor. of secs. 27, 28, 33 and 34.
	Land, mountainous and broken.
	Soil, gravelly and rocky; 2nd & 3rd rate.
	Timber, palo verde and ironwood.
	Underbrush, greasewood & cacti.
	Thence I run N 0°02' W. bet. secs. 27 and 28.
	Ascend steep rocky slope thru dense underbrush.

Subdivision of T<sub>1</sub> S. R<sub>3</sub> East.

chains.	
6.00	Top of ridge, bears E. and W. Desc. steep rough rocky slope.
15.00	Wash, 10 lks. wide, course E. Asc. steep precipitous rocky granite ridge, nearly impossible to chain up.
32.20	Top of very high granite ridge, bears E. and W. Desc. along steep precipitous rocky slope.
40.00	Set a granite stone, 18X8X8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A palo verde 4 ins. diam., brs. S 37° E. 16 lks. dist., marked $\frac{1}{4}$ S 27 BT. A palo verde 5 ins. diam., brs. S 45° W. 22 lks. dist., marked $\frac{1}{4}$ S 28 BT.
41.00	Ascend steep precipitous rocky slope.
49.80	Top of ridge, bears NW. and SE. Desc. steep rocky slope.
55.00	Wash, 20 lks. wide, course NW. Asc. steep rocky high ridge,
74.50	Top of high ridge, bears NE. and SW. Desc. steep rough rocky slope.
78.00	Drain, course W. Asc. steep rocky slope.
80.00	Set a malpais stone, 18X6X6 ins., 12 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edges; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. pits impracticable. Land, mountainous. Soil, rocky and stony, 4th rate. Timber, palo verde. Underbrush, greasewood and cacti. At this cor. I set off 10° 53' N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 33° 19' N.
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	Thence I run S 89° 56' E. on random line bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect the N. & S. line 25 lks. S. of the cor. of secs. 22, 23, 26 and 27. Thence I run S 89° 53' W. on true line bet. secs. 22 and 27. Descend over loose rocks thru dense underbrush.
16.00	Wash, 15 lks. wide, course NE. Asc. steep slope.
21.00	Top of ridge, bears NE. and SW. Desc. steep rocky slope.
28.00	Wash, 30 lks. wide, course NE.
33.00	Same wash, 30 lks. wide, course SE.
38.00	Same wash, 30 lks. wide, course NE. begin asc. of high ridge,
40.02	Set a malpais stone, 18X10X6 ins., 12 ins., in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A palo verde 5 ins. diam., brs. S 20° E. 54 lks. dist., marked $\frac{1}{4}$ S 27 BT. A palo verde 6 ins. diam., brs. N 65° W. 114 lks. dist., marked $\frac{1}{4}$ S 22 BT.
48.00	Ascent becomes steep and rocky;
56.00	Along top of high ridge.
74.00	Desc. steep rocky slope.
80.04	The cor. of secs. 21, 22, 27 and 28. Land, mountainous. Soil, rocky; 2nd & 3rd rate. Timber, paloverde Underbrush, greasewood and cacti.
	August 25, 1910.
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	August 26; At 6h 30m. a.m., l.m.t., I set off 33° 17' N. on the lat. arc; 10° 39' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33. on the S. bdy. previously described. Thence I run N 0° 02' W. bet. secs. 32 and 33. Ascending along top of ridge, over loose rocks thru dense underbrush.
12.00	Top of ridge, bears NW. and SE. Desc. steep E. slope.

Subdivision of Twp. 1 S., Rg. 3 East.

chains.	
24.00	Wash, 15 lks. wide, course SE. Along steep W. slope.
34.00	Wash, 10 lks. wide, course E. Asc. over loose rocks.
40.00	Set a quartzite stone, 20x12x10 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which An ironwood 5 ins. diam., brs. S $18\frac{1}{2}^{\circ}$ E. 122 lks. dist., marked $\frac{1}{4}$ S 33 BT. A palo verde 5 ins. diam., brs. S $24^{\circ}$ W. 233 lks. dist., marked $\frac{1}{4}$ S 32 BT.
43.50	Wash, 10 lks. wide, course E. Asc. steep slope.
46.00	Top of ridge, bears E. and W. Desc. steep slope.
48.15	Wash, 20 lks. wide, course SE. Asc. steep SE. slope.
57.50	Descend steep NE. slope.
65.50	Wash, 30 lks. wide, course SE. Asc. steep rocky rough slope.
80.00	Set a malpais stone, 18x10x10 ins., 12 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edge; from which A palo verde 5 ins. diam., brs. N $39^{\circ}$ E. 130 lks. dist., marked T 1 S R 3 E S 28 BT. A palo verde 6 ins. diam., brs. S $58\frac{1}{2}^{\circ}$ E. 192 lks. dist., marked T 1 S R 3 E S 33 BT. A palo verde 4 ins. diam., brs. S $41\frac{1}{2}^{\circ}$ W. 192 lks. dist., marked T 1 S R 3 E S 32 BT. A palo verde 5 ins. diam., brs. N $81^{\circ}$ W. 171 lks. dist., marked T 1 S R 3 E S 29 BT. Land, mountainous. Soil, rocky; 3rd rate. Timber, ironwood and palo verde. Underbrush, greasewood and cacti. ✓ At this cor. I set off $10^{\circ}32\frac{1}{2}'$ N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is $33^{\circ}18'$ N. ✓
	Thence I run East on random line bet. secs. 28 and 33
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect the N. & S. line 2 lks. S. of the cor. of secs. 27, 28, 33 & 34. Thence I run S $89^{\circ}59'$ W. on true line bet. secs. 28 and 33. Over rolling and broken land thru dense underbrush.
7.70	Wash, 15 lks. wide, course S.
17.00	Wash, 20 lks. wide, course S.
40.02	Set a malpais 18x12x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A palo verde 5 ins. diam., brs. N $55^{\circ}$ E. 48 lks. dist., marked $\frac{1}{4}$ S 28 BT. A palo verde 5 ins. diam., brs. S $45^{\circ}$ W. 129 lks. dist., marked $\frac{1}{4}$ S 33 BT.
50.00	Wash, 15 lks. wide, course S.
60.00	Asc. steep rocky slope.
78.00	Top of ridge, bears NW. and SE. Desc. steep rocky slope.
80.04	The cor. of secs. 28, 29, 32 and 33. Land, rolling and mountainous. Soil, rocky 2nd & 3rd rate. Timber, ironwood and palo verde. Underbrush, greasewood and cacti. August 26, 1910.
	August 27; At 6h 30m. a.m., l.m.t., I set off $33^{\circ}18'$ N. on the lat. arc; $10^{\circ}18\frac{1}{2}'$ W. on the decl. arc and determined a meridian with the solar at the cor. of secs. 28, 29, 32 and 33. Thence I run N $0^{\circ}02'$ W. bet. secs. 28 and 29. Ascend steep rocky slope thru dense underbrush.
2.75	Top of ridge, bears NE. and SW. Desc. steep rocky precipitous slope.

## Subdivision of Tp.1 S., Rg.3 East.

chains.	
19.00	Wash, 20 lks. wide, course E. Asc. steep rocky slope.
24.00	Top of ridge, extends West. Desc. steep rocky slope.
27.50	Wash, 10 lks. wide, course E. Asc. steep slope.
33.00	Top of ridge, bears NW. and SE. Desc. over loose rocks.
40.00	Set a malpais stone, 20X10X8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A palo verde 5 ins. diam., brs. S 24° E 134 lks. dist., marked $\frac{1}{4}$ S 28 BT. A palo verde 5 ins. diam., brs. S 58 $\frac{1}{2}$ ° W. 164 lks. dist., marked $\frac{1}{4}$ S 29 BT.
42.25	Wash, 25 lks. wide, course E. Asc. steep rocky slope.
57.30	Top of ridge, brs. E. and W. Desc. steep slope over loose rocks.
78.00	Wash, 30 lks. wide, course SE. Over broken land.
80.00	Set a malpais stone, 20X8X8 ins., 15 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches on E. edge; from which A palo verde 6 ins. diam., brs. N 57° E. 191 lks. dist., marked T 1 S R 3 E S 21 BT. An ironwood, 4 ins. diam., brs. S 50 $\frac{1}{2}$ ° E. 67 lks. dist., marked T 1 S R 3 E S 28 BT. A palo verde 5 ins. diam., brs. S 40° W. 109 lks. dist., marked T 1 S R 3 E S 29 BT. An ironwood, 4 ins. diam., brs. N 28° W. 97 lks. dist., marked T 1 S R 3 E S 20 BT. Land, mountainous. Soil, rocky, 3rd rate. Timber, p loverde and ironwood Underbrush, greasewood and cacti. At this cor. I set of 10 11 $\frac{1}{2}$ ' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33 19' N.
	Thence I run N 89° 59' E. on random line bet. secs. 21 and 28.
40.00	Set comp. $\frac{1}{4}$ sec. cor.
79.90	Intersect the N. and S. line 11 lks. S. of the cor. of secs. 21, 22, 27 and 28. Thence I run S 89° 54' W. on true line bet. secs. 21 and 28. Descend steep rocky slope thru dense underbrush.
3.70	Drain, course NW.
12.00	Wash, 15 lks. wide, course SE. Over broken and rolling land
35.00	Wash, 30 lks. wide, course SE.
39.95	I Set a quartzite stone, 18X10X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A palo verde 6 ins. diam., brs. S 45° E 118 lks. dist., marked $\frac{1}{4}$ S 28 BT. An ironwood, 8 ins. diam., brs. N 30° W 98 lks. dist., marked $\frac{1}{4}$ S 21 BT.
42.30	Wash, 15 lks. wide, course SE.
79.90	The cor. of secs. 20, 21, 28 and 29. Land, mountainous and rough. Soil, rocky 3rd rate. Timber, palo verde and ironwood. Underbrush, greasewood and cacti. August 27, 1910.
	August 28; At 6h 30m a.m., l.m.t., I set off 33° 17 $\frac{1}{2}$ ' N. on the lat. arc; 9° 57 $\frac{1}{2}$ ' N. on the decl. arc and determine a meridian wth the solar at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. as previously described. Thence I run N 0° 03' W. bet. secs. 31 and 32. Ascending over broken land thru dense timber and underbrush.
9.00	Wash, 20 lks. wide, course SE.



## Subdivision of Tp.1 S. Rg. 3 East.

Chains.	
15.00	Wash, 20 lks. wide, course SE.
40.00	Set a granite stone, 20X10X10 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A palo verde 5 ins. diam., brs. N 33° E 22 lks. dist., marked $\frac{1}{4}$ S 32 BT. A palo verde 6 ins. diam., brs. S 71° W. 49 lks. dist., marked $\frac{1}{4}$ S 31 BT.
62.00	Enter wash, 10 lks. wide, course SE.
70.00	Leave wash, comes from NE.
80.00	Set a malpais stone, 20X10X10 ins., 15 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edge; from which A palo verde 5 ins. diam., brs. N 37 $\frac{1}{2}$ ° E. 171 lks. dist., marked T 1 S R 3 E S 29 BT. An ironwood, 5 ins. diam., brs. S 47 $\frac{1}{2}$ ° E. 288 lks. dist., marked T 1 S R 3 E S 32 BT. An ironwood, 6 ins. diam., brs. S 24 $\frac{1}{2}$ ° W. 287 lks. dist., marked T 1 S R 3 E S 31 BT. A palo verde 6 ins. diam., brs. N 52° W. 357 lks. dist., marked T 1 S R 3 E S 30 BT. Land, broken. Soil, rocky; 2nd rate. Timber, palo verde and ironwood. Underbrush, greasewood and cacti.
	Thence I run East on random line bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect the N. & S line 24 lks. S. of the cor. of secs. 28, 29, 32 and 33. Thence I run S 89° 50' W. on true line bet. secs. 29 and 32. Ascending steep rocky slope thru dense underbrush. Top of ridge, bears NE. and SW. Desc. steep rocky slope.
7.00	Drain, course SW. Over broken land.
33.00	Set a malpais stone, 20X8X6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A palo verde 6 ins. diam., brs. S 68° W. 91 lks. dist., marked $\frac{1}{4}$ S 32 BT. A palo verde 8 ins. diam., brs. N 15° W. 131 lks. dist., marked $\frac{1}{4}$ S 29 BT.
40.03	Wash, 20 lks. wide, course SW. Asc. steep rocky slope.
47.00	Top of ridge, brs. N. and S. Desc. steep rocky slope.
54.00	Wash, 30 lks. wide, course S. Over broken land.
59.00	Wash, 10 lks. wide, course S.
70.00	The cor. of secs. 29, 30, 31 & 32. Land, broken and mountainous. Soil, rocky; 2nd and 3rd rate. Timber, palo verde and ironwood. Underbrush, greasewood and cacti.
80.06	At this cor. I set off 9° 50 $\frac{1}{2}$ ' N. on the decl. arc and observe the sun on the meridian at noon. the resulting lat. is 33° 18' N.
	Thence I run West on random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.07	Intersect the Tp. Bdy. 25 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is a post marked and witnessed as described by the Surveyor General. the marks are nearly obliterated so I destroy and in the same place set a granite stone, 20X8X6 ins., 15 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 5 notches on N., and 1 notch on S. edge; from which An ironwood, <sup>6 ins. diam.</sup> brs. N 16° E. 103 lks. dist., marked T 1 S R 3 E S 30 BT. An ironwood, 6 ins. diam., brs. S 12° E. 251 lks. dist., marked T 1 S R 3 E S 31 BT.
	An

Subdivision of Tp. 1 S. Rg. 3 East.

chains.

An ironwood, 6 ins. diam., brs. S 55° W. 228 lks. dist., marked T 1 S R 2 E S 36 BT.  
 Palo verde 5 ins. diam., brs. N 35° W. 67 lks. dist., marked T 1 S R 2 E S 25 BT.  
 Thence I run  
 N 89° 49' E. on true line bet. secs. 30 and 31.  
 Over broken land thru dense underbrush along S. bank of wash, 70 lks. wide, course W.  
 18.00 Top of ridge, bears N. and S. Desc. over loose rocks.  
 24.00 Wash, 30 lks. wide, course S. Over broken land.  
 38.07 Set a malpais stone, 20x10x8 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; from which  
 A palo verde 5 ins. diam., brs. N 5 1/2° E. 93 lks. dist., marked 1/4 S 30 BT.  
 A palo verde 4 ins. diam., brs. S 62° E. 36 lks. dist., marked 1/4 S 31 BT.  
 39.30 Wash, 15 lks. wide, course S.  
 43.00 Wash, 15 lks. wide, course S.  
 48.00 Wash, 60 lks. wide, course S. Asc. over loose rocks.  
 53.00 Top of ridge, brs. N and S. Desc. rocky slope.  
 63.00 Wash, 100 lks. wide, course S.  
 68.00 Wash, 200 lks. wide, course S. Over broken land.  
 78.07 The cor. of secs. 29, 30, 31 & 32.  
 Land, broken and mountainous.  
 Soil, rocky; 3rd rate.  
 Timber, paloverde and ironwood.  
 Underbrush, greasewood and cacti.  
 August 28, 1910.

August 29; At 6h 30m a.m., l.m.t., I set off 9° 36' N. on the decl. arc; 33° 18' N. on the lat. arc and determine a meridi n with the solar at the cor. of secs. 29, 30, 31 and 32.

Thence I run  
 N. 0° 03' W. bet. secs. 29 and 30.  
 Ascend over broken land thru dense underbrush.  
 9.00 Wash, 15 lks. wide, course SW.  
 18.00 Canyon, 200 lks. wide, course SW.  
 39.00 Wash, 20 lks. wide, course SW. Asc. steep rocky S. slope  
 40.00 Set a malpais stone, 20x8x6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; from which  
 A palo verde 5 ins. diam., brs. N 40° W. 85 lks. dist., marked 1/4 S 30 BT.  
 A palo verde 4 ins. dia., brs. N 65° E. 90 lks. dist., marked 1/4 S 29 BT.  
 47.00 Top of ridge, bears NW. and SE. Desc. steep rocky slope.  
 52.00 Wash, 40 lks. wide, course SE. Asc. steep precipitous rocky S. slope of Salt River mountains.  
 74.00 Drain, course SE.  
 80.00 Point for cor. of secs., 19, 20, 29 and 30 falls on a ledge of rock 6ft. high, running E. and W. Cut a cross (X) at exact point for cor. of secs. 19, 20, 29 and 30, with 2 notches on S. and 5 notches on E. side of cross, and build a mound of stone, 2ft. high, 1 1/2 ft. high, W. of cor. Pits impracticable. No trees available.  
 Land, mountainous and broken.  
 Soil, rocky; 3rd & 4th rate.  
 Timber, ironwood and palo verde.  
 Underbrush, greasewood and cacti.  
 At this cor. I set off 9° 29' N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 33° 19' N.

Thence I run  
 N 89° 50' E. on random line bet. secs. 20 and 29.  
 40.00 Set temp. 1/4 sec. cor.

Subdivision of Tp. 1 S., Rg. 3 East.

chains.

80.10

Intersect the N. and S. line, 14 lks. N. of the cor. of secs. 20, 21, 28 and 29.

Thence I run

S 89° 56' W. on true line bet. secs. 20 and 29.

Over broken land thru dense underbrush.

2.00

Wash, 30 lks. wide, course SE. Asc. steep rocky slope.

10.20

Top of ridge, bears N. and S. Desc. steep rocky slope.

14.50

Wash, 10 lks. wide, course SE. Asc. steep rocky slope

19.00

Top of ridge, bears N. and S. Desc. steep rocky slope.

24.00

Wash, 15 lks. wide, course SE. Asc. steep rocky slope

28.30

Top of ridge, brs. NW. and SE. Desc. steep rugged rocky slope

34.00

Drain, course SE. Asc. steep rocky slope.

40.05

Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft high N. of cor. Pits impracticable.

48.00

Top of ridge, bears NW. and SE. Desc. steep rocky slope.

59.70

Wash, 10 lks. wide, course S. Asc steep rocky slope.

65.20

Drain, course SE.

75.00

Top of ridge, bears NW. and SE. Desc. steep rocky slope.

80.10

The cor. of secs. 19, 20, 29 and 30.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, paloverde.

Underbrush, greasewood, cacti and ocotilla.

August 29, 1910.

This Tp. is mostly rough and mountainous with valleys in the southern part, which would be good orange land. There is no water in this Tp. There are no settlers in the Tp.

*William J. Shaw*  
*Surveyor*

*Red ink corrections on page 9 authorized, letter E - July 29, 1912*  
*P. B. O.*

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by William W. Shark

....., 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 Subdivisional Lines, of Township 1 South, Range 3 East

showing the respective capacities in which they acted:

- J. M. Heath....., Chainman.
- E. C. Halbeisen....., Chainman.
- ....., Moundman.
- W. H. Easternwood....., Moundman.
- H. N. Blair....., Axman.
- ....., Axman.
- Delos J. Dean,....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted William W. Shark

....., United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisional Lines of Township 1 South, Range 3 East

..... of the Gila Salt River, Base to 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 Territory of Arizona

- J. M. Heath......, Chainman.
- E. C. Halbeisen....., Chainman.
- ....., Moundman.
- W. H. Easternwood....., Moundman.
- H. N. Blair....., Axman.
- ....., Axman.
- Delos J. Dean....., Flagman.

Subscribed and sworn to before me this 30 day of August, 1910

R. J. Sickey  
Notary Public



My Com. expires Dec. 7-1911

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, William W. Shaw United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 10 day of June, 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 Subdivisional line of Township 1 South, Range 3 East.

of the Sila Salt River Base & meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

William W. Shaw  
United States Deputy Surveyor.

Subscribed by said William W. Shaw, and sworn to before me }  
this 10<sup>th</sup> day of September, 1910

Frank S. Ingalls  
U.S. Surveyor General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Having seen July 4, 1911  
The foregoing field notes of the survey of the fragmentary Subdivisional  
of Twp. 1 S. R. 3 E. Sila Salt River Meridian,  
Arizona.

executed by William W. Shaw  
under his contract No. 164, dated June 10, 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 S. Ingalls  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General.