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Book A

2221

BOOK 2221

Accepted by L.O. Ketter
E. dated Sep. 26-1911

FIELD NOTES

2221

OF THE SURVEY OF THE

Sixth Standard Parallel North through
Ranges 5-6-7-8 and 9 West, Arizona

2221

2221

2221

of the Gila and Salt River Basins and Meridian,

Arizona

AS SURVEYED BY

W. D. Secor

Transitman
United States Deputy Surveyor,

Under his ^{Group} ~~Contract~~ No. 7, dated August 25, 1910

Survey commenced October 10, 1910

Survey completed October 27, 1910

2221

2221

BOOK 2221

NAMES AND DUTIES OF ASSISTANTS.

Theodore Alden

Chairman

C. J. Schwartz

Chairman

Carl Barandon

Chairman

J. H. McCall

Chairman

George Ely

Moundman

Paul Bial

Apman

BOOK 2221

INDEX DIAGRAM.

See next page

Township _____, Range _____

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, Theodore Alden and Chas. J. Schwartz
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 Sixth Standard Parallel North and Second Guide Meridian W.

Theodore Alden, Chainman.
C. J. Schwartz, Chainman.

Subscribed and sworn to before me this 8th
day of October, 1910



W. J. Jacob
Transitman

WE, Carl Barandon and J. H. McCall
do solemnly swear that we will well and truly perform the duties of ~~chainmen~~ ^{chainmen} ~~groundmen~~ in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of Sixth Standard Parallel North and Second Guide Meridian W.

J. H. McCall, Chainman
Carl Barandon, Chainman

Subscribed and sworn to before me this 8th
day of October, 1910



W. J. Jacob
Transitman

WE, George Ely and _____
do solemnly swear that we will well and truly perform the duties of ~~axman~~ ^{groundman} in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of The 6th Standard Parallel North and Second Guide Meridian W.

George Ely, ~~axman~~ ^{groundman}
Axman.

Subscribed and sworn to before me this 8th
day of October, 1910



W. J. Jacob
Transitman

I, Paul Dial, do solemnly swear that I will well and truly perform the duties of ~~flagman~~ ^{axman} according to instructions given me, to the best of my skill and ability, in the survey of The 6th Standard Parallel North and Second Guide Meridian W.

Paul Dial, ~~flagman~~ ^{axman}

Subscribed and sworn to before me this 8th
day of October, 1910



W. J. Jacob
Transitman

Names and Duties of Assistants

| | |
|----------------|----------|
| Theodore Alden | Chairman |
| C. J. Schwartz | Chairman |
| Carl Barandon | Chairman |
| J. H. McCall | Chairman |
| George Ely | Moundman |
| Paul Dial | Exman |

BOOK 2221

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T. 25 N., R. 5 W.

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T. 25 N., R. 8 W.

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T. 25 N., R. 9 W.

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6th. Standard Parallel N.

Sixth Standard Parallel North Through Range 5 West.

Survey commenced Oct. 10, 1910, and executed with a Buff & Berger engineer's transit N^o 672, approved by Asst. Supervisor of Surveyors and U.S. Surveyor General for Arizona; the horizontal limb having two double verniers placed opposite to each other and reading to 30" of arc.

I begin at the standard cor. of Tpe. 25 N. Rs. 4 & 5 N., which is a malpais or igneous rock 16 x 14 x 10 ins. in a mound of stones marked and witnessed as described by the Surveyor General.

At my camp about one mile N. of said standard cor., on the evening of Oct. 8, 1910, in latitude $35^{\circ} 31' N.$, longitude $112^{\circ} 45' 40'' W.$, at 6^h 25^m p.m., by my watch which is correct, I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined, by a nail driven in a stake about seven chains N. of my station.

Oct. 8, 1910.

Oct. 9, 1910, at 6-30 a.m. I lay off the azimuth of Polaris, $1^{\circ} 26'$ to the west, and mark the meridian thus determined by driving a stake in the ground west of the point established last night in which I drove a small nail; the magnetic bearing of said meridian is $N. 15^{\circ} 15' E.$

At this station I set off $6^{\circ} 08' S.$ on the decl. arc; and at 11^h 47^m 31^{sec} l.m.t. observe the sun on the meridian; the resulting latitude is $35^{\circ} 31' N.$

In order to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with the meridian determined last night I set off $6^{\circ} 11' S.$ on the decl. arc; $35^{\circ} 31' N.$ on the lat. arc, and at 4^h 50^m p.m. l.m.t. determine with the solar

a meridian which falls 0.4 inch east of the meridian established by the Polaris observation.

Oct. 9, 1910.

Oct. 10: At 7 a.m. l.m.t. I set off $6^{\circ} 23\frac{1}{2}' S.$ on the decl. arc; $35^{\circ} 31' N.$ on the lat. arc and determine with the solar a meridian which falls 0.2 inch west of the meridian established by observation on Polaris.

I therefore conclude that the adjustments of the instrument are satisfactory, and proceed to the standard cor. to Tps. 25 N. R. 5 W. from whence

I run W. on the S. Bdy. sec. 36, Tp. 25 N. R. 5 W., ascending steep slope of ridge.

- 2.30 Top of ridge bearing N ^{and} S. Descend steep slope.
 - 11.20 Foot of slope, asc.
 - 19.80 Top of point of ridge, bears S.
 - 20.20 Desc. abruptly to gulch.
 - 26.10 Bottom of gulch, course N. asc.
 - 40.00 Set 1 in. iron post 26 ins. in ground for standard $\frac{1}{4}$ sec. cor. marked S.C. $\frac{1}{4}$ S. 36 on N. from which a cedar 20 ins diam. bears N. $31^{\circ} 40' E.$, 38 lks. dist. marked "S.C. $\frac{1}{4}$ S. 36 B.J." No other trees available. Raised a mound of stones 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
 - 40.15 Foot of precipitous malpais bluff 20 ft. high.
 - 40.20 Top of bluff, bears S. ^{and} N.W.; Proceed over rough, rocky ground through dense cedars.
 - 61.20 Begin to descend
 - 70.30 Desc. abruptly.
 - 80.00 Set 3 in. iron post 24 ins. in ground for standard cor. of sec. 35 ^{and} 36, T. 25 N. R. 5 W. ^{and} S.C. with S. 36 on N.E.; ^{and} S. 35 on N.W. from which
 - A cedar branch 6 ins. diam. Bears N. $39^{\circ} 30' W.$ 65 lks. dist. marked T. 25 N. R. 5 W. S. 35 S.C. B.J.
 - A cedar 48 ins. diam. bears N. $26^{\circ} 03' E.$ 162 lks. dist. marked T. 25 N. R. 5 W. S. 36, S.C. B.J.
- Surface extremely rough rocky with very

Mountains are also visible

Results of this set of observations agree.

Sixth Standard Parallel North Through Range 5 West.

little soil ^{and} only valuable for grazing purposes. Surface contains a good growth of grama grass. The E. 40 chs. contains no timber; The W. 39.80 chs. has a dense growth of cedars with scattering pines.

W. on S. Bdy. sec. 35,

- Desc. over rough rocky ground through dense cedars ^{and} brush.
- 9.20 Bottom of gulch 500 ft. below top, course N.W. Ascend steep slope.
- 15.00 Foot of perpendicular bluff of malpais 15 ft. high; bears N.W. ^{and} S.E.
- 15.20 Top of bluff.
- 17.00 Edge of bluff, bears N. 70° W. ^{and} S. 70° E. Descend abruptly.
- 40.00 Set 1 in. iron post 26 ins. in ground for standard 1/4 sec. cor. marked S.C. 1/4 S. 35 on N., from which a cedar branch 6 ins. diam. bears N. 87° 45' W. 94 lbs. dist. marked 1/4 S. 35, S.C. B.T.
- Oct. 10, 1910.
- Oct. 11: At 7 a.m. l.m.t. I set off 6 45' S. on the decl. arc; 35° 30' on the lat. arc ^{and} determine a meridian with the solar at the standard 1/4 sec. cor. on S. Bdy. sec. 35; Thence I run west on the S. Bdy. sec. 35, descending.
- 53.10 Bottom of gulch, course S.W. asc.
- 56.40 Top of rise desc.
- 62.70 Bottom of gulch, course S. 10° E., heads about 6 chs. N.; asc. abruptly about 500 ft.
- 63.90 Leave cedars.
- 73.80 Top of ridge, bears N. ^{and} S. Desc.
- 80.00 Set 3 in. iron post 24 ins. in ground for standard cor. of secs. 34 ^{and} 35, marked S.C. T. 25 N. R. 5 W. with S. 35 on N.E. ^{and} S. 34 on N.W.; dig pits 24 x 18 x 12 ins. crosswise on

Sixth Standard Parallel North Through Range 5 West.

on each line, E. ^{and} N. 3 ft., ^{and} N. 7 ft. dist.; ^{and}
 raise a mound of earth 4 ft. base, 2 ft. high
 N. of cor.

Surfaces rough ^{and} rocky.

Soil is hard, black adobe mixed with malpais boulders.

E. 63.90 chs. is in dense cedars ^{and} brush;
 N. 16.10 chs. has moderately thick buck brush.

N. on S. Bidj. sec. 34.

Desc. over rolling ground covered with malpais boulders.

40.00 Set 1 in. iron post 26 ins. in ground for
 standard $\frac{1}{4}$ sec. cor. marked S.C. $\frac{1}{4}$ S. 34 on N.
 dig pits 18x18x12 ins. E. ^{and} N. of post 3 ft.
 dist. ^{and} raise a mound of earth $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high N. of cor.

60.00 Enter dense cedars.

80.00 Set 3 in. iron post 24 ins. in ground for
 standard cor. of secs. 33 ^{and} 34, marked S.C.
 T. 25 N. R. 5 W. on N., ^{and} S. 34 on N.E., ^{and}
 S. 33 on N.W., from which
 A cedar 8 ins. diam. bears N. $72^{\circ} 45'$ W. 9 lks.
 dist., marked T. 25 N. R. 5 W. S. 33 S.C. B.S.

A cedar 8 ins. diam. bears N. $37^{\circ} 55'$ E. 10 lks.
 dist. marked T. 25 N. R. 5 W. S. 34 S.C. B.S.

Land: E $\frac{1}{2}$ mountainous; W $\frac{1}{2}$ rolling;
 Soil: E $\frac{1}{2}$ heavy adobe mixed with malpais
 boulders: E. 60 chs. free from timber;
 N. 20 chs. dense cedars ^{and} brush.

Oct. 11. 1910.

Sixth Standard Parallel North Through Range 5 West.

| | |
|-------|---|
| | Oct. 17: Rain during a.m. hours. At 1 p.m. l.m.t. I set off $7^{\circ} 17' S.$ on the decl. arc; $35^{\circ} 30' N.$ on the lat. arc ^{and} determine a meridian with the solar at the standard cor. of secs. 33 ^{and} 34.; thence I run N. on S. Bdy. sec. 33 over rolling land, desc. through dense cedars ^{and} over large malpais rocks. |
| 14.00 | Leave cedars. |
| 20.60 | Bottom of gulch, course S. W. asc. |
| 40.00 | Set 1 in. iron post 26 ins. in ground for Standard $\frac{1}{4}$ sec. cor. marked S.C. $\frac{1}{4}$ S. 33 on N.; dig pits $18 \times 18 \times 12$ ins. E. ^{and} W. of post 3 ft. dist.; ^{and} raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. |
| 80.00 | Set 3 in. iron post 24 ins. in ground for standard cor. of secs. 32 ^{and} 33, marked S.C. T. 25 N. R. 5 W on N., S. 33 ^{and} N.E ^{and} S. 32 on N.W.; dig pits $24 \times 18 \times 12$ ins. crosswise on each line, E. ^{and} W. 3 ft., ^{and} N. of post 7 ft. dist.; ^{and} raise a mound of earth 4 ft. base, 2 ft. high N. of cor. Surfaces rolling ^{and} very rocky. Soil: heavy adobe mixed with boulders. E. 14 chs. dense cedars. |
| | W. on the S. Bdy. sec. 32. |
| | Over rolling rocky land |
| 72.00 | Enter dense cedars. |
| 35.00 | Cedars become scattering, surface less rocky ^{and} much lighter, containing considerable volcanic ash ^{and} some lime. |
| | Differences between measurements of 40.00 chs. by two sets of chainman, is five chs.; position of middle point By 1 st set, 40.03 chs. By 2 ^d set, 39.98 chs.; the mean of which is |
| 40.00 | Set 1 in. iron post 26 ins. in ground for |

Sixth Standard Parallel North Through Range 5 West.

standard 1/4 sec. cor. marked S.C. 1/4 S. 32 on N.
from which

A cedar 6 ins. diam. bears N. 47° 15' W. 34 lks.
dist. marked S.C. 1/4 S. 32 B.T. Dig pits 18x18x12 ins. E. & W. of post
and raise a red. post 3 1/2 ft. high, 1 1/2 ft. high
north of corner, Oct. 12. 1910.

Oct. 13: At 7^h 10^m a.m. l.m.t. I set off 7° 32' S. on
the decl. arc; 35° 30' N. on the lat. arc and
determine a meridian with the solar at
the standard 1/4 sec. ^{cor.} on S. Bidg. sec. 32; thence
I continue

W. on S. Bidg. sec. 32

44.00 Leave cedars

70.00 Enter scattering cedars.

80.00 Set 3 in. iron post 24 ins. in ground for
standard cor. of secs. 31 ^{and} 32, marked S.C. -
T. 25 N. R. 5 W. on N.; S. 32 on N.E. ^{and} S. 31
on N.W., from which

A cedar 8 ins. diam. bears N. 73° 10' W. 22 1/2
lks. dist. marked T. 25 N. R. 5 W. S. 31 S.C. B.T.

A cedar 6 ins. diam. bears N. 51° 12' E. 28 1/2
lks. dist. marked T. 25 N. R. 5 W. S. 32 S.C. B.T.

Land rolling; Soil: E. 35.00 Chs. heavy dark
brown adobe mixed with large malpais rocks.
W. 45.00 Chs. soil is of reddish brown con-
taining volcanic ash ^{and} lime.

Scattering cedars 45 Chs. Dense cedars 13 Chs.

W. on S. Bidg. sec. 31.

40.00 Over rolling land through scattering cedars.
Set a 1 in. iron post 26 ins. in ground for
standard 1/4 sec. cor. marked S.C. 1/4 S. 31 on N,
from which

A cedar 18 ins. diam. bears N. 83° W. 23 1/2
lks. dist. marked ^{S.F.} 1/4 S. 31 B.T. ✓

Desc. abruptly to Chino valley over large rocks.
50.80 Foot of descent; Road to Seligman bears N. ^{and} S.

70.00 Leave cedars.

Sixth Standard Parallel North Through Range 5 West.

80.00

Set 3 in. iron post 24 ins. in ground for standard cor. of secs. 31^{and} 36^{and} Tps. 25 N. Rs. 5^{and} 6 W. marked S.C. 1/4 S. 31 on N.E.; 1/4 R. 6 W., S. 36 on N.W.; dig pits 30x24x12 ins. crosswise on each line, E. and W., 4 ft., and N. of post, 8 ft. dist.; and raise a mound of earth 5 ft. base, 2 1/2 ft. high N. of cor.

Surface rolling.

Soil: a heavy dark adobe mixed with malpais rocks and boulders.

A fair growth of grama grass covers the surface.

Scattering cedars and brush for 70.00 Che.

From the standard cor. of Tps. 25 N. Rs. 5^{and} 6 W. just established by me, I run W. on the S. Bdy. sec. 36, Tp. 25 N. R. 6 W. Over rolling land.

40.00

Set 1 in. iron post 26 ins. in ground for standard 1/4 sec. cor. marked S.C. 1/4 S. 36 on N.; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

63.60

Edge of bluff 75 ft. high, bears N. and S. Desc. steep, rocky slope to Chino Valley.

67.40

Centre of Chino wash 180 lbs. wide, course S.

Difference between measurements of 80.00 Che. by two sets of chainman is 27 lbs.; inasmuch as the two sets of chainman agreed in their dist. on the first 40.00 Che. the error must be in the second 40.00 Che.; I, therefore, with the assistance of my head chainman, personally remeasure the second 40.00 Che. and our measurement agrees with that of the 1st set of chainman.

The error of the second set of chainman occurred in "breaking chain" while descending

Sixth Standard Parallel North Through Range 6 West.

80.00 bluff, I, therefore, at
 Set 3 in. iron post 24 ins. in ground for stand-
 ard cor. of secs. 35 and 36, marked S.C. 1/4 S. 25 N. R. 6 W. on
 N.; S. 36 on N.E., and S. 35 on N.W.; dig pits 24 x
 18 x 12 ins crosswise on each line; E. and W. 3 ft.
 and N. of post 7 ft. dist.; and raise a mound of earth
 4 ft. base, 2 ft. high N. of cor.
 Land rolling; No timber.
 Soil E. 67.00, black adobe mixed with large and
 small malpais rocks.; N. 31.00 Chs. soil very good
 quality of loam sandy loam mixed with small
 gravel. Good growth of grama grass 80.00 Chs.

West. on S. Bidy. sec. 35
 Over rolling bottom land.

8.60 Begin to asc. from Chino Valley over rough hills
 and through scattering cedars and dense brush.

30.30 Top of slope of point of hill, bears N.E. and N.W.
 Descend.

35.40 Bottom of gulch, course S.E. asc.

40.00 Set 1 in. iron post 26 ins. in ground for stand-
 ard 1/4 sec. cor. marked S.C. 1/4 S. 35 on N. from which
 a cedar 14 ins. diam. bears North 38 lks. dist.
 marked S.C. 1/4 S. 35 B.T. No other trees in distance.

Oct. 13. 1910

Continuous rain on Oct. 14 and 15 prevented field work.

Oct. 17: at 7^h 00^m a.m. l.m.t. I set off 8° 59' S. on the
 decl. arc; 35° 30' N. on the lat. arc; and determine a
 meridian with the solar at the standard 1/4 sec.
 cor. on S. Bidy. sec. 35, and continue N. on S. Bidy. sec. 35.

50.10 Gulch, course S. 65° E.

58.20 Gulch-sams-course N. 60° E., asc. steep slope.

80.00 Set 3 in. iron post 24 ins. in ground for
 standard cor. of secs. 34 and 35 marked S.C. 1/4 S. 25 N. R.
 6 W. on N.; S. 35 on N.E.; and S. 34 on N.W. from which
 a cedar 12 ins. diam. bears N. 59° 06' E. 237 lks. dist.

Sixth Standard Parallel North Through Range 6 West.

marked T. 25 N. R. 6 W. S. 35, S.C. B.T., No other trees available.

Land rolling for 8.60 Chs.; Mountainous 71.40 Chs.
Soil: Light sandy loam mixed with gravel for 8.60 Chs. on E.; heavy black adobe mixed with large rocks for 71.40 Chs. on W. with a good growth of grama grass.

West on S. Bidg. sec. 34.
Begin to desc. over very rocky land to gulch 150 ft. deep.

4.75 Bottom of gulch, course S.E., asc. steep slope.
9.00 Top of bank of gulch, bears N. and S., enter dense cedars.

18.30 Gulch, course N.; Leave boulders, soil gravelly
land rolling.

40.00 Set 1 in. iron post 26 ins. in ground for
standard $\frac{1}{4}$ sec. cor. marked S.E. $\frac{1}{4}$ S. 34.
from which
A cedar 30 ins. diam. bears N. $30^{\circ} 22'$ E. 215
lks. dist. marked S.C. $\frac{1}{4}$ S. 34 B.T. No other trees.

80.00 Set 3 in. iron post 24 ins. in ground for
standard cor. of secs. 33 and 34 marked S.C. T. 25
N. R. 6 W. on N.; S. 34 on N.E.; and S. 33 on N.W.
from which
A cedar 10 ins. diam. bears N. $30^{\circ} 08'$ E. 95 lks.
dist. marked T. 25 N. R. 6 W. S. 34 S.C. B.T.
A cedar 7 ins. diam. bears N. $68^{\circ} 17'$ W. 74 lks. dist.
marked T. 25 N. R. 6 W. S. 33 S.C. B.T.

Land 18.30 Chs. mountainous, 61.70 Chs. rolling.
Soil: heavy dark adobe mixed with gravel.
Surface covered with a good growth of grama
grass. and scattering cedars for 9.00 Chs. and dense
cedars for 71.00 Chs.

Oct. 17, 1910.

Sixth Standard Parallel North Through Range 6 West.

| | |
|-------|---|
| | Oct. 18: At 7 ^h 15 ^m a.m. l.m.t. I set off 9° 24' S. on the decl. arc; 35° 30' N. on the lat. arc; and determine a meridian with the solar at the standard cor. of secs. 33 and 34, thence I run N. on the S. Bidy. sec. 33, through dense cedars, over rolling land. |
| 40.00 | Set 1 in. iron post 26 ins. in ground for standard 1/4 sec. cor. marked S.C. 1/4 S. 33 on N. from which a piñon 8 ins. diam. bears N. 7° 02' E. 216 lbs. dist. marked S.C. 1/4 S. 33 B.T. No other trees. |
| 47.00 | Arroyo 25 ft. deep, course S. E. |
| 65.00 | Draw heads 10.00 chs. N. and flows S. for 500 chs. thence to E. asc. |
| 80.00 | Set 3 in. iron post 24 ins. in ground for standard cor. of secs. 32 and 33 marked S.C. T. 25 N. R. 6 W. on N.; S. 33 on N. E. and S. 32 on N. W. from which a cedar 14 ins. diam. bears N. 38° 50' E. 215 lbs. dist. marked T. 25 N. R. 6 W. S. 33 S.C. B.T. A cedar 8 ins. diam. bears N. 74° 12' W. 130 lbs. dist. marked T. 25 N. R. 6 W. S. 32 S.C. B.T. Land rolling. Dense cedars 80.00 chs. Soil, heavy adobe mixed with gravel. Surfaces covered with a good growth of grama grass. |
| | West on S. Bidy. sec. 32. |
| 23.60 | Ascending through dense cedars over rough ground. Top of ascent. Descend. |
| 25.50 | Descend abruptly about 300 ft. |
| 27.90 | Foot of steep descent. Leave cedars. |
| 29.65 | Arroyo, course S. 10° E. |
| 39.35 | Arroyo, course N. W. |
| 40.00 | Set Pin. iron post 26 ins. in ground for standard 1/4 sec. cor. marked S.C. 1/4 S. 32 on N.; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor. |
| 48.80 | Gulch, course S. 10° E. asc. steep slope |
| 55.00 | Enter dense cedars |
| 55.50 | Top of ascent. |

Sixth Standard Parallel North Through Range 6 West.

80.00 Set 3 in. iron post 24 ins. in ground for standard cor. to secs. 31^{and} 32 marked S.C. T. 25 N. R. 6 W. on N.; S. 32 on N.E. ^{and} S. 31 on N.W. from which a piñon 5 ins. diam. bears N. 58° 47' E. 18 lks. dist. marked T. 25 N. R. 6 E. S. 32 S.C. B. T.
 A piñon 14 ins. diam. bears N. 14° 54' W. 95 lks. dist. marked T. 25 N. R. 6 W. S. 31 S.C. B. T.
 Land rough, rocky ^{and} rolling.
 Dense cedars ^{and} piñons 52.90 lks.
 Soil a heavy dark adobe mixed with malpais gravel.

Oct. 18, 1910.

Oct. 19: At 8^h 00^m a.m. l.m.t. I set off 9° 47' S. on the decl. arc; 35° 30' N. on the lat. arc; ^{and} determine a meridian with the solar at the ^{standard} cor. of secs. 31^{and} 32; thence I run N. on the S. B. dip. sec. 31.
 Over rough; rolling land, through dense cedars ^{and} piñons.

1.50 Descend to draw
 4.00 Bottom of draw, course S. Leave cedars, asc.
 8.75 Top of ridge bears N. ^{and} S. Desc. steep slope.
 13.25 Foot of steep slope.
 19.40 Channel of draw, course S.E. asc.
 34.00 Top of ascent, Desc.
 40.00 Bottom of draw, course N.E.

Set 1 in. post-iron - 26 ins. in ground for standard 1/4 sec. cor. marked S.C. 1/4 S. 31 on N. from which a juniper 40 ins. diam. bears N. 10° 22' E. 262 lks. dist. marked S.C. 1/4 S. 31 B. T. - No other trees.

Asc. steep slope of ridge.

75.00 Top of high ridge, bears N. ^{and} S. Desc.

77.58 A juniper 36 ins. on line.

80.00 Set 3 in. iron post 24 ins. in ground for standard cor. to Tps. 25 N. R. 6 ^{and} 7 W. marked S.C. T. 25 N. on N.; R. 6 W. S 31 on N.E.; R. 7 W. S. 36 on N.W. from which a juniper 6 ins. diam. bears N. 30° 43' E. 154 lks. dist. marked S.C. T. 25 N. R. 6 W, S 31 B. T.

Sixth Standard Parallel North Through Range 6 West,

A juniper 20 ins. diam. bears N. 53° 35' W. 135
 lbs. dist. marked S. 25 N. R. 7 W. S. 36 S.C. B.T.
 Land rough ^{and} hilly.
 Soil rocky but nutritious being covered with
 a good growth of grama grass.

Sixth Standard Parallel N. Through Range 7 West,

West on the S. Bidj. sec. 36,
 Descending steep slope to gulch through scat-
 tering juniper

6.40 Bottom of gulch 400 ft. deep, course N.E. asc.
 40.00 Set 1 in. iron post 18 ins. in ground, ^{and} built a
 mound of stones around it - ground too rocky to
 admit it to proper depth - for standard 1/4 sec.
 cor. marked S.C. 1/4 S. 36 on N. from which
 A juniper 30 ins. diam. bears N. 43° 23' W.
 83 lbs. dist. marked S.C. 1/4 S. 36 B.T.
 Continue to ascend steep slope of cañon.

Oct. 19, 1910.

Oct. 20: At 8^h 00^m a.m. l.m.t. I set off 10° 08 1/2' S. on
 the decl. arc; 35° 30' N. on the lat. arc; ^{and} de-
 termining a meridian with the solar at the
 standard 1/4 sec. cor. on S. Bidj. ~~sec. cor. on S. Bidj.~~
 sec. 36. Thence I run
 W. on S. Bidj. sec. 36.

52.75 Top of ascent - Ridge bears N. 30° E. ^{and} S. 30° W. -
 Descend steep slope to cañon 300 ft. deep.
 62.75 Bottom of cañon, course N.E. Asc. steep slope.
 80.00 Set 3 in. iron post 24 ins. in ground for
 standard cor. to secs. 35 ^{and} 36 marked S.C.T.
 25 N. R. 7 W. on N.; S. 36 on N.E.; S. 35 on N.W.;
 dig pits 24 x 18 x 12 ins. crosswise on each line,
 E. ^{and} W. 3 ft., ^{and} N. of post 7 ft. dist.; ^{and} raise a
 mound of earth 4 ft. base, 2 ft. high, N. of cor.
 Land mountainous, Surface rocky, scattering juniper.
 Soil heavy adobe mixed with boulders.

Sixth Standard Parallel North Through Range 7 West.

| | |
|-------|--|
| | West on the S. Bidj. sec. 35. Ascending steep slope. |
| 22.00 | Top of ascent. |
| 23.50 | Descend abruptly to cañon 600 ft. deep. |
| 35.50 | Bottom of cañon, course N. 10° E. ascend precipitously. |
| 40.00 | Set 1 in. iron post 26 ins. in ground for standard 1/4 sec. cor. marked S.C. 1/4 S. 35' on N. from which A piñon branch 6 ins. diam. bears N. 10° 35' E. 73 lks. dist. marked S.C. 1/4 S. 35' B.T. |
| 45.70 | Top of bluff of cañon - a sharp hog-back - bears N. 10° E. ^{and} S. 10° W. Descend precipitously to Aubrey Valley over sandstone boulders ^{and} slate rock - white near top ^{and} red near foot. |
| 70.00 | Foot of precipitous descent 1000 ft. below top. Continue to descend. |
| 80.00 | Set 3 in. iron post 24 ins. in ground for standard cor. to secs. 34 ^{and} 35 marked S.C. 1/4 S. 25' N. on N.; S. 35' on N.E., ^{and} S. 34' on N.W.; dig pits 24x18x12 ins. crosswise on each line N.E. ^{and} N. of post 3 ft., ^{and} N. of post 7 ft. dist. ^{and} raise a mound of earth 4 ft. base, 2 ft. high N. of cor. Land mountainous; scattering junipers, piñons ^{and} cedars. Soil shallow, rocky ^{and} very poor. |
| | Oct. 20, 1910 |
| | Oct. 21: At 8 ^h 00 ^m a.m. l.m.t. I set off 10° 30' S. on the decl. arc; 35° 30' N. on the lat. arc; ^{and} determine a meridian with the solar at the standard cor. of secs. 34 ^{and} 35; |
| | Thence I run West on S. Bidj. sec. 34 Descending over rocky ground. |
| 35.00 | Foot of descent - continue over rolling ground in Aubrey Valley. |
| 38.10 | Road to Seligman bears N. ^{and} S. |
| 40.00 | Set 1 in iron post 26 ins. in ground for |

Sixth Standard Parallel North Through Range 7 West.

standard 1/4 sec. cor. marked S.C. 1/4 S. 34 on N.; dig pits 18x18x12 ins. east & west of post 3 ft. dist.; ^{and} raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

57.70 E. bank of arroyo 15 ft. deep, course S. 15° W.
58.80 N. bank " " proceed through dense brush ^{and} cactus.

80.00 Set 3 in. iron post 24 ins. in ground for standard cor. to secs. 33 ^{and} 34 marked S.C. T. 25 N. R. 7 W. on N.; S. 34 on N.E. ^{and} S. 33 on N.W. dig pits 24x18x12 ins. crosswise on each line, E. ^{and} W. 3 ft., ^{and} N. of post 7 ft. dist. ^{and} raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

Land rolling:
Soil; a yellowish sandy loam mixed with gravel to a depth of 12 inches, below which it is very hard ^{and} impervious to water; the color is caused by having been washed from the red sandstone bluffs to the east.

Dense brush 35 Chs. - Good grama grass 80.00 Chs.

40.00 Nest on the S. Bidy. sec. 33. Over rolling valley land, through dense cactus. Set 1 in. iron post 26 ins. in ground for standard 1/4 sec. cor. marked S.C. 1/4 S. 33. dig pits 18x18x12 ins. E. ^{and} W. of post 3 ft. dist.; ^{and} raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

45.00 Road to Seligman bears N. 40° W. ^{and} S. 40° E.
80.00 Set 3 in. iron post 24 ins. in ground for standard cor. to secs. 32 ^{and} 33 marked T. 25 N. R. 7 W. S.C. on N.; S. 33 on N.E.; ^{and} S. 32 on N.W. dig pits 24x18x12 ins. crosswise on each line, E. ^{and} W. 3 ft. ^{and} N. of post 7 ft. dist. ^{and} raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

Land rolling, Soil sandy loam; ^{and} dense cactus 80.00 Chs., Good grama grass 80.00 Chs.

Sixth Standard Parallel North Through Range 7 West.

31.97
40.00

West on S. Bidy. sec. 32.

Over rolling land.

Road bears N. 50° E. and S. 50° W.

Set 1 in. iron post 26 ins. in ground for standard and 1/4 sec. cor. marked S.C. 1/4 S. 32 on N.; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

62.00

Road bears N. W. and S. E.

80.00

Set 3 in. iron post 24 ins. in ground for standard cor. to secs. 31 and 32, marked S.C. T. 25 N. R. 7 W. on N.; S. 32 on N. E.; and S. 31 on N. W.; dig pits 24x18x12 ins. crosswise on each line, E. and W. of post 3 ft., and N. of post 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

Land rolling; Soil, a good quality of reddish sandy loam to a depth of 12 ins. below which it is extremely hard clay.

Good grama grass for 80.00 Che.

West on S. Bidy. sec. 31.

Over rolling ground. - Soil getting more sandy, mixed with gravel.

40.00

Set 1 in. iron post 26 ins. in ground for standard 1/4 sec. cor. marked S.C. 1/4 S. 31 on N. dig pits 18x18x12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

80.00

Set 3 in. iron post 24 ins. in ground for standard cor. to Tps. 25 N. Rs. 7 and 8 W. marked S.C. T. 25 N. on N.; R. 7 W. S. 31 on N. E.; and R. 8 W. S. 36 on N. W.; dig pits 30x24x12 ins. crosswise on each line, E. and W., 4 ft., and N. of post 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2 1/2 ft. high N. of cor. =

Land rolling, Soil a good quality of sandy

Sixth Standard Parallel North Through Range 7 West.

Loam mixed with lime gravel.
Surfaces covered with a good growth of grama grass.
Oct. 21, 1910.

Sixth Standard Parallel N. Through Range 8 West.

Oct. 22: At 8^h 05^m a.m. l.m.t. I set of 10° 51' S. on the decl. arc; 35° 30' N. on the lat. arc, and determine a meridian with the solar at the standard cor. of Tps. 25 N. R. 7^{and} 8 W., thence I run West on the S. Bdy. sec. 36

Over rolling land.

40.00 Set 1 in. iron post 26 ins. in ground for standard 1/4 sec. cor. marked S.C. 1/4 S. 36 on N.; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

80.00 Set 3 in. iron post 24 ins. in ground for standard cor. to secs. 35 and 36, marked S.C. T. 25 N. R. 8 W. on N.; S. 36 on NE and S. 35 on NW; dig pits 24x18x12 ins. crosswise on each line, E. and W. of post 3 ft., and N. of post 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

Land rolling. Soil at surface appears similar to fast mile but at 6 ins. in depth is very hard clay. A good growth of grama grass covers the surface.

West on S. Bdy. sec. 35.

Over rolling land.

40.00 Set 1 in. iron post 26 ins. in ground for standard 1/4 sec. cor. marked S.C. 1/4 S. 35; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist. and

Sixth Standard Parallel North Through Range 8 West.

80.00

raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 Set 3 in. iron post 24 ins. in ground for standard cor. to secs. 34 ^{and} 35, marked S.C. 5. 25 N. R. 8 W. on N.; S. 35 on N.E.; ^{and} S. 34 on N.W.; dig pits 24x18x12 ins. crosswise on each line, E. ^{and} W. of post 3 ft., ^{and} N. of post 7 ft. dist. ^{and} raise a mound of earth 4 ft. base, 2 ft. high N. of cor.
 Land rolling. Soil, a hard yellowish clay mixed with gravel. A good growth of grama grass

40.00

W. on the S. Bidy. sec. 34.

Over rolling ground

Set 1 in. iron post 26 ins. in ground for standard $\frac{1}{4}$ sec. cor. marked S.C. $\frac{1}{4}$ S. 34 on N.; dig pits 18x18x12 ins. E. ^{and} W. of post 3 ft. dist.; ^{and} raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.00

Set 3 in. iron post 24 ins. in ground for standard cor. to secs. 33 ^{and} 34, marked S.C. 5. 25 N. R. 8 W. on N.; S. 34 on N.E., ^{and} S. 33 on N.W.; dig pits 24x18x12 ins. crosswise on each line, E. ^{and} W., 3 ft.; ^{and} N. of post 7 ft. dist.; ^{and} raise a mound of earth 4 ft. base, 2 ft. high N. of cor.
 Land rolling, Soil, a stiff clay mixed with gravel. A good growth of grama grass covers the surface.

18.33

West on South Bidy. sec. 33

Over rolling land descending.

Road to Pica bears N. ^{and} S.

40.00

Set 1 in. iron post 26 ins. in ground for

Sixth Standard Parallel North Through Range 8 West.

standard $\frac{1}{4}$ sec. cor. mkd. S.C. $\frac{1}{4}$ S. 33 on N.;
 dig pits 18x18x12 ins. E. and W. of post 3 ft. dist.;
 raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high
 N. of cor.
 55.00 Foot of descent - Drainage to S. - Begin to
 asc. gentle slope W. side of Aubrey Valley.
 80.00 Set 3 in. iron post 24 ins. in ground for
 standard cor. to secs. 32 and 33, marked S.C.
 T. 25 N. R. 8 W. on N.; S. 33 on N.E.; and S. 32 on
 N.W.; dig pits 24x18x12 ins. crosswise on
 each line, E. and W. of post 3 ft.; and N. of post
 7 ft. dist. and raise a mound of earth 4 ft. base;
 2 ft. high N. of cor.
 Land rolling; Soil; a yellowish clay very
 hard below 12 ins.
 A good growth of grama grass covers the
 surface.

West on S. Bdy. sec. 32.
 Over rolling land ascending.
 40.00 Set 1 in. iron post 26 ins. in ground for
 standard $\frac{1}{4}$ sec. cor. marked S.C. $\frac{1}{4}$ S. 32 on N.;
 dig pits 18x18x12 ins. E. and W. of post 3 ft. dist.;
 and raise a mound of earth 3 $\frac{1}{2}$ ft. base; 1 $\frac{1}{2}$ ft.
 high N. of cor.
 70.00 Leave Aubrey Valley. Begin to asc. more
 abruptly over rocky ground, through dense brush.
 72.00 Enter scattering cedars
 80.00 Set 3 in. iron post 24 ins. in ground for
 standard cor. to secs. 31 and 32, mkd. S.C. T.
 25 N. R. 8 W. on N.; S. 32 on N.E.; and S. 31 on
 N.W.; dig pits 24x18x12 ins. crosswise on
 each line, E. and W. 3 ft. and N. of post, 7 ft. dist.;
 and raise a mound of earth 4 ft. base, 2 ft. high
 N. of cor. - A cedar 10 ins. diam. bears N. 58° E.
 181 lbs. dist. mkd. S.C. T. 25 N. R. 8 W. S. 32 B. S.
 Land rolling; Soil to a depth of 6 ins. sandy

Sixth Standard Parallel North Through Range 8 West.

loam mixed with lime gravel - sub soil very hard lime cement.
 Dense brush 10.00 Chs.; Scattering cedars 8.00 Chs.
 Oct. 22, 1910.

Oct. 24: At 8^h 00^m a.m. l.m.t. I set off $11^{\circ}33'30''$ S. on the decl. arc; $35^{\circ}30'$ N. on the lat. arc. ^{and} determine a meridian with the solar at the standard cor. of secs. 31 ^{and} 32, thence I run West on the S. Bdy. sec. 31

Ascending over rolling land through scattering cedars ^{and} dense brush.

8.00

Enter dense cedars.

40.00

Set 1 in. iron post 26 ins. in ground for standard $\frac{1}{4}$ sec. cor. marked S.C. $\frac{1}{4}$ S. 31 on N. from which a cedar 6 ins. diam. bears N. $62^{\circ}20'$ E. 85 lks. dist. marked S.C. $\frac{1}{4}$ S. 31 B.T.

49.65

Road bears N ^{and} S.

80.00

Set 3 in. iron post 24 ins. in ground for standard cor. of Tps. 25 N. Rs. 8 ^{and} 9 N. marked S.C. T. 25 N. on N.; R. 8 W. S. 31 on N.E.; R. 9 W. S. 36 on N.W. from which

A cedar 7 ins. diam. bears N. $73^{\circ}13'$ E. 115 lks. dist.; marked S.C. T. 25 N. R. 8 W. S. 31 B.T.

A cedar 9 ins. diam. bears N. $25^{\circ}16'$ W. 32 lks. dist. marked S.C. T. 25 N. R. 9 W. S. 36 B.T.

Land rolling ^{and} covered with a good growth of grama grass. Soil, a good quality of loam mixed with lime gravel.

Sixth Standard Parallel North Through Range 9 West.

West on the S. Bidy. sec. 36.
Over rough land ascending through very dense cedars ^{and} piñons.

38.25 Desc. to draw 50 ft. deep.

40.00 Set 1 in iron post 26 ins. in ground for standard $\frac{1}{4}$ sec. cor. marked S.C. $\frac{1}{4}$ S. 36 on N. from which a piñon 7 ins. diam. bears N. $38^{\circ} 35'$ W. 26 lks. dist. marked S.C. $\frac{1}{4}$ S. 36 B.T.

41.30 Bottom of draw, course S.E. asc. over rocky ground

60.00 Top of rise, desc.

65.00 Cedars become scattering.

80.00 Set 3 in. iron post 24 ins. in ground for standard cor. of secs. 35 ^{and} 36 marked S.C. S. 25 N. R. 9 W. on N. S. 36 on N.E.; ^{and} S. 35 on N.W. from which a piñon 7 ins. diam. bears N. $33^{\circ} 22'$ E. 185 lks. dist. marked S.C. S. 25 N. R. 9 W. S. 36 B.T.

No other trees available.

Land rough ^{and} hilly. Dense cedars ^{and} piñons 65 Cha. Soil rocky ^{and} shallow - subsoil hard lime that resembles burnt lime. Good growth of grama grass.

Oct. 24, 1910.

Oct. 25: At 8^h 00^m a.m. l.m.t. I set off $11^{\circ} 54\frac{1}{2}'$ S. on the decl. arc; $35^{\circ} 30'$ N. on the lat. arc. ^{and} determine a meridian with the solar at the standard cor. of secs. 35 ^{and} 36; thence I run

West on S. Bidy. sec. 35.

Over rolling land.

0.10 Road bears N. 22° W. ^{and} S. 22° E.

14.00 Begin to asc. steep slope - Enter dense cedars

16.20 Top of lime stone bluff 40 ft. high, bears NW. ^{and} S. E. Proceed over rough, rolling land.

40.00 Set 1 in. iron post 26 ins. in ground for standard $\frac{1}{4}$ sec. cor. marked S.C. $\frac{1}{4}$ S. 35 on N.; from which a cedar 20 ins. diam. bears N. $26^{\circ} 15'$ E. 168 lks. dist. marked S.C. $\frac{1}{4}$ S. 35 B.T.

dig pits 18x18x12 ins. E ^{and} W. of post 3 ft. dist ^{and} raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. N. of corner.

Sixth Standard Parallel North Through Range 9 West.

80.00 Set 3 in. iron post 24 ins. in ground for standard cor. of secs. 34 and 35 marked S.C.T. 25 N. R. 9 W. on N. S. 35 on N.E.; S. 34 on N.W. from which
 A cedar 6 ins. diam. bears N. $40^{\circ} 22'$ E. 41 lks. dist. marked T. 25 N. R. 9 W. S. 35 S.C. B.T.
 A cedar 8 ins. diam. bears N. $52^{\circ} 15'$ W. 47 lks. dist. marked T. 25 N. R. 9 W. S. 34 S.C. B.T.
 Land rough and hilly; Soil, a heavy clay mixed with lime gravel with hard lime subsoil. Good growth of grama grass. Dense cedars 66.00 Chs.

West on South Bdy. Sec. 34.
 Descending over rough rolling land through dense cedars and buck brush

35.00 Cedars become scattering.

40.00 Set 1 in. iron post 26 ins. in ground for standard $\frac{1}{4}$ sec. cor. marked S.C. $\frac{1}{4}$ S. 34 on N.; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor. Proceed through dense buck brush and high weeds.

80.00 Set 3 in. iron post 24 ins. in ground for standard cor. of secs. 33 and 34, marked S.C.T. 25 N. R. 9 W. on N. S. 34 on N.E.; and S. 33 on N.W.; dig pits 24x18x12 ins. crosswise on each line, E. and W., 3 ft., and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high N. of Cor.

Land rolling, Dense cedars 35.00 Chs.

Soil, a reddish clay mixed with lime gravel.

Oct. 25, 1910.

Oct. 26, 1910: At 8^h 00^m a.m. l.m.t. I set off $12^{\circ} 15'$ S. on the decl. arc; $35^{\circ} 30'$ N. on the lat. arc; and determine a meridian with the solar at the standard cor. of secs. 33 and 34.

Sixth Standard Parallel North Through Range 9 West.

Thence I run
West on the S. Bidy. sec. 33.
Over rolling ground through dense brush and
scattering cedars.
1.23 Intersect centre line Santa Pacific R.R. 193 ft.
S. 28° 25' E. of E. end of Bridge "B 454" = 2 Sec. poles
E. of mile 454.
3.48 Road, Nelson to Yampai. bears S. 28° 30' W. and S. 28° 30'
E. - Leave cedars.
15.00 Enter rough hills, asc.
40.00 Set 1 in. iron post 26 ins. in ground for standard
1/4 sec. cor. marked S.C. 1/4 S. 33 on N.; dig pits
18x18x12 ins. E. and W. of post 3 ft. dist. and raise a
mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
60.00 Enter scattering cedars
80.00 Set 3 in. iron post 24 ins. in ground for standard
cor. of secs. 32 and 33 marked S.C. T. 25 N. R. 9 W.
on N.; S. 33 on N.E.; and S. 32 on N.W. from which
A cedar 36 ins. diam. bears N. 53° 05' E. 226 lks.
dist. marked T. 25 N. R. 9 W. S. 33 S.C. B, T.
No other trees available.
Land rolling 55.00 Chs.; rough and hilly 25. Chs.
Soil heavy adobe mixed with lime gravel.
Scattering cedars 23.00 Chs.
A good growth of grama grass 80.00 Chs.

West on South Bidy. sec. 32.
Over rough, hilly land through scattering cedars
and dense brush, with few piñons.
5.00 Enter dense cedars
40.00 Set 1 in. iron post 26 ins. in ground for standard
1/4 sec. cor. marked S.C. 1/4 S. 32 on N., from which
A piñon 12 ins. diam. bears N. 67° 50' E. 103 lks.
dist. marked S.C. 1/4 S. 32 B. T.

Oct. 26, 1910

Sixth Standard Parallel North Through Range 9 West.

| | |
|-------|---|
| | <p>Oct. 27: At 7^h 50^m a.m. l.m.t. I set off 12° 36' S. ✓ on the decl. arc; 35° 30' N. on the lat. arc; and determine a meridian with the solar at the standard 1/4 sec. cor. on the S. Bdy. sec. 32; thence I continue W. on S. Bdy. sec. 32</p> <p>Gulch, course N. asc.</p> |
| 78.00 | |
| 80.00 | <p>Set 3 in. iron post 24 ins. in ground for standard cor. of secs. 31^{and} 32, marked S.C. T. 25 N. R. 9 W. on N. S. 32 on N.E.; ^{and} S. 31 on N.W.; from which</p> <p>A piñon 8 ins. diam. bears N. 29° 30' E. 5 lks. dist., marked T. 25 N. R. 9 W. S. 32 S.C. B. T.</p> <p>A piñon 6 ins. diam. bears N. 40° 25' W. 79 lks. dist., marked T. 25 N. R. 9 W. S. 31 S.C. B. T.</p> <p>Land rough, hilly ^{and} rocky. Dense cedars ^{and} piñons 75.00 lbs.; Soil shallow ^{and} rocky with a good growth of grama grass.</p> |
| | <p>West on S. Bdy. sec. 31.</p> <p>Ascending over rough, rocky land through dense cedars ^{and} piñons.</p> |
| 20.00 | <p>Enter large area of land denuded of timber, with several hundred large piles of cordwood in sight. Dense brush ^{and} tree tops cover the surface.</p> |
| 30.00 | <p>Top of ascent. Desc.</p> |
| 40.00 | <p>Set 1 in. iron post 18 ins. in ground - ground too rocky to admit post deeper within a reasonable distance - for standard 1/4 sec. cor. marked S.C. 1/4 S. 31 on N.; from which</p> <p>A cedar 18 ins. diam. bears N. 30° 02' W. 59 lks. dist. marked S.C. 1/4 S. 31 B. T. - Built large pile of rock ^{N. of post}</p> <p>Descend more abruptly to gulch</p> |
| 49.00 | <p>Bottom of gulch, 300 ft. deep, course N. W. asc.</p> |
| 55.50 | <p>Top of point of slope. Desc.</p> |
| 61.00 | <p>Bottom of draw, course N.E. asc. steep slope.</p> |
| 73.50 | <p>Top of high ridge bearing N. W. ^{and} S.E. Desc. over very rocky ground.</p> |
| 80.00 | <p>Set 3 in. iron post 16 ins. in ground on top</p> |

Sixth Standard Parallel North Through Range 9 West.

of lime bed rock - ^{and} built a large pile of lime rocks about post - for standard cor. of Tps. 25 N. R. 9 ^{and} 10 W. marked S. C. T. 25 N. on N. ; R. 9 W. S. 31 on N. E. ; ^{and} R. 10 W. S. 36 on N. W. ^{and} raise a mound of stone 5 ft. base, 4 ft. high N. of cor.

Land hilly ^{and} rough for E. 30.00 Chs. ; mountainous W. 50.00 Chs. ; Dense cedars ^{and} brush for E. 20.00 Chs. ; Scattering cedars ^{and} dense brush for W. 50 Chs. ; Soil very rocky ^{and} unfit for any purpose other than grazing. Lime bed rock frequently ^{out} cropping.

Oct. 27, 1910.

General Description

Through ranges 5 ^{and} 6 ^{and} for two miles in range 7 this line passes over rough hills ^{and} bluffs of malpais which are generally covered with dense cedars ^{and} pinions - the cedars predominating -

In sec. 35 R. 9 W. the line passes over a bluff of very hard red sandstone about 1200 feet high that marks the E. Bdy. of Aubrey Valley, ^{and} seems to be the dividing line between a sandstone formation ^{and} one of limestone. Aubrey Valley is about 11 miles wide ^{and} is gently rolling with a good quality of top soil ; the sub soil - below 12 ins. - is very hard compact clay. In the N. part of the valley about 1 1/2 miles N. of the line a well has been drilled to a depth of 350 ft. by John Munds which contains some water.

Aubrey Valley would be very fertile could water be obtained for irrigation ; ^{and} crops could be successfully raised in some seasons without irrigation.

Range 9 passes over rough hills of limestone which are covered with dense cedars ^{and} pinions.

The line crosses the Santa Fe Pacific R. R. near the E. line of sec. 33 of R. 9 W. There is no living water in the vicinity of the line ^{and} water was obtained for camp purposes from reservoirs constructed by stock men

W. J. Acor.
Transitman.

This is to certify that each ^{and every} mile of the survey of the Sixth Standard Parallel North through Ranges 5, 6, 7, 8 ^{and} 9 West was chained twice in compliance with paragraph 121 of the Manual.

W. J. Scott.
Transitman.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by W. O. Secor

- U.S. Transitman, ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Sixth Standard Parallel North through Ranges 5, 6, 7, 8 and 9 N. and the Second Guide Meridian N. showing the respective capacities in which they acted:
- Theodore Alden, Chainman.
- C. J. Schwartz, Chainman.
- Carl Barandon, ~~Chainman~~ Moundman.
- George Etz, Moundman.
- J. H. McCall, Chainman.
- Paul Dial, Axman.
- Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted W. O. Secor

Transitman, United States ~~Deputy Surveyor~~, in surveying all those parts or portions of the Sixth Standard Parallel North through Ranges 5-6-7-8 and 9, and the Second Guide W1 Meridian N. of the S. & S.R.

3 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

- Theodore Alden, Chainman.
- C. J. Schwartz, Chainman.
- George Etz, Moundman.
- Carl Barandon, ~~Chainman~~ Moundman.
- J. H. McCall, Chainman.
- Paul Dial, Axman.
- Flagman.

Subscribed and sworn to before me this Oct 28th day of October, 1910

W. O. Secor
Transitman



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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, W. O. Secor, Transitman, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for, bearing date of the day of, 19, 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 6th Standard Parallel North through Ranges 5, 6, 7, 8 and 9 West of the Gila and Salt River Base and Meridian

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.

W. O. Secor
United States Deputy Surveyor
Transitman

Subscribed by said W. O. Secor, and sworn to before me }
this 17th day of January, 1911

 my com. expires William Grant
Jan 16th 1915 Notary Public

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Mar. 15, 1911

The foregoing field notes of the survey of the Sixth Standard Parallel North through Rps 5, 6, 7, 8 + 9 West of the Gila and Salt River Base and Meridian

executed by W. O. Secor under his Group No. 7, dated August 25, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank 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.