

BOOK 204

Book No. 11.

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completes*

No-204

Field Notes

OF THE SURVEY OF THE

Subdivision Lines

-OF-

Township *15 N* Range *20 E*

Gila and Salt River Base and Meridian

ARIZONA.

By *M. N. Grant* D.S.

Under contract dated *Aug 5th 1882*

Survey commenced *June 14th 1883*

Survey completed *June 16th 1883*

No-204

204

1A

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 Range 20 E.

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Gila and Salt River, Arizona.

ARIZONA.

Sp. 15 N. R. 20 E.

G. & S. R. M.

For preliminary notes see Book no. 1.

Survey commenced June 14th 1885

Survey completed June 16th 1885

Survey made with Burt's Patent Improved Solar Compass, nearly new, and in first rate order. Made by Otto Feunel of Cassel Germany in 1881.

Before proceeding to subdivide this Tr. I made a change of 6 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 and also further tested instrument by reversing -

10

Township 15 North Range 20 East.
do Gila & Salt River Meridian

1. 2.
From the Cor. to Secs. 35 + 36 on
the S. P. of T^r. recently set by me. Iron
North. bet. Secs. 35 + 36
Va. 1345'E.

Dissect gradually

40.00

Set a Sand stone, 14 x 11 x 3 ins.; 9 ins.
in the ground for $\frac{1}{4}$ Sec, Cor. marked $\frac{1}{4}$ on N.
face, dug pits 18 x 18 x 12 ins. N. and 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.

80.00

Set a Sand stone 7 x 9 x 5 ins, 12 ins. in
the ground for Cor. to Secs, 25-26-35-36 marked
with / notch on S. and / notch 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 2 ft. high.
4 $\frac{1}{2}$ ft. base. alongside.

Surface rolling
Soil 4 Tates
Grass poor.

Tr. 15 N. R. 20 E.
chs G. + S. R. M.

Each on a random line bet. Secs. 25 + 36.
va 13.30' E.

descend gradually

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.30 Intusub. E. E. of Tr. 140 Chs. S. of
Cor. to Secs. 25-30-31 + 36 recently
re-established by me. Hence I run
S. 89° 43' N. on a true line bet. Secs. 25 + 36.
va, 13.30' E.

40.15 Set a sand stone, 30 x 10 x 3 ins., 20 ins.
in the ground for $\frac{1}{4}$ Sec. Cor, marked $\frac{1}{4}$ on N.
face, dug pits 18 x 18 x 12 ins. E. and W.
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.

80.30 The Cor. to Secs. 25-26-35 + 36
Sec. 36 is slightly rolling
Soil sandy + H^o rate
grazing poor.
No timber

5

Tr. 15 N. R. 20 E.

Ch

S. R. M.

North. lot. Sec. 25 + 26.

va. 13° 30' E.

Descend gradually

40.00

Set a post 3 ft. long 3 ins. diam with marked stone, 12 ins, in the ground for $\frac{1}{4}$ Sec. Cor, marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12 ins. N. and S. of post $5\frac{1}{2}$ ft. dist. and raised a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around post.

80.00

Set a sand stone $6\frac{1}{2}$ x 3 ins, 11 ins. in the ground for Cor, to Secs. 23-24-25-26 marked with 2 notches on S. and 1 notch 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 2 ft. high. $4\frac{1}{2}$ ft. base. alongside.

Surface level

soil sandy & rate
grass good.

Tp. 15 N. R. 20 E.
Chs G. & S. R. M.

East, on a random line bet. Secs. 24 & 25,
Va. 1330' E.

Over level land.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.17 Intersect E. B. of Tp. 73 N. S. of Cor.
to Secs. 19-24-25 & 30. Monument
~~re-~~established by me. True Iron
S. 89° 29' W. on a true line bet. Secs. 24 & 25.
Va. 1330' E

40.09 Set a Sand stone, 19 x 10 x 6 ins., 12 ins.
in the ground for $\frac{1}{4}$ Sec. Cor, marked $\frac{1}{4}$ on N.
face, dug pits 18 x 18 x 12 ins. E. and W.
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.

80.17 In Cor. to Secs. 23-24-25 & 26
Sec. 25 is level
Soil Sandy & 3 $\frac{1}{2}$ rate
Good grazing
No timber

Tr. 15 N. R. 20 E.
 Chis G. + S. R. M.

North bet. Secs. 23 & 24.
 Va. $13^{\circ}30'$ East

Nearly level

4000 Set a Sand stone $8 \times 10 \times 4$ ins. 12 ins.
 in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
 face, dug pits $18 \times 18 \times 12$ ins. N. and 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.

8000 Set a Sand stone $5 \times 6 \times 4$ ins, 9 ins. in
 the ground for Cor, to Secs, 13-14-23-24 marked
 with 3 notches on S. and 1 notch on E. edges,
 dug pits $18 \times 18 \times 12$ ins. in each Sec., $5\frac{1}{2}$ ft.
 dist. and raised a mound of earth 2 ft. high.
 $4\frac{1}{2}$ ft. base. alongside.

Surface valley
 Soil 2^d rate
 Grass good.

Tp. 15 N. R. 20 E.

Chs G. + S. R. M.

East, on a random line bet. Secs. 13 + 24
Va. 13° 30' E.

Slightly rolling

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.37 Intersect E. B. of Tp. 51 lks S. of
Cor. to Secs. 13-18-19 + 24 recently
re-established by me. Thence down
S. 89° 38' N. on a true line bet. Secs. 13 + 24.
Va. 13° 30' E.

40.18. Set a Sand stone, 15 x 11 x 3 ins., 9 ins.
in the ground for $\frac{1}{4}$ Sec. Cor, marked $\frac{1}{4}$ on N.
face, dug pits 18 x 18 x 12 ins. E. and W.
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.

80.37 The Cor. to Secs. 13-14-23 + 24
Sec. 24 is gently rolling
Soil 2^o Gate
Good grazing
No timber

Sp. 15 N. R. 20 E.
 Ch's G. + S. R. M.

North lot. Secs. 13 + 14.
 Va. 1330' E.

Descend gradually

40.00

Set a Sand stone, 19 x 9 x 4 ins., 12 ins. in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on W. face, dug pits 18 x 18 x 12 ins. N. and 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.

80.00

Set a Sand stone 16 x 13 x 4 ins., 11 ins. in the ground for Cor, to Secs. 11-12-13+14 marked with 4 notches on S. and 1 notch 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 2 ft. high. $4\frac{1}{2}$ ft. base. alongside.

Surface rolling
 Soil 3' rate
 Grass good

Tr. 15 N. R. 19 E.
 Chs G. S. R. M.

Cash. on a random line bet. Secs. 12 + 13.

V. 13° 30' E.

Over level land

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

So. 26 Interest C. D. of Tr. 33 W. S. of Cor.
 to Secs. 7-12-13+18, recently re-es-
 tablished by me. Hence I run
 S. 89° 46' N. on a true line bet. Secs. 12 + 13.

V. 13° 30' E.

40.13

Set a sand stone, 16 x 9 x 5 ins., 11 ins.
 in the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on N.
 face. dug pits 18 x 18 x 12 ins. E. and N.
 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.

So. 26 The Cor. to Secs. 11-12-13+14

Sec. 13 is slightly rolling

Soil 3^d rate

Good grazing

No timber

Tr. 15 N. R. 20 E.
 Chs G. & S. R. M.

North lot, Secs. 11 + 12,
 Va. $10^{\circ}30' E$.

descend gradually

40.00

Set a Sand stone, $20 \times 15 \times 4$ ins., 12 ins. in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N. face, dug pits $18 \times 18 \times 12$ ins. N. and 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.

80.00

Set a Sand stone $17 \times 9 \times 6$ ins., 12 ins. in the ground for Cor, to Secs, 1-2-11 + 12 marked with 5 notches on S. and 1 notch on E. edges, dug pits $18 \times 18 \times 12$ ins. in each Sec., $5\frac{1}{2}$ ft. dist. and raised a mound of earth 2 ft. high. $4\frac{1}{2}$ ft. base. alongside.

Surface nearly level
 Soil 2^o rate
 Grass good.

Tp. 15 N. R. 20 E.

Ch. G. S. R. M.

Each, on a random line bet. Secs. 1 + 12
va. 1330' E.

Nearly level

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.10 Intusuck E. B. of Tp. 41 Uls. S.
of Cor. to Secs. 1-6-7 + 12 recently
re-established by me. Thence I run
S. 89 $^{\circ}$ 42' N. on a true line bet. Secs. 1-12.
va. 1330' E.

40.05 Set a Sand stone, 20 x 12 x 5 ins., 12 ins.
in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
face, dug pits 18 x 18 x 12 ins. E. and W.
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.

80 10 The Cor. to Secs. 1-2-11 + 12
Sec. 12, is almost level
Soil 2 $^{\circ}$ rate
Good grass
No Timber

Sp. 15 N. R. 20 E,
 Chs. G. + S. R. M.

North, on a random line bet. Secs. 1 + 2,
 our level land Va. 13° 30' E.

- 29.00 Descend gradually
 40.00 Set temporary $\frac{1}{4}$ Sec. Cor.
 47.18 Cross Flat Wash 15 lks. Wide Co. N. 38° E. + ascend.
 80.13 Intersect N. B. of Twp. 28 lks. E. of Cor.
 to Secs. 1-2-35 + 36. Recently es-
 tablished by me. Thence I run
 S. 12' E. on a true line bet. Secs. 1 + 2.
 Va. 13° 30' E.
- 40.13 Set a Sawt stone, 14 x 10 x 6 ins., 9 ins.
 in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$. on N,
 face, dug pits 18 x 18 x 12 ins. N. and 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.

80.13 In Cor. to Secs. 1-2-11 + 12,
 Sec. 2. is slightly rolling
 Soil 3rd rate
 Good grass
 No timber

I carefully examined the adjustments of my Solar
 Compass today, particularly the Caticules and
 reversing apparatus, and found them correct.
 M. N. Grant June 14. 1853.

T. 15 N. R. 20 E.

Ch's G. & S. R. M.

From the Cor. to Secs. ^{2-3.} 34 & 35, on S. B. of
 T. recently established by me. Iron
 North Sub. Secs. 34 & 35.
 Va. 1345 E.

Descend gradually
 40.00 Set a sand stone, 16 x 10 x 5 ins., 11 ins.
 in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
 face, dug pits 18 x 18 x 12 ins. N. and 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.

80.00 Set a post 4 ft. long 4 ins. square, with marked
 stone, 12 ins, in the ground for Cor, to Secs,
 26-27-34 & 35 marked T. 15 N. S. 26 on
 N. E. R. 20 E. S. 35 on S. E, S, 34 on
 S, W, and S, 27 on N, W, face, with 1 notch
 on S, and 2 notch 20 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 2 ft, high. $4\frac{1}{2}$ ft.
 base. around post.

Surface rolling
 Soil 2^d rate
 Grass good

Sp. 15 N. R. 20 E,
chs G. & S. R. M.

Each on a random line bet. Secs. 26 & 35.
var 13° 45' E.

Ascend gradually

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

43.00 Top of low Ridge 40 ft high bet N. &

79.65 Intersect N. & S. line 40 lks S. of Cor.

to Secs. 25-26-35 & 36. Thence I run
S 89° 42' W on a true line bet. Secs. 26 & 35
var. 13° 45' E.

Descend gradually

39.82 Set a Sand stone, 16 x 10 x 3 ins., 11 ins.
in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$. on N.
face, dug pits 18 x 18 x 12 ins. E. and W.
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.

79.65 The Cor. to Secs. 26-27-34 & 35

Sec. 35 is gently rolling

Soil 2^o rate

Good grazing

Tr. 15 N. R. 20 E.
 Chs G. & S. R. M.

North. lot. Secs. 26 & 27

va. 18°30' E.

Descend gradually

40.00

Set a post 3 ft. long 3 ins. diam with marked stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12 ins. N. and S. of post $5\frac{1}{2}$ ft. dist. and raised a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around post.

8000

Set a sand stone $2\frac{1}{2} \times 9 \times 3$ ins. in the ground for Cor. to Secs. 22-23-26 & 27 marked with 2 notches on S. 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 2 ft. high. $4\frac{1}{2}$ ft. base. alongside.

Surface rolling
 Soil 3rd rate
 Grass good.

Tr. 15 N. R. 20 E.
 Chs G. & S. R. M.

East on a random line bet. Secs. 23-26
 Va. 1330 E.

ascend gradually

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

79.90 Intersect N. & S. line 72 lbs S. of Cor.
 to Secs. 23-24-25+26. Hence Iron

S 89° 29' N. on a true line bet. Secs. 23+26.
 Va. 1330 E.

39.95 Set a sand stone 23 x 10 x 4 ins., 15 ins.
 in the ground for $\frac{1}{4}$ Sec. Cor, marked $\frac{1}{4}$ on N.
 face, dug pits 18 x 18 x 12 ins. E. and W.
 of stone 5 $\frac{1}{2}$ ft. dist. and raised a mound of earth
 7 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. alongside.

79.90 The Cor. to Secs. 22, 23-26+27
 Sec. 26 is rolling
 Soil 3^d rate
 grazing good.

Tr. 15 N. R. 20 E.
 Ch. G. & S. R. M.

North lot. Secs. 22, 23.
 Va. $13^{\circ} 30' E$,

Nearly level

4000 Set a Sand stone, $15 \times 8 \times 4$ ins., 8 ins. in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N. face, dug pits $18 \times 18 \times 12$ ins. N. and 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.

50.00 Set a Sand stone $18 \times 7 \times 5$ ins., 12 ins. in the ground for Cor, to Secs, 14-15-22-23 marked with 3 notches on S. and 2 notches on E. edges, dug pits $18 \times 18 \times 12$ ins. in each Sec., $5\frac{1}{2}$ ft. dist. and raised a mound of earth 2 ft. high. $4\frac{1}{2}$ ft. base. alongside.

Surface rolling
 Grass good
 Soil 2nd rate

N. 15 N. R. 20 E.

Chs G. & S. R. M.

East on a random line bet. Secs. 14 & 23
Va. 133° 0' E.

Descent gradually

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.13 Inducet N. & S. line 66 lks. S. of Cor.
to Secs. 13-14-23 & 24. Thence I run
S 89° 33' N. on a true line bet. Secs. 14 & 23.
Va. 133° 0' E.

40.06 Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins, in the ground for $\frac{1}{4}$ Sec. Cor,
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. E. and W. of post 5 $\frac{1}{2}$ ft. dist. and raised
a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
post.

80.13 Th. Cor to Secs. 14-15-22 & 23.

Sec. 23 is rolling

Soil 2nd rate

Grass good

Tp. 15 N. R. 20 E.
 Ch. G. + S. Q. M.

North, bet. Secs. 14 + 15.

va, 13°30' E.

Ascend gradually

40.00 Set a Sand stone, 18 x 12 x 3 ins, 12 ins.
 in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
 face, dug pits 18 x 18 x 12 ins. N. and 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.

80.00 Set a Sand stone 19 x 12 x 4 ins, 12 ins. in
 the ground for Cor, to Secs, 10-11-14 + 15 marked
 with 4 notches on S. 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 2 ft, high.
 $4\frac{1}{2}$ ft. base. alongside.

Surface level
 Soil 3? rate
 Grass good.

N. 15 N. R. 20 E.

Obs G. & S. R. M.

Each, on a random line bet. Secs. 11 & 14
 Va. $13^{\circ}30' E$.

Level

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

79.88 Intersect N. & S. line 55 lks. S. of
 Cor. to Secs. 10-11-14 & 15. Thence Iron
 $89^{\circ}36' N$. on a true line bet. Secs. 11-14
 Va $13^{\circ}30' E$.

3994 Set a Sand stone, $14 \times 6 \times 3$ ins., 9 ins.
 in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
 face, dug pits $18 \times 18 \times 12$ ins. E. and N.
 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.

79.88 The Cor to Secs. 10-11-14-15
 Sec. 14 is level
 Soil 3° rate
 grazing good.

Tp. 15 N. R. 20 E.

Ch. G. & S. R. M.

North Lick, Secs. 10 + 11.

Ca. 1330' E.

Descend gradually

39.50 Cross Wash 15 Ws. Side Co N 30° E + ascend grad.

40.00 Set a Sand Stone 24 x 14 x 5 ins. 1 1/2 ins.

in the ground for 1/4 Sec. Cor. Marked
1/4 on N. face, and raised a mound of
stone alongside. Pits impracticable

80.00 Set a Sand Stone 30 x 9 x 8 ins. 20 ins.

in the ground for Cor. to Secs. 2-3-10 + 11

Marked with 5 Notches on S. and 2

Notches on E. edges, and raised a

mound of stone alongside. Pits impracticable

Surface rolling

Soil 3^d. rate

Grass good.

47. 15 N. R. 20 E,
 Chs G. + S. R. M.

East, on a random line bet. Secs. 2 + 11,

Va. 1330 E,

Descend gradually

22.17 Cross track 15 lks. N. of N 57° E, + ascent grad

40.00 Set temporary $\frac{1}{2}$ Sec. Cor.,

80.27 Intersect N. of S. line 56 links S. of Cor.

to Secs. 1-2-11 + 12. Thence Iron
 58936 N. on a true line bet. Secs. 2 + 11.

Va. 1330 E,

40.14

Set a Sand Stone 26 x 7 x 3 ins. 18 ins.
 in the ground for $\frac{1}{4}$ Sec. Cor., marked
 $\frac{1}{2}$ on N. face, and raised a mound
 of stone alongside. Pits impracticable
 from Cor. to Secs. 2-3-10 + 11.
 Sec. 11 is rolling

80.27

Soil 3^d date
 grazing good.

Tp. 15 N. R. 20 E.
 Chs G. + S. R. M.

North on a random line bet. Secs. 2 & 3.

va. $13^{\circ}30'$ E.

ascend gradually

40.00 dit temporary $\frac{1}{4}$ Sec. Cor.

80.40 Intersect N. B. of Tp. 2, E. of Cor.

to Secs. 2-3-34 & 35. recently es-
 tablished by me. Thence I run

S. 9 N. on a true line bet. Secs. 2 & 3.

va. $13^{\circ}30'$ E.

40.40 Set a sand stone, $21 \times 12 \times 3$ ins., 15 ins.
 in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on W.
 face, dug pits $18 \times 18 \times 12$ ins. N. and 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.

80.40 The Cor. to Secs. 2-3-10 & 11.

Sec. 3 slopes gradually to the South

Soil 3^d rate

grazing good

I carefully examined the adjustments of my Solar
 Compass today, particularly the latitude and
 reversing apparatus and found them correct.
 A. H. Arnold Compassman June 14, 1883.

chs

T_h. 15 N. R. 20 E.

G. + S. R. M.

3.4.

From the Cor. to Secs. 33 + 34 on the
S. B. of T_h. recently established 3 mi. from
North Cut. Secs. 33 + 34.

Va. 13. 45' E

descend gradually

40.00

Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor,
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. N. and S. of post 5 $\frac{1}{2}$ ft. dist. and raised
a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
post.

20.00

Set a sand stone 26 x 8 x 5 ins 18,
ins. in the ground for Cor. to Secs.
27-28-33 + 34 Marked with 1
Notch on S. and 3 notches on E.
edges. and raised a mound of
stone alongside. Pits impracticable
Surface rolling
Soil 3rd rate
Grass good.

$\frac{1}{2}$ 15 N. R. 20 E.
Chs G. + S. R. M.

East on a random line bet Secs. 27 + 34.
Va 1345 E.

Descent gradually

36.00 Head of Wash 15 Ues. N. side C. N. record grad.

40.00 Dit temporary $\frac{1}{2}$ Sec. Cor.

79.86 Intersect N. + S. line 27 Ues. S. of Cor. to

Secs. 26-27-34 + 35. Thence I run

S. 89 $^{\circ}$ 5' N. on a true line bet. Secs. 27 + 34

Va. 1345 E.

39.93 Set a Saur stone, 14 x 7 x 5 ins., 9 ins.
in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
face, dug pits 18 x 18 x 12 ins. E. and N.
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.

7986 At Cor. to Secs. 27-28-33 + 34

Sec. 34 is slightly rolling

Soil 3 $^{\circ}$ rate

grass good.

N. 15 N. R. 20 E.

Chs G. & S. R. M.

North Int. Secs. 27 & 28.
N. 13° 30' E.

4000

ascend gradually
Set a post 3 ft. long 3 ins. diam with marked stone, 12 ins. in the ground for 1/4 Sec. Cor, marked 1/4 S. on N. face, dug pits 18 x 18 x 12 ins. N. and S. 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.

6500

Top of Ridge Cor. E. 60 ft. high & ascend.

8000

Set a sand stone 2 x 9 x 7 ins. 7 ins. in the ground for Cor. to Secs. 21-22-27 & 28 marked with 2 notch on S. and 3 notches on E. 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. alongside.

Surface rolling
sail 3° rate
Imagous
Sealing Imper.

Tp. 15 N. R. 20 E.

chs G. S. R. M.

East on a random line bet. Secs. 22 & 27

va. 1330' E.

Descent gradually

32.00 Run Wash 13 Chs. Mid. Co. N. + descent grad.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

46.00 Descent gradually 30 ft. above wash

80.22 Intersect N. & S. line 58 Chs. S. of Cor.
to Secs. 22-23-26 & 27. Thence I run
S. 89° 35' W. on a true line bet. Secs. 22 & 27

va. 1330' E.

40 11

Set a Sand stone, 28 x 13 x 3 ins., 20 ins.
in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
face, dug pits 18 x 18 x 12 ins. E. and W.
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.

80 22 The Cor to Secs 21-22-27-28

Sec 27 is rolling
Soil 3rd Rate

Grass good

Scattering Juniper along Wash

Tr. 15 N. R. 20 E.
 Ch. G. S. R. M.

North lot. Secs. 21 + 22,
 Va. 13° 30' E

Secs. gradually

40.00

Set a Sand stone, 24 x 18 x 12 ins., 18 ins.
 in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
 face, dug pits 18 x 18 x 12 ins. N. and 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.

4317

Grass track 11 Chs. Wide C. N. E. + around

80.00

Set a Sand stone 16 x 8 x 11 ins. in
 the ground for Cor. to Secs. 15-16-21+22 marked
 with 3 notch on S. and 3 notch 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 2 ft. high.
 4 $\frac{1}{2}$ ft. base. alongside.

Surface rolling
 Soil 3° rate
 Grass good.

Sp. 15 N. R. 20 E.
 Ch. G. & S. R. M.

East on a random line bet. Secs. 15 & 22,
 Va. 1330' E.

Descend gradually

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

43.00 River Wash 18th Mo. Mide Co. N. + ascd grad

80.40 Intervent N. S. line 18th Mo. S. of Cor. to
 Secs. 14-15-22 + 23. Thence I run
 S. 88° 51' N. on a true line bet. Secs. 15 & 22,
 Va. 1330' E.

40.20 Set a Sand Stone 23 x 9 x 7 ins. 14 ins. in
 the ground for $\frac{1}{4}$ Sec. Cor. Marked
 $\frac{1}{4}$ on N. face, and raised a mound
 of Stone alongside - Pitts impracticable

80.40 The Cor. to Secs. 15-16-21 + 22.

Sec. 22. is rolling

Soil 2° + 3° rate

Grows grass

Scattering Junipers

Tr. 15 N. R. 20 E.

chs G. + S. R. M.

North cut, Secs. 15 + 16.

Va. $13^{\circ}30' E$.

Ascend gradually

- 35.00 Top of Spur 40 ft. high brs. E. + descent grad.
- 40.00 Set a Sand Stone $17 \times 10 \times 4$ ins. 12 ins. in the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{4}$ on N. face and raised a mound of stone alongside - Pits impracticable.
- 44.35 Cross Wash 21 chs. wide Co. N. $50^{\circ} E$,
- 61.16 Cross Draw 11 chs. wide Co. N. $70^{\circ} E$, ascend
- 80.00 Set a Sand Stone $30 \times 20 \times 6$ ins 20 ins. in the ground for. Cor. to Secs. 9-10-15+16. Marked with 4 notches on S. and 3 notches on E. edges, and raised a mound of stone alongside. Pits impracticable.
- Surface rolling
Soil 3° rate
Good grass.

N. 15 N. R. 20 E.
 Chs G. + S. R. M.

East, on a random line bet. Secs 10 + 15
 Va. 1330 E.

Descend gradually

39.10 Cross Wash 10 lks. wide Co. N. 30° E. + Con. descent

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

48.00 Cross Wash 26 lks. wide Co. S. 50° E. + Con. descent.

63.26 Cross Wash 40 lks. wide Co. N. 18° E. + ascent grad.

79.94 Intersect N. + S. line 49 lks. S. of Cor.

to Secs. 10-11-14 + 15. Thence I run
 S. 89° 39' W. on a true line bet. Secs. 10 + 15,
 Va 1330 E.

3997 Set a post 3 ft. long 3 ins. diam with marked
 stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor,
 marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
 ins. E. and W. of post 5 $\frac{1}{2}$ ft. dist. and raised
 a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
 post.

79.94 The Cor. to Secs. 9-10-15-16

Surface willy

Soil 3^d rate

Good grass.

T. 15 N. R. 20 E.
 ab G. & S. R. M.

North lot Secs. 9 & 10.

Na. 133° E.

Ascend gradually

17.17 Top of Hill 40 ft. high, bro. E. & descend grade
 40.00 Set Cor. in Wash 19 lbs. Wide Co. E.

Set a Sand Stone 18 x 10 x 6 ins 12 ins.
 in the ground for $\frac{1}{2}$ Sec. Cor. Marked
 $\frac{1}{2}$ on N. face, and raised a mound
 of stone alongside. Pits unpracticable

80.00

Set a post 4 ft. long 4 ins. square, with marked
 stone, 12 ins, in the ground for Cor, to Secs,
 8-4-9-10 marked T. 15 N. S. 3 on
 N. E. R. 20. E. S. 10 on S. E. S, 9 on
 S. W. and S. V on N. W. face, with 5 notch
 eo on S, and 3 notch eo 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 2 ft. high. 4 $\frac{1}{2}$ ft.
 base. around post.

Surface rolling

Soil 3 $\frac{1}{2}$ rate

Graying good.

N. 15 N. R. 20 E.

chs G. + S. R. M.

East on a random line bet. Secs. 3+10
 Va. 133°0' E.

Descend gradually

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

79.76 Intersert N-S. line 8. lks. S. of Cor. to
 Secs. 2-3-10-11. Thence Iron
 S. 89°57' N. on a true line bet. Secs. 3+10.
 Va. 133°0' E.

39.88

Set a post 3 ft. long 3 ins. diam with marked
 stone, 12 ins, in the ground for $\frac{1}{4}$ Sec, Cor,
 marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
 ins. E. and N. of post 5 $\frac{1}{2}$ ft. dist. and raised
 a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
 post.

79.76 The Cor. to Secs. 3-4-9-10

Surface slopes to North
 Soil sandy & 3rd rate
 grazing good.

Tr. 15 N. R. 20 E.
Chs G. + S. R. 9M.

North on a random line bet. Secs. 3 & 4.

va. 13° 30' E.

Ascend gradually

14.00 Top Ridge 25 ft. N. bet. E. + descend grad.

40.00 Set temporary $\frac{1}{2}$ Sec. Cor.

79.77 Intusert N. B. of Sp. 17 Chs. N. of Cor.

to Secs. 3-4-33-34, regularly es-
tablished by me: Thence I run

S. 7° N. on a true line bet. Secs. 3 & 4.

va. 13° 30' E.

39.77

Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor.
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. N. and S. of post $5\frac{1}{2}$ ft. dist. and raised
a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around
post.

79.77

The Cor. to Secs. 34-9 & 10.

Soils slightly rolling

soil 3 $\frac{1}{2}$ rate

gray goat.

I Carefully examined the adjustments of my
Solar Compass today, particularly the latitude
and reversing apparatus, and found them correct.

M. N. Grant June 15, 1883.

Tr. 15 N. R. 20 E.

chs G. & S. R. M.

4.5.
From the Cor. to Secs. 32 & 33 on the S. P. of
Tr. recently established by me. Iron
North lat. Secs. 32 & 33.
Va. 1845 E.

Ascend gradually

40.00

Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins, in the ground for $\frac{1}{4}$ Sec. Cor.
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. N. and S. of post $5\frac{1}{2}$ ft. dist. and raised
a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around
post.

61.00 Cross. Nash 17 lks Wide Co. N 50° E. & ascend

80.00

Set a post 4 ft. long 4 ins. square, with marked
stone, 12 ins, in the ground for Cor, to Secs,
28-29-32 & 33 marked T. 15 N. S. 28 on
N. E. R. 20 E. S. 33 on S. E. S. 32 on
S. W. and S. 29 on N. W. face, with 1 notch
on S. and 4 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 2 ft. high. $4\frac{1}{2}$ ft.
base. around post.

Surface rolling
Soil 3' rate
Graying good.

Tr. 15 N. R. 20 E.

G. + S. R. M.

Chs

East, on a random line bet. Secs. 28 + 33.

Va. 1530' E.

Descent.

22.05 Cross Wash 17 lks. Nide Co N 71° N. + ascent.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

60.14 Cross Spur bet. N. + S. + descend

80.34 Intersect N. + S. line 63 lks. S. of Cor.

to Secs. 27-28-33 + 34. Thence Iron

S. 89° 33' N. on a true line bet. Secs. 28 + 33.

Va 1330' E.

40.17 Set a Sand stone 23 + 17 x 9 ins. 15 ins.

in the ground for $\frac{1}{4}$ die. Cor. Marked
 $\frac{1}{4}$ on N. face, and raised a mound
of stone alongside. Pits impracticable

80.34 The Cor. to Secs 28-29-32 + 33.

Surface rolling

Soil 3^d rate

Graying good

No timber

Sp 15 N. R. 20 E.

G. S. R. M.

Chs

North Int. Secs. 28 + 29

Na. 133° E.

Descent

14.10 Cross track 17 Ets. Wade Co. N. 41° W. + ascend

36.18 Top of Spur. 40 ft. H. brs. N 15° W. + descend

40.00 Set a post 3 ft. long 3 ins. diam with marked stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12 ins. N. and S of post 5 $\frac{1}{2}$ ft. dist. and raised a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around post.

65.18 Cross track 17 Ets. Wade Co. N 30° E.

80.00 Set a sand stone 30 x 25 x 3 ins. 20 ins. in the ground for Cor. to Secs. 20-21-28+29. Marked with 2 notches on S. and 4 notches on E. edges. and raised a mound of stone alongside. Pits impracticable.

Surface rolling

Soil 3rd rate

Graying good.

Fr. 15 N. R. 20 E.
 G. S. R. M.

Cast, on a random line bet. Secs. 21 + 28.
 Va. 13° 30' E.

ascends gradually

- 13.10 Cross Wash 13 lks. Wide Co. N. 38° E. + ascends.
 38.50 Top of Ridge Crs. N. 15° W. 40 ft. H. + ascends.
 40.00 Set temporary $\frac{1}{4}$ Sec. Cor.
 81.03 Intersect N. + S. line 79 lks. S. of Cor.
 to Secs. 21 - 22 - 27 + 28. Thence Iron
 S. 89° 26' W. on a true line bet. Secs. 21 + 28.
 Va. 13° 30' E.

40.02 Set a post 3 ft. long 3 ins. diam with marked
 stone, 12 ins, in the ground for $\frac{1}{4}$ Sec, Cor,
 marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
 ins. S. and N. of post 5 $\frac{1}{2}$ ft. dist. and raised
 a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
 post.

80.03 The Cr. to Secs 20-21-28 + 29
 Sand rolling
 Soil 3rd rate
 Praying good

Tr. 15 N. R. 20 E.

chs G. + S. R. M.

North lot Secs. 20 + 21

Va. $133^{\circ} E$.

Ascend.

15.20 Top Spur 60 ft. H. brs. E. + descend.

37.16 Cross track 13 chs. N. $570^{\circ} E$. + ascend

40.00 Set a Sand stone $14 \times 11 \times 9$ ins. 9 ins. in the ground for $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4}$ on N. face, and raised a mound of Stone alongside. Pits impracticable

47.00 Top of Ridge 60 ft. H. brs. N $8^{\circ} E$. + descend.

80.00 Set a Sand stone $4 \times 6 \times 3$ ins, 9 ins. in the ground for Cor, to Secs 16-17-20+21 marked with 3 notches on S. and 4 notches on E. edges, dug pits $18 \times 18 \times 12$ ins. in each Sec., $5\frac{1}{2}$ ft. dist. and raised a mound of earth 2 ft. high. $4\frac{1}{2}$ ft. base. alongside.

Surface rolling

Soil 3^d vale

Grass good

Th. 15 N. R. 20 E.

chs

G. & S. R. M.

Post, on a random line bet. Secs. 16 & 21.

Va. 13° 30' E.

Descent gradually

13.18 Cross Wash Cor N 42° E, 100 ft deep. + 100 ft.

210.00 Set temporary $\frac{1}{4}$ Sec. Cor.

63.00 Sp of Ridge 50 ft. H. (to N. 75° E. + descent grad.

79.66 Intersect N. & S. line 62 lks. S. of Cor.

to Secs. 15-16-21 & 22. Thence I run
S. 89° 33' N. on a true line bet. Secs 16 & 21.

Va. 13° 30' E.

39.83

Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins, in the ground for $\frac{1}{4}$ Sec, Cor.
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. E. and W. of post 5 $\frac{1}{2}$ ft. dist. and raised
a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
post.

79.66 The Cor. to Secs. 16-17-20 & 21
Surface slightly rolling slopes East.

Soil 2nd - rate

Grass good

Scattering Juniper along Wash.

Tp. 15 N. R. 20 E.
 chs G. + S. R. M.

North bet. Secs. 16 + 17
 Va. 1330' E.

Ascend gradually

40.00

Set a Sand stone, 18 x 12 x 3 ins., 12 ins.
 in the ground for $\frac{1}{2}$ Sec, Cor, marked $\frac{1}{2}$ on N.
 face, dug pits 18 x 18 x 12 ins. N. and 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.

84.00

Set a post 4 ft. long 4 ins. square, with marked
 stone, 12 ins. in the ground for Cor, to Secs,
 8-9-16 + 17 marked T. 15 N. S. 9 on
 N. E. R. 20 E. S. 16 on S. E. S, 17 on
 S. W. and S. 8 on N. W. face, with 4 notch
 es on S, and 4 notch es 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 2 ft. high. 4 $\frac{1}{2}$ ft.
 base. around post.

Surface valley

Soil 2^d. rate

Grass good

Scathing Impus.

Th. 15 N. R. 20 E.
 Chs. G. + S. R. M.

East on a random line bet. Secs. 9 + 16
 Va. 13° 30' E

Descend gradually

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

79.78 Intersect N. + S. line 33 Chs. S. of Cor.
 to Secs. 9-10-15 + 16. Thence I run
 S. 89° 46' W. on a true line bet. Secs. 9 + 16.
 Va. 13° 30' E.

39.84

Set a post 3 ft. long 3 ins. diam with marked
 stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor,
 marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
 ins. E. and W. of post 5 $\frac{1}{2}$ ft. dist. and raised
 a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
 post.

79.78

Th. Cor. to Secs. 8-9-16 + 17

Surface rolling

Soil 3:1 ratio

Graying goat

Scattering juniper

N. 15 N. R. 20 E.

chs G. S. R. M.

North lot Secs. 8 + 9,
 Va, 1330' E.

Ascend gradually

140.00

Set a post 3 ft. long 3 ins. diam with marked stone, 12 ins, in the ground for $\frac{1}{4}$ Sec. Cor, marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12 ins. N. and S. of post 5 $\frac{1}{2}$ ft. dist. and raised a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around post.

57.00 Hill Crs. N. 39° E. + descent.

80.00

Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins, in the ground for Cor, to Secs. 4-5-8-9 marked T 15 N. S. 4 on N. E. R. 20 E. S. 9 on S. E, S, 8 on S, W, and S, 5 on N, W, face, with $\sqrt{\quad}$ notch on S, and 4 notch 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 2 ft. high. 4 $\frac{1}{2}$ ft. base. around post.

Surface valley
 Soil 3" rate
 Gray, good
 Scattering Juniper

Tr. 15 N. R. 20 E.

Chs G. & S. R. M.

Cast. on a random line bet. Secs. 4 & 9.
Va 18°30' E.

Ascend gradually

29.13 Top of divide 65 ft. H. bet. N. & descend grad.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

79.81 Intersect N. & S. line 61 lks. S. of
Cor. to Secs. 3-4-9 & 10. Thence I run
S. 89°34' W. on a true line bet. Secs. 4 & 9.

Va 18°30' E.

39.90

Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor,
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. E. and W. of post 5 $\frac{1}{2}$ ft. dist. and raised
a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
post.

79.81 Th. Cor. to Secs. 4-5-8 & 9.

Surface rolling

Soil 3rd rate

Traying good

Sp. 15 N. R. 20 E.
chs G. & S. R. M.

North on a random line bet. Secs. 4 + 5.
Va. $13^{\circ} 30' E.$

Descent gradually

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.16 Intersect N. B. of $\frac{1}{4}$ p. 30 Chs. E. of Cor. to
Secs. 4-5-32 + 33. Recently es-
tablished by me. Thence I run
S. $13' E.$ on a true line bet. Secs. 4 + 5.
Va. $13^{\circ} 30' E.$

40.16 Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins, in the ground for $\frac{1}{4}$ Sec. Cor,
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. N. and S. of post $5\frac{1}{2}$ ft. dist. and raised
a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around
post.

80.16 The Cor. to Secs. 4-5-8 + 9,

Surface rolling
Soil 3° sate
Grass good.

I carefully examined the adjustments of my Solar Com-
pass today, particularly the latitude and bearing
apparatus, and found them correct.
A. H. Arnold Compassman June 15, 1883.

Tr. 15 N. R. 20 E.

G. S. R. M.

Chs

- 8' 6"
- From the Cor. to Secs. 31 & 32, on S. P. of
The recently established by me. I run
North bet. Secs 31 & 32,
Va. $18^{\circ} 45' E$,
descends gradually
- 40.00 Hit a sand stone $18 \times 10 \times 7$ ins. 12 ins. in
the ground for $\frac{1}{4}$ lie. Cor. marked $\frac{1}{4}$
on N. face, and raised a mound of
stone alongside. Pits impracticable
- 66.90 Cross mark 18 lks. wide Co. N. $50^{\circ} E$. + east.
- 80.00 Top of low spurber, N. E.
Hit a sand stone $17 \times 9 \times 5$ ins. 12 ins.
in the ground for Cor. 6 Secs. 29-30-
31 & 32, marked with J notch. on
S \wedge ^{5' notch on} E. edge, and raised a mound
of stone alongside. Pits impracticable
Surface rolling
Soil 3^d rate
Grass, good

Th. 15 N. R. 20 E.
chs G. S. R. M.

East. on a random line bet. Secs. 29 & 32.
Va. 13° 45' E.

Descent.

18.75 Cross Wash 11 Chs. Wide Co. N. 35° E. to ascent
40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

61.04 Th of Hill W. N. 57° E. + descent.

80.19 Substr. N. & S. line 86 Chs. S. of Cor. to
Secs. 28-29-32 & 33. Thence I run
S. 89° 23' N. on a true line bet. Secs. 29 & 32.
Va. 13° 45' E.

4010

Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor,
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. E. and W. of post 5 $\frac{1}{2}$ ft. dist. and raised
a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
post.

80.19 The Cor. to Secs. 29-30-31 & 32

Surface rolling

Soil 3^d rate

Grazing good

W. N. Galt June 16. 1883.

7p 15 N. R. 20 E,
 Chs S. & S. R. M.

Met. on a random line bet. Secs. 30 & 31.
 Va. $13^{\circ} 30' E$,

Ascend.

22.00 Sp. of Spur. 35 ft. H. brs. N. $28^{\circ} E$ + descent.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.52 Intersect W. B. of 7p. 55 Chs. N. of
 Cor. to Secs. 25-30-31 & 36 recently
 established by me. Thence I run
 N $89^{\circ} 36' E$, on a true line bet. Secs. 30 & 31
 Va. $13^{\circ} 30' E$.

40.52 Set a post 3 ft. long 3 ins. diam with marked
 stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor,
 marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
 ins. S. and N. of post $5\frac{1}{2}$ ft. dist. and raised
 a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around
 post.

80.52 Th. Cor. to Secs. 29-30-31 & 32

Surface rolling

Soil 3rd rate

Graying good. N. Miller

A. H. Arnold Compassman June 16, 1883.

Tr. 15 N. R. 20 E.

chs G. + S. R. M.

North lot. Secs. 29 + 30.

va. 336 E.

Descent gradually

35.15 Cross Wash, 8 lks. Nide Co. E. + ascent.

40.00 Set a Sand Stone 28 x 16 x 9 ins. 18 ins. in the ground for $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4}$ on N. face and raised a mound of earth alongside. Pits impracticable.

80.00 Set a Sand stone 20 x 16 x 9 ins, 14 ins. in the ground for Cor. to Secs 19 20 - 29 + 30 marked with 2 notches on S. and 5 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 2 ft. high, $4\frac{1}{2}$ ft. base. alongside.

Surface rolling

Soil 3rd rate

grazing good.

N. 15 N. R. 20 E.

chs

G. & S. R. M.

East, on a random line bet. Secs. 20 & 29.
Va. 1330 E.

Descend.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor. & ascend

66.00 To Ridge 75 ft. H. to N. 26° E & descend 90 ft.

79.61 Intersect N. & S. line. 79 No. S. of Cor. to
Secs. 20-21-28 & 29. Three Iron
S 89° 26' N. on a true line bet. Secs. 20 & 29
Va. 1330 E.

39.50

Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor.
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. E. and W. of post 5 $\frac{1}{2}$ ft. dist. and raised
a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
post.

7961

The Cor. to Secs. 19-20-29-30
Surface slightly rolling
Soil 2^d. rate
Irrigating good
No timber
M. N. Grant June 16. 1883.

Sp. 15 N. Q. 20 E.

Chs G. & S. R. M.

Met. on a random line bet. Secs. 19 + 30.

va. 1330' E.

Ascend gradually

37.50 Cross Th. of Hill bet N + S + descend

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.00 Intersuch N. B. of Th. 39 lks. N. of Cor.

to Secs. 19-24-25+30 recently es-

tablished by me. Thence Iron

N. 89 $\frac{1}{2}$ 43' E. on a true line bet. Secs. 19+30.

va. 1330' E.

40.04 Set a Sant stone, 12 x 7 x 3 ins., 7 ins.

in the ground for $\frac{1}{4}$ Sec. Cor, marked $\frac{1}{4}$ on N.

face, dug pits 18 x 18 x 12 ins. E. and W.

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.

80.04 In Cor. to Secs. 19-20-29+30

Surface rolling Prairie

Soil 2^d rate

Good grass

No Timber

A. H. Arnold Comptroller June 15, 1893.

Tr. 15 N. R. 20 E,
 Chs G. & S. R. M.

North lat. Secs. 19 & 20,

Tr. 13° 30' E,

Ascend gradually

40.00

Set a Sand stone 22 x 11 x 4 ins. 16 ins
 in the ground for $\frac{1}{4}$ Sec. Cor. Marker
 $\frac{1}{4}$ on N. face, and raised a mound
 of stone alongside. ~~It's impracticable~~

44.00

Set Hill 60 ft. H. Cor. N. E. + descend grad.

50.00

Set a Sand stone 21 x 12 x 6 ins. 15 ins. in
 the ground for Cor. to Secs 17-18-19+20 marked
 with 3 notches on S. and $\sqrt{\quad}$ 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 2 ft. high,
 4 $\frac{1}{2}$ ft. base. alongside.

Surface rolling

Soil 2^o rate

Good grass.

No timber

N. 15 N. R. 20 E.

Chs G. + S. R. M.

East, on a random line bet. Secs. 17 + 20.
Va. $13^{\circ}30' E$,

Ascend gradually

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

79.50 Intersect N. of S. line 8 poles S. of Cor.
to Secs. 16-17-20 + 21. Thence Iron
S. $89^{\circ}26' N$. on a true line bet. Secs. 17 + 20.
Va. $13^{\circ}30' E$,

39.75 Set a Sand stone. $13 \times 7 \times 4$ ins., 9 ins.
in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
face. dug pits $18 \times 18 \times 12$ ins. E. and W.
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.

79.50 In Cor. to Secs. 17-18-19 + 20.

Surface slightly rolling & slopes to East

Soil 2nd rate

Good grass,

No Timber

M. N. Grant

June 16, 1883.

7p. 15 N. R. 20 E.

Chy + S. R. M.

Wsk. on a random line bet. Secs. 18 & 19

va 1330 E.

21 ascends gradually

21.20 Th. Ridge 40 ft. H. 6rs. N. E. + descends.

37.00 Cross Flat Co. N. 39° E.

40.00 Set temporary $\frac{1}{4}$ Sec Cor.

80.48 Intersect N. P. of Tp. 78 lks. N. of
Cor. to Secs. 13-18-19 + 24 recently
established by me. Thence down
N. 89° 27' E on a true line bet. Secs. 18 & 19
va 1330 E.

40.48 Set a Sand stone, 12 x 9 x 7 ins., 7 ins.
in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
face, dug pits 18 x 18 x 12 ins. E and W
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.

80.48 Th. Cor. to Secs. 17-18-19 + 20.
Surface rolling + slopes to East.
Soil 2nd rate

Grass good - no Timber

A. H. Arnold Comptroller June 16/1883

Sp. 15 N. R. 20 E.
chs G. S. R. M.

North, bet. Secs. 17 + 18.

va 1330 E.

Ascend gradually

40.00

Set a post 3 ft. long 3 ins. diam with marked stone, 12 ins, in the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ S. on ^{n.} face, dug pits 18 x 18 x 12 ins. N. and S. of post $5\frac{1}{2}$ ft. dist. and raised a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around post.

49.00

Descend gradually

8000

Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins, in the ground for Cor. to Secs. 7-8-17 + 18 marked T. 15 N. S. 8 on N. E. R. 20 E. S. 17 on S. E. S. 18 on S. W. and S. 7 on N. W. face, with \sqsubset notch es. on S. and \surd notch es. 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 2 ft. high. $4\frac{1}{2}$ ft. base. around post.

Surface rolling
Soil 2% oats
Grass good.

Tr. 15 N. R. 20 E.
Chs G. & S. R. M.

Cast on a random line bet. Secs. 8 + 17
Va. 1336 E.

Ascend gradually

80.00 Top of Ridge bro. N. + descend grad.

400.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.09 Intersect N. & S. line 76 W. S. of Cor.
to Secs. 8 - 9 - 16 - 17. Thence I run

S 89° 27' N. on a true line bet. Secs. 8 + 17
Va. 1336 E.

4005

Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins, in the ground for $\frac{1}{4}$ Sec. Cor,
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. E. and W. of post $5\frac{1}{2}$ ft. dist. and raised
a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around
post.

80.09 The Cor. to Secs. 7 - 8 - 17 + 18

Surface slightly rolling

Soil 3^d rate

Grass good

M. N. Grant June 16, 1873

Sp. 15 N. R. 20 E,
 Chs G. + J. R. M.

Met. on a random line, bet. Secs 7 + 18,
 Va. 133° E,

Descend gradually

37.00 Cross Wash 30 kts. wide Co. N. on ascent grad

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.28 Intersect N. B. of T_p. 62 kts. N. of Cor.

to Secs. 7-12-13+18. Recently es-

tablished by me. True Iron

N. 89° 33' E, on a true line bet. Secs. 7 + 18.

Va. 133° E,

40.28

Set a post 3 ft. long 3 ins. diam with marked
 stone, 12 ins. in the ground for $\frac{1}{4}$ Sec, Cor.

marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
 ins. E. and W. of post 5 $\frac{1}{2}$ ft. dist. and raised
 a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
 post.

80.28 The Cor. to Secs. 7-8-17+18

Surface rolling

Soil 3^d. rate

Grass good

Alt. Arnold Compassman June 16. 1883.

Tp. 15 N. R. 20 E.

Chs

G. + S. R. M.

North lot. Secs. 7 + 8.

va 1330 E.

Discuss over rolling Hills.

40.00

Set a post 3 ft. long 3 ins. diam with marked stone, 12 ins, in the ground for $\frac{1}{4}$ Sec. Cor, marked $\frac{1}{4}$ S. on W. face, dug pits 18 x 18 x 12 ins. N. and S. of post $5\frac{1}{2}$ ft. dist. and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base. around post.

80.00

Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins, in the ground for Cor. to Secs, 5-6-7 + 8 marked T. 15 N. S. 5 on N. E. R. 20 E. S. 8 on S. E. S, 7 on S. W. and S, 6 on N. W. face, with 5 notch 20 on S, and 5 notch 20 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 2 ft. high, $4\frac{1}{2}$ ft. base. around post.

Surface rolling

Soil 3rd rate

(Gross good)

Mr. 15 N. R. 20 E.

Chs G. & S. R. M.

East, on a random line bet. Secs. 5 & 8.
Va. 1330 E.

Descends gradually from Cor.

16.75 Cross Draw 11 Eks. side C. N. 27' N. + 6000.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

79.88 Intusical N. & S. line 39 Eks. S. of Cor.
to Secs. 4-5-8 & 9. Thence I run
S. 89° 43' N. on a true line bet. Secs. 5 & 8.

Va 1330 E.

39.94 Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor.
marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 12
ins. E. and W. of post $5\frac{1}{2}$ ft. dist. and raised
a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around
post.

79.88 The Cor to Secs. 5-6-7 & 8.
Surface rolling
Soil 3rd rate

grass good
I carefully examined the adjustments of my Solar Com-
pass today, particularly the latitude and revers-
ing apparatus, and found them correct,
M. W. Grant June 16, 1883,

M. 15 N. R. 19 E,
 Chs G. & S. R. M.

Met. on a random line bet. Lies. 6 & 7,
 va. 13° 30' E.

ascends gradually from Cor.

35.00 Cross Wash 23 lbs mid. Co. N. + ascends gra

40.00 Sit temporary $\frac{1}{4}$ Sec. Cor.

79.90 Intimate M.P. of Twp. 46 lbs. N. of Cor.

to Lies. 1-6-7 + 12 recently es-
 tablished by me. Thence I run

N 89° 40' E. on a true line bet. Lies 6 & 7.

va. 13° 30' E.

39.90 Sit a Sand Stone 30 x 16 x 6 ins 20 ins.

in the ground for $\frac{1}{4}$ Sec. Cor. marked

$\frac{1}{4}$ on N. face, and raise a monument of
 stone alongside. Pits impracticable

79.90 The Cor. to Lies. 5-6-7 & 8.

Surface rolling

Soil 3° - rate

grazing good.

$\frac{1}{2}$ N. 5 N. R. 20 E.
Chs. 4. + S. R. 20.

North on a random line bet. Secs. 5 + 6,
Va. $1330' E$.

Slightly rolling

40.00 Set temporary $\frac{1}{4}$ Sec. Cor. + descend.

44.50 Cross Wash 20 Cks. Wide Q. N + S. + descend.

79.93 Intersect N. B. of T. 8 Cks. E. of Cor. to
Secs. 5-6-31 + 32 manually estab-
lished by me. Thence I run
S. 3' E. on a true line bet. Secs. 5 + 6.

Va. $1330' E$.

39.93 Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor.
marked $\frac{1}{4}$ S. on N. face, dug pit's 18 x 18 x 12
ins. N. and S. of post $5\frac{1}{2}$ ft. dist. and raised
a mound of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base around
post.

79.93 The Cor. to Secs. 5-6-7 + 8.
Surface slightly rolling + slopes to North
soil 2^o rather
grazing good

I carefully examined the adjustments of my Solar
Compass today, particularly the Celestial arc
in being apparatus, and found them correct
A. H. Arnold Compassman June 16, 1883.

Tp. 15 N. R. 20 E.
G. + S. R. 9M.

General Description

The Surface of this Township is a rolling prairie with the general slope to the N. E.

It is covered with a fine growth of grass, and is fine grazing land.

The soil is sandy and is from 2" to 4" rate

There is no timber except a few bunches of scrubby Junipers along the ~~edges~~ in about the center of the Township

Sand stone is abundant in all parts.

BOOK 204

For final oaths see
Book No 13.

U. S. Surveyor General's Office,

Tucson, Arizona July 14, 1884,

The foregoing Field Notes of the Survey of the

Subdivision lines of
Township 15 North
Range 20 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-
ted by M. V. Grant,

Deputy Surveyor, under his contract of the Seventh

day of August, 1882, 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 L. Johnson
Surveyor General.