

Number 100

Book "B"
4-679.

1

1825

1825.

FIELD NOTES

OF THE SURVEY OF THE

BOOK 1825

Subdivision lines of Township 30
North Range 4 E. & Resurvey of S. Bdy
T30 N R4 E.

1825

1825

Of the *Gila and Salt River* Meridian,
Territory of Arizona

AS SURVEYED BY

John P. Hesse, United States Deputy Surveyor,

Under ^{Spec. Instr.} his Contract No. _____, dated *June 14th* 1904, ~~189~~

Survey commenced *July 12, 1904*, ~~189~~

Survey completed *July 21, 1904*, ~~189~~

NAMES AND DUTIES OF ASSISTANTS.

Russel E. Stone Chairman

George W. Cassidy Chairman

Louis Roberts Axman

Harry A. Cargile Axman

Ken Raser Plagman

BOOK 1825

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Book No. 1825-

INDEX DIAGRAM.

Township 30 N., Range 4 E.

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PRELIMINARY OATHS OF ASSISTANTS.

BOOK 1825

WE, Russel E. Stone and George W Cassidy do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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 Subdivision lines of Twp. 30 N. Rg. 4 E.

Russel E Stone, Chainman.
George W Cassidy, Chainman.

Subscribed and sworn to before me this 10th day of July 1904, 189



John P. Hesse
U. S. Dep. Surveyor

WE, _____ 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 _____
_____, Moundman.
_____, Moundman.

Subscribed and sworn to before me this _____ day of _____, 189



WE, Louis Roberts and Harry A. Cargile 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 Subdivision lines of Twp. 30 N. Rg. 4 E.

Louis Roberts, Axman.
Harry A. Cargile, Axman.

Subscribed and sworn to before me this 10th day of July 1904, 189



John P. Hesse
U. S. Dep. Surveyor

I, Len Raser, 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 Subdivision lines of Twp. 30 N. Rg. 4 E.

Len Raser, Flagman.

Subscribed and sworn to before me this 10th day of July 1904, 189



John P. Hesse
U. S. Dep. Surveyor

July 12: At the cor. of Tps. 29 and 30 N. Rgs. 4 and 5 E. I set off $21^{\circ}58'N.$ on the decl. arc; and observe the sun on the meridian at noon the resulting lat. is $35^{\circ}47'N.$

Preliminary to commencing the subdivision of this township, I run $N. 89^{\circ}58'W.$ on a blank line, on the south boundary of sec. 36; at 40.45 the $\frac{1}{4}$ sec. cor. and at 80.65 the cor. of secs. 1, 2, 35 and 36; therefore I continue my line ~~to~~ ^{$N. 89^{\circ}58'W.$} and find that while the alinement is correct, the distance between corners is incorrect and that all of the cors. are lying loosely on top of ground and many nearly obliterated. At 5 miles intersect the N. and S. line at the cor. of Tps. 29 and 30 N. Rgs. 3 and 4 E.

I resurvey the township line as follows:

July 13; At 7^h00^m a.m. l.m.t. I set off $35^{\circ}57'N.$ on the lat. arc; $21^{\circ}52'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 29 and 30 N. Rgs. 3 and 4 E. which is a stone marked and witnessed as described by the surveyor general

Thence I run

$S. 89^{\circ}58'E.$ bet. secs. 6 and 31

Over rolling land through heavy pine timber

3.50 Cross draw 15 lks. wide course S.W.

39.90 The $\frac{1}{4}$ sec. cor. As the stone is lying loosely on the ground I re-set the stone, which is $18 \times 12 \times 4$ ins. $\frac{1}{2}$ ins. in the ground, marked $\frac{1}{4}$ on N. face; ^{from cor. to sec. 6 only.} from which

A pine 24 ins. diam bears $S. 15^{\circ}45'W.$ 10 lks. dist. marked $\frac{1}{4}$ 5/6 BT.

1825

Resurvey of the South boundary of Twp. 30 N. Rg. 4 E.

BOOK

Chains

66.35 Cross draw 15 lks. wide, course S.W.

77.65 Cross draw 20 lks. wide, course S.W.

80.13 The remains of the cor. of secs. 5, 6, 31 and 32. As the stone has crumbled and the marks are nearly obliterated I destroy the corner and re-establish ^{for cor. to secs. 5, 6, 31 & 32 only} it in the same place as follows: Set a limestone 30 x 12 x 6 ins. 22 ins. in the ground for cor. of secs. 5, 6, ~~31 and 32~~ marked with 5 notches on E. and 1 notch on W. faces; from which
 A pine 18 ins. diam. bears S. 42 1/2° E. 64 lks. dist. marked T29 NR 4E S5 BT.
 A pine 22 ins. diam. bears S. 49° W. 55 lks. dist. marked T29 NR 4E S6 BT.
 Land, rolling.
 Soil, rocky; 3rd rate.
 Timber, pine.
 Heavily timbered land 80.13 chs. ✓

S. 89° 58' E. bet. secs. 5 and 32

Over rolling land through heavy pine timber and oak brush.

25.60 Cross draw 10 lks. wide, course S.W.

40.20 The remains of the 1/4 sec. cor. I re-establish in the same place as follows: Set a limestone 18 x 6 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. ^{to sec. 5 only} marked 1/4 on N. face; from which

X A pine 30 ins. diam. bears S. 37 1/2° E. 16 lks. dist. marked 1/4 S5 BT.

80.52 The cor. of secs. 4, 5, 32 and 33 as the stone is only set about 2 ins. in the ground I reset the same stone a limestone 20 x 14 x 6 ins. 15 ins. in the ground marked with 2 notches on W. and 5 notches on E. edges; ^{for cor. to secs. 4 and 5 only.} from which

Survey of the South boundary of Pp. 30 N. Rg. 4 E.

Chains

A pine 8 ins. diam. bears S. 31 3/4° E. ✓
128 lks. dist. marked T29NR4ES4BT.

A pine 9 ins. diam. bears S. 87° W. ✓
135 lks. dist. marked T29NR4ES5BT.

Land, rolling.

Soil, rocky; 4th rate.

Timber, pine.

Underbrush, oak.

Heavily timbered land, 80.52 chs. ✓

S. 89° 58' E. bet. secs. 4 and 33.

Over rolling land through pine timber and oak brush.

33.40 Cross road bears North and South.

40.17 Phe 1/4 sec. cor. a limestone 24 x 8 x 6 ins. set 4 ins. in the ground marked 1/4 S on N. face; I obliterate the S and remark the 1/4 and set the stone 18 ins. in the ground for 1/4 cor. to sec. 4 only from which

A pine 10 ins. diam. bears S. 51 3/4° W. ✓
70 lks. dist. marked 1/4 S 4BT.

46.60 Cross draw 15 lks. wide course S.

67.20 Cross draw 15 lks. wide course S.

80.32 Phe cor. of secs. 3, 4, 33 and 34 as the old markings are nearly gone I destroy the old cor. and re-establish it in the same place as follows: for cor. to sec. 3 and 4 only.

Set a limestone 18 x 10 x 8 ins. 12 ins. in the ground for cor. of secs. 3, 4, ~~and 34~~ marked with 3 notches on E. and W. edges; from which

A pine 6 ins. diam. bears S. 45 3/4° E. ✓
54 lks. dist. marked T29NR4ES3BT

A pine 20 ins. diam. bears S. 53 1/2° W. ✓
90 lks. dist. marked T29NR4ES4BT.

Land, rolling.

Soil, rocky; 4th rate.

Resurvey of the South boundary of Twp. 30 N. R. 4 E.

BOOK

Chains

Timber, pine.
 Underbrush, oak.
 Heavily timbered land 80.32 chs.

S. 89° 58' E. bet. secs. 3 and 34
 Over rolling land through heavy
 pine timber and oak brush
 32.50 Cross draw 15 lks. wide, course S. W.
 40.16 The 1/4 sec. cor. As the markings
 are very faint and the stone very
 loosely set I destroy the old
 cor. and re-establish it in the
 same place as follows, for 1/4 cor. to sec. 3 only.
 Set a limestone 18 x 10 x 6 ins. 12
 ins. in the ground for 1/4 sec. cor.
 marked "4 on N. face; from which
 a pine 20 ins. diam. bears S. 28° W.
 44 lks. dist. marked "4 S 3 BT

63.20 Crosswash course South 15 lks. wide.
 80.50 The cor. of secs. 2, 3, 34 and 35 a
 limestone, marked and witnessed
 as described by the surveyor general.
 Land, rolling I destroy accessories N. of cor. referring
 Soil, rocky; 3rd rate. to secs. 34 and 35.
 Timber, pine.
 Underbrush, oak.
 Heavily timbered land 80.50 chs.

S. 89° 58' E. bet. secs. 2 and 35
 Over rolling land through heavy
 pine timber and oak brush.
 10.20 Cross road bears N. and S.
 40.41 The 1/4 sec. cor. as the stone is loosely
 set and marked "4 S on N. face,
 I obliterate the S and remark
 the "4 and set the stone, a
 limestone 16 x 12 x 4 ins. 11 ins.
 in the ground for 1/4 sec. cor.

Resurvey of the South boundary of Twp. 30 N. R. 4 E.

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Chains

80.78

marked $\frac{1}{4}$ on N. face; ^{for $\frac{1}{4}$ cor. to sec. 2 only} from which
 A pine 20 ins. diam. bears S. 51° E.
 82 lks. dist. marked $\frac{1}{4}$ S 2 BT.

The cor. of secs. 1, 2, 35 and 36 a
 sandstone $20 \times 14 \times 6$ ins. very loose-
 ly set. I remark the same stone
 with 5 notches on W. and 1 notch
 on E. and set it 15 ins. in the
 ground with a mound of stone
 around it, ^{for cor. to secs. 1 and 2 only.} from which

A pine 18 ins. diam. bears S. 59° E.
 87 lks. dist. marked T29NR4ES1BT.

A pine 18 ins. diam. bears S. 40° W.
 136 lks. dist. marked T29NR4ES2BT.

Land, rolling.

Soil, rocky; $4\frac{1}{2}$ rate.

Timber, pine.

Underbrush, oak.

Heavily timbered land, 80.78 chs. ✓

S. $89^{\circ} 58'$ E. bet. secs. 1 and 36.

Over rolling land, through heavy
 pine timber and oak brush

12.25 Cross road bears N. and S.

40.18 The $\frac{1}{4}$ sec. cor. a limestone $20 \times$
 12×4 ins. in a mound of stone
 marked $\frac{1}{4}$ S on N. face; I re-set
 cor. in mound of stone ^{for $\frac{1}{4}$ cor. to sec. 1 only.} and
 obliterate the S. and from the
 cor. A pine 20 ins. diam. bears
 S. 23° W. 51 lks. dist marked $\frac{1}{4}$ S 1 BT.

Over rough rolling mountains
 along general N. E. slope.

48.70 Cross wash 12 lks. wide course N.

67.95 Cross wash 12 lks. wide course N.

78.00 Leave pine and through dense
 cedar and pinon timber.

80.65 The cor. of Twp. 29 and 30 N. R. 4
 and 5 E. a stone marked
 and witnessed as described

1825

Resurvey of the South boundary of Pp. 30 N. Rg. 4 E.

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Claims

by the surveyor general.

Land, rolling and mountainous
Soil, rocky; 4th rate.

Timber, pine, cedar and pinon.

Underbrush, oak.

Mountainous or heavily timbered
land 80.65 chs.

July 13, 1904

Claims

Survey commenced July 13, 1904 and executed with a W. and R. C. Gurley solar compass. Compass not numbered.

The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the vernier of the latitude arc.

The vernier of the declination arc reads to thirty seconds of arc.

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

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. 25, 30, 31 and 36 Twp. 30 N. Rg. 4 and 5 E.; latitude $35^{\circ} 58' N.$; longitude $111^{\circ} 43' 26'' W.$; I set off $35^{\circ} 58' N.$ on the lat. arc; $21^{\circ} 48\frac{1}{2}' N.$ on the decl. arc; and at 5^h 00^m p.m. l.m.t., determine with the solar a meridian and mark a point thereof, on a stone set firmly in the ground 5 chs. N. of the cor.

July 13, 1904

July 14: At 12^h 01^m 48^s a.m. l.m.t. by my watch, which has correct l.m.t. I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and

Subdivision of Tp. 30 N. Rg. 4 E.

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Chains

mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

At 6^h00^m a.m. l.m.t. I lay off the azimuth of Polaris $10^{\circ}29'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set July 13, on which the meridian coincides with the mark determined by the solar.

At 7^h00^m a.m. l.m.t. I set off $35^{\circ}58'$ N. on the lat. arc; $21^{\circ}43'$ 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 established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7^h10^m a.m. is N. $14^{\circ}30'$ W.; the angle thus determined gives the mag. decl. $14^{\circ}30'$ E.

I commence at the cor. of secs. 25, 30, 31 and 36, previously described

Thence I run on a sectional correction line

West bet. secs. 25 and 36.

Over rolling land through pinon and cedar timber very dense.

- 8.10 Cross gully 5-lks wide course N. E.
- 12.40 Cross draw 20-lks. wide course N. E.
- 16.35 Cross draw 30-lks. wide course N. E.
- 22.20 Cross draw 25-lks wide course N. E.

Subdivision of Tp. 30 N. Rg. 4 E.

chains

and leave pinon and cedar and through
 pine timber and oak brush.
 40.00 Set a sandstone 18x16x7 ins. 1/2 ins.
 in the ground for 1/4 sec. cor. marked
 1/4 on N. face; from which
 A pine 24 ins. diam. bears N. 2° W.
 30 lks. dist. marked 1/4 S 25 BT.
 A pine 36 ins. diam. bears S. 30° E.
 11 lks. dist. marked 1/4 S 36 BT.
 41.65 Cross draw 25 lks. wide course N.
 60.50 Cross wash 15 lks. wide course N. E.
 78.00 Cross wash 15 lks. wide course N. E.
 80.00 Set a sandstone 20x10x7 ins. 15 ins.
 in the ground for cor. of secs. 25, 26,
 35 and 36 marked with 1 notch on
 S. and E. edges; from which
 A pine 24 ins. diam. bears N. 16° E. 194
 lks. dist. marked T30NR4ES 25 BT.
 A pine 14 ins. diam. bears S. 16° E. 167
 lks. dist. marked T30NR4ES 36 BT.
 An oak 10 ins. diam bears S. 46 1/2° W. 34
 lks. dist. marked T30NR4ES 35 BT.
 A pine 30 ins. diam. bears N. 54 1/2° W. 107
 lks. dist. marked T30NR4ES 26 BT.
 Land, rolling.
 Soil, rocky; 4th rate.
 Timber, cedar, pine and pinon.
 Underbrush, oak.
 Heavily timbered land 80.00 chs. ✓

West bet. secs. 26 and 35.

Over rolling mountains along
 general north slope through
 pine timber and oak brush.
 16.00 Cross wash 10 lks. wide course N.
 27.00 Cross wash 10 lks. wide course N.
 40.00 Set a sandstone 18x12x7 ins. in
 a mound of stone for 1/4 sec. cor.
 marked 1/4 on N. face; from which
 A pine 10 ins. diam. bears S. 67 1/4° E.
 64 lks. dist. marked 1/4 S 35 BT.

why

Subdivision of Pp. 30 N. Rg. 4 E.

| chains | |
|--------|---|
| | A pine 20 ins. diam. bears N. 6 $\frac{3}{4}$ ° W. 107 lks. dist. marked $\frac{1}{4}$ S 26 BT. |
| 49.00 | Cross gully, 5 lks. wide, course N. |
| 56.00 | Cross wash 20 lks. wide, course N. E. |
| 60.00 | Cross gully 5 lks. wide, course N. E. |
| 67.00 | Over level land. |
| 80.00 | Set a sandstone 18 x 16 x 6 ins. 12 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edges; from which |
| | A pine 24 ins. diam. bears N. 2 $\frac{1}{2}$ ° E. 102 lks. dist. marked T30NR4ES26 BT. |
| | An oak 6 ins. diam. bears S. 82° E. 37 lks. dist. marked T30NR4ES35 BT. |
| | A pine 18 ins. diam. bears S. 44° W. 67 lks. dist. marked T30NR4ES34 BT. |
| | A pine 18 ins. diam. bears N. 58 $\frac{3}{4}$ ° W. 101 lks. dist. marked T30NR4ES27 BT. |
| | Land, mountainous and level. Soil, rocky 4 $\frac{1}{2}$ rate. |
| | • Timber, pine. Underbrush, oak. Mountainous or heavily timbered land 80.00 chs. |
| | July 14: At this cor. I set off 21° 40 $\frac{1}{2}$ ' N. on the decl. arc; and observe the sun on the meridian at noon the resulting lat. is 35° 58' N. |
| | • West bet. secs. 27 and 34. Over rolling land through heavy pine timber and oak brush. |
| 10.60 | Draw, 30 lks. wide, course N. |
| 19.50 | Cross draw 25 lks. wide, course N. |
| 34.40 | Cross draw 25 lks. wide, course N. |
| 40.00 | Set a sandstone 16 x 12 x 6 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which |
| | A pine 14 ins. diam. bears S. 67° E. 70 lks. dist. marked $\frac{1}{4}$ S 34 BT. |

SK
 $\frac{1}{2}$

SK
 $\frac{1}{2}$

chains

A pine 24 ins. diam. bears N. 60° W. 107 lks. dist. marked 4527BT.

40.35 Cross wash 15 lks. wide, course N. E.

47.17 Cross road bears N. W. and S. E.

80.00 Set a sandstone 16x12x3 ins. 11 ins. in the ground for cor. of secs. 27, 28, 33 and 34 marked with 1 notch on S. and 3 notches on E. edges; from which

A pine 8 ins. diam. bears N. 29° E. 60 lks. dist. marked T30NR4ES27BT

A pine 20 ins. diam. bears S. 59 1/4° E. 54 lks. dist. marked T30NR4ES34BT.

A pine 12 ins. diam. bears S. 37 1/2° W. 46 lks. dist. marked T30NR4ES33BT.

A pine 10 ins. diam. bears N. 55° W. 189 lks. dist. marked T30NR4ES28BT.

Land rolling
Soil, stony; 3rd rate.
Timber, pine.
Underbrush, oak.
Heavily timbered land 80.00 chs. ✓

West bet. secs. 28 and 33

Over rolling land through heavy pine timber and oak brush.

6.65 Cross wash 5 lks. wide, course S. W.

10.80 Cross wash 10 lks. wide, course S.

40.00 Set a limestone 18x14x6 ins. 12 ins. in the ground for 4 sec. cor. marked 4 on N. face; from which

A pine 36 ins. diam. bears N. 10° W. 48 lks. dist. marked 4528BT.

A pine 12 ins. diam. bears S. 79° E. 44 lks. dist. marked 4533BT.

71.80 Cross road bears N. and S.

80.00 Set a limestone 20x14x8 ins. 15 ins. in the ground for cor. of secs. 28, 29, 32 and 33 marked with 1 notch on S. and 4 notches on E. edges; from which

Subdivision of T₃₀ N₄ R₉ E₆

BOOT

1825

Chains

OK

A pine 12 ins. diam. bears N. 86 $\frac{1}{4}$ ° E.
 132 lbs. dist. marked T₃₀N₄R₉E₆S 28 BT.
 An oak 8 ins. diam. bears S. 63 $\frac{1}{4}$ ° E.
 139 lbs. dist. marked T₃₀N₄R₉E₆S 33 BT.
 A pine 6 ins. diam. bears S. 66 $\frac{1}{2}$ ° W.
 67 lbs. dist. marked T₃₀N₄R₉E₆S 32 BT.
 A pine 20 ins. diam. bears N. 35 $\frac{1}{4}$ ° W.
 29 lbs. dist. marked T₃₀N₄R₉E₆S 29 BT.
 Land, rolling.
 Soil, stony; 3rd rate.
 Timber, pine.
 Underbrush, oak.
 Heavily timbered land 80.00 chs. ✓

July 14, 1904

July 15: At 7^h 00^m a. m. l. m. t. I
 set off 35° 58' N. on the lat. arc; 21°
 34' N. on the decl. arc; and determine
 a meridian with the solar at the
 cor. of secs. 28, 29, 32 and 33

Thence I run

West bet. secs. 29 and 32

Over level land through heavy pine
timber and oak brushy.

40.00

Set a limestone 16 x 14 x 4 ins. 11 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked
14 on N. face; from whichA pine 6 ins. diam. bears N. 35 $\frac{1}{4}$ ° E.
69 lbs. dist. marked $\frac{1}{4}$ S 29 BT.A pine 6 ins. diam. bears S. 63 $\frac{1}{2}$ ° E.
26 lbs. dist. marked $\frac{1}{4}$ S 32 BT.

72.60

Cross wash, 10 lbs. wide, course S.

80.00

Set a limestone 24 x 8 x 6 ins. 18 ins.
in the ground for cor. of secs. 29,
30, 31 and 32 marked with 1 notch
on S. and 5 notches on E. edges;
from whichA pine 8 ins. diam. bears N. 9° E.
8 lbs. dist. marked T₃₀N₄R₉E₆S 29 BT.A pine 8 ins. diam. bears S. 64 $\frac{1}{2}$ ° E.
32 lbs. dist. marked T₃₀N₄R₉E₆S 32 BT.

chains

JK

A pine 20 ins. diam. bears S. $36\frac{1}{2}^{\circ}$ W.
 7 lks. dist. marked T30NR4ES31BT.
 A pine 12 ins. diam. bears N. $21\frac{1}{2}^{\circ}$ W.
 172 lks. dist. marked T30NR4ES30BT
 Land, level.
 Soil, stony $3\frac{1}{4}$ rate.
 Timber, pine.
 Underbrush, oak.
 Heavily timbered land 80.00 chs. ✓

40.00

From the above cor. I now run west bet. secs. 30 and 31

82.50

Set temp $\frac{1}{4}$ sec. cor.
 Intersect Rg. line 5 lks. S. of the cor. of secs. 25, 30, 31 and 36 and as the accessories of a closing cor. would interfere with the cor. already established I therefore return to the cor. of secs. 29, 30, 31 and 32

Thence I run

N $89^{\circ}58'$ W. bet. secs. 30 and 31
 Over level land through pine timber and oak brush.

13.50

Cross wash 10 lks. wide course S.

40.00

Set a limestone $26 \times 6 \times 4$ ins. 20 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which
 A pine 30 ins. diam. bears S. $24\frac{3}{4}^{\circ}$ W.
 12 lks. dist. marked $\frac{1}{4}$ S31BT

A pine 10 ins. diam. bears N. $67\frac{1}{2}^{\circ}$ W.
 33 lks. dist. marked $\frac{1}{4}$ S30BT.

51.00

Cross wash 5 lks. wide course S. W.

67.45

Cross wash 10 lks. wide course S.

82.50

The cor. of secs. 25, 30, 31 and 36
 Pp. 30 N. Rgs. 3 and 4 E. a sand stone marked and witnessed as described by the surveyor general.
 Land level.
 Soil, stony; $3\frac{1}{4}$ rate.

14
18
BOOK 1825 14

Subdivision of Pp. 30 N. Rg. 4 E.

Chains

Timber, pine
Underbrush, oak.
Heavily timbered land 82.50 chs. ✓

July 15: At the cor. of secs. 25, 26, 35 and 36 I set off $21^{\circ} 31' N.$ on the decl. arc; and observe the sun on the meridian at noon, the resulting lat is $35^{\circ} 58' N.$

From the cor. of ~~25~~ 25, 26, 35 and 36 previously described

I run

South bet. secs. 35 and 36.

Along S. E. slope of mountains through pine timber and oak brush.

5.00 Cross wash 6 lks. wide course N. E. and ascend along N. W. slope

20.00 Over rolling land. ✓

40.00 Set a sandstone $20 \times 10 \times 8$ ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; from which

JK
5/11

A pine 12 ins. diam. bears S. $34^{\circ} E.$
63 lks. dist. marked $\frac{1}{4} S 36 BT.$

A pine 32 ins. diam. bears N. $88 \frac{1}{2}^{\circ} W.$
120 lks. dist. marked $\frac{1}{4} S 35 BT.$

53.00 Cross wash 10 lks. wide course N. E.

62.65 Cross draw course N. E.

64.10 Cross road bears E. and W.

80.00 Intersect S. bdy. of Pp. 55 lks. S. $89^{\circ} 58' E.$ of cor. of secs. 1, 2, 35 and 36 and set a sandstone $24 \times 8 \times 4$ ins. 18 ins. in the ground for closing cor. of secs. 35 and 36 marked CC on N.; with 1 groove E. and 5 grooves on W. faces; from which

A pine 28 ins. diam. bears N. $17 \frac{1}{4}^{\circ} E.$

37 lks. dist. marked CCT30NR4E536 BT.

A pine 16 ins. diam. bears N. $49 \frac{1}{2}^{\circ} W.$

92 lks. dist. marked CCT30NR4E535 BT.

Land, Mountainous and rolling.
Soil, rocky; 3rd and 4th rate.

Timber, pine.
Underbrush, oak.
Mountainous and heavily timbered
land 80.00 cho. ✓

I commence at the cor. of secs. 26, 27
34 and 35 previously described.

Thence S. run

South bet. secs. 34 and 35

Over level land through heavy
pine timber and oak brush

17.00 Cross wash, 10 lks. wide course E.

21.75 Cross wash, 10 lks. wide course N. E.

40.00 Set a sandstone 16x8x6 ins. 11 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face; from which

011
1/4

A pine 30 ins. diam bears S. $33\frac{1}{2}^{\circ}$ E.
132 lks. dist. marked $\frac{1}{4}$ S 35 BT.

A pine 30 ins. diam. bears N. $56\frac{1}{2}^{\circ}$ W.
89 lks. dist. marked $\frac{1}{4}$ S 34 BT

46.65 Cross road bears N. W. and S. E.

80.02 Intersect S. boundary of Twp. 125 lks.

012
/

S. $89^{\circ}58'$ E. of the cor. of secs. 2 and 3
and set a limestone 18x8x5 ins. 12
ins. in the ground for closing cor.
of secs. 34 and 35 marked CC on N.
with 2 grooves on E. and 4 grooves
on W. faces; from which

A pine 30 ins. diam. bears N. 77° E.
130 lks. dist. marked CCT30NR4ES35 BT.

A pine 34 ins. diam. bears N. $36\frac{1}{2}^{\circ}$ W.
130 lks. dist. marked CCT30NR4ES34 BT.

Land, level.

Soil, rocky; $4\frac{1}{2}$ rate.

Timber, pine.

Underbrush, oak.

Heavily timbered land 80.02 cho. ✓

I destroy accessories N of line referring to
secs. 34 and 35 - at old cor. to secs. 2 and 3.

I commence at the cor. of secs.

Subdivision of Pp. 30 N. Rg. 4 E.

chains

27, 28, 33 and 34 previously described
Phence I run
South bet. secs. 33 and 34
Over rolling land through heavy
pine timber and oak brush.
6.45 Cross wash 10 lks. wide, course N.W.
36.00 Cross wash 10 lks. wide, course S.W.
40.00 Set a sandstone 26x10x6 ins. 19 ins
in the ground for $\frac{1}{4}$ sec. cor. marked
OK
1/4
4 on W. face; from which
A pine 20 ins. diam. bears N. 17 $\frac{1}{2}$ ° E.
37 lks. dist. marked $\frac{1}{4}$ S 34 BT.
A pine 28 ins. diam. bears S. 6 $\frac{1}{2}$ ° W.
57 lks. dist. marked $\frac{1}{4}$ S 33 BT.
70.90 Cross wash, 5 lks. wide, course S.W.
79.90 Intersect S. bdy. of Pp. 170 lks. $89^{\circ}58'$
E. of the cor. of secs 3 and 4 and
set a sandstone 18x6x6 ins. 12 ins.
in the ground for closing cor.
of secs. 33 and 34 marked CC on
N. face; with 3 grooves on E. and
W. faces; from which
A pine 16 ins. diam. bears N. 75 $\frac{1}{2}$ ° E.
77 lks. dist. marked CCT30NR4ES 34 BT.
A pine 26 ins. diam. bears N. 78 $\frac{3}{4}$ ° W.
84 lks. dist. marked CCT30NR4ES 33 BT.
Land, rolling.
Soil, stony; 3 $\frac{1}{2}$ rate.
Timber Pine.
Underbrush, oak.
Heavily timbered land 79.90 cho. ✓

July 15, 1904

July 16: At 7^h00^m a.m. l.m.t. I set
off 35° 58' N. on the lat. arc; 21° 24 $\frac{1}{2}$ ' N.
on the decl. arc; and determine a
meridian with the solar at the
cor. of secs. 28, 29, 32 and 33 previously
described

Phence I run

chains

40.00

BT

79.87

BT

South bet. secs. 32 and 33
 Over level land through heavy
 pine timber, and oak brush.
 Set a limestone 18x10x4 ins. 12 ins.
 in the ground for 1/4 sec. cor. marked
 1/4 on W. face; from which
 A pine 10 ins. diam. bears N. 87° W.
 32 lks. dist. marked 1/4 S 32 1/2 BT.
 An oak 6 ins. diam. bears S. 21 1/2° E.
 80 lks. dist. marked 1/4 S 33 BT.
 Intersect S. bdy. of Pp. 200 lks.
 S. 89° 58' E. of the cor. of secs. 4 and 5
 and set a sandstone ^{ins. 15 ins. in the ground} 20x10x5 for
 closing cor. of secs 32 and 33 marked
 cc on N.; with 4 grooves on E. and
 2 grooves on W. faces; from which
 A pine 6 ins. diam. bears N. 50° E.
 57 lks. dist. marked CCT30NR4ES 33 BT.
 A pine 6 ins. diam. bears N. 18 1/2° W.
 148 lks. dist. marked CCT30NR4ES 32 BT.
 Land, level.
 Soil, rocky; 4th rate.
 Timber, pine.
 Underbrush, oak.
 Heavily timbered land 79.87 chs. ✓

8.00

28.30

40.00

BT

I commence at the cor. of secs. 29, 30,
 31 and 32 previously described
 Thence I run
 South bet. secs. 31 and 32
 Over rolling land through heavy
 pine timber and oak brush.
 Cross wash, 10 lks. wide, course S. E.
 Cross wash, 10 lks. wide, course S. W.
 Set a limestone 16x8x4 ins. 11 ins.
 in the ground for 1/4 sec. cor. marked
 1/4 on W. face; from which
 A pine 20 ins. diam. bears N. 35° E.
 55 lks. dist. marked 1/4 S 32 BT.
 A pine 20 ins. diam. bears N. 62 1/2° W.

Subdivision of Pp. 30 N. Rg. 4 E.

BOOK

1825

Chains
 78.85 Cross wash 5 lks. wide course S. W.
 80.03 Intersect S. bdy. of Pp. 241 lks.
 S. 89° 58' E. of the cor. of secs. 5 and 6
 and set a limestone 18x10x6 ins. 12
 ins. in the ground for closing cor.
 of secs. 31 and 32 marked with
 5 grooves on E. and 1 groove on W.
 and CC on N. faces; from which
 a pine 20 ins. diam. bears N. 70° E.
 109 lks. dist. marked CCT30NR4ES32BT.
 A pine 14 ins. diam. bears N. 44½ W.
 67 lks. dist. marked CCT30NR4ES31BT.
 Land, rolling.
 Soil, stony; 3½ rate.
 Timber, pine.
 Underbrush, oak.
 Heavily timbered land 80.03 chs. ✓

I commence at the cor. of secs. 25, 26,
 35 and 36 previously described

Thence I run

N 0° 01' W. bet. secs. 25 and 26.

Descend over rolling mountains through
 heavy pine timber and oak brush.

24.25 Cross wash 15 lks. wide course E.
 and over rolling land.

40.00 Set a limestone 18x10x4 ins. 12 ins.
 in the ground for ¼ sec. cor. marked
 ¼ on W. face; from which

An oak 4 ins. diam. bears N. 30° W.

35 lks. dist. marked ¼ S 26 BT.

An oak 4 ins. diam. bears S. 39° E.

30 lks. dist. marked ¼ S 25 BT.

65.10 Cross wash 15 lks. wide course E.

80.00 Set a limestone 18x12x12 ins. 12 ins. in
 the ground for cor. of secs. 23, 24, 25
 and 26 marked with 2 notches on
 S. and 1 notch on E. edges; from
 which

chains

Wm

A cedar 8 ins. diam. bears N. 57 $\frac{3}{4}$ ° E.
 89 lks. dist. marked T30NR4ES24BT.
 A pine 20 ins. diam. bears S. 0° 30' E.
 92 lks. dist. marked T30NR4ES25BT
 A pine 4 ins. diam. bears S. 54 $\frac{3}{4}$ ° W.
 38 lks. dist. marked T30NR4ES26BT.
 A pine 26 ins. diam. bears N. 58 $\frac{1}{2}$ ° W.
 72 lks. dist. marked T30NR4ES23BT
 Land, rolling and mountainous.
 Soil, rocky; 4 $\frac{1}{2}$ rate.
 Timber, pine and a few oaks.
 Underbrush, oak.
 Mountainous land and heavily
 timbered land 80.00 chs.

East on a random line bet. secs.
 24 and 25

40.00

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

80.02

Intersect E. bdy. of Twp. at the
 cor. of secs. 19, 24, 25 and 30.

Thence I run

West on a true line bet. secs. 24 and 25

Over rolling land through heavy
 pine timber and oak brush.

4.00

A dry wash 30 lks. wide, course N. E.
 and along same.

7.00

Leave wash bears S. W.

40.01

Set a sandstone 16x10x4 ins. 11 ins.
 in the ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face; from which

A pine 20 ins. diam. bears N. 29 $\frac{1}{4}$ ° W.

224 lks. dist. marked $\frac{1}{4}$ S 24 BT.

A piñon 6 ins. diam. bears S. 37° E.

84 lks. dist. marked $\frac{1}{4}$ S 25 BT.

43.40

Cross wash 15 lks. wide course N. E.

61.25

Cross wash 15 lks. wide course N. E.

70.50

Cross wash 15 lks. wide course N. E.

80.02

The cor. of secs. 23, 24, 25 and 26.

Land, rolling.

Soil, rocky; 4 $\frac{1}{2}$ rate.

Subdivision of Twp. 30 N. Rg. 4 E.

Chains

Timber pine.
Underbrush, oak.
Heavily timbered land 80.02 cho.

July 16, 1904

July 17: At 7^h00^m a.m. l.m.t. I set off
35° 58' 1/2" N. on the lat. arc; 21° 14' 1/2" N.
on the decl. arc; and determine a
meridian with the solar at the
cor. of secs. 23, 24, 25 and 26

Thence I run

N. 0° 01' W. bet. secs. 23 and 24

Over rolling land through heavy pine
and pinon timber.

7.25 Cross wash 8 lks. wide, course E.

40.00 Set a limestone 16 x 10 x 6 ins. 1/4 ins.
in the ground for 1/4 sec. cor. marked
1/4 on W. face; from whichA pine 6 ins. diam. bears N. 64° E.
8 lks. dist. marked 1/4 S 24 BT.A pine 6 ins. diam. bears N. 48° W.
53 lks. dist. marked 1/4 S 23 BT.

43.80 Cross wash, 10 lks. wide, course E.

52.28 Cross road, bears E. and W.

54.90 Cross gully, 5 lks. wide course E.

72.40 Cross wash, 10 lks. wide, course N. E.

80.00 Set a limestone 18 x 12 x 4 ins. 1/2 ins. in
the ground for cor. of secs. 13, 14, 23
and 24 marked with 3 notches on S.
and 1 notch on E. edges; from which

A pine 20 ins. diam. bears N. 64° E.

98 lks. dist. marked T30NR4ES13 BT.

A pine 16 ins. diam. bears S. 25° E.

161 lks. dist. marked T30NR4ES24 BT

A pine 20 ins. diam. bears S. 5 1/2° W.

96 lks. dist. marked T30NR4ES23 BT.

A pine 26 ins. diam. bears N. 85° W.

147 lks. dist. marked T30NR4ES14 BT.

Land, rolling.

Soil, rocky; 4th rate.

| | |
|--------|---|
| Chains | <p>Timber pine and piñon. Heavily timbered land 80.00 chs.</p> |
| | <p>East on a random line bet. secs. 13 and 24</p> |
| 40.00 | <p>Set temp. $\frac{1}{4}$ sec. cor.</p> |
| 80.04 | <p>Intersect E. bdy. of Twp. 2 lks. S. of cor. of secs. 13, 18, 19 and 24.</p> |
| | <p>Thence I run S. $89^{\circ}59'11''$ on a true line bet. secs. 13 and 24 Over rolling land through dense piñon and pine timber.</p> |
| 10.49 | <p>Cross wash 10 lks. wide course S. E.</p> |
| 40.02 | <p>Set a limestone $20 \times 12 \times 3$ ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which A piñon 6 ins. diam. bears N. $54\frac{1}{2}^{\circ}$ E. 34 lks. dist. marked $\frac{1}{4}$ S $\frac{1}{3}$ BT. A piñon 12 ins. diam. bears S. 52° W. 46 lks. dist. marked $\frac{1}{4}$ S $2\frac{1}{4}$ BT.</p> |
| 48.80 | <p>Cross wash 10 lks. wide course S.</p> |
| 61.30 | <p>Cross wash 10 lks. wide course S.</p> |
| 70.00 | <p>Cross wash 8 lks. wide course S.</p> |
| 80.04 | <p>Thence cor. of secs. 13, 14, 23 and 24 Land, rolling. Soil, stony; $3\frac{1}{4}$ rate. Timber, piñon and pine. Heavily timbered land 80.04 chs. July 17: At this cor. I set off $21^{\circ}11\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $35^{\circ}59\frac{1}{2}'$ N.</p> |

I commence at the cor. of secs. 26, 27, 34 and 35 previously described
Thence I run N. $0^{\circ}01'$ W. bet. secs. 26 and 27

Subdivision of Pp. 30 N. Rg. 4 E.

BOOK 1825

| Chains | |
|--------|---|
| | Over level land through heavy pine timber and oak brush. |
| 13.00 | Descend general N. slope along on E. slope of cañon. |
| 25.75 | Cross Wash 12 lks. wide, course N. 5° W. and along on W. slope descending. |
| 40.00 | Set a sandstone 20 x 16 x 14 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; from which A pine 36 ins. diam. bears S. 14 $\frac{3}{4}$ ° E. 22 lks. dist. marked $\frac{1}{4}$ S 26 BT. An oak 6 ins. diam. bears N. 2 $\frac{1}{2}$ ° W. 47 lks. dist. marked $\frac{1}{4}$ S 27 BT. |
| 40.15 | Cross wash 6 lks. wide course E. and along on general E. slope over rolling mountains. |
| 64.60 | Cross wash 6 lks. wide, course E. |
| 68.25 | Cross wash 6 lks. wide, course E. |
| 80.00 | Set a sandstone 16 x 12 x 3 ins. 11 ins. in the ground for cor. of secs. 22, 23 26 and 27 marked with 2 notches on S. and E. edges; from which A pine 20 ins. diam. bears N. 77 $\frac{1}{2}$ ° E. 125 lks. dist. marked T30NR4ES 23 BT. A pine 16 ins. diam. bears S. 51° E. 132 lks. dist. marked T30NR4ES 26 BT. A pine 36 ins. diam. bears S. 10 $\frac{1}{2}$ ° W. 44 lks. dist. marked T30NR4ES 27 BT. A pine 30 ins. diam. bears N. 38° W. 80 lks. dist. marked T30NR4ES 22 BT. Land level and mountainous. Soil, rocky; 3 $\frac{1}{2}$ rate. Timber, pine. Underbrush, oak. Mountainous or heavily timbered land 80.00 chs. ✓ |
| | Cast on a random line bet. secs. 23 and 26. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |

- chains
80.10 Intersect N. and S. line 5 lks N.
of cor. of secs. 23, 24, 25 and 26
Thence I run
N. 89° 58' W. on a true line bet. secs. 23 and
26
Over rolling land through piñon
and pine timber heavy.
- 40.05 Set a limestone 18 x 14 x 4 ins. 12 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face; from which
A piñon 8 ins. diam. bears N. 28 $\frac{1}{2}$ ° E.
16 lks. dist. marked $\frac{1}{4}$ S 23 BT.
An oak 6 ins. diam. bears S. 26 $\frac{1}{2}$ ° E.
35 lks. dist. marked $\frac{1}{4}$ S 26 BT.
- 54.65 Cross wash 10 lks. wide course N. E.
and ascend E. slope mountain.
- 77.70 Cross wash 10 lks. wide course S. E.
- 80.10 The cor. of secs. 22, 23, 26 and 27.
Land, rolling and mountainous
Soil, rocky; 3rd rate.
Timber, piñon and pine.
Mountainous or heavily timbered
land 80.10 chs. ✓

July 17, 1904

- July 18: at 7^h 00^m a. m. l. m. t. I set
off 35° 58 $\frac{1}{2}$ ' N. on the lat. arc; 21° 04 $\frac{1}{2}$ ' N.
on the decl. arc; and determine a
meridian with the solar at the
cor. of secs. 22, 23, 26 and 27.
Thence I run
N. 0° 01' W. bet. secs. 22 and 23
Over rolling mountains through
Pine timber and oak brush.
- 0.50 Head of wash 5 lks. wide, course S. E.
- 13.70 Dam, about 100 ft. long, known as
Hull tank bears N. 82 $\frac{1}{2}$ ° W.
- 20.70 Cross fence bears E. and W.
- 24.45 Cross road bears E. and W.
- 24.63 Dam known as Hull tank bears S. 47°
W. No water.

Subdivision of Pp. 30 N. Rg. 4 E.

BOOK

chains

24.80 Cross wash 6 lks. wide, course E.
 24.87 Fence, bears E. and W.
 35.70 Fence, bears N.W. and S.E.
 40.00 Set a sandstone 30 x 14 x 4 ins. 21 ins.
 in the ground for 1/4 sec. cor. marked
 1/4 on W. face; from which
 A pine 28 ins. diam. bears S. 76° E.
 6 lks. dist. marked 1/4 S 23 BT.
 An oak 6 ins. diam. bears N. 68° W.
 35 lks. dist. marked 1/4 S 22 BT.
 80.00 Set a lime stone 22 x 10 x 6 ins. 17 ins.
 in the ground for cor. of secs. 14, 15, 22
 and 23 marked with 3 notches on S.
 and 2 notches on E. edges; from which
 A pine 20 ins. diam. bears N. 46° E.
 128 lks. dist. marked T30NR4ES14BT
 A pine 10 ins. diam. bears S. 46° E
 72 lks. dist. marked T30NR4ES23BT.
 A pine 25 ins. diam. bears S. 16° W.
 89 lks. dist. marked T30NR4ES22BT
 A pine 14 ins. diam. bears N. 10 1/2° W.
 18 lks. dist. marked T30NR4ES15BT
 Land, rolling and mountainous.
 Soil, rocky; 3 1/4 rate
 Timber, pine.
 Underbrush, oak.
 Mountainous or heavily timbered
 land 80.00 chs.

S. 89° 58' E. on a random line bet.
 secs. 14 and 23.
 40.00 Set temp. 1/4 sec. cor.
 80.04 Intersect N. and S. line 10 lks. N.
 of cor. of secs. 13, 14, 23 and 24.
 Thence I run
 N. 89° 54' W. on a true line bet. secs.
 14 and 23
 Over rolling land through piñon
 and pine timber.
 40.02 Set a limestone 18 x 10 x 8 ins. 12 ins.

chains

OK

80.04

in the ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face; from which
 A cedar 5 ins. diam. bears S. 80° E.
 54 lks. dist. marked $\frac{1}{4}$ S 23° BT.
 A cedar 7 ins. diam. bears N. 12° W.
 49 lks. dist. marked $\frac{1}{4}$ S 14° BT.
 The cor. of secs. 14, 15, 22 and 23.
 Land, rolling.
 Soil, rocky; $4^{\frac{1}{2}}$ rate.
 Timber, pine, piñon and cedar.
 Heavily timbered land 80.04 chs.

5.00
 11.40
 18.75
 22.50
 26.65
 .
 29.60
 40.00

N. 0° 01' W. bet. secs. 14 and 15
 Over rolling land through heavy
 cedar, piñon and pine timber.
 Cross wash 10 lks. wide, course E.
 Cross wash 10 lks. wide, course S. E.
 Cross road, bears N. E. and S. W.
 Cross fence, bears N. E. and S. W.
 A point from which a log cabin
 20 x 14 ft. bears N. 85° W. 7 chs. dist.
 Cross road bears E. and W.
 Set a limestone 24 x 14 x 6 ins. 16 ins.
 in the ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face; from
 which
 A piñon 6 ins. diam. bears S. 51° E.
 14 lks. dist. marked $\frac{1}{4}$ S 14° BT.
 A piñon 5 ins. diam. bears N. 40° W.
 25 lks. dist. marked $\frac{1}{4}$ S 15° BT.
 The rim of the Grand Cañon of
 the Colorado River bears N. about 10.
 00 chs. dist. I discontinue this
 line at this cor.
 Land, rolling.
 Soil, rocky; $4^{\frac{1}{2}}$ rate.
 Timber, cedar, piñon and pine.
 Heavily timbered land 40.00 chs.

Subdivision of Tp. 30 N. Rg. 4 E.

26
30
BOOK 1825 26

chains

July 18. At the cor. of secs. 27, 28, 33 ✓
and 34 I set off $21^{\circ} 01' N.$ on the decl.
arc; and observe the sun on the
meridian at noon, the resulting lat.
is $35^{\circ} 58' N.$

I commence at the cor. of secs.
27, 28, 33 and 34, previously described

Thence I run

$N. 0^{\circ} 02' W.$ bet. secs. 27 and 28.

Over level land through heavy pine
timber and oak brush

- 5.45 Cross wash 5 lks. wide, course S. W.
 - 40.00 Set a sandstone $18 \times 18 \times 4$ ins. 12 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked
14 on W. face; from which
A pine 30 ins. diam. bears $N. 5^{\circ} \frac{1}{2}' E.$
85 lks. dist. marked 4527 BT.
 - A pine 12 ins. diam. bears $N. 83^{\circ} \frac{3}{4}' W.$
25 lks. dist. marked 4528 BT.
 - 69.00 Cross road bears N. W. and S. E. from
Grand View to Playstaff
 - 71.30 Cross road bears N. W. and S. E. to
John Hance cabin.
 - 77.85 Cross wash 10 lks. wide course S. E.
 - 80.00 Set a sandstone $22 \times 11 \times 6$ ins. 17 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;
from which
A pine 30 ins. diam. bears $N. 31^{\circ} \frac{3}{4}' E.$
64 lks. dist. marked T30NR4E S22 BT.
 - A pine 16 ins. diam. bears S. $30^{\circ} \frac{3}{4}' E.$
103 lks. dist. marked T30NR4E S27 BT.
 - An oak 8 ins. diam. bears S. $9^{\circ} W.$
49 lks. dist. marked T30NR4E S28 BT.
 - An oak 6 ins. diam. bears N. $66^{\circ} W.$
52 lks. dist. marked T30NR4E S21 BT.
- Land, level
Soil, stony $3^{\frac{1}{4}}$ rate.
Timber, pine and some oak.
Underbrush, oak
Heavily timbered land 80.00 chs. ✓

Chains

- East on a random line bet. secs. 22 and 27.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.14 Intersect N. and S. line 3 lks. S. of the cor. of secs. 22, 23, 26 and 27.
- Phence I run
- S. $89^{\circ}59'W$. on a true line bet. secs. 22 and 27. through heavy pine timber
- 6.40 Cross road, bears N. and S.
- 11.30 Cross wash 15 lks. wide, ^{course N.} and over rolling land
- 18.11 From this point a log cabin bears N. $12^{\circ}30'W$. abandoned.
- 19.00 Pop ridge bears N. and S. and descend.
- 27.80 Cross wash 20 lks. wide course N. and ascend.
- 40.07 Set a sandstone $18 \times 14 \times 10$ ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which.
- A pine 30 ins. diam. bears N. $11^{\circ}E$. 11 lks. dist. marked $\frac{1}{4}S 22^{\circ}BT$.
- An oak 6 ins. diam. bears S. $45^{\circ}E$. 88 lks. dist. marked $\frac{1}{4}S 27^{\circ}BT$.
- 42.00 Pop ridge bears N. and S. and descend.
- 47.50 Cross wash 20 lks. wide and ascend. Course N
- 55.00 Pop and over rolling land.
- 55.28 From this point abandoned cabin noted above bears N. $40^{\circ}E$.
- 76.80 Cross wash 10 lks. wide course N. E.
- 80.14 The cor. of secs. 21, 22, 27 and 28. Land, rolling and mountainous soil, rocky; 3 $\frac{1}{4}$ rate. Timber, pine. Underbrush, oak. Mountainous or heavily timbered land 80.14 chs.

July 18, 1904

Subdivision of Twp. 30 N. Rg. 4 E.

BOOY

chains

July 19: At 7^h00^m a.m. l.m.t. I set off $35^{\circ}58\frac{1}{2}'$ N. on the lat. arc; $20^{\circ}53\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28

Thence I run

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

Over level land through heavy pine

35.85 Cross road bears N.E. and S.W.

40.00 Set a sandstone $18 \times 12 \times 6$ ins. $\frac{1}{2}$ ins. in the ground for $\frac{1}{4}$ sec. cor.; marked $\frac{1}{4}$ on W. face; from which

ok A cedar 12 ins. diam. bears N. 39° E. 6 lks. dist. marked $\frac{1}{4}$ S 22 BT.

A pine 11 ins. diam. bears S. $51\frac{1}{2}^{\circ}$ W. 53 lks. dist. marked $\frac{1}{4}$ S $2\frac{1}{2}$ BT.

42.80 Cross road bears E. and W.

51.00 Descend over rolling mountains

61.35 Cross wash 10 lks. wide, course E.

80.00 Set a sandstone $20 \times 12 \times 6$ ins. $\frac{1}{5}$ ins. in the ground for cor. of secs. 15, 16, 21 and 22 marked with 3 notches on S. and E. edges; from which

ok A pine 24 ins. diam. bears N. $38\frac{3}{4}^{\circ}$ E. 112 lks. dist. marked T30NR4ES15BT

An oak 8 ins. diam. bears S. 40° E. 100 lks. dist. marked T30NR4ES22BT.

A pine 12 ins. diam. bears S. $68\frac{1}{2}^{\circ}$ W. 100 lks. dist. marked T30NR4ES21BT.

A pine 16 ins. diam. bears N. 17° W. 92 lks. dist. marked T30NR4ES16BT.

Land, level and mountainous.

Soil, stony 3rd rate.

Timber, pine.

Underbrush, oak.

Mountainous land or heavily timbered land 80.00 chs. ✓

N. $89^{\circ}59'$ E. on a random line bet. secs. 15 and 22

Chains

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect N. and S. line 14 lks. N. of the cor. of secs. 14, 15, 22 and 23
Thence I run N. $89^{\circ}55'W.$ on a true line bet. secs. 15 and 22.
Over rolling mountains through heavy pine timber and oak brush.
- 40.01 Set a sandstone $18 \times 14 \times 6$ ins. $\frac{1}{2}$ ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which
A pine 30" ins. diam. bears N. $66^{\circ}34'E.$ 92 lks. dist. marked $\frac{1}{4}S15BT.$
A pine 14 ins. diam. bears S. $6^{\circ}4'E.$ 126 lks. dist. marked $\frac{1}{4}S22BT.$
- 45.90 Cross road bears N. and S.
- 51.29 From this point the S.E. cor. of John Hauee's house bears N. $22^{\circ}15'E.$ 12.50 chs. dist.
- 53.60 Cross road bears N. and S.
- 55.00 From this point center of dam 125 ft. long bears North 4.00 chs. dist.
- 58.70 Cross wash 10 lks. wide, course N.
- 80.02 The cor. of secs. 15, 16, 21 and 22
Land, mountainous.
Soil, stony; 3rd rate.
Timber, pine.
Underbrush, oak.
Mountainous or heavily timbered land 80.02 chs.
-
- N. $0^{\circ}02'W.$ bet. secs. 15 and 16
Over broken mountains through heavy pine timber.
- 10.90 Cross wash, 10 lks. wide, course N. E.
- 17.40 Cross wash, 10 lks. wide, course E.
- 23.40 Cross wash 10 lks. wide, course E.
- 40.00 Set a limestone $18 \times 12 \times 8$ ins. $\frac{1}{2}$ ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; from which

Subdivision of Pp. 30 N. Rg. 4 E.

BOOK

chains

of

A piñon 6 ins. diam. bears S. $49\frac{1}{2}^{\circ}$ E.
19 lks. dist. marked $\frac{1}{4}$ 515 BT.

A cedar 7 ins. diam. bears N. $42\frac{1}{2}^{\circ}$ W.
56 lks. dist. marked $\frac{1}{4}$ 516 BT.

From this cor. the rim of the Grand Cañon of the Colorado River bears north 1 chn. dist. I therefore discontinue this line at this cor.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, pine.

Mountainous or heavily timbered land 40.00 chs.

July 19: At the cor. of secs. 28, 29, 32 and 33 I set off $20^{\circ}50'$ N. on the decl. arc; and observe the sun on the meridian at noon the resulting latitude is $35^{\circ}58'$ N.

I commence at the cor. of secs. 28, 29, 32 and 33 previously described
Thence I run

N. $0^{\circ}03'$ W. bet. secs. 28 and 29

Over level land through heavy pine timber and oak brush.

14.60 Cross road bears N. and S. E. and along same

16.30 Leave road bears N. E.

30.45 Cross road bears N. W. and S. E.

40.00 Set a limestone $16 \times 12 \times 10$ ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; from which

A pine 30 ins. diam. bears S. $74\frac{3}{4}^{\circ}$ E.
151 lks. dist. marked $\frac{1}{4}$ 528 BT.

A pine 24 ins. diam. bears S. $7\frac{1}{2}^{\circ}$ W.
113 lks. dist. marked $\frac{1}{4}$ 529 BT.

49.85 Cross road bears N. E. and S. W.

56.70 Cross road bears N. W. and S. E. and over rolling land.

77.00 Cross wash 5 lks. wide course S. W.

Chains
80.00

OK
M

Set a sandstone 22x12x8 ins. 16 ins. in the ground for cor. of secs. 20, 21, 28 and 29 marked with 2 notches on S. and 4 notches on E. edges; from which
 An oak 10 ins. diam. bears N. 59 3/4° E. 72 lbs. dist. marked T30NR4ES 21 BT.
 A pine 30 ins. diam. bears S. 51 3/4° E. 51 lbs. dist. marked T30NR4ES 28 BT.
 A pine 30 ins. diam. bears S. 43 1/4° W. 137 lbs. dist. marked T30NR4ES 29 BT.
 A pine 24 ins. diam. bears N. 46 1/2° W. 57 lbs. dist. marked T30NR4ES 20 BT.
 Land, level and rolling.
 Soil, stony; 3 1/4 rate.
 Timber, pine.
 Underbrush, oak.
 Heavily timbered land 80.00 cho. ✓

East on a random line bet. secs. 21 and 28

40.00 Set temp. 1/4 sec. cor.
 79.90 Intersect N. and S. line 7 lbs. S. of cor. of secs. 21, 22, 27 and 28.
 Thence I run S. 89° 57' W. on a true line bet. secs. 21 and 28.
 Over rolling land through heavy pine timber and oak brush.
 2.45 Cross road bears N.W. and S.E.
 31.22 Cross road bears N. and S.
 39.95 Set a limestone 16x10x4 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which
 A pine 6 ins. diam. bears N. 29° E. 44 lbs. dist. marked 1/4 S 21 BT.
 A pine 14 ins. diam. bears S. 39° E. 45 lbs. dist. marked 1/4 S 28 BT.
 15 Cross wash 5 lbs. wide, course S.W.
 The cor. of secs. 20, 21, 28 and 29.

Subdivision of Tp. 30 N. Rg. 4 E.

BOOK

1825

Chains

Land, rolling.
Soil, stony; 3rd rate.
Timber, pine
Underbrush, oak.
Heavily timbered land, 79.90 chs. ✓

July 19, 1904

July 20: At 7^h 00^m a. m. l. m. t. I set off 35° 58' 1/2" N. on the lat. arc; 20° 42' 1/2" N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 20, 21, 28 and 29 previously described.

Thence I run

N. 0° 03' W. bet. secs. 20 and 21

Over rolling land through heavy pine timber and oak brush.

15.50 Cross wash 10 lks. wide course S. W.

30.60 Cross road bears N. W. and S. E.

40.00 Set a sandstone 24 x 14 x 4 ins. 18 ins. in the ground for 1/4 sec. cor. marked 14 on W. face; from which

An oak 4 ins. diam. bears S. 61 1/2° E.

17 lks. dist. marked 14 5¹ BT.

A pine 30 ins. diam. bears N. 85° W.

54 lks. dist. marked 14 5²⁰ BT.

52.55 Cross road, bears E. and W.

68.20 Row fence posts bears N. W. and S. E. no wire.

78.00 Cross wash 10 lks. wide, course N. E.

80.00 Set a sandstone 26 x 12 x 6 ins. 19 ins.

in the ground for cor. of secs 16, 17, 20 and 21 marked with 3 notches on S. and 4 notches on E. edges; from which

A pine 26 ins. diam. bears N. 65 1/2° E.

67 lks. dist. marked T30NR4ES 16 BT.

A pine 14 ins. diam. bears S. 25 1/2° E.

12 lks. dist. marked T30NR4ES 21 BT

A pine 26 ins. diam. bears S. 59 1/2° W.

14 lks. dist. marked T30NR4ES 20 BT.

Chains

A pine 26 ins. diam. bears N. $48\frac{1}{2}^{\circ}$ W.
86 lks. dist. marked T30NR4ES 17 BT.
Land, rolling.
Soil, stony, 3 $\frac{1}{4}$ rate.
Timber, fine.
Underbrush, oak.
Heavily timbered land 80.00 chs.

N. $89^{\circ}57'6''$ on a random line bet.
secs. 16 and 21

40.00

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

79.86

Intersect N. and S. line 10 lks. N.
of cor. of secs 15, 16, 21 and 22

Thence I run

N. $89^{\circ}59'W$. bet. secs. 16 and 21 on a
true line.

Over rolling mountains through
heavy pine timber

4.90

Cross wash 10 lks. wide course N.

6.35

Cross wash 10 lks. wide course N. E.

39.93

Set a sandstone $18 \times 12 \times 5$ ins. $\frac{1}{2}$ ins.
in the ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face; from which

A pine 30 ins. diam. bears N. 48° E.

46 lks. dist. marked $\frac{1}{4}$ S 16° BT.

A pine 15 ins. diam. bears S. 23° E.

74 lks. dist. marked $\frac{1}{4}$ S 21° BT.

51.75

Cross wash 10 lks. wide course N. W.

60.60

Cross wash 10 lks. wide course N. E.

70.30

Cross wash 10 lks. wide course N.

79.50

Cross wash 10 lks. wide course N.

79.86

The cor. of secs. 16, 17, 20 and 21.

Land, mountainous.

Soil, rocky; 4 $\frac{1}{4}$ rate.

Timber, fine.

Heavily timbered land 79.86 chs.

N. $0^{\circ}03'W$. bet. secs. 16 and 17

Subdivisions of Twp. 30 N. Rg. 4 E.

BOOK

1825

chains

4.85

23.35

x 6.65

40.00

40.00

Over rolling mountains through
pine timber heavy.

Cross wash 15 lks. wide, course N.W.

Set a sandstone 24x15x5 ins. 18 ins.
in the ground for witness $\frac{1}{4}$ sec.
cor. marked W.C. $\frac{1}{4}$ on W. face; from
which

A pine 16 ins. bears S. 30° E.

49 lks. dist. marked W.C. $\frac{1}{4}$ S 16° BT.

A pine 28 ins. diam. bears N. 46 $\frac{1}{2}$ ° W.

53 lks. dist. marked W.C. $\frac{1}{4}$ S 17° BT.

This witness cor. is established
on the rim of the Grand Cañon
of the Colorado River.

Land, mountainous.

Soil, rocky; 4 $\frac{1}{2}$ rate.

Timber, pine.

Mountainous or heavily timbered
land ~~20.25~~^{23.35} chs.

July 20: At the cor. of secs. 29, 30, 31
and 32 Twp. 30 N. Rg. 4 E. I set off
20° 39' N. on the decl. arc; and
observe the sun on the meridian
at noon, the resulting lat. is
35° 58' N.

I commence at the cor. of
secs. 29, 30, 31 and 32 previously
described

Thence I run

N. 0° 03' W. bet. secs. 29 and 30

Over level land through heavy
pine timber and oak brush.

40.00 Set a limestone 16x12x6 ins. 11 ins.

in the ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face; from which

A pine 16 ins. diam. bears S. 88 $\frac{1}{2}$ ° E.

81 lks. dist. marked $\frac{1}{4}$ S 29° BT.

A pine 28 ins. diam. bears N. 86° W.

19 lks. dist. marked $\frac{1}{4}$ S 30° BT

Chains
 54.00 Over rolling land
 56.50 Cross wash, 10 lks. wide, course N.W.
 67.20 Cross wash, 10 lks. wide, course W.
 73.90 Cross wash, 10 lks. wide course S.W.
 80.00 Cross wash, 10 lks. wide course S.W.
 80.00 Set a limestone 20 x 8 x 8 ins. 15 ins.
 in the ground for cor. of secs. 19, 20
 29 and 30, marked with 2 notches
 on S. and 5 notches on E. edges;
 from which
 A pine 8 ins. diam. bears N. 82 3/4° E.
 49 lks. dist. marked T30NR4ES20BT.
 A pine 24 ins. diam. bears S. 4 3/4° E.
 104 lks. dist. marked T30NR4ES29BT.
 A pine 10 ins. diam. bears S. 86 1/4° W.
 52 lks. dist. marked T30NR4ES20BT.
 A pine 8 ins. diam. bears N. 85 3/4° W.
 47 lks. dist. marked T30NR4ES19BT
 Land, level and rolling.
 Soil, stony; 3rd rate.
 Timber, pine.
 Underbrush, oak.
 Heavily timbered land 80.00 chs. ✓

East on a random line bet. secs. 20
 and 29
 40.00 Set temp. 1/4 sec. cor.
 80.06 Intersect N. and S. line 12 lks N.
 of cor. of secs. 20, 21, 28 and 29
 Phyllis I run
 N. 89° 55' W. on a true line bet. secs.
 20 and 29
 Over rolling land through pine
 timber, heavy, and oak brush.
 28.20 Cross road bears N. and S.
 40.03 Set a limestone 16 x 12 x 3 ins. 11 ins.
 in the ground for 1/4 sec. cor. marked
 1/4 on N. face; from which
 A pine 10 ins. diam. bears S. 47° W.
 41 lks. dist. marked 1/4 S 29 BT.

Subdivision of Twp. 30 N. Rg. 4 E.

BOOK 1825

Chains

A pine 10 ins. diam. bears N. 33° E.
 25 lks. dist. marked $\frac{1}{4}$ S ²⁰ BT.

71.00 Cross wash 15 lks. wide, course S.

77.80 Cross wash 10 lks. wide, course S. W.

80.06 The cor. of secs. 19, 20, 29 and 30.
 Land, rolling.
 Soil, stony; 3rd rate.
 Timber, pine.
 Underbrush, oak.
 Heavily timbered land 80.06 chs.

July 20, 1904

July 21: At 7^h 00^m a. m. l. m. t. I
 set off $35^{\circ} 58\frac{1}{2}'$ N. on the lat. arc;
 $20^{\circ} 31'$ N. on the decl. arc; and
 determine a meridian with the
 solar at the cor. of secs. 19, 20, 29
 and 30 previously described.

Thence I run

N. $0^{\circ} 03'$ W. bet. secs 19 and 20
 Over rolling land through heavy
 pine timber and oak brush.

21.40 Cross wash 15 lks. wide, course W.

40.00 Set a sandstone $18 \times 10 \times 3$ ins. $\frac{1}{2}$ ins.
 in the ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face; from which

A pine 14 ins. diam. bears S. 75° E.
 97 lks. dist. marked $\frac{1}{4}$ S 20 BT.

A pine 12 ins. diam. bears S. 31° W.
 69 lks. dist. marked $\frac{1}{4}$ S 19 BT.

43.40 Cross wash 5 lks. wide, course S. W.

78.40 Cross wash 5 lks. wide, course W.

80.00 Set a limestone $18 \times 10 \times 10$ ins. $\frac{1}{2}$ ins.
 in the ground for cor. of secs. 17, 18,
 19 and 20, marked with 3 notches
 on S. and 5 notches on E. edges;
 from which

A pine 8 ins. diam bears N. 80° E.
 128 lks. dist. marked T30NR4ES 17 BT

A pine 30 ins. diam bears S. $19\frac{1}{4}^{\circ}$ E.
 91 lks. dist. marked T30NR4ES 20 BT

Chains

An oak 6 ins. diam. bears S. 5° W.
 104 lks. dist. marked T30NR4ES19BT
 A pine 10 ins. diam. bears N. 56 1/2° W.
 145 lks. dist. marked T30NR4ES18BT
 Land, rolling.
 Soil, stony; 3rd rate.
 Timber, pine.
 Underbrush, oak.
 Heavily timbered land, 80.00 chs.

S. 89° 55' E. on a random line bet.
 secs. 17 and 20.

- 40.00 Set temp 1/4 sec. cor.
- 80.00 Intersect N. and S. line 12 lks.
 S. of cor. of secs. 16, 17, 20 and 21
 Hence I run
 West on a true line bet. secs. 17 and
 20
 Over rolling land through heavy
 pine timber and oak brush.
- 6.35 Row of fence posts bears N.W. and
 S.E. no wire
- 21.25 Cross wash 10 lks. wide, course
 N.E.
- 32.70 Cross wash, 10 lks. wide, course N.
- 33.75 Cross road, bears N. and S.
- 38.45 S.E. cor. of tent house 12 x 14 ft. bears
 north 93 lks. dist.
- 39.29 S.E. cor. of tent house 12 x 14 ft. bears
 north 14 lks. dist.
- 40.00 Set a limestone 26 x 12 x 8 ins. 1 1/2 ins.
 in the ground for 1/4 sec. cor. marked
 1/4 on N. face; from which
 A pine 12 ins. diam. bears S. 13 1/2° E.
 34 lks. dist. marked 1/4 S 20 BT.
 A pine 16 ins. diam. bears N. 12 1/2° E.
 52 lks. dist. marked 1/4 S 17 BT.
 From this 1/4 sec. cor.
 Cor. No. 2, Mineral Survey No. 1358 B
 bears N. 12° 08' W. 3.625 chs. dist.

Subdivision of Twp. 30 N. Rg. 4 E.

COOK 1825

Chains

The S.E. cor. of the Grand View Hotel bears N. 20° 06' E. 5.64 chs. dist.

The S.E. cor. of the Grand View Hotel barn bears N. 3° 05' W. 3.58 chs. dist.

The S.E. cor. of John Berry's house bears N. 30° 30' W.

45.26 A point from which the S.E. cor. of Berry's house bears N. 10½° E.

48.45 Cross road bears N.E. and S.W.

49.00 Cross wire fence, bears N.E. and S.W.

50.90 Cross wire fence, bears N.W. and S.E.

51.55 Cross road bears N.W. and S.E.

80.00 The cor. of secs. 17, 18, 19 and 20.

Land, rolling.

Soil, stony 3rd rate.

Timber, pine.

Underbrush, oak.

Heavily timbered land 80.00 chs.

N. 0° 03' W. bet. secs. 17 and 18

Through heavy pine timber and oak brush over rolling land

3.30 Cross wash, 10 lks. wide, course N.E.

12.72 Cross road bears N.E. and S.W.

29.20 Cross road bears S.E. and N.W.

40.00 Set a limestone 20x12x7 ins. 15 ins.

in the ground for ¼ sec. cor. marked ¼ on W. face; from which

A pine 14 ins. diam. bears S. 54° E.

53 lks. dist. marked ¼ S 1/4 BT.

A pine 9 ins. diam. bears S. 40½° W.

70 lks. dist. marked ¼ S 1/8 BT.

64.15 Cross road bears N.E. and S.W.

71.20 Cross road bears N.W. and S.E.

80.00 Set a sandstone 20x14x4 ins. 15

ins. in the ground for cor. of secs.

7, 8, 17 and 18 marked with 4 notches on S. and 5 notches on E. edges;

Chains

ok

BOOK

from which
 A pine 18 ins. diam bears N. 23 1/2° E.
 9 lbs. dist. marked T30NR4ES8BT
 A pine 20 ins. diam. bears S. 9° E.
 44 lbs. dist. marked T30NR4ES17BT.
 A pine 10 ins. diam bears S. 31° W.
 18 lbs. dist. marked T20NR4ES18BT.
 A pine 12 ins. diam. bears N. 68 1/4° W.
 11 lbs. dist. marked T30NR4ES7BT.
 Land, rolling.
 Soil, rocky; 4th rate.
 Timber, pine.
 Underbrush, oak.
 Heavily timbered land \$0.00 chs.
 July 25. At this cor. I set off 20° 28' N.
 on the decl. arc; and observe
 the sun on the meridian at noon
 the resulting lat. is. 35° 00' N.

Knowing that this line will inter-
 sect the Grand Cañon before
 running one half mile I run
 East on a true line bet. secs.
 8 and 17

Over rolling land through heavy
 pine timber and oak brush.

4.15 Cross wash 10 lbs. wide, course N.

17.70 Cross road bears N. E. and S. W.

24.85 The rim of the Grand Cañon of
 the Colorado River

15.15
 40.00
 Set a limestone 20 x 12 x 5 ins. 15 ins.
 in the ground for witness 1/4 sec.
 cor. marked W.C. 1/4 on N. face;
 from which

A piñon 14 ins. diam. bears S. 51° E.
 19 lbs. dist. marked ^{W.C.} 1/4 S 17 BT.

A piñon 18 ins. diam. bears N. 74° W.
 27 lbs. dist. marked W.C. 1/4 S 8 BT. ^{from which} W.S.M. m. 7th 1.
 15.39 chs. dist.

Land, rolling.
 Soil, rocky; 4th rate.

Subdivision of Twp. 30 N. Rg. 4 E.

Chains

Timber, pine.
Underbrush, oak.
Heavily timbered land 24, 85 cho.

July 21, 1904

General Description.

This township is nearly level with the exception of a rim running from S.E. to N.W. through its center and which breaks down about 400 feet, perpendicularly, to the east into what is known as Cocouino Basin. The soil is stony and unfit for cultivation but produces an abundant crop of grass. The timber on the western half of the township is pine, while cedar and piñon predominate in the eastern half.

There is no water in the township.

There is one settler in sec. 15 and one in sec. 17. The Grand View Hotel, a tourist resort, is also located in sec. 17. I have included all the agricultural and grazing lands in this township in the sections surveyed by me.

John P. Hesse
U. S. Dep. Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

BOOK 1825

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

....., 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 Subdivision lines of Twp. 30 N. Rg. 4 E.

showing the respective capacities in which they acted:

Russel E. Stones ✓, Chainman.

George W. Cassidy ✓, Chainman.

....., Moundman.

....., Moundman.

Louis Roberts ✓, Axman.

Harry A. Cargile ✓, Axman.

Len Raser ✓, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John D. Hesse

....., United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision lines of Twp. 30 N. Rg. 4 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

Russel E. Stones ✓, Chainman.

George W. Cassidy ✓, Chainman.

....., Moundman.

....., Moundman.

Louis Roberts ✓, Axman.

Harry A. Cargile ✓, Axman.

Len Raser ✓, Flagman.

Subscribed and sworn to before me this 21st

day of July 1904, 189



John D. Hesse
U. S. Dep. Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John D. Hesse, United States Deputy Surveyor, do solemnly swear that, in pursuance of ^{Special Instructions} a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the fourteenth day of June, 1904, 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 Pp. 30 N. R. 4 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; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

John D. Hesse
United States Deputy Surveyor.

Subscribed by said John D. Hesse, and sworn to before me }
this 18th day of November, 1891904.

Frank S. Ingalls
U.S. Surveyor General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A. T., January 31st, 1891905

The foregoing field notes of the survey of the subdivisional lines of a portion of T 30 N, R 4 E, of the Gila and Salt River Base and Meridian, in the Territory of Arizona

executed by John D. Hesse D. S., under Special Instructions under his contract No. _____, dated June 14th 1904, 1891904, 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.