

Book No. 1

See Index

FIELD NOTES

BOOK 1312

Retracing No. 1312

1312

The *Eastern* Lines of

Township *13 14 15 16 17 18*

Range *17 18 19 20 21 and 22 East*

Gila and Salt River Meridian, Arizona.

(A part of 3^d & 4th Stand Par. North.)

Henry Mearns Deputy Surveyor,

under his contract of *July 28th 1882*

Survey commenced *April 2nd 1883*

Survey completed *July 2nd 1883*

Platted by *No. 1312* BOOK 1312

..... 188

Copied for Washington by.....

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Copied for Register by.....

..... *Men*

at we will well and faithfully execu

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Retracing

S. Bdy T. 13 N; R.	17	E.	3rd Stand.	11			
			Par. N				
S.	"	"	14	"	"	21	✓ 12
E.	"	"	15	"	"	21	✓ 21
S.	"	"	16	"	"	22	✓ 31
E.	"	"	16	"	"	21	✓ 41
S.	"	"	17	"	"	20	✓ 4th Stand. 49
							Par. N
E.	"	"	17	"	"	19	✓ 56
E.	"	"	17	"	"	19	✓ 64
North	"	"	17	"	"	18	✓ 71
N	"	"	17	"	"		

Preliminary Oaths of Assistants.

I, G. W. Pearson, do solemnly

swear that I will well and truly perform the duties of compass-
man, according to instructions given me, and to the best of my

skill and ability, in the survey of the 4th Auxiliary Guide
Mendenhall West along W.B. Tps 13, 14, 15 & 16
of R 17 E; The 5th Auxiliary Guide West
along W.B. Tps 16 & R 21 E; and the retracing
Extension and subdivision lines of Tps 13, 14,
15 & 16 of R 17 E, Tps 14, 15, 16 & 17 of R 18 E,
Tps 15 & 17 of R 19 E, Tps 16 & R 20 E, Tps
14, 15 & 16 of R 21 E & Tps 15 of R 22 E G. & S. R. M.

G. W. Pearson, Compassman.

Subscribed and sworn to before me this 31st

day of March, 1883

A. E. Shoemaker

J. S. Commissioner, 3d Judicial District,
Arizona Territory.

We, Thos. Tawn, W. H. Newhall
and Wm. Jarvis, A. C. Meack,

do solemnly swear that we will well and faithfully execute the

duties of chain carriers; 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 distance to all notable objects, and the true length of all lines that we assist in measuring, to the best of our skill and ability, and in accordance

with instructions given us, in the survey of the 4th Auxiliary Guide Meridian West along N. B. Tps 13, 14, 15 + 16 N., R. 17 E. and the 5th Auxiliary Guide Mer. along N. B. Tps 16 N., R. 21 E. and the retracing Exterior and Subdivision lines of Tps 13, 14, 15 + 16 N., R. 17 E. Tps 14, 15 + 16 N., R. 18 E. Tps 15 + 17 N., R. 19 E. Tps 16 N., R. 20 E. Tps 14, 15 + 16 N., R. 21 E. T. 15 N. R. 22 E. S. + S. R.

Thomas Burr, Chainman.

W. H. Newhall, Chainman.

William J.arkin, Chainman.

A. C. Mack, Chainman.

Subscribed and sworn to before me this 31

day of March, 1883.

A. E. Shoemaker

Notary Commissioner, 3d Judicial District,
Arizona Territory.

W. H. Gray

and

do solemnly swear that ~~we~~ ^I will well and truly perform the duties of axemen, in the establishment of corners and other duties, according to instructions given ~~us~~ ^{and}, and to the best of ~~our~~ ^{my} skill and

ability, in the survey of the 4th Auxiliary Guide Meridian West along N. B. Sps. 13, 14, 15 & 16 N., R. 17^E; The 5th Auxiliary Guide Merid. along N. B. Sp. 16 N., R. 21^E, and the retracing, Exterior and Subdivision lines of Sps. 13, 14, 15 & 16 N., R. 17^E, Sps. 14, 15 & 16 N., R. 18^E, Sps. 15 & 17 N., R. 19^E, S. 16 N., R. 20^E, Sps. 14, 15 & 16 N., R. 21^E, & S. 15 N. R. 22^E. S. & R.

W. H. Gray, Axeman.

, Axeman.

Subscribed and sworn to before me this

31

day of

March

, 1883



A. S. Shoemaker

U. S. Commissioner, 183 Judicial District, Arizona Territory.

J. Geo Kopp

....., do solemnly swear
that I will well and truly perform the duties of flagman,
according to instructions given me, and to the best of

my skill and ability, in the survey of the 4th
Auxiliary Guide meridian West along N.B. Sps 13, 14, 15 + 16
N.R. 17E.; the 5th Auxiliary Guide Mer., along N.B. Sp.
16 N., R. 21E. and the stracing Exterior and subdivi-
ion lines of Sps 13, 14, 15 + 16 N., R. 17E. Sps 14, 15, 16 + 17 N.,
R. 18E., Sps 15 + 17 N., R. 19E., T. 16 N., R. 20E. Sps 14, 15, 16 +
R. 21E. + T. 15 N., R. 22 E. G. + S R

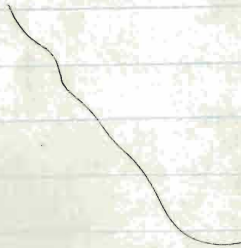
Geo Kopp. , Flagman.

Subscribed and sworn to before me this
day of March, 1883

31st

A. E. Shoemaker
U. S. Commissioner of Judicial District,
Arizona Territory.

Survey made with
Burt's improved Solar Compass
nearly new and in first rate
order made by Otto Fennell
of Basel Germany in 1881.
Carefully examined it and
in May 1882 compared it
with the instrument which
was adjusted and corrected
on the true meridian
at Tucson A. T. and found
it to be in perfect order
and adjustment. I further
tested the instrument by
reversing



BOOK 1812

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BOOK 1812

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S. boundary T. 13 N, R. 17 E, G. and S. R. M.

BOOK 1312

No. 1312

Chains

From the Standard Cor. to Tpo. 13 N,
R. 17 W 18 E, which is a sandstone
set firmly in the ground, marked S. C.
with 6 notches on N, E. & W. faces,
with pits N, E. & W. of stone, 6 ft.
dist., and a mound of earth in
good order alongside, I run

West on a random line on S. B. of sec. 16.
Va. 13° 45' East.

Descend.

85 Cross Creek, 20 lks. wide, course
N. 25° E. and ascend.

40.40 To a point 58 lks. North of old
Standard 14 sec. cor, which is a
limestone set firmly in the ground,
marked S. C. 14 on N. face, with
pits, which I raise, making them
18 x 18 x 12 in. E. & W. of stone, and
a mound of earth in good order
alongside; from which bears:
a Cedar, 3 in. dia, S. 29 1/2° W, 34 lks. dist.,

Retracing 3rd Standard line N., along

S. Boundary, T. 13 N., R. 17 E., E. $\frac{1}{2}$ S. R. M.

BOOK 1312

Chains.

marked S. E. $\frac{1}{4}$ S. B. U.

A Pine, 12 ins. dia., N. 68° W., 25 lks. dist.,

marked S. E. $\frac{1}{4}$ S. B. U.

The return course is therefore N. 89° 15' E.

St. 00 Top of Ridge, bears N. 30° W. $\frac{1}{2}$ S. descend.

St. 73 To a point 60 lks. N. of old Standard

cor. to sec. 35th & 36, which was a post
in earth mound and pits, nearly

destroyed. I obliterate all traces of old
corner and to reestablish same,

set a limestone 16x12x6 ins., 11 ins. in
the ground, marked S. E. with 1 notch
on E. $\frac{1}{2}$ S. 5 notches on W. faces, and 9

pits, making them 18x18x12 ins. and
mound alongside, making
it 2 ft. high, 4 $\frac{1}{2}$ ft. base.

The return course is therefore N. 89° 09' E.

Land mountainous.

Soil 2nd and 3rd red mtl.

Heavy timber of Pine, Cedar $\frac{1}{2}$ Juniper.

Undergrowth of same.

Retracing S. Standard line N, along

S. boundary T. 13 N., R. 17 E., E. and S. R.M.

BOOK 1312

Chains

West on a random line, on S. B. of sec. 35.
Ta. $13^{\circ} 45'$ East.

Descend.

.90 Cross drain, 18 lks. wide, course $N. 10^{\circ} E.$
and ascend.

40.20 To a point 18 lks. South of old Standard
 $\frac{1}{4}$ sec. cor., which is a limestone, set
firmly in the ground, marked S.C.
14 on N. face, with a stone mound
in good order, alongside.

The return course is therefore $S. 87^{\circ} 45' E.$

54.00 Top of Ridge, pass N. and ascend.

80.55 To a point 36 lks. N. of old Standard
cor. to secs. 34 and 35, which was a
post in earth mound and pits. The
post being greatly decayed and the
mound in bad condition, I destroy
old corner and to reestablish same,
set a post, 4 ft. long, 4 ins. square,
with marked stone, 12 ins. in the
ground, marked

S. boundary, T. 13 N., R. 17 E., G. and S. R. W.

BOOK 1312

Chains

S. E. T. 13 N., R. 17 E. on N.

S. 35 on E. and

S. 34 on W. faces, with 2 notches on E. and 4 notches on W. faces and raised a mound of earth, 2 ft. high, 4 1/2 ft. base, around post.

The return course is therefore $4.89^{\circ} 29' .6$

Land mountains

Soil 2nd and 3rd rate.

Heavy timber of Pine and Juniper.

Undergrowth of same.

West on a random line, on S. B. of sec. 34.

$74.13^{\circ} 45'$ East.

Descend.

2.00 Cross drain, 16 lks. wide, course

N. 20° E. and ascend.

26.00 Top of spur, bears N. 27° E. and descend.

40.50 To old Standard 1/4 sec. cor, which is a post, set firmly in the ground, marked S. E. 1/4 S. on N. face; from which bears:

S. boundary T. 13 N., R. 17 E., G. ^{and} S. R. M.

BOOK 1312

Chains

A Pine, 8 ins. dia, S. 16 1/2 W., 39 lks. dist,
marked S. C. 74 S. R. V.

A Cedar, 6 ins. dia, N. 63 1/2 W., 46 lks. dist,
marked S. C. 74 S. R. V.

46.00 Cross drain, 20 lks wide, course
Y. 27° E. and ascend.

58.50 Top of Spur, bear N. 30° E. and descend.

69.25 Cross drain, 18 lks wide, course
N. E. and ascend.

80.70 To a point 70 lks. North of old
Standard cor. to secs. 38 ^{and} 34,
which is a post set firmly in the
ground, marked
S. C. T. 13 N., R. 17 E. or N.

S. 34 or E. ^{and}

S. 33 on W. face, with 3 notches on
E. ^{and} W. faces, and pits and a
mound of earth in good order around
post; from which bears:

A Pine, 3 ins. dia, N. 68 1/2 W. E., 32 lks. dist,
marked T. 13 N., R. 17 E., S. 34 R. V.

S. boundary T. 13 N., R. 17 E., S. 33 B. 1.

BOOK 1312

Remains.

A Pine, 4 ins. dia, N. 52° W., 21 lks. dist,
marked T. 13 N., R. 17 E., S. 33 B. 1.

A Pine, 4 ins. dia, S. 107° W., 12 lks. dist,
marked T. 13 N., R. 17 E., S. 4 B. 1.

The return course is therefore N. 89° E.

Land mountainous.

Soil 2nd and 3rd rates.

Heavy timber of Pine and Cedar.

Undergrowth of same.

West on a random line, on S. B. of sec. 33.

Tr. 13° 45' East.

Ascend gradually.

12.00 Top of spur, bear N. 60° E. then descend.

27.00 Cross Wash, 20 lks. wide, course
N. 30° E. and ascend.

40.23 To a point 80 lks. N. of old Standard

1/4 sec. cor, which is a post, set
firmly in the ground, marked
S. E. 1/4 S. on N. face, with pits
E. and W. of post, 5 1/2 ft. dist., and a

S. boundary T. 13 N., R. 17 E., G. and S. R. M.

BOOK 1312

Chain

mound of earth, in good order,
around post; from which bears:

A Pine, 5 ins. dia., N. 35° E., 15 lks. dist,
marked S. C. 14 S. B. 7.

A Pine, 10 ins. dia., N. 66° W., 82 lks. dist,
marked S. C. 14 S. B. 7.

The return course is therefore N. 88° 51' E.

41.53 Top of Spur, bear N. 50° E. and descend.

57.80 Cross Wash, 19 lks. wide, course
N. 60° E. and ascend.

69.00 Top of Spur, bear N. 60° E. and descend.

80.68 To a point 12 lks. South of our
Standard cor. to sec. 32 and 33, which
is a post, set firmly in the ground,
marked S. C. T. 13 N., R. 17 E. on N.
S. 33 and E. 2° S. 32 on W. face, with
4 notches on E. 2° S. 2 notches on W.
face, with pits N., E. and W. of post,
5 1/2 ft. dist, and a mound of earth
in good order, around post.

The return course is therefore S. 89° 50' E.

Retracing Standard line, along

S. boundary T. 13 N., R. 17 E., G. and S. R. M.

BOOK 1312

Chamis

Land mountainous
Soils 2nd and 3rd rates.
Heavy timber of Pine and cedar.
Undergrowth of same.

West on a random line, on S. R. of sec. 32.
Cov. 13° 45' East

Descend.

8.00 Cross Wash, 20 lks. wide, course
N. 60° E. and ascend.

30.00 Top of Ridge, bears N. 43° E. and descend.

40.00 To a point 27 lks. N. of old Standard
1/4 sec. cor., which is a sandstone, set
firmly in the ground, marked S. C. 44
on N. face, with a stone mound in
good order, along side; from which cross:
A Pine, 4.5 ins. dia., N. 35° E., 23 lks. dist,
marked S. C. 44 S. R. V.
A Pine, 9 ins. dia., S. 7° W., 40 lks. dist,
marked S. C. 44 S. R. V.

The return course is therefore N. 89° 37' E.

S. boundary T. 13 N., R. 17 E., S. 32nd S. R. M.

BOOK 1312

Chains

52.80 Cross Wash, 25 lks. wide, course
N. 10° W. and ascend.

60.00 Top of spur, cross N. 2nd descend.

80.75 To a point 70 lks. N. of old Standard
cor. to sec. 31st and 32, which is a
limestone set firmly in the ground,
marked ^{S. 32} with 5 notches on E. 2nd 1
notch on W. faces, with a stone mound
in good order, along side, from which trans:

A Pine, 4 ins. dia., N. 55° E., 52 lks. dist,
marked T. 13 N., R. 17 E., S. 32 B. V.

A Pine, 10 ins. dia., N. 58° W., 30 lks. dist,
marked T. 13 N., R. 17 E., S. 31, B. V.

A Pine, 8 ins. dia., S. 17° E., 17 lks. dist,
marked T. 12 N., R. 17 E., S. 5 B. V.

The return course is therefore N. 89° E.

Land mountainous.

Soil 2nd and 3rd rate.

Heavy timber of Pine, Cedar and
Juniper and undergrowth of same.

S. boundary T. 13 N., R. 17 E., G. and S. R. M.

BOOK 1312

Chains

West on a random line, as S. B. of sec 31.

Crs. $13^{\circ} 45'$ East.

Descend.

11.50 Enter Valley, cross N. 10° E.15.30 Cross Wash, 11 lks. wide, course
N. 20° E. and ascend.24.65 Leave Valley, cross N. 20° E. and continue
to ascend.

31.00 Top of Spur, cross S. E. and descend.

37.30 Cross Wash, 16 lks. wide, course
S. 70° E. and ascend.40.02 To a point 50 lks. North of old
Standard '4 sec. cor, which is a
sandstone, set firmly in the ground,
marked O. C. '4 on N. face;
from which bears:A Pair, 6 mis. dir, N. 14° W, 22 lks. dist,
marked S. C. '4 S. B. J.The return course is therefore N. 89° 17' E.72.00 Top of Ridge, cross N. 10° W. and descend.

81.96 To a point 50 lks. North of old

S. boundary, J. 13 N., R. 17 E., S. 31 & S. R. 11

BOOK 1312

Claims

Standard cor. to Tps. 13 N., R. 16th & 17th E., which is a post set firmly in the ground, marked S. E. C. 13 N. or N.

R. 17 E., S. 31 or E. 3rd

R. 16 E., S. 36 on N. face, with 6 notches on N., E. & W. faces; with pits, N., E. & W. of post, 6 ft. dist, and a mound of earth, 2 1/2 ft. high, 5 ft. base, around post; from which bears:

a Pine, 8 ins. dia., N. 26° E., 29 lks. dist, marked J. 13 N., R. 17 E., S. 31 R. 1

a Pine, 10 ins. dia., N. 18° W., 58 lks. dist, marked J. 13 N., R. 16 E., S. 36 R. 1

a Pine, 10 ins. dia., S. 10° W., 17 lks. dist, marked J. 13 N., R. 16 E., S. 1 R. 1

The return course is therefore $789^{\circ}17'$.
Sand mountains

Soil 2nd and 3rd site.

Fecary timber of Pine & Juniper and undergrowth of same. April 3rd 1883.

S. boundary T. 14 N., R. 21 E., G. & S. R. M.

BOOK 1312

Chains.

Before proceeding with the retracing of this boundary, I made a change of 11 minutes in the latitude arc of my solar compass, by subtracting same from the reading previously given and at noon verified and corrected same, by observation on the sun. I also further tested instrument by running.

From the cor. to V. ps. 13th and 14th N.,
R. 21st and 22^d E., which is a post,
set firmly in the ground, marked
T. 14 N., S. 31 on N. E.

R. 22 E., S. 6 on S. E.

T. 13 N., S. 1 on S. W. ^{and}

R. 21 E., S. 36 on N. W. faces, with 6
notches on each edge, with pits
in each sec, N, S, E. & W. of post, 6 ft.
dist, and a mound of earth, in fact
order around post, I run

Chains

West on a random line, bet. secs. 1st & 36

W. $13^{\circ} 51'$ East.

Over high, rolling prairie.

27.00 Enter timber, bears N. ^{and} S.

34.00 Descend into Silver Creek Cañon.

37.87 Cross Silver Creek, 60 lks. wide, course
N., and leave cañon.

40.38 To a point 7 lks. North of old 14
sec. cor, which is a post, set firmly
in the ground, marked 14 S. on N. face,
with a stone mound alongside;

From which bears:

A juniper, 8 in. dia, S. $45^{\circ} E$, 17 lks. dist,
marked 14 S. B. I.

The return course is therefore N. $89^{\circ} 54' E$.

79.94 To a point 5 lks. South of old cor. to
secs. 1, 2, 35th & 36, which is a
a post set firmly in the ground, marked
T. 14 N., S. 36 on N. E.,

R. 21 E., S. 1 on S. E.

T. 13 N., S. 2 on S. W. ^{and} S. 35 on N. W. faces,

boundary T. 14 N., R. 21 E., G. and S. R. M.

chain

with 1 notch on E. ^{and} 5 notches
on W. faces; with pits in each
sec., $5\frac{1}{4}$ ft. dist., and a mound of
earth in good order around
post, from which bear:

A jumper, 6 ins. dia., N. $20^{\circ} W.$, 12 lks. dist.,
marked T. 14 N., R. 21 E., S. 35 B. S.

The return course is then for S. $89^{\circ} 56' E.$

Land rolling.

Soil 3rd rate.

Timber of Jumper.

Vegetation, bunchgrass.

West on a random line, bet. secs. 2nd and 30.

Var. $13^{\circ} 51' East.$

Ascend gradually.

3.51 Cross road, bear S. $30^{\circ} E.$ ^{and} over flat.

40.09 To a point 10 lks. South of old 74
sec. cor., which is a post set firmly in
the ground, marked 74 S. on N. face,
with pits E. ^{and} W., $5\frac{1}{4}$ ft. dist., and a

S. boundary T. 14 N., R. 21 E., E. ^{4th} S. R. M.

Chains

mound of earth, which I now set
making it $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base,
around post; from which bears:
a Juniper, 14 ins. dia, S. 30° W., 45 lks. dist,
unmarked 14 S. B. V.

The return course is therefore S. $89^{\circ} 51'$ E.

St. 21 Is a point 9 lks. North of old cor. to
secs. 2, 3, 34, ^{2nd} 35, which is a post,
set firmly in the ground, marked
T. 14 N., S. 35 on N. E.

R. 21 E., S. 21 on S. E.

T. 13 N., S. 3 on S. W. ^{2nd}

S. 34 on N. W. faces, with 2 notches on
E. ^{3rd} W. 4 notches on W. edges; with
pits in each sec, $5\frac{1}{2}$ ft. dist, and
a mound of earth, in good
order, around post.

The return course is therefore N. $89^{\circ} 52'$ E.

Land rolling. Soil 3rd rate.

Timber of Juniper.

Vegetation of bunchgrass.

S. boundary T. 14 N., R. 21 E., G. 2nd S. R. 1st W.

Chain

West on a random line bet. secs. 3rd & 34,
 Wa. $13^{\circ} 51'$ East.

Over rolling land.

40. 20 To old 14 sec. cor., which is a
 post set firmly in the ground, marked
 '48. on N. face, with pits E. & W.
 of post, $5\frac{1}{2}$ ft. dist, & a mound of
 earth in good order, around post.

80. 19 To a point 12 lks. N. of old cor. to sec.
 3, 4, 33rd & 34, which is a post, set
 firmly in the ground, marked
 T. 14 N., S. 34 on N. E.; R. 21 E., S. 3rd & E.;
 S. 13 N., S. 4 on S. W. & S. 33 on N. W.
 faces, with 3 notches on E. & W.
 edges; with pits in each sec.,
 $5\frac{1}{2}$ ft. dist, and a mound of
 earth, in good order, around post.

The return course is therefore N. 89 $^{\circ}$ 58' E.

Land rolling.

Soil 3rd rate.

Vegetation of bunchgrass.

S. boundary T. 14 N., R. 21 E., G. and S. R. M.

Chain

West on a random line, bet. secs. 4^{and} 33,
Ta. $130^{\circ}51'$ East.

Ascend gradually.

4.00 Foot of hill, trans N. ^{and} S. ^{and} ascend
abruptly.

13.50 Top of hill, trans N. ^{and} S. ^{and} descend

40.15 To a point 15 lks. North of old $\frac{1}{4}$ sec
cor, which is a post, set firmly in
the ground, marked $\frac{1}{4}$ c. on N. face,
with pits E. ^{and} W. of post, 5 $\frac{1}{2}$ ft
dist, and a mound of earth, in
good order, around post.

The return course is therefore $N. 89^{\circ}47' E.$

50.00 Cross low sag and ascend.

83.15 To a point 15 lks. South of old
cor. to secs. 4, 5, 32 ^{and} 33, which is
a post, set firmly in the ground, marked
T. 14 N., S. 33 on N. E.

R. 21 E., S. 4 on S. E.

T. 13 N., S. 5 on S. W. and

S. 32 on N. W. faces, with 4 notches

S. boundary T. 14 N., R. 21 E., G. and S. R. M.

Chains.

on E. and 2 notches on W. edges; with pits in each sec, 5' 1/2 ft. dist, and a mound of earth, in good order, around post.

The return course is therefore S. 89° 47' E.

Land rolling.

Soils 3rd rate,

Vegetation, bunchgrass.

West on a random line, bet. secs. 5th and 22nd.

Ca. 13° 51' East.

Over rolling land, through timber.

40.00 To a point 10 lks. North of old 1/4

sec. cor, which is a post set

firmly in the ground, marked 448

on N. face, with pits E. and W. of

post, 5' 1/2 ft. dist, and a mound

of earth, in good order, around post.

The return course is therefore N. 89° 51' E.

72.00 Bear timber, cross N. and S.

80.15 To a point 20 lks. South of old cor.

S. boundary T. 14 N., R. 21 E., G. and S. R. M.

Chawia

to sec. 5, 6, 31 and 32, which is a
pat, set firmly in the ground, marked
T. 14 N., S. 32 on N.E.

R. 21 E., S. 5 on S.E.

T. 13 N., S. 6 on S.W. and S. 31 on N.W.

fares, with 5 notches on E. and 1 notch
on W. edges, with pits in each sec.,
5th ft. dist, and a mound of
earth, in good order, around pat.

The return course is then for N. 89° 45' E.

Land rolling.

Soil 3rd rate.

Vegetation, bunch grass.

West on a random line bet. secs. 6 and 31,

Var. 13° 51' East.

Ascend gradually.

34.00 Top of spur, bear N. 30° E. and descend,

40.13 To a point 10 lks. South of old 1/4

sec. cor., which is a pat, set firmly

in the ground, marked 1/4 on N. face,

P. boundary T. 14 N., R. 21 E., E. ^{2nd} S. R. M.

Specimens

with pits E. ^{2nd} W. of post, 5 ¹/₂ ft. dist., and a mound of earth in good order, annual post.

The return course is therefore S 87° 51' E.

51.00 Enter timber, bears N. 41° E.

58.00 Cross low sag and ascend.

74.10 Top of Spur, bears N. 30° E. ^{2nd} descend.

80.13 To a point 13 lks. North of sea cor. to T. 13 ^{2nd} 14 N., R. 20 ^{2nd} 21 E., which is a post, set firmly in the ground, marked T. 14 N., S. 31 or N. E.

R. 21 E., S. 6 or S. E.; T. 13 N., S. 1 and S. W. ^{2nd} R. 20 E., S. 36 or N. W. faces, with 6 notches on each edge; with pits in each sec., N., S., E. ^{2nd} W. of post, 6 ft. dist., and a mound of earth in good order, annual post.

The return course is therefore N. 89° 49' E.

Land rolling ^{2nd} broken. Soil ^{2nd} ^{2nd} pits, Vegetation, bunchgrass.

E. W. Pearson, Compassman.

April 26th 1883.

E. boundary T. 15 N., R. 21 E., G. and S. R. M.

No. 1312

From the cor. to Tps. 14th and 15th N.,
R. 21st and 22nd E., previously described, by me
I run

Northward random line, bet. sec. 31st and 36th,
Ta. $13^{\circ} 51'$ East.

Over rolling land.

4.14 Descend gradually.

17.62 Enter Silver Creek Cañon, course
N. $22\frac{1}{2}^{\circ}$ E.

19.15 Cross Silver Creek, 23 lks. wide, course
N. $22\frac{1}{2}^{\circ}$ E.

25.00 Leave Silver Creek Cañon and ascend

40.20 To a point 90 lks. E. of old 14 sec.
cor., which I find in very bad order,
I destroy all traces of old cor., and
to reestablish same, set a post, 3ft.
long, 3 ins. square, with marked
stone, 12 ins. in the ground, marked
140. on N. face, dig pits 18 x 18 x 12 ins.
N. and S. of post, 5th ft. dist., and
raised a mound of earth, 1st ft.

E. boundary V. 15th U., R. 21st E., S. 1st S. R. M.

Coronis

begin, 3^{1/2} ft. base, around post.

The return course is therefore S. 1° 17' E.

59.00 Lean timber, bears N. 40° E. ^{or} S. 40° W.

60.00 Enter rolling prairie, bears N. E. ^{or} N. W.

80.15 To a point 97 lks. E. of sea cor. to

secs. 35, 30, 31 ^{or} 36, which I find

in bad condition. I destroy all traces

of old cor., and to reestablish same,

set a post, 4 ft. long, 4 ins. square,

with marked stone, 12 ins. in the ground,

marked V. 15th U., S. 30th as N. E.

R. 22nd E., S. 31st as S. E.

R. 21st E., S. 36th as S. W. ^{or} S. 25th as N. W.

faces, with 1 notch on S. ^{or} 5 notches

on N. edges; dug pits 18 x 18 x 12 ins.

in each sec., 5^{1/2} ft. dist., ^{or} raised

a mound of earth, 2 ft. high,

4^{1/2} ft. base, around post.

The return course is therefore S. 1° 28' E.

Land broken. Soil 3rd mte.

Timber of Juniper ^{and} undergrowth of same.

E. boundary T. 15 N., R. 21 E., G. W. S. R. M.

chain

N. $1^{\circ} 20' W.$ on a random line, bet. sec. 25th and 30.

Co. $13^{\circ} 49' East$

Descend.

27.00 Cross low sag and ascend.

35.00 To edge of Tableland, bear $N. 88^{\circ} E.$

40.10 To old '74 sec. cor., which I found in very poor condition. I destroyed all traces of it and to reestablish same, set a sandstone, $18 \times 15 \times 4$ ins., 12 ins. in the ground, marked '74 on W. face, dug pits $18 \times 18 \times 12$ ins. N. and S. of stone, 5th ft. dist., and raised a mound of earth, 1th ft. high, 3th ft. base, alongside.

65.00 Leave Tableland and descend.

68.00 Cross low sag, course $N. 38^{\circ} E.$

71.50 Ascend gradually.

80.20 To old cor. to sec. 19, 24, 25th and 30, which I find in a dilapidated condition. To reestablish same, I set a post, 4 ft. long, 4 ins. square,

E. boundary T. 15 N., R. 21 E., S. 30 and S. 31.

Observations

with marked stone, 12 ins. in the ground, marked

T. 15 N., S. 19 on N.E.

R. 22 E., S. 30 on S.E.

R. 21 E., S. 25 on S.W. ^{line}

S. 24 on N.W. face, with 2 notches on S. ^{line} 4 notches on N. edge; dug

pits 10 x 10 x 12 ins. in each side, 5 ft. dist, and raised a mound of earth, 2 ft. high, 4 1/2 ft. base around post.

I destroyed all traces of old combs.

Land rising

Soil 3rd rate.

Vegetation, bunch grass.

N. 1° 20' W., on a random line bet. sees 19th & 24th.

Var. 13° 49' East.

Ascend gradually.

2.50 Top of hill, bear N. 40° E. ^{line} descend

15.00 Cross low sag, course N. 40° E.

E. boundary V. 15 N., R. 21 E., G. and S. R. M.

Notes

20.00 Ascend Bluff, bears N. 40° E.

22.00 Top of Bluff, bears N. 41° E. and over rolling land.

24.00 Enter timber, bears N. 67° E. and S. 67° W.

26.00 Leave timber, bears N. 67° E. and S. 67° W.

40.00 To old 14 sec. cor., which I find in very poor condition, I destroy all traces of it and to reestablish same, set a sandstone, 18 x 12 x 4 ins., 12 ins. in the ground, for 14 sec. cor., marked 14 on N. face, dug pits 18 x 18 x 12 ins. N. and S. of stone, 5 1/2 ft. dist., and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base, alongside.

So. 19 To old cor. to secs. 18, 18, 19 and 24 which I find nearly obliterated. I destroy all traces of old cor. and to reestablish same, set a sandstone, 20 x 15 x 2 ins., 15 ins. in the ground, marked with 3 notches on N. and S. edges, dug pits

E. boundary T. 15 N., R. 21 E., S. 2nd S. R. M.

Albans

15 x 15 x 12 ins. in each sec, 5 1/4 ft.
dirt, and raised a mound of earth,
2 ft. high, 4 1/4 ft. base alongside.
Land rolling.

Soil 3rd and 3rd rates.

Timber of Juniper.

Vegetation, bunchgrasses.

N. 10° 20' W. on a random line, bet. secs. 13rd and 14th
Va. 18° 49' East.

Over rolling land.

33.00 Accretion gradually.

40.06 To old 1/4 sec. cor, which I find
nearly obliterated, I destroy all
traces of old corner and to re-establish
same, set a sandstone 14 x 4 x 4 ins.
9 ins. in the ground, marked 1/4 a
SW. face, dug pits 15 x 15 x 12 ins.
N. and S. of stone, 5 1/4 ft. dist, and
raised a mound of earth, 1 1/4 ft.
high, 3 1/4 ft. base, alongside.

E. boundary T. 15 N., R. 21 E., S. 1st S. R. M.

Chains

43.00 Top of S spur, traverse E. ^{2nd} W. ^{2nd} descend.

65.00 Cross low sag and ascend.

80.00 To old cor. to secs. 7, 12, 18 ^{2nd} 18,
which I find in poor condition, I
destroy all traces of it and to
rebuild same, set a sandstone,
12 x 12 x 6 ins., 8 ins. in the ground,
marked with 4 notches on S. ^{2nd}
2 notches on N. edges, dug pits
18 x 18 x 12 ins. in each sec., 5 ¹/₂ ft
dist, and raised a mound of
earth, 2 ft. high, 4 ¹/₂ ft. base,
along side.

Land mountains. ^{2nd} rolling.

Soil 3 rd rate

Vegetation, bunchgrass.

N. 1° 20' W. on a random line, bet. secs. 7 ^{2nd} 12.

Pa. 13° 49' East.

Ascend.

40.00 To old ¹/₄ sec. cor., which I find in

E. boundary T. 15 N., R. 21 E., S. 2nd S., R. M.

Colours.

very poor condition I destroyed
all traces of old cor. and to
retrieve same, set a sandstone,
15x8x8 ins, 12 ins in the ground, marked
1/4 on W. face, dug pits 15x8x12 ins
N. & S. of stone, 5 1/2 ft. dist, and
raised a mound of earth, 1 1/2 ft.
high, 3 1/2 ft. base, alongside.

60.00 Top of Spur, bears N. 47 1/2° E. 1/4 descent.

72.00 Cross low sag, course N. 29 1/2° E.

77.00 Ascend N. E. slope.

St. 43 To old cor. to secs. 1, 6, 7 & 12, which
I found in poor condition I destroyed
all traces of old cor, and to retrieve
same, set a sandstone, 12x12x5 ins,
8 ins. in the ground, marked with notches
and S. 1/4 notches on N. edges, dug pits
15x8x12 ins in each sec, 5 1/2 ft. dist, and
raised a mound of earth 2 ft. high, 4 1/2 ft. base alongside.
Sand rolling on mountains.
Soil 3rd rate. Vegetation, berrying mes.

E. boundary T. 15 N., R. 21 E., S. 1/4 S. R. M.

Claims

N. $1^{\circ}20'W$ on a random line, bet. sec. 1st & 6th,

No. 13 $^{\circ}49'$ East.

Ascend.

2.08 Top of Spur, bear N. E. ^{2nd} descend.

40.18 To old $1/4$ sec. cor., which I find in
very poor order. I destroy all
traces of old cor., and to rebuild
same, set a sandstone $12 \times 12 \times 6$ ins,
Pine in the ground, marked $1/4$ on
N. face, dug pits $18 \times 18 \times 12$ ins. N. ^{2nd}
S. of stone, $5\frac{1}{2}$ ft. dist., and raised
a mound of earth, $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base, alongside.

59.00 Turn low sag and ascend.

63.00 Top of Spur, bear N. $38^{\circ}E$. ^{2nd} descend.

69.00 Turn low sag, course N. $37\frac{1}{2}^{\circ}E$.

71.00 Ascend gradually.

80.00 To old cor. to Sp. 15th & 16 N.,
R. 21st & 22 E., which I find in
very poor condition. I destroy all
traces of old cor., and to rebuild same,

BOOK 1312
E. boundary V. 15 N., R. 21 E., G. 4th S. R. 21 W.

Chains

set a post, 4¹/₂ ft. long, 4 in. square,
with marked stone, 12 in. in the
ground, marked

V. 16 N., S. 31 on N. E.

R. 22 E., S. 6 on S. E.

V. 15 N., S. 1 on S. W. ^{2nd}

R. 21 E., S. 36 on N. W. Jones, with 6
notches on each edge; dug pits
24 x 18 x 12 in. lengthwise on each
line, N., S., E. & W. of post, 6 ft. apart.

and raised a mound of earth, 2¹/₂ ft.
high, 5 ft. base, around post.

Land mountains.

Did 3rd - note.

Vegetation, bunchgrass.

April 26th - 1883.

S. boundary T. 16 N., R. 22 E., S. 1st & S. R. M.

Chains

Before proceeding with the retracings of this boundary, I made a change of 5 minutes in the latitude arc of my solar compass. By adding same to the reading previously given and at noon, verified ^{and} corrected same, by observation on the sun. I also further tested instrument by wiring. From the cor. to Tps. 15th & 16 N., R. 21st & 22 E., just described. Run East on a random line, bet. secs. 6th & 31. Var. $13^{\circ} 57'$ East.

Descend.

- 7.00 Cross low Sag, course N. 38° E.
 8.00 Ascend.
 30.00 Top of hill, bear N. 34° E.
 31.15 Descend gradually.
 40.00 Failed to find any trace of old $\frac{1}{4}$ sec. cor.
 Set temporary $\frac{1}{4}$ sec. cor.
 44.00 Cross low Sag, course N. 54° E.

S. boundary T. 16 N., R. 22 E., G. and S. R. 14.

Chains.

- 45.00 Ascend.
- 47.00 Top of Spur, base N. E. ^{and} S. W. ^{and} descend.
- 57.00 Enter Flat base N. ^{and} S.
- 86.00 To a point 118 lks. South of old cor.
to secs. 5, 6, 31 ^{and} 32, which I find
nearly destroyed. I obliterate all
traces of old cor., ^{and} to renew same
set a sandstone 16x8x8 ins, 11 ins
in the ground, marked with 1 notch on
W. ^{and} 5 notches on E. edges, dug pits
18x18x12 ins. in each sec, 5 1/2 ft. dist,
and raised a mound of earth,
2 ft. high, 4 1/2 ft. base, along side;
thence I run
S. 89° 18' W. on a true line bet. secs. 6 ^{and} 31.
Thence 13° 49' East.
- 43.00 Set a sandstone, 16x12x6 ins, 11 ins
in the ground, for 1/4 sec. cor, marked
1/4 on N. face, dug pits 18x18x12 ins,
E. ^{and} W. of stone, 5 1/2 ft. dist, and
raised a mound of earth, 1 1/2 ft.

S. boundary T. 16 N., R. 22 E., G. & S. R. M.

Notes

High, 3 1/2 ft. base, along side.

86.00 The cor. to Tps. 15th and 16th, R. 21st and 22^d E.

Land mountainous and level.

Soil 3rd rate.

Vegetation, bunchgrass.

From the old cor. to secs. 5, 6, 31st and 32^d,
I continue this stracing, on an angle,
running

N. 89° 13' E. on a random line, bet. secs. 5th and 32^d,

to a 13° 49' East.

On level Flat.

27.00 Ascend gradually.

33.00 Enter timber, bear N. and S.

41.35 To old 1/4 sec. cor., which I find in
very poor order. I destroy all traces
of old cor., and to rebuild same,
set a sandstone, 20 x 20 x 4 ins., 10 ins. in
the ground, marked 74 on N. face, dug pits
18 x 18 x 12 ins. E. & W. of stone, 5 1/2 ft. dist, and
raised a mound of earth, 1 1/2 ft. high,

S. boundary T. 16 N., R. 22 E., G. and S. R. 111.

Stations

- 3¹/₂ ft. base, alongside.
- 44.15 Top of rise, bear N. ²/₃ S. ²/₃ and descend.
- 48.00 Cross low Sag and ascend.
- 51.00 Top of Spur, bear N. 37¹/₂° E. ²/₃ and descend
abrupt rocky slopes.
- 66.00 Enter Silver Creek Cañon, course N. 8¹/₂° E.
- 67.20 Cross Silver Creek, 30 fks. wide,
course N. 8¹/₂° E.
- 70.00 Leave Silver Creek Cañon and ascend.
- 82.70 To old cor. to secs. 4, 5, 32nd and 33, which
I found partially destroyed. I obliterate
all traces of old cor., and to replace same,
set a sandstone, 18 x 8 x 8 ins., 12 ins. in
the ground, marked with 2 notches
on W. ²/₃ and 4 notches on E. edges, dug
pits 18 x 18 x 12 ins. in each sec., 5 ft.
dist, and raised a mound of earth
2 ft. high, 4¹/₂ ft. base, alongside.
Sand mountains.
Dug 3rd rate.
Vegetation, bunchgrasses, clumps of juniper.

S. boundary T. 16 N., R. 22 E., G. & S. R. M.

Reclaims.

N. 59° 13' E. on a random line bet. secs. 4th & 33.

Wa. 13° 49' East.

Descend gradually.

40.92 To old 14 sec. cor., which I find in bad order. I destroy all traces of old corner and to reestablish same, set a sandstone, 12 x 12 x 6 ins, 8 ins. in the ground, marked 14 on N. face, dug pits 18 x 18 x 12 ins. E. & W. of stone, 5 1/2 ft. dist, and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base, along side.

45.40 Cross low Sag and ascend.

65.00 Top of Spur, bear N. 15° E. & descend.

82.20 To old cor. to secs. 3, 4, 33rd & 34, which I find partially destroyed. I obliterate all traces of old cor., and to reestablish same, set a sandstone, 18 x 6 x 6 ins, 12 ins. in the ground, marked with 3 notches on E. & W. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist, & raised

S. boundary T. 16 N., R. 22 E., Q. 4th S. R. M.

Obanis

a mound of earth, 2 ft. high, 4' high
base, alongside.

Land rolling.

Soil 3rd rate.

Vegetation, bunchgrasses.

N 89° 13' E. on a random line, bet. sec. 3rd and 3rd sec.
Cva. 13° 49' East.

Descend.

- 21.59 Cross road from Holbrook to
Snowflake, cross N. and S.
- 25.00 Cross low bog and ascend.
- 35.00 Top of spur, cross N. 10° W. & W. 10° E.
and descend.
- 41.10 To old 1/4 sec. cor, which I find in
bad condition. I destroy all traces
of old cor, and to replace same,
set a sandstone, 15 x 8 x 8 ins., 10 ins. in
the ground, marked 1/4 on N. face, and
set a 15 x 10 x 12 ins. E. & W. of stone, 5' high,
dirt, and raised a mound of earth

S. boundary T. 16 N., R. 22 E., G. and S. R. M.

Chamie.

1 $\frac{1}{2}$ ft. high, 3 $\frac{1}{2}$ ft. base, along side.

82.00 To old cor. to sec. 2, 3, 34th and 35,
 which I found nearly destroyed. I
 obliterate all traces of old corner,^{and}
 to rebuild same, set a sandstone
 15 x 10 x 8 ins., 10 ins. in the ground, ~~marked~~
 with 4 notches on W. ^{and} 2 notches
 on E. edges, dug pits 18 x 18 x 12 ins. in
 each sec., 5 $\frac{1}{2}$ ft. dist, ^{and} raised
 a mound of earth, 25 ft. high,
 4 $\frac{1}{2}$ ft. base, along side.

Land mountainous

Soil 3rd rate.

Vegetation, bunchgrass.

N. 87° 13' E. on a random line, bet. sec. 2nd and 35th

Var. 10° 49' East.

Descend.

8.00 Enter Flat, bear N. 21° W.

14.90 Cross road from Holbrook to
 St. John, bear N. 40° W.

S. boundary T. 16 N., R. 22 E., G. and S. R. M.

Chains

- 41.00 To old 1/4 sec. cor, which I find in very poor condition. I destroy all traces of old cor, and to rebuild same, set a post, 3 ft. long, 3 ins. square, with marked stone, 12 ins. in the ground, marked 1/4 S. on N. face, dug pits 18 x 18 x 12 ins. E. & W. of post, 5 1/2 ft. dist, and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base, around post.
- 64.05 ^{Little} Cross Colorado River, 33 fts. wide, course N. 20° W. & on our level land.
- 82.15 To old cor. to secs. 1, 2, 35 & 36, which I find nearly destroyed. I obliterate all traces of old cor, & to rebuild same, set a post, 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, marked T. 16 N., S. 36 on N. E. R. 22 E., S. 1 on S. E.; T. 15 N., S. 2 on S. W. & S. 35 on N. W. faces, with 5 notches on

S. boundary T. 16 N., R. 22 E., E. and S. R. M.

Excavations

W. and I noted on E. edges, dug pits
18x18x12 ins. in each sec, 54 ft.
dist, and raised a mound of
earth, 2 ft. high, 4" ft. base, around pit.

Land level.

Soil 3rd rate.

Vegetation, bunchgrass.

N. 89° 13' E. on a random line, bet. sec. 1st and 3rd,
Va. 13° 49' East.

Over level Flat.

- 31.17 Ascend steep Bluff, from N. and S.
33.00 Top of Bluff, from N. and S. and over same.
35.00 Descend abruptly.
37.00 Cross low Sag and ascend.
41.50 To old 1/4 sec. cor., which I find
in very poor condition. I destroy all
traces of old cor., and to rebuild same,
set a sandstone, 18x12x4 ins, 12 ins.
in the ground, marked 1/4 on N.
face, dug pits 18x18x12 ins. E.

S. boundary J. 16 N., R. 22 E., G. and S. R. M.

Chainis

and W. of stone, 5¹/₂ ft. diam, and raised a mound of earth, 1¹/₂ ft. high, 3¹/₂ ft. base, along side.

65.00 Top of Spur, near N. 40° E. ^{2nd} descend.

82.30 To old cor. to Ips. 15th and 16th N.,

R. 22nd and 23rd E., which is a sandstone marked with 6 notches on each edge, with a stone mound in good order, along side.

Sand here ^{2nd} rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

April 27th 1883.

E. boundary T. 16 N., R. 21 E., S. 1st and S. R. M.

Chains

From the cor. to Tpo. 15th and 16 N.,
R. 21st and 22 E., previously described by me
From

North on a random line, bet. secs. 31st and 36,
Cva. 13° 57' East.

Descend gradually,

20.00 Less low sag and ascend.

40.12 To a point 70 lks. East of sec 1st
sec. cor., which I find in bad order.
I destroy all traces of old cor., and
to replace same, set a sandstone,
15 x 12 x 6 ins., 10 ins. in the ground,
marked 1/4 as W. face, dug pits
18 x 18 x 12 ins. N. and S. of stone, 5 1/2 ft.
dist, and raised a mound of
1 1/2 ft. high 3 1/2 ft. base
each, alongside.

The return course is bearing S. 1° E.

80.20 To a point 93 lks. East of old cor.
to secs. 25, 30, 31st and 36, which is
a sandstone, set firmly in the
ground, marked with 1 notch on S.

Chain

and 5 notches on N. edges, with
pits in each sec., $5\frac{1}{2}$ ft. dist, and
a mound of earth alongside. I
nail pits, making them $18 \times 18 \times 12$ ins,
and mounds mound, to W. 2 ft.
high, $4\frac{1}{2}$ ft. base.

The return course is therefore $S. 1^{\circ} 20' E$.

Land rolling.

Soil 2nd rate.

Vegetation, bunchgrasses.

From this point, I trace the line
on an angle, running

$N. 1^{\circ} 10' W$, on a random line, bet. secs. 25 & 30.

$Cr. 13^{\circ} 57' East$.

Ascend.

40.09 To a point 5 lks. East of old $\frac{1}{4}$ sec.
cor, which is a sandstone, set firmly
in the ground, marked $\frac{1}{4}$ on W. face,
with pits N. and S. of stone, $5\frac{1}{2}$ ft. dist,
and a mound of earth in front

E. boundary T. 16 N., R. 21 E., S. 4th S.R.M.

Lebanon

condition, alongside.

The return course is therefore S. $1^{\circ}14'E$

73.00 Top of spur, bears N.E. 2° and S.W. 2° distant.

79.90 To a point 12 lks. West of old cor. to
secs. 19, 24, 25 2° and 30, which is a

sandstone, set firmly in the ground,

marked with 2 notches on S. 2° and

4 notches on N. edges, with pits

in each sec, 5 $\frac{1}{2}$ ft. dist., and a

row of earth, in good order,

alongside.

The return course is therefore S. $1^{\circ}E$.

Land mountainous

Soil 3rd rate.

Vegetation, bunchgrass.

N. $1^{\circ}10'W$. on a random line, bet. sec. 19 2° and 24,

Wa. 18 $^{\circ}57'$ East.

Over rolling land.

40.00 To old $\frac{1}{4}$ sec. cor., which I found

in bad condition. I destroy all traces

Lohanis.

of old cor., and to rebuild same,
 set a sandstone, $45 \times 10 \times 6$ ins., 10 ins.
 in the ground, marked 14 on W.
 face, dug pits $18 \times 15 \times 12$ ins. N. & S.
 of stone, $5\frac{1}{2}$ ft. dist., and raised
 a mound of earth, $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base, alongside.

The return course is therefore S. $10^{\circ} 10'$ E.

80, 08 To a point 10 lks. East of old cor. to

secs. 13, 18, 19 & 24, which is a
 sandstone, set firmly in the ground,
 marked with 3 notches on N. & S.
 edges, with pits in each sec.,
 $5\frac{1}{2}$ ft. dist., and a mound of
 earth, in good order, alongside.

The return course is therefore S. $10^{\circ} 19'$ E.

Land meeting.

Soil 3rd mt.

Vegetation, bunchgrass.

Chains

N. $1^{\circ} 10' W.$ on a random line, bet. sees. 13rd & 14th,

1/2 mi, $13^{\circ} 54'$ East.

Ascend gradually.

22.00 Top of Spur, bear E. $\frac{3}{4}$ W. $\frac{1}{2}$ mi descend.

40.13 To a point 7 lks. W. of old $\frac{1}{4}$ sec. cor.,
which is a sandstone, set firmly in
the ground, marked $\frac{1}{4}$ on W. face,
with pits N. $\frac{3}{4}$ S. of stone, $5\frac{1}{2}$ ft. dist,
and a mound of earth, in good
order, alongside, in low bog and ascend.

The return course is therefore S. $1^{\circ} 4' E.$

50.00 To a point 9 lks. E. of old cor. to sec.

7, 12, 13rd & 18th, which is a sandstone,
marked with 4 notches on E. $\frac{3}{4}$ S. 2 notches
on N. edges, with pits in each sec.,
 $5\frac{1}{2}$ ft. dist, and a mound of earth
in good order, alongside. The corner is
set as top of Spur, bear E. $\frac{3}{4}$ W.

The return course is therefore S. $1^{\circ} 18' E.$

Land mountainous. Soil 3rd rate

Vegetation, brushy grass.

Loham's

N. 10° W, on a random line bet. sec. 7 and 12
Co. 13° 57' East.

Descend.

39.55 To old 1/4 sec. cor., which is a post set firmly in the ground, marked 1405 on W. face, with pits N. and S. of post 50 ft. dist., and a mound of earth in good order, alongside.

The return course is therefore S. 10° 10' E.

58.00 Enter timber, bear N. W. and S. E.

80.08 To a point 11 lks. West of old cor. to sec. 1, 6, 7 and 12, which is a post set firmly in the ground, marked

V. 16 N., S. 6 on N. E.; R. 22 E., S. 7 on S. E.

R. 21 E., S. 12 on S. W. and S. 1 on N. W. faces with 5 notches on S. and 1 notch on N.

edges, and with a stone mound in good order, alongside.

The return course is therefore S. 10° 10' E.

Land meeting. Soil 3rd rate.

Vegetation, brushy grass. Timber of juniper.

E. boundary T. 16 N., R. 21 E., G. and S. R. M.

Cham

N. 10° 10' W. on a random line, bet. 2 sec. 1 and 6.

Val. 13° 57' East.

Descend gradually,

4.00 Cross low bog and ascend.

11.30 Top of rocky knoll, base E. and W.

and descend.

40.10 To a point 6 lks. East of old 1/4

sec. cor., which is a sandstone set

firmly in the ground, marked 1/4

on W. face, with pits N. and S. of

stone, 5 1/2 ft. dist., and a mound

of earth, in good order, along side.

The return course is then for S. 1° 15' E.

79.88 To a point 12 lks. W. of old clearing

cor. to Tps. 16 N., R. 21 and 22 E.,

which is a sandstone set firmly

in the ground, marked C. C. with

6 notches on S. E. and W. edges,

with pits S., E. and W. of stone, 6 ft.

dist., and a mound of earth,

in good order, along side.

E. boundary T. 16 N., R. 21 E., S. and S. R. M.

Chavis

The return course is therefore S. 1° E.

Land rolling.

Soil good etc.

Vegetation, bunchgrass.

I carefully examined the adjustments
of my solar compass today,
particularly the latitude and
sinking apparatus and found
them correct.

April 29th 1883.

4th Standard Parallel N, along
S. boundary, 7/17 N. R. 20 E., T. 4th S. R. 11.

Before proceeding with the retracing of
this boundary, I made a change of
5 minutes in the latitude arc of my
solar compass, by adding same to
the reading previously given and at
noon verified and corrected same
by observation on the sun. I also
further tested instrument by
morning. I took the latitude and
found it to be $34^{\circ} 47'$ North.

From the Standard Cor. to Tps. 17 N., R.
20th E. 21st E., previously described, ^{by me} I run
West on a random line, as S. boundary sec. 36.

Ca, $14^{\circ} 20'$ East.

Ascend gradually.

40.16 To a point 11 cks. North of old Standard
14 sec. cor., which is a post, set
firmly in the ground, marked S. C. 14 S.
on N. face, with pits C. ⁱⁿ W. of post,
5¹/₂ ft. dist, ⁱⁿ a mound of earth, in
good order around post.

Chambers

The return course is therefore $N. 89^{\circ} 51' E.$

St. 60 To a point 17 lks. North of old Standard
cor. to secs. 35th & 36, which is a
sandstone, set firmly in the ground,
marked S. C. with 1 notch on E. ^{and} 5
notches on W. edges, with pits N., E. & W.
of stone, 5 ft. dist., and a mound of
earth in good order, along side.

The return course is therefore $N. 89^{\circ} 45' E.$

Land rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

Went on a random line, as S. boundary of sec. 35.

Var. $14^{\circ} 10' East.$

Ascend. gradually.

40.18 To a point 25 lks. North of old Standard
cor. to secs. 34 & 35, which is a post set
firmly in the ground, marked S. C. 148 on
N. face, with pits E. ^{and} W. of post, 5 ft. dist.,
and a mound of earth in good order,

S. boundary of 17 N., R. 20 E., G. and S. R. M.

Colours

around post.

The return course is therefore N. 89° 39' E.

80.70 To a point 16 lks. North of old Standard cor. to Secs. 34 and 35, which is a post, set firmly in the ground, marked S. 6. R. 20 E. T. 17 N. on N.

S. 35 on E. and S. 34 on W. faces, with 2 notches on E. and 4 notches on W. faces, with pits N., E. and W. of post, 5" ft. dist, and a mound of earth, in good order, around post.

The return course is therefore N. 89° 46' E.

Land rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

X

Westward course line, on S. boundary of sec. 34, Var. 15° 00' East.

Ascend.

30.16 Top of Spur, bears N. 8° E. and descend.

40.28 To a point 14 lks. N. of old Standard 1/4

Standard Parallel N, along
S. boundary of 17 N., R. 20 E., T. 2 S. R. M.

Lohman's

sec. cor., which is a sandstone, set
firmly in the ground, marked S. C. 14
on N. face, with a stone mound in
good order, along side.

The return course is therefore $N. 89^{\circ} 48' E.$

44.11 Cross Wash, 70 lks. wide, course
 $N. 11^{\circ} E.$ and ascend.

80. 49 To a point 18 lks. North of old Standard
cor. to secs. 33 and 34, which is a sand-
stone, set firmly in the ground, marked
S. C. with 3 notches on E. and W. edges,
with pits N., E. and W. of stand, 5 ft.
dial, and a mound of earth, in
good order, along side.

The return course is therefore $N. 89^{\circ} 48' E.$

Land mountainous.

Soil 3rd rate.

Vegetation, bunchgrass.

4th Standard Parallel N., along
S. boundary T. 17 N., R. 20 E., S. 1st & S. R. M.

Colomb

Went on a random line, on S. boundary sec. 33.

Ca. $14^{\circ} 30'$ East.

Ascend.

410.09 To a point 25-cks. N. of old Standard 74
sec. cor, which is a post, set firmly in
the ground, marked S. E. 74-8. on N. face,
with pits E. ^{and} W. of post, $5\frac{1}{2}$ ft. dist, ^{and}
a mound of earth, in good order,
around post.

The return course is therefore N. $89^{\circ} 39'$ E.

50.39 Top of Ridge, cross N. ^{and} S. ^{and} descend

82.17 To a point 15-cks. North of old Standard
cor. to secs. 32 ^{and} 33, which is a sand-
stone, set firmly in the ground, marked S. E.
with 4 notches on E. ^{and} 2 notches on
W. edges, with pits N. E. ^{and} W. of stone, $5\frac{1}{2}$ ft.
dist, ^{and} a mound of earth, in
good order, alongside.

The return course is therefore N. $89^{\circ} 47'$ E.

Land mountains. Soil 3rd rate.

Vegetation, bunch grass.

Lohamis

West on a random line, on S. boundary of sec. 32.

Var. $14^{\circ}25'$ East.

Descend.

19.31 Cross Wash, 20 lks. wide, course

N. 13° E. ^{2nd} ascend.

40.40 To a point 14 lks. N. of old Standard 1/4

sec. cor., which is a sandstone, set
firmly in the ground, marked A. C. 14
on N. face, with pits E. & W. of stone
5 ft. dist, and a mound of earth,
in grass, alongside.

The return course is therefore N. $89^{\circ}48'$ E.

Pb. 55 To a point 12 lks. North of old Standard

cor. to sec. 31 ^{2nd} & 32, which is a post, set
firmly in the ground, marked

A. C. T. 17 N., R. 20 E. on N.; S. 32 on E. ^{2nd}

S. 31 on W. faces, with 5 notches on E. ^{2nd} / notch
on W. faces, with pits N., E. & W. of post, 5 ft.
dist, ^{2nd} & a mound of earth, around post.

The return course is therefore N. $89^{\circ}50'$ E.

Land rolling. Soil 3rd rate.

Vegetation, bunchgrass.

400 Standard Pamela M., along
S. boundary T. 17 N., R. 20 E., E. 1/4 of S. R. M.

Claims

Westward random line, on S. boundary of sec. 31.

Gr. $15^{\circ}00'$ East

Over level land.

40.15 To a point 17 lks. North of old Standard
1/4 sec. cor., which is a post, set firmly in
the ground, marked S. E. 1/4 on N. face, with
pits E. & W. of post, 5 ft. dist, and a
mound of earth, in good order, around post.
The return course is therefore $N. 89^{\circ}45' E.$

78.12 To a point 10 lks. North of old Standard
cor. to Tpo. 17 N., R. 19th 20 E., which
is a post, set firmly in the ground, marked
S. E. T. 17 N. on N.; R. 20 E., S. 31 on E.
and R. 19 E., S. 36 on W. faces, with 6
notches on N., E. & W. faces; with pits
N., E. & W. of post, 6 ft. dist, and a
mound of earth, in good order, around post.
The return course is therefore $N. 89^{\circ}51' E.$

Land level. Soil 3rd rate.

Vegetation, bunchgrass.

June 11th 1883.

E. boundary T. 17 N., R. 19 E., G. W. S. R. M.

Chains.

From the Standard Cor. to Tpo. 17 N.,
R. 19th & 20 E., previously described by me

From

North on a random line, bet. sec. 31st & 36,
Ya. 14° 00' East

Descend.

1 5.16 Cross Wash, 15 lks wide course
N. 30° E. and ascend.

40.00 To a point 10 lks. E. of old 4th sec. cor.,
which is a post, set firmly in the ground
marked 44 S. on W. face, with pits
N. and S. of post, 5th ft. dist., and
a mound of earth, as given order
around post.

The return course is therefore S. 7° E.

53.16 Top of hill and descend.

80.00 To a point 28 lks. E. of old cor. to
sec. 25, 30, 31st & 36, which is a post,
set firmly in the ground marked
T. 17 N., S. 30 on N. E.; R. 20 E., S. 31 on S. E.;
R. 19 E., S. 36 on S. W. E. S. 25 on N. W. face,

E. boundary S. 17 N., R. 19 E., G. and S. R. M.

Chain

with 1 notch on S. ^{2nd} 5 notches on N. edges, with pits in each sec., 5 ft. dist., and a mound of earth in good order, around post.

The return course is therefore S. 24 E.

Land rolling.

Soil 3rd rate.

Vegetation bunchgrass.

North on a random line, bet. secs. 25 & 30.

Ya. 130 3.2' East.

Descend.

40.00 To a point 38 lks. E. of old 1/4 sec cor, which is a banastaw, set firmly in the ground, marked 1/4 on W. face, with a stone mound, in good order, alongside.

The return course is therefore S. 30 E.

80.00 To a point 39 lks. East of old cor to sec. 19, 24, 25 & 30, which is a post, set firmly in the ground, marked S. 17 N., S. 19 on N. E.; R. 20 E., S. 30 and S. E.

E. boundary T. 17 N., R. 19 E., E. 1/4 S. R. M.

Chanis

R. 19 E., S. 25 on S. W. 1/4 S. 24 on N. W. face,
with 3 notches on S. 1/4 and 4 notches on
N. edges, with pits in each sec, 5 ft.
dist, and a mound of earth, in
good order around post.

The return course is therefore S. 33° E.
Land rolling.

Soil 3rd into.

Vegetation, bunchgrass.

North on a random line, bet Secs. 19th and 24th
Ta. 13° 31' East.

Descend.

40.00 To a point 37 lks. E. of old 14 sec. cor,
which is a sandstone set firmly in
the ground, marked 14 on W. face, with
pits N. and S. of stone, 5th ft. dist, and
a mound of earth, in good order
along side.

The return course is therefore S. 32° E.

50.00 To a point 49 lks. E. of old cor. to sec.

Retracing
E. boundary T. 17 N., R. 19 E., G. 2nd S. R. M.

Chassis

13, 18, 19th & 24, which is a post set
firmly in the ground, marked

T. 17 N., S. 18 on N. E.

R. 20 E., S. 17 on S. E.

R. 19 E., S. 24 on S. W. 2nd

S. 18 on N. W. faces, with 3 notches on
N. 2nd S. edges, with pits in each
sec., 5th ft. dist., and a mound of
earth, in good order, around post.

The return course is therefore S. 42° E

Land rolling.

Soil 2nd & 3rd rate.

Vegetation, bunchgrass.

North on a random line, bet. secs. 13th & 14

Gr. 13° 31' East.

Descend gradually.

40.25 To a point 19 lks. East of old 14
sec. cor., which is a sandstone set
firmly in the ground, marked "14"
on W. face, with pits N. 2nd S. of

E. boundary T. 17 N., R. 19 E., S. 1st S. R. M.

Quarries

stone, 5 1/2 ft. dist., and a mound of earth, in good order, alongside. The return course is therefore S. 16° E.

PO. 34

Is a point 35 lks. East of sec. 7, 12, 13rd & 18, which is a post, set firmly in the ground, marked T. 17 N., S. 7th or N. E.

R. 20 E., S. 18th or S. E.

R. 19 E., S. 18th or S. W. ^{or} S. 12th or N. W.

faces, with 4 notches on S. ^{side} & 2 notches on N. edges, with pits in each sec., 5 1/2 ft. dist., and a mound of earth, in good order, around post.

The return course is therefore S. 30° E.

Land rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

North as a random line, bet. sec. 7th & 12th.

At a 13° 31' East.

Descent gradually.

E. boundary T. 17 N., R. 19 E., S. 1 S. R. M.

Claims

40.00 To a point 26 lks. East of sec. 14
sec. cor., which is a post, set firmly
in the ground, marked 1/4 S. on W.
face, with pits N. and S. of post,
5 ft. dist., and a mound of
earth, in good order, around post.
The return course is therefore S. 22° E.

80.00 To a point 19 lks. East of old cor. to
secs. 1, 6, 7th or 12, which is a post, set
firmly in the ground, marked
T. 17 N., S. 6 on N. E.
R. 20 E., S. 7 on S. E.
R. 19 E., S. 12 on S. W. and S. 1 on N. W. face,
with 5 notches on S. and 1 notch on
N. edges, with pits in each sec.,
5 ft. dist., and a mound of earth
in good order, around post.
The return course is therefore S. 16° E.
Land rolls.

Soil 3rd rate.

Vegetation, bunchgrass.

E. boundary T. 17 N., R. 19 E., S. 31 and S. R. 20.

Chain.

North on a random line, bet. secs 1 and 6

Wa. $13^{\circ} 31'$ East.

Descend gradually.

43.50 To a point 37 lks. East of sec 14
sec. cor., which is a post, set
firmly in the ground, marked 140.
on W. face, with pits N. end of
post, 5 1/2 ft. dist., and a mound
of earth in good order around post.
The return course is therefore S. 32 E.

83.39 Cross road, bears N. 80 W. and S. 85 E.

84.00 To a point 48 lks. East of corner
to Tps. 17 and 18 N., Rs. 19 and 20 E.,
which is a post, set firmly in
the ground, marked
T. 18 N., S. 31 and N. E.

R. 20 E., S. 6 and S. E.

T. 17 N., S. 1 and S. W. and

R. 19 E., S. 36 on N. W. faces, with
6 notches on each edge; with
pits lengthwise on each line,

E. boundary T. 17 N., R. 19 E., S. 41' E. S. R. M.

Notes

N., S., E. & W. of post, 6 ft. dist, and
a mound of earth, in good
order, around post.

The return course is therefore S. 41' E.

Land rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

I carefully examined the adjustments
of my solar compass today,
particularly the latitude and
meridian apparatus and
found them correct.

June 12th 1888.

67 BOO.
N. boundary T. 17 N., R. 19 E., G. & S. R. M.

Chains.

Before proceeding further with the retracing of the exterior of this township, I made a change of 5 minutes in the latitude arc of my solar compass, by adding same to the reading previously given and at noon verified and corrected same, by observation on the sun. I also further tested instrument by reversing. I took the latitude ^{as found it to be} $34^{\circ} 52' N$.
From the cor. to Tps. 17th and 18th N.,

Rs. 19th and 20th E., previously described, by a

Iron

West and random line, bet. sec. 1st and 36th

Sta. $13^{\circ} 31'$ East.

Over rolling land.

.75 Cross road, bears N. $55^{\circ} W$.

40.00 To a point 14 lks. North of sec 14
sec. cor., which is a post, set firmly
in the ground, marked N. S. on N.

N. boundary T. 17 N., R. 19 E., E. and S. R. M.

Census

face, with pits E. $\frac{1}{2}$ W. of post,
5 $\frac{1}{2}$ ft. dist., and a mound of earth,
in good order, around post.

The return course is therefore $N. 89^{\circ} 46' E.$

80.00 To a point 18 lks. North of old cor.,
to sec. 1, 2, 35 $\frac{1}{2}$ W 36, which is a
post, set firmly in the ground, marked
T. 18 N., S. 36 and N. E.

R. 19 E., S. 1 or S. E.

T. 17 N., S. 2 or S. W. $\frac{1}{2}$

S. 35 or N. W. faces, with 1 notch on
E. $\frac{1}{2}$ 5 notches on W. edges, with
pits in each sec., 5 $\frac{1}{2}$ ft. dist.,
and a mound of earth, in
good order, around post.

The return course is therefore $N. 89^{\circ} 46' E.$

Land rolling.

Soil 3rd mts.

Vegetation, bunchgrass.

N. boundary T. 17 N., R. 19 E., G. S. R. M.

Chain

West end random line bet. secs. 2nd & 3rd.

Wa. $13^{\circ} 40'$ East.

Over rolling lands.

40.00 To a point 29 lks. North of old $\frac{1}{4}$ sec. cor., which is a post, set firmly in the ground, marked $\frac{1}{4}$ c. s. on N. face, with pits E. & W. of post $5\frac{1}{2}$ ft. dist, and a mound of earth in good order around post.

The return course is therefore $N. 87^{\circ} 36'$ E.

80.31 To a point 44 lks. North of old cor. to secs. 2, 3, 34th & 35, which is a sandstone, set firmly in the ground & marked with 2 notches on E. & 4 notches on W. edges, with pits in each sec, $5\frac{1}{2}$ ft. dist, and a mound of earth, in good order, along same.

The return course is therefore $N. 89^{\circ} 22'$ E.

Land rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

BOOK 1312 61
N. boundary T. 17 N., R. 19 E., S. 3rd S. R. W.

Lebanon

Westava random line, bet. secs. 3rd & 34,

Var. $14^{\circ} 00'$ East

Over level land.

H.C. 10 To a point 35 lks. North of sec
14 sec. cor., which is a post, set
firmly in the ground, marked 1st
on N. face, with pits E. ^{and} W. of
post, 5¹/₂ ft. dist., and a mound of
earth, in good order, around post.

The return course is therefore $N. 89^{\circ} 00' E.$

S.D. 61 To a point 55 lks. N. of sec cor. to sec.
3, 4, 33rd & 34, which is a post, set
firmly in the ground, marked
T. 18 N., S. 24 on N.E.; R. 19 E., S. 3 on S.E.;
T. 17 N., S. 4 on S.W. ^{and} S. 33 on N.W. faces,
with 3 notches on E. ^{and} W. edges, with
pits in each sec., 5¹/₂ ft. dist., and a
mound of earth, in good order, around post.

The return course is therefore $N. 89^{\circ} 13' E.$

Land selling. Soil 3rd rate.

Vegetation, bunch grass.

N. boundary, T. 17 N., R. 19 E., G. and S. R. M.

Lebanon

West on a random line, bet. secs. 4th & 33

Var. $13^{\circ} 45'$ East.

Over rolling land.

22, 13 Cross Wash, 16 lks. wide, course $N. 87^{\circ} E$ & across.

40, 19 To a point 41 lks. North of old 1st sec. cor, which is a post, set firmly in the ground, marked 1/4 S. on N. face, with pits E. & W. of post, 5¹/₂ ft. dist, and a mound of earth, in good order around post.

The return course is therefore $N. 89^{\circ} 20' E$.

80, 46 To a point 47 lks. North of old cor. to secs. 4, 5, 32nd & 33, which is a post,

set firmly in the ground, marked

T. 18 N., S. 33 on N. E.; R. 19 E., S. 4 on S. E.

T. 17 N., S. 5 on S. W. & S. 33 on N. W. face,

with 4 notches on E. & 2 notches on W.

Edges, with pits in each sec., 5¹/₂ ft. dist,

and a mound of earth, in good order, around post.

The return course is therefore $N. 89^{\circ} 20' E$.

Land rolling. Soil 3rd rate.

Vegetation, bunch grass.

Revised, BOOK 1312 67
N boundary T. 17 N., R. 19 E., G. & V. R. M.

Colours

West on a random line, bet. secs. 5th & 32,

Wa. $13^{\circ}40'$ East.

Over level land.

40.11 To a point 19 lks. North of old 14
sec. cor., which is a post, set firmly in
the ground, marked 14th on N. face,
with pits E. & W. of post, 5th ft.
diam., and a mound of earth, in
good order, around post.

The return course is therefore $N. 89^{\circ}44' E.$

85.19 To a point 52 lks. North of old cor.
to secs. 5, 6, 31st & 32, which is a post,
set firmly in the ground, marked
T. 18 N., S. 32 on N.E.; R. 19 E., S. 5 and E.;
T. 17 N., S. 6 on S.W. & S. 31 on N.W. faces,
with 1 notch on W. & 5 notches on E. edges;
with pits in each sec., 5th ft. diam.,
and a mound of earth, in good order,
around post.

The return course is therefore $N. 89^{\circ}16' E.$

Level land. Soil 3rd rate.

Vegetation, bunchy grass.

N. N. Sunday T. 17 N., R. 19 E., S. 2 S. R.

67 Chanis

Westward random line, bet. sec. 6 & 31.

Gr. $18^{\circ} 33'$ East.

One rolling land.

- 2 40.21 Is a point 41 cks. North of old's sec.
 4 cor, which is a post, set firmly in
 the ground, marked N.S. on N. face,
 with pits E. & W. of post, 5 ft. dist,
 and a mound of earth, in good
 order, around post.

The return course is therefore N. $87^{\circ} 25'$ E.

- 79.30 Is a point 59 cks. North of old's cor.
 8 to Cps. 17 & 18 N., R. 18 & 19 E.,
 previously described.

The return course is therefore N. $89^{\circ} 51'$ E.

Land rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

June 19th 1888.

W. boundary T. 17 N., R. 18 E., G. and S. R. M.

Chamis

Before proceeding with the retracing of the exterior of this township, I made a change of 10 minutes in the latitude arc of my solar compass, by adding same to the reading previously given and at noon verified and corrected same, by observation on the sun. I also further tested instrument by ranging.

From the cor. to Tps. 17th and 18th N.,
R. 18th and 19th E., previously described by me
I run

West and random line, bet. secs. 1st and 36th.
Ct. $18^{\circ} 45'$ East.

Descends gradually.

40.00 Failed to find old $\frac{1}{4}$ sec. cor.

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

80.45 To a point 56 lks. North of old cor.

to secs. 1, 2, 35th and 36th, which is a
post, set firmly in the ground, marked

U. boundary T. 17 N., R. 18 E., G. and S. R. M.

Chains.

T. 18 N., S. 36 on N. E.
 R. 18 E., S. 1 on S. E.
 T. 17 N., S. 2 on S. W. ^{2nd}
 S. 35 on N. W. face, with 1 notch on
 E. ^{2nd} 5 notches on W. edge, with
 pits in each sec, 5 1/2 ft. dist, ^{2nd}
 a mound of earth, in good order,
 around post; from which cor. I am
 N. 89° 36' E. on true line, bet. sees, 1 ^{2nd} 36,
 Va. 13° 45' East.

40, 22 Set a sandstone, 17 x 9 x 4 ins, 11 ins in
 the ground, for 1/4 sec. cor, marked
 1/4 on N. face, dug pits 18 x 18 x 12 ins
 E. ^{2nd} W. of stone, 5 1/2 ft. dist, and
 raised a mound of earth, 1 1/2 ft.
 high, 3 1/2 ft. base, along side.

St. 45 The cor. to Tps. 17 ^{2nd} 18 N., R. 18 ^{2nd} 19 E.
 Land selling.
 Soil 3rd rate.
 Vegetation, bunchgrass.

N. boundary T. 17 N., R. 18 E., E. & S. R. M.

Chamis

West on a random line, bet. secs. 2nd & 35,

Val. $13^{\circ} 45'$ East.

Descend.

40.00 To a point 30 lks. North of old "4
sec. cor, which is a post, set
firmly in the ground, marked
"4 S. on N. face, with pits E. ^{and} W.
of post, 5¹/₂ ft. dist, and a mound
of earth, in good order, around post.
The return course is then for N. $19^{\circ} 34'$ E.

53.75 Cross West, 15 lks. wide, course
N. 10° W. ^{and} enter level valley.

80.20 To a point 18 lks. North of old cor,
to secs. 2, 3, 34 ^{and} 35, which is
a post, set firmly in the ground,
marked T. 18 N. S. 35 on N. E.
R. 18 E., S. 2 on S. E., T. 17 N. S. 3 on S. W.
and S. 34 on N. W. faces, with 2
notches on E. ^{and} 4 notches on W. edges,
with pits in each sec, 5¹/₂ ft. dist,
and a mound of earth, in

N. boundary T. 17 N., R. 18 E., S. 34th, R. 18 E.

Obains

good order, annual post.

The return course is then for N. 89° 45' E.

Land rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

West on a random line, bet. secs. 3rd and 34th.

To, 13° 45' East.

Ascend gradually.

40.25 To a point 16 lks. North of old 14th sec. cor., which is a sandstone, set firmly in the ground, marked 14 on N. face, with pits 6' and 10' of stone, 5 1/2 ft. dist., and a mound of earth, in good order, alongside.

The return course is then for N. 89° 46' E.

St. 35 To a point 26 lks. North of cor. to secs. 3, 4, 33rd and 34th, which is a post, set firmly in the ground, marked T. 18 N., S. 34 on N. E.; R. 18 E., S. 3 on S. E.; T. 17 N., S. 4 and 14.

N. boundary T. 17 N., R. 18 E., S. 1/4 S., R. M.

Obanis.

Sec. 33 on N.W. face, with 3 notches
on E. & W. edges; with pits in
each sec., $5\frac{1}{4}$ ft. dist., and a
mound of earth, in good order,
around post.

The return course is therefore $N 89^{\circ} 38' E$.

Land selling.

Soil 3rd rate.

Vegetation, bunchgrass.

West on a random line, bet. secs. 4 & 33,

$N a, 13^{\circ} 45' East,$

Ascend.

40.00 To a point 40 lks. South of sec
14 sec. cor., which is a post set
firmly in the ground, marked
14 S. on N. face, with pits E. & W.
of post, $5\frac{1}{4}$ ft. dist., and a mound
of earth, in good order, around post.
The return course is therefore $S 89^{\circ} 26' E$.

50.23 To a point 52 lks. South of sec

N. boundary T. 17 N., R. 18 E., S. 33 on S. R. 18 E.

Cham's

Cor. to secs. 4, 5, 32nd & 33, which is a post, set firmly in the ground, marked T. 15 N., S. 33 on N. E.; R. 18 E., S. 4 on S. E.; T. 17 N., S. 5 on S. W. and S. 32 on N. W. faces, with 4 notches on E. & 2 notches on W. edges, with pits in each sec., 5th ft. dist., and a mound of earth, in good order, around post.

The return course is thence in S. 89° W. E. Land rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

Went on a random line, bet. secs. 5 & 32
 Tra. 13° 45' East.

Ascend.

40.10 To a point 37 lks. North of sec. 14 sec. cor., which is a post set firmly in the ground, marked 1400, on N. face, with pits E. & W.

N. boundary T. 17 N., R. 18 E., E. 1/4 S. R. M.

Chassis

of post, 5 1/2 ft. dist, and a mound of earth, in good order, around post.

The return course is therefore N. 59° 37' E.

49.00 Top of Ridge, cross N. 1/4 S. 1/4 descends

80.00 To a point 16 lks. North of old cor. to secs. 5, 6, 31 and 32, which is a post, set firmly in the ground, marked

T. 18 N., S. 32 on N. E.

R. 18 E., S. 5 on S. E.

T. 17 N., S. 6 on S. W. 1/4

S. 31 on N. W. faces, with 5 notches on E. 1/4 and 1 notch on W. edges; with pits in each sec., 5 1/2 ft. dist, and a mound of earth in good order, around post.

The return course is therefore N. 89° 46' E.

Land rolling.

Soil 3rd rate.

Vegetation, bunchy grass.

N. boundary T. 17 N., R. 18 E., E. $\frac{1}{2}$ S. R. M.

Claims

West on a random line, bet. sec. 6th & 31.

W. $13^{\circ} 45'$ East.

Descend.

40.00 To a point 23 lks. North of old
 14 sec. cor., which is a post, set
 firmly in the ground, marked
 400. on N. face, with pits E. & W.
 of post, 5 $\frac{1}{2}$ ft. dist., and a mound
 of earth, in good order, around post.
 The return course is therefore $N. 89^{\circ} 45' E.$

80.00 To a point 13 lks. North of old
 cor. to T. 17th & 18th N., R. 17th & 18th E.,
 which is a post, set firmly
 in the ground, marked
 T. 18 N., S. 31 on N. E.
 R. 18 E., S. 6 on S. E.
 T. 17 N., S. 1 on S. W. and
 R. 17 E., S. 36 on N. W. face, with
 6 notches on each edge; with
 pits lengthwise on each line,
 N. S. E. $\frac{1}{2}$ W. of post, 6 ft. dist.,

U. boundary T. 17 N., R. 18 E., S. 1/4 S. R. M.

Calvinia.

and a mound of earth in
good order, annual part.

The return course is then for N. 69° 49' E.

Land rolling.

Soil 3rd site.

Vegetation, bunchgrass.

July 6th 1888.

For Final Notes see
Book No. 19

U. S. Surveyor General's Office,

Tucson, Arizona, *July 5* 188*4*

Revising the portion
The foregoing Field Notes of the Survey of the

Outerior lines of
Townships 13, 14, 15, 16 & 17 North
Ranges 17, 18, 19, 20, 21 & 22 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-
ted by *Henry Meppick*

Deputy Surveyor under his contract of the *28th*

day of *July*, 188*2*, having been

critically examined and the necessary corrections and explana-
tions made, the said Field Notes and the surveys they describe

are hereby approved

Royal Johnson
Surveyor General.