

BOOK 230

Book No 12

Copied
Platted
Indexed
Compared

No-230
Field Notes

OF THE SURVEY OF THE

SUBDIVISION LINES

-OF-

Township 16^N Range 19^E

Gila and Salt River Base and Meridian

ARIZONA.

By M. N. Grant D. S.

under contract dated Aug 7th 1882.

Survey commenced June 22nd 1883.

Survey completed June 25th 1883.

230

No-230

1A

INDEX DIAGRAM.

Township 16 N
 Range 19 E

6	60	5	44	4	33	3	23	2	11	1
59		58		43		32		21		10
7	57	8	42	9	31	10	20	11	9	12
56		55		41		30		19		8
18	54	17	40	16	29	15	18	14	7	13
53		52		39		28		17		6
19	51	20	38	21	27	22	16	23	5	24
50		49		37		26		15		4
30	48	29	36	28	25	27	14	26	3	25
47		46		35		24		13		2
31	45	32	34	33	23	34	12	35	1	36

Gila and Salt River, Arizona.

ARIZONA.

Township 16 North, Range 19 East
Gila + Salt River Meridian

For preliminary notes
see Book No 1.

Survey commenced June 22nd 1885
Survey completed June 25th 1885

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

Tp. 16. N. R. 19 E.

Chs

G. + S. R. M.

From the Cor. to Secs. ^{1,2} 35 + 36, on S. B. of
 Tp. recently established by me. From
 North to Secs. 35 + 36.
 Va 13° 30' E.

Descend.

40.00 Set a post 3 ft long 2 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 $\frac{1}{4}$ ft, high. 3 $\frac{1}{2}$ ft. base. around
 post.

50.00 Set a post 4 ft. long 4 ins. square, with marked
 stone, 12 ins, in the ground for Cor. to Secs.
 25-26-35+36 marked T. 16 N. S. 25 on
 N. E. R. 19 E. S. 36 on S. E. S, 35 on
 S, W, and S, 26 on N, W, face, with 1 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. around post.

Surface rolling rocks
 Soil 3° + 4° Tals
 Grass fair
 Scattering Juniper + River Birch.

Tr. 16, N. R. 19 E.
 Chs G. & S. R. M.

East, on a random line bet. Secs. 25 + 36
 Va. $13^{\circ}30' E$.

Descend gradually

5.00 Cross Wash 20 lbs. Wide Co. N. + ascend grad.

35.00 Top of Spur loss. N. 10° N. + descend

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

80.21 Intusret E. B. of Tr. 11 lks. S. of
 Cor. to Secs ^{Just delineated by mky} 25-30-31-36. ^{thru} from
 S. 89° 2' N. on a true line bet. Secs. 25 + 36.

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

40.10

Set a Sand stone, $20 \times 16 \times 8$ ins., 14 ins.
 in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
 face. dig pits $18 \times 18 \times 12$ ins. E. and N.
 of Stone $\frac{1}{2}$ ft. dist. and raised a mound of earth
 $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. alongside.

80.21

The Cor. to Secs, 25-26-35 + 36.

Surface rolling + rocky

Soil 3° + 4° rate

Grass Fair

Scattering Juniper + Prairie Bush.

N. 16 N. R. 19 E.

chs

G. & S. R. M.

North lot. Secs. 25 & 26

va. 1330' E.

Descend gradually

40.00 Set a Sand stone $24 \times 8 \times 4$ ins. 18 ins.

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

80.00

Set a Sand stone $20 \times 6 \times 4$ ins, 14 ins. in the ground for Cor. to Secs, 23-24-25 marked with 2 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 rolling

Soil E. rate

Grazing fair

Scattering Juniper.

Tr. 16 N. R. 19 E.
 Chs G. & S. R. M.

East, on a random line bet. Secs. 24 & 25
 Va. 133° 0' E,

Descent gradually

24.90 Cross wash 25 lbs. wide Cr. N 10° E, + descent.

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

45.00 To Divide 40 ft. ht. Crs. N 20° E, + descent

80.25 Intersect E. B. of Tr. 27 lbs. S. of Cor.,
 Just established by my
 to Secs. 19-24-25 & 30; Thence down
 S. 89° 46' W, on a true line bet. Secs. 24 & 25.

Va. 133° 0' E,

80.12 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.

80.25 To Cor. to Secs. 23-24-25 & 26

Surface rolling

soil 3° rate

Graying fair

Sealing Imper.

Tr. 16 N. R. 19 E,
 Ch. G. & S. R. M.

North lot Sec. 23 & 24
 Va. 13° 50' E.

410.00 descent gradually
 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.

56.73 Cross Wash 34 lbs. N. A. N 47° E. + descent
 8000 Set Sand Stone 26 x 14 x 4 ins 1 ft. in
 in the ground for Cor to Sec. 13-14-23 +
 24 marked with 3' notches on S.
 and 1 notch on E. edges. and raised
 a mound of stone alongside
 Pits impracticable
 Surface rolling
 Soil 3^d rate
 Grazing good
 Scattering Juniper in north.

Tr. 16 N. R. 19 E.

chs G. + S. R. M.

East on a random line cut, Sec. 13124
Va. 13°30' E.

Descent.

- 5.50 Cross creek 28 fms. wide Co. N 25° E, + ascen.
- 33.00 Tr. divide 45 ft. High br. N. 30° E. + descent.
- 40.00 Set temporary $\frac{1}{4}$ Sec. Cor.
- 80.11 Intersub E. B. of Tr. 31 chs. S. of Cor.
Just established by me
to Sec. 13-18-19024, Amel Down
S. 89°47' N. on a true line cut Sec. 13024
Va. 13°30' E.

40.45 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.

80.11 The Cor. to Sec. 13-14-23 & 24
Surface rolling
Soil 3rd rate
Grass good
Scattering *Impatiens*

16. N. R. 19 E.

chs G. S. R. M.

North lot. Secs. 13 + 14.

Ra 13° 36' E.

Ascend gradually

140.00

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

86.00

Set a post 1 ft. long 4 ins. square, with marked slope, 12 ins. in the ground for Cor. to Secs. 11-12-13+14 marked T. 16 N. S. 12 on N. E. M. 19 E. S. 13 on S. E. S. 14 on S. W. and S. 11 on N. W. face, with 4 notch 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. around post.

Surface rolling
Soil 3^d rate
Graying good

Tr. 16 N. R. 19 E.

cls G. S. R. M.

Cash on a random line bet. Secs. 12 & 13.
 Va. 1830' E.

Descend over rolling land.

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

79.80 Intusert E. 1/2 of Tr. 5 Cks. S. of Cor.
 to Secs. 12-7-18 & 13, ^{first established 24 mo} thence from
 S. 89° 58' N. on a true line bet. Secs. 12 & 13.
 Va. 1830' E.

39.90

Set a post 3 ft. long 3 ins. diam with marked
 stone, 19 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.

79.80

The Cor. to Secs. 11-12-13 & 14
 Surface rolling
 Soil 3^d rate
 Grazing good.

Apr. 16 N. R. 19 E,
 Chs G. S. R. M.

North, back Sec. 11 & 12.

Ta 1380 E.

Ascent 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 17 x 9 x 4 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, and raised a mound of stone along side.

Pits impracticable.

Surface rolling

Soil 3^d. Rate

Grass good

Th. 16 N. R. 19 E.
Chs G. & S. R. M.

East on a random line bet Secs. 1 + 12,
Va. 1530' E,

ascend.

5.00 Top of low divide 75 ft. H. bro. N. + descent.

40.00 Set leaping 1/2 Sec. Cor.

80.46 Intersection E. B. of Th. 41 W. S. of Cor.
Just established 1/2 mi.
to Secs. 1-6-7+12. Thence I run
S. 89° 42' N. on a true line bet Secs. 1 + 12,

Va. 1530' E.

40.23 Set a sand stone 16 x 11 x 3 ins. 11
ins. in the ground for 1/2 Sec. Cor.
Marked 1/2 on N. face, and raised
a mound of stone alongside.

80.46. *the cor to sec 1, 6, 11, and 12.*
Site impracticable.

Surface rolling
Soil 3^d rate
Grass good.

Tr. 16 N. R. 20 E.

Chs G. & S. R. M.

North on a true line bet. Secs 1 + 2.
Va. 1330' E.

Descend gradually

40.00 Set a Sand stone, 14 x 8 x 4 ins., 9 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 $\frac{1}{2}$ ft. dist. and raised a mound of earth
1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. alongside.

86.10 Turned. 4" Sand. Post. North 13.21 Chs
N. of Stand Cor. to Secs. 35 + 36, recently
established by me.

Set a Post 4 ft. long 4 in sq. with marked stone
nails in the ground for C.C. Cor. to Secs. 1 + 2 Marked
C.C. 716 N. R. 19 E. on S. Sec 1 on E. + S. 2 on
N. faces. north & notch on E + 5 notches
on N. faces. dug pits 18 x 18 x 12 ins. S. E. + N.
of post 5 $\frac{1}{2}$ ft. dist. and raised a mound
of earth 2 ft. high 4 $\frac{1}{2}$ ft. base around
post.

Surface slopes to North
Soil gravelly + 3% rate
rainy post

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

M. N. Grant June 22, 1883,

St. 16 N. R. 19 E.

chs G. & S. R. M.

From the Cor. to Secs. ²³ 34 + 35 on S. P. of
St. recently established by me. I run
North bet. Secs. 34, & 35,
Va 1800' E,

ascend gradually

40.00 Set a Sand Stone 16 x 8 x 4 ins. 11 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

80.00 Set a Sand stone 14 x 8 x 6 ins, 9 ins. in
the ground for Cor. to Secs, 26-27-34 & 35 marked
with 1 notch - 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 3^d rate
Wagon good.

Tp. 16. N. R. 19 E.

Chs G. & S. R. M.

East, on a random line bet. Secs. 26 & 35
 Va. 13° 30' E.

Ascend gradually

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

79.80 Intersect N. rd. line 22 W. N. of Cor.
 to Secs. 25-26-35 & 36. Thence I run

N. 89° 51' W. on a true line bet. Secs. 26 & 35
 Va. 13° 30' E.

40.40 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.

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

Surface rolling

Soil 3^d - rate

grazing good.

Th. 16 N. R. 19 E.

Ch. G. & S. R. M.

North lat. Secs. 26 + 27
 Va. 15° 36' E.

Descent gradually

40.00 Set a Sand Stone 18x14x4 ins. 12 ins.
 in the ground for $\frac{1}{4}$ Sec. Cor. Mark
 $\frac{1}{4}$ on N. face and raised a mound
 of stone alongside. Pits impracticable

75.00 Cross track 30 lks. N. side br. N. 46° E. + ascend

76.46 To point 75 lks. E. of Cabin

80.00 Set a Sand Stone 30x24x6 ins. 20 ins.
 in the ground for Cor. to Secs. 22-
 23-26 + 27. Marked with 2 notches
 on S. and 2 notches on E. edges and
 raised a mound of stone alongside.
 Pits impracticable.

Sand rolling rocky
 Soil 3° to 4° to 6°

Grazing fair

Scattering Juniper along track

Tr. 16 N. R. 19 E.
Chs G. + S. R. M.

East on a random line bet. Secs. 23 + 26
Va. 18° 30' E.

Descend.

- 5-25 Cross Wash 25 lks. wide Cr. N. 20° E. + around
40-00 Set Temporary to Sec Cor.
80-29 Intersect N. + S. line 56 lks. S. of Cr.
to Secs. 23-24-25 + 26 Thence S. run
S. 89° 36' N. on a true line bet. Secs. 23 + 26.
Va. 18° 30' E.

40-14 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.

80-29 The Cor. to Secs. 22-23-26 + 27
Surface rolling + rocky
Soil 3^d + 4th Rate
Grass fair
Scatling *Amipus* along Wash.

Apr. 16 N. R. 19 E.

cls G. S. R. M.

North Cut. Secs. 22 & 23,

Na. $18^{\circ} 36' E$,

Ascend gradually

4000

Set a post 3 ft. long 3 ins. diam with marked stone 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor, marked 15 on N. face, dug pits 18 x 18 x 12 ins. N. and S. of post $5\frac{1}{2}$ ft. dist. and raised mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around post.

5000

Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins. in the ground for Cor, to Secs, 14-15-22 & 23 marked T. 16 N. S. 14 on N. E. R. 19 E. S. 23 on S. E, S, 22 on S, W, and S, 15 on N, W, face, with 3 notch es on S, and 2 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

Sail 3' 7" etc

Good grazing

Thick bunches of Juniper & Pinon Pines

Tr. 16 N. Q. 19 E.

Chi

G. & S. R. M.

East on a random line bet. Secs. 14 & 23.

Tr. 1330 E.

Ascend gradually

44.14 Tr. divide 75 ft high, brs. N. 20° E. & ascend.

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

80.21 Interset N. & S. line 18 lks. N. of Cor.
to Secs. 13-14-23 & 24. Hence I run

N 95° 2' W. on a true line bet Secs. 14 & 23

Tr. 1330 E

40.10 Set a sand stone, 18 x 10 x 6 ins., 12 ins.
in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
from 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.

80.21 The Cor. to Secs. 14-15-22 & 23

Surface rolling

Soil 3rd salt

Irrig. good

Thick bunches of Juniper & Pinus Bush.

19
 Th. 16 N. R. 19 E.

Chs. G. & S. R. M.

North Luke Secs. 14 + 15.

va. 13° 30' E.

Descend gradually

15.00 Cross Wash 20 Chs. Mid. Co. N 40° E. + 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.

45.25

Top of Divide 30 ft High brs. N. 40° E. + descend

80.00

Set sand stone 2 4 x 1 1 x 6 ins. 18 ins. in the ground for Cor. to Secs. 10-11-14 + 15 marker with 4 notches on S. + 2 notches on E. edges, and raise a mound of stone alongside Pits in practice's side.

Surface rolling

Soil 3? rate

Grazing good.

Tr. 16 N. R. 19 E.
G. S. R. M.

Each on a random line bet. Secs. 11 & 14.
Va 1330' E.

ascend gradually

10.00 Top of Divide 60 ft. high bro. N. 20° E. & descend

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

79.90 Indirect N. S. line 45 ths. S. of Cor. to

Secs. 11-12-13 & 14 Thence I run

S. 89 $\frac{1}{2}$ ° W. on a true line bet. Secs. 11 & 14

Va. 1330' 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.

79.90 The Cor. to Secs. 10-11-14 & 15.

Surface rolling
Soil 3' & at
grazing good.

Apr. 16. N. R. 19 E,

G. + S. R. M.

North lat. Decs. 10 + 11.

va 13° 30' E,

Descent gradually

4000

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.**

45.15 Cross Draw Co. N. E. + ascent grad.

80.00 Set a Sand Stone 24 x 14 x 4 ins. 18 ins in the ground for Cor. to Decs. 2-3-10 + 11 Marker with 5 notches on S. and 2 notches on E. edges, and raised a mound of stone along side - Pits impracticable.
Surface nearly level
Soil 5th rate
Grass good.

Th. 16 N. Q. 19 E.

Chs

G. & S. R. M.

East on a random line bet. Secs. 2 & 11.

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

Ascent gradually

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

79.71 Intersect N. & S. line 17 lks. S. of Cor.

to Secs. 1-2-11 & 12. Thence I run
S. $89^{\circ} 53' N$. on a true line bet. Secs. 2 & 11.

va. $3^{\circ} 30' E$.

39.25 Set a sand stone $16 \times 10 \times 2$ ins., 10 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.

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

Surface nearly level

Soil 3^d. rate

Grass good.

Th 16 N. Q. 19 E.
Chs G. & S. R. M.

North on a true line lub. Secs. 2 & 3.

ra. 13°30' E.

Ascend very gradually

4000 Set a Sand stone, 6 x 9 x 4 ins. // 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.

4600

Descend gradually

8646

Intusub 4th Stand Post North 1316 Chs. N.
of the Stand. Cor. to Sects. 17, 18, 19 & 20 recently
established by me

Set a Sand stone 16 x 10 x 6 ins. // ins. in the
ground for the C. C. cor. to Secs. 2 & 3.
marker C. C. with 2 notches on E. and 4
notches on N. edge, dug pits 18 x 18 x 12
ins. S. 20 ft. of stone $6\frac{1}{2}$ ft. deep and
raised a mound of earth 2 ft high & $4\frac{1}{2}$
ft base alongside.

Surface rolling

soil 3:2 rate

Good grass.

I carefully examined the adjustment of my
Solar Compass today, particularly the Calibrated and
Densifying apparatus, and found them correct.
A. H. Arnold Compassman. June 22^d 1883.

Dr. 16 N. R. 19 E.

chs. S. + S. R. M.

3.4

From the Cor. to Secs 33 + 34 on the S. B.
of Tp. Recently established by me. From
North cut. Secs. 33 + 34.

N. 13° 30' E.

40.00 Set a Sand stone 24 x 10 x 3 ins. 18 ins.
in the ground for $\frac{1}{4}$ Sec. Cor. Marked
 $\frac{1}{4}$ on W. face, and raised a mound
of stone alongside. Pits impracticable

80.00 Set a Sand stone 20 x 12 x 4 ins. 14 ins.
in the ground for Cor. to Secs 27-
28-33 + 34. Marked with 1 notch
on S. + 3' notches on E. edges, and
raised a mound of stone alongside.
Pits impracticable

Surface rolling

Soil 3^d rate

Growing good

Setting Juniper Bushes

Sp. 16. N. R. 99 E.
Chs G. + S. R. M.

East on a random line bet. Secs. 27 & 34.
va. 1330' E.

Descent gradually

34.35 Cross Wash 35 lbs. wide C. N. + asc. S. gas.

40.00 Sit temporary 4 Sec. Cor.

80.16 Intersect N. + S. line 30 lbs. S. of Cor.

to Secs. 26-27-34 + 35 Thru Iron
S. 89° 43' N. on a true line bet. Secs. 27 + 34
va. 1330' E.

40.08 Sit a sand stone 30 x 16 x 7. ins 20 ins.
in the ground for 1/2 Sec. Cor. Marked
1/2 on N. face, and raised a mound
of earth alongside. Pits impracticable.

80.16 The Cor. to Secs. 27-28-33-34

Surface rolling

Soil 3^d rate

Grazing good

Scatter Juniper brush

T₁₆ N. R. 19 E.

Chs G. + S. R. 9m.

North bet. Secs. 27 & 28.

Va. 13° 30' E.

Descend gradually

40.00 Set a Sand stone 28 x 8 x 4 ins. 20 ins. in the ground for $\frac{1}{2}$ Sec. Cor. Mark $\frac{1}{4}$ on N. face & raised a mound of stone alongside. Pits impracticable

50.00 Set a Sand stone 20 x 8 x 4 ins. 14 ins. in the ground for Cor. to Secs. 21-22-27 & 28 marked with 2 notches on S. and 3 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 3^d rate

Grazing fair

There is a Cabin & tanks in this Sec. 3.6 @.

South 75 lbs. west of Cor to Secs.

22-23-26 & 27

Tr. 16 N. R. 19 E.
 Chs. G. & S. R. M.

East, on a random line bet. Secs. 22 & 27.
 Va. 13° 30' E.

descends gradually

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

79.81 Intersect N. & S. line 10 kts. N. of Cor.
 to Secs. 22-23-26 & 27 True Iron

N. 89° 56' W. on a true line bet. Secs. 22 & 27
 Va. 13° 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 In Cor. to Secs. 21-22-27 & 28
 Surface rolling
 Soil 3^d rate
 grazing fair

Tr. 16. N. R. 19 E,
Chs. G. F. S. R. M.

North but Secs. 21 + 22,
Ta. 1330' E,

Ascend gradually

11.00 Top of Divide 30 ft. high br. N 55° E. + 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.

80.00 Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins, in the ground for Cor, to Secs, 15-16-21+22 marked T. 16 N. S. 15 on N. E. R. 19 E, S. 22 on S. E, S, 21 on S, W, and S, 16 on N, W, face, with 5 notch es on S, and 3 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 3^d rate
Grazing good.

Tp. 16 N. R. 19 E.
 Chs G. & S. R. 9m.

East on a random line bet. Secs. 15 & 22,
 Va. $13^{\circ}30' E$,

Ascend gradually

20.00 Th Divide 38 ft. high. brs. $N.40^{\circ} E$, & descent

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

75.11 Cross Wash 16 lks. wide Co. N.E. & ascend grad.

79.93 Intersect N. & S. line 23 lks. N. of Cor. to

Secs. 14-15-22 & 23. Since from

$N.89^{\circ}50' W$. on a true line bet. Secs. 15 & 22.

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

89.97 Set a Sand stone, $28 \times 12 \times 6$ ins., 20 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. Σ . 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.

79.93 Th Cor. to Secs. 15-16-21 & 22,

Surface rolling

Soil 3rd rate

Grazing good.

Tr. 16 N. R. 19 E.

chs G. & S. R. M.

North lot. Secs. 15 + 16

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

31.00 Cross Wash 30 lks. wide. Co. N. $26^{\circ} E$. + descent.

40.00 Set a Sand stone, $24 \times 10 \times 6$ ins., 18 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 $24 \times 4 \times 4$ ins., 18 ins. in the ground for Cor, to Secs, 9-10-15 + 16 marked with X notch on S. and 3 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 rolling
Soil 3^d rate

Grass good

Scattering Juniper along Washes.

Apr. 16 N. R. 19 E.
chs G. + S. R. M.

East, on a random line bet. Secs 10 + 15
ra. 13° 30' E.

descend gradually

- 16.00 Cross Wash 25 lks. Side Co. N. + ascend
40.00 Set temporary $\frac{1}{4}$ Sec. Cor.
53.00 Th Divide 45 ft. high bet. N. + descend gradual
65.00 Cross Draw Co. N. + ascend gradually
80.15 Intersect N. + S. line 16 lks. S. of Cor. to
Secs. 10-11-14-15. Thence I run
S 89° 33' W. on a true line bet. Secs. 10 + 15
ra. 13° 30' E.

40.07 Set a Sand stone, 14 x 10 x 7 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.

80.15 Th Cor. to Secs 9-10-15-16.

Surface rolling

Soil 3° rate

Grass good

Sealing Juniper along Washes.

T. 16 N. R. 19 E.

chs

G. & S. R. M.

North lot. Secs. 9 & 10.

Va. 18°30' E.

Descend gradually

4000

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.

5000

Set a Sand stone 6x2x5 ins, 11 ins. in the ground for Cor, to Secs, 3-4-9+10 marked with 5 notches on S. and 3 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 3^d. rate

Grass good.

Tp. 16 N. R. 19 E.
Chs G. + S. R. M.

East. on a random line bet. Secs. 3 + 10.

va. $133^{\circ}0' E$.

Descend gradually

14.10 Cross Sag Co. N. + ascent.

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

80.26 Intersect N. + S. line 59 lks. S. of Cor.

to Secs. 2-3-10 + 11. Thence Iron

S. $89^{\circ}35' N$. on a true line bet. Secs. 3 + 10.

va. $133^{\circ}0' E$.

40.13 Set a Sawt Stone $19 + 12 \times 5$ ins. 12 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

80.26

the Cor. lines 8-45 9-10
Surface slightly rolling

Soil 3? rate

Grass good.

Sp. 16 N. R. 19 E,
 Chs G. & S. R. M.

North on a true line lat. Sec. 3 & 4.
 Va 10,000 E.

descend gradually

40000 Sit a Sand Stone 14 x 12 x 3 ins. 9 ins
 in the ground for 2 Sec. Cor, Marker
 4 on N. face, and raise a mound
 of Stone alongside. Put's impracticable

87.12 Sit a Sand Stone 14 x 12 x 3 ins. 9 ins
 in the ground for 2 Sec. Cor, Marker
 4 on N. face, and raise a mound
 of Stone alongside. Put's impracticable

Sit a Rock 4 ft long 4 ins sq. with marker
 stone 12 ins. in the ground for the S. C.
 Cor. to Sec. 3 & 4. Marker C. C., T. 16 N.
 R. 19 E. on S. Sec. 3 on E. and S. 4 on N.
 faces. with 3 notations on E. & N. faces.
 dug pits 18 x 18 x 12 ins. S. E. & N. of
 each 5 ft. deep, and raised a mound
 of earth, about 1 ft high, in the
 center of each pit.
 Surface only
 soil 3' or 4' rate
 good grass.
 Scattering Juniper.

I carefully examined the adjustment of my Survey
 Compass today, particularly the latitude and
 diving apparatus, and put them correct.
 W. N. Grant. June 23rd - 1853.

Sp. 16 N. R. 19 E.

Chs G. & S. R. M.

From the Cor. to ⁴⁵⁻ Secs. 32 + 33 on the S. R. of T_h.
 recently established by one Town
 North bet. Secs. 32 + 33.

ra. 13° 36' E.

ascent gradually

- 24.00 Descend grad.
- 40.00 Set a Sand stone 18 x 18 x 4 ins. 12 ins.
 in the ground for $\frac{1}{4}$ Sec. Cor. Marker
 $\frac{1}{4}$ on N. face, and raised a mound of
 stone alongside. Pits impracticable
- 80.00 Set a Sand stone 22 x 10 x 4 ins 16 ins. in
 the ground for Cor. to Secs. 28-29 -
 32 + 33. Marker with 1 notch on S.
 and 4 notches on E. edges, and
 raised a mound of stone alongside.
 Pits impracticable.
- Surface rolling
 Soil 4 Feet
 Scattering Juniper Bush.

Tr. 16 N. R. 19 E.
 Chs G. & S. R. M.

East. on a random line bet. Secs. 28 & 33.
 Va. 13° 30' E.

Ascend gradually

25.00 Tr. Ridge 100 ft. high bet. N. & S. & descend

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

79.78 Intusuec N. & S. line 4 flks. S. of

Cor. to Secs. 27-28-33 & 34. Thence from

S. 89° 39' N. on a true line bet. Secs 28 & 33.

Va 13305.

39.87 Sit a Sand stone 36 x 8 x 4 ins. 24

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

Markers $\frac{1}{4}$ on N. face, and raised

a mound of stone alongside

Pits, impracticable

79.73 The Cor. to Secs. 28-29-32 & 33.

Surface valley rocky

Soil 47ate

Grass poor

Scatt. Juniper Bush

Tr. 16 N. R. 19 E.

Chs G. & S. R. M.

North lot, Secs. 28 & 29,
T. 1330' E.

Descent gradually

40.00

Set a Sand stone, 8 x 10 x 3 ins., 2 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.

44.00

Descent gradually

64.00

Descent grad.

80.00

Set a Sand stone $3\frac{1}{2} \times 5 \times 4$ ins., 24 ins. in the ground for Cor, to Secs 20-21-28, 29 marked with 2 notches on S. and 4 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. alongside.

Surface rolling

Soil 3rd rate

Grass good.

Th. 16 N. R. 19 E,
 Ch. G. + S. R. M.

East on a random line bet. Les. 21 + 28,
 va. 13°30' E.

Ascend.

30.00 Top Spur 25 ft high, brs. N 20 E, + descend

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

79.60 Intersect N. + S. line 61 lks S. of Cor.

to Les. 21-22-27 + 28. Thence Iron

S. 59°34' N. on a true line bet. Les. 21 + 28,

va. 13°30' E.

39.80 Set a sand stone 14 x 8 x 6 ins. gips
 in the ground for $\frac{1}{4}$ line. Cor. Marked

$\frac{1}{4}$ on N. face, and raised a row of
 5 stones along side. Pits impracticable

79.60 Th. Cor. to Les. 20-21-28 + 29

Surface rolling

Soil 3" water

Mass good.

Tr. 16 N. R. 19 E.,
 Ch. G. + S. R. M.

North. bet. Secs. 20 + 21.
 Va. $13^{\circ} 30' E.$

Descend gradually

40.00 Set a Sand stone, $25 \times 12 \times 4$ 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.

55.00 Cross Nash 20 Cks. Wide C. N. $75^{\circ} E.$ + ascend.

80.00 Set a post 4 ft. long 4 ins. square, with marked
 stone, 12 ins. in the ground for Cor, to Secs,
 16-17-20-21 marked T. 16 N. S. 16 on
 N. E. R. 19 E. S. 21 on S. E, S, 20 on
 S, W, and S, 17 on N, W, face, with 3 notch
 20 on S, and 4 notch 20 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. around post.

Surface rolling

Soil 3^d rate

Grass grows

Scattered Juniper

Apr. 16 N. R. 19 E,
 Cho G. & S. R. M.

East. on a random line bet. Secs. 16 & 21,
 Va. 13° 30' E.

Ascend gradually

- 40.00 Sit temporary $\frac{1}{4}$ Sec. Cor.
 55.00 Th. divide 40 ft. high bet. N. & descent,
 73.00 Cross Wash 30 Cks. wide ^{to} N 6° E. & ascend
 80.26 Intersect N. & S. line 35 Cks. S. of Cor.
 to Secs. 15-16-21 & 22. Then I run
 S. 89° 45' N. on a true line bet. Secs. 16 & 21,
 Va. 13° 30' E.

- 40.13 Sit a sand stone 16 x 12 x 4 ins. 11 ins.
 in the ground for $\frac{1}{4}$ Sec. Cor. Marked
 $\frac{1}{4}$ on N. face, and raised a mound
 of stone alongside. Not impracticable

80.26 Th. Cor. to Secs. 16-17-20 & 21

Surface rolling

Soil 3^d rate

Grass good

Scattering Juniper.

7.16 N. R. 19 E,
chs G. & S. R. 2m.

North lat. Sec. 16 177,
ra, 13° 30' E,

Descent gradually

18.25 Cross Wash 25 lbs. side e. N 40° E. & descent,
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.

68.18 Th Divide 38 ft. brs. N 60° E. & descent
80.00

Set a Sand stone $6 \times 10 \times 6$ ins, 12 ins. in the ground for Cor, to Secs 8-9-16 + 17 marked with 4 notches 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. alongside.

Surface valley

Soil 3^d rate

Grazing good

Seating juniper

M 16 N. R. 19 E,
Chs G. & S. R. M.

East on a random line bet Secs. 9 + 16
ra. $13^{\circ}30' E$.

Descent gradually

30.40 Cross track 40 lks wide Co. $N50^{\circ}E$, + ascent

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

47.28 To Divide 45 ft high bro. N.

79.91 Intersect N. & S. line 19 lks. N. of Cor.

to Secs. 9-10-15+16. Thence down
N. $89^{\circ}33' N$ on a true line bet Secs. 9+16
ra. $13^{\circ}30' E$.

39.76 Set a Sand stone, $16 \times 9 \times 7$ ins., 11 lbs.
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.

79.91 To Cor. to Secs. 8-9-16+17.

Surface rolling

Soil 3? water

Grazing good

Scattering Juniper Bush

T. 16 N. R. 19 E.

Chs G. S. R. M.

North lot. Secs 8 + 9

ra 13° 30' E.

Descent gradually

40.00 Set a sand 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. 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, 4-5-8+9 marked T. 16 N. S. 4 on N. E. R. 19 E. S. 9 on S. E. S, 8 on S, W, and S, $\sqrt{\quad}$ 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 rolling

Soil 3^d rate

Grazing good.

Th. 16 N. R. 19 E.
Chs G. & S. R. M.

East. on a random line bet Secs. 4 + 9
va. $13^{\circ} 30' E$.

Descend gradually

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

79.61 Introduce N. & S. line 16 N. S. of Cor.
to Secs. 3-4-9+10. Thence I run
S. $89^{\circ} 53' N$. on a true line bet. Secs. 4 + 9
va. $13^{\circ} 30' E$.

39.80 **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.**

79.61 Th. Cor. to Secs. 4. 5. 8 + 9.

Surface rolling

Soil 3^d rate

Graying good

Th. 16 N. R. 19 E.
Ch. G. & S. R. M.

North, on a true line bet. Secs. 4 & 5.
Va. 13° 30' E.

Descent gradually

4000 Set a Sand stone, 16 x 14 x 4 ins. 11 in.
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.

87.40 Intersect H Sand Bar, north $56^{\circ} 5'$ E. of
Stand. Cor. to Sec. 32030, recently
established by me.

Set a Rock, 4 ft long x 4 ins. sq. with marked stone
12 ins. in the ground for C. Cor. to Secs.
4 & 5. marker C.C. 1, 16 N. R. 19 E, on S.
54 on. East S. 5 on N. faces. with 4 notches
on E. & 2 notches on N. faces. dug pits
18 x 18 x 12 ins. S. 20 N. of post. 5 ft.
dist. and raised a mound of earth 2 ft.
high 4 ft base around post.

Surface rolling
Soil 3 $\frac{1}{2}$ to 4
Grass good.

I carefully examined the adjustment of my Solar
Compass today, particularly the latitude and
sighting apparatus, and found them
Correct.

Apr. 16 N. R. 19 E.
 Chs G. & S. R. M.

5.6

From the Cor. to Secs, 31 & 32 on S. R. 19 E.
 Th. recently established by me from
 North lat. Secs, 31 & 32.
 Va. 133° E.

Descend gradually

40.00

Set a sand stone, 17 x 11 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. 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.

52.00

Enter Juniper Brush

80.00

Set a sand stone 20 x 9 x 4 ins., 12 ins.
 in the ground for Cor. to Secs,
 29-30-31 & 32 marked with
 1 Notch on S. and 5 Notches on
 E. side, and raised a mound of
 stone alongside. Pits in front of the
 surface, soil
 soil 6" - 10"
 from foot
 1 bear Juniper Brush

Apr. 16 N. R. 19 E.
Ch. G. & S. R. M.

Cash. on a random line bet. Secs. 29 & 32,
Ra. 13° 30' E.

Ascent gradually

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

61.00 Cross track 10 Chs. wide Co. N. 13° N. + ascent grad.

80.27 Intusect N. & S. line 16 Chs N. of Cor. 5

Secs. 28-29-32 & 35. Thence I run

N. 89° 55' W. on a true line bet. Secs. 29 & 32

Ra. 13° 30' E.

40.14 Set a sand stone 18 x 13 x 4 ins, 12 ins. in
the ground for $\frac{1}{2}$ Sec. Cor. Mark it $\frac{1}{2}$

on N. face, and raise a mound
of stone along-side pits in practical

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

Surface slightly rolling

Soil 3^d rate

Grass good

Scattering Juniper

M. N. Grant

June 25. 1883.

Sp. 16 N. R. 19 E.
Chs G. + S. R. 20.

Wash, on a random line bet. Secs. 30 + 31
Va. 1330' E.

descend gradually

- 40.00 Set temporary 4 Sec. Cor.
53.10 Cross Wash 1/5th of side C. N. r. ascen
78.79 Intrench ^{By} ~~W~~ line 21 lks. N. of cor
to Secs. 25-30-31 + 36, nearly es-
tablished by me. Thence I run
N. 89° 51' E. on a true line bet. Secs. 30 + 31
Va. 1330' E.

- 38.79 Set a Sandstone 22 x 17 x 3 in 15
ins. in the ground for 4 Sec. Cor.
Marker 4 on N. face, and around
a mound of stone alongside.

48.79 Pits impracticable
to cor to west. 29. 30. 31 + 32

Surface rolling

Soil Sandy + 4th rate

Grass fair

Scattering Juniper Bush

A. H. Arnold Comptroller June 25, 1883

Tp. 16 N. R. 19 E.

chs G. + J. R. M.

North lat. Secs. 29 + 30

ra. 1380' 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 $\frac{N}{W}$ 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.

20.00

Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins, in the ground for Cor, to Secs, 19.20-29-30 marked T. 16 N. S. 20 on N. E. R. 19 E. S. 29 on S. E, S, 30 on S, W, and S, 19 on N, W, face, with 2 notch es on S, and 5 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

Tail 4 rats

Grass fair

Scattering Juniper Bush

Tp 16 N. R. 19 E.

chs G. & S. R. M.

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

Descend gradually

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

60.00 Cross Wash 20th, Mile Co N 55° E. + ascend

80.34 Intersect N. & S. line 22 lks. S. of Cor.

to Secs. 20-21-28+29 Thence from

S. 89° 5' N. on a true line bet Secs 20 & 29

va 1330 E.

4017

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

8034 The Cor. to Secs. 19-20-29+30

Surface rolling

Soil 3rd rate

Grass good

Setting Juniper Bush

M. N. Wash June 25th 1883.

Sp. 16 N. R. 19 E.
Ch. G. & S. R. M.

Met. on a random line bet. Secs. 19 & 30,
T₁₄ 1330' E.

Account

- 4000 Sit temporary $\frac{1}{4}$ Sec. Cor.
57.71 Cross Wash 19 lks. Side Co. N.W.
78.60 Intersect N. B. of Tp. 40 lks N. of Cor.
to Secs. 19-24-25 & 30 recently es-
tablished by me. Thence I run
N. 89 $^{\circ}$ 43' E on a true line bet. Secs. 19 & 30.
T₁₄ 1330' E.

- 3860 **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.**

78.60 In Cor. to Secs. 19-20-29-30

Surface rolling

Soil 3 $^{\circ}$ Oats

Graying grass & scattering Juniper Bush
A. H. Arnold Comptroller June 25, 1883.

Tr 16 N. R. 19 E.
Chs G. & S. R. M.

North lot, Secs. 19 & 20,
T. 13 S. 30' E.

Ascend gradually

11000

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.

So. 00

Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins, in the ground for Cor, to Secs, 17-18-19 & 20 marked T. 16 N. S. 17 on N. E. R. 19 E. S. 20 on S. E, S. 19 on S, W, and S, 18 on N, W, face, with 3 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 & water
erasing grass
Seating Juniper.

Tr. 16 N. R. 19 E.
Chs G + S. R. M.

Cont. on a random line bet Secs. 17 + 20
Ra. $3^{\circ}30' E$.

Descend gradually

40.00 L.L. Temporary $\frac{1}{4}$ Sec. Cor.

75.00 Cross Wash 25 lbs. Wide Co. N.E. + ascend

79.83 Indirect Tr. S. line 44 lbs. S. of Cor. to
Secs. 16-17-20 + 21. Thence run
S. $89^{\circ}41' N$. on a true line bet. Secs. 17 + 20
Ra. $1^{\circ}30' E$.

39.91 Set a sand stone $16 \times 12 \times 6$ ins. 11 ins.
in the ground for $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4}$
Sec. N. face, and raise a mound of stone
along side. Pits impracticable

79.83 The Cor. to Secs. 17-18-19 + 20

Surface rolling

Soil 3° slope

Graying good

Scattering Imperis

M. M. Grant

June 25 / 1883.

Tr. 16 N. R. 19 E.
Chs G. & S. R. M.

Met. on a random line bet. Secs. 18 & 19
va 133° E

ascend

24.40 Cross track 16 lks. wide Co. N. 18° E. + ascend

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

63.00 To divide soft high brs N 11° N. + descend

79.18 Intersub St. P. of Tr. 13 lks. S. of Cor.
to Secs. 12-18-19-24 north set by run, from
S. 89° 34' E. on a true line bet Secs. 18 & 19

va, 133° E,

39.18

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.

79.18 The Cor. to Secs. 17-18-19 & 20

Surface rolling

Soil 3rd rate

Grass good

W. Arnold Comptroller

June 25. 1883.

Sp. 16 N. R. 19 E.
Chs G. & S. R. M.

North. lot. Secs. 17 & 18
Ta. 13° 30' E

desert gradually

4000 Set a sand stone, 17 x 12 x 4 ins., 12 ins.
in the ground for 1/4 Sec, Cor, marked 1/4 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.

8000 Set a sand stone 6 x 8 x 6 ins., 11 ins. in
the ground for Cor, to Secs. 7 & 17 & 18 marked
with 4 notches on S. and 5 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
Soil 3rd rate
Grass good

Tr 16 N. R. 19 E.

Chis G. & S. R. M.

East. on a random line bet. Secs. 8 & 17
 Va. 133° E.

Ascend gradually

40.00 Set temporary E. Sec. Cor.

45.00 To Divide 60 ft high. on N. 35° E. & descend

80.53 Intersect N. & S. line 28 kts. S. of cor.
 to Secs. 8-9-16 & 17 Thence I run
 S. 89° 48' N. on a true line bet. Secs. 8 & 17
 Va. 133° E.

40.26 Set a sand stone, 16 x 10 x 7 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.

80.53 The Cor to Secs. 7-8-17 & 18
 Surface rolling
 Soil 3' rate
 Grass good
 m n. Grant
 June 25. 1873.

Tr. 16 N. R. 19 E.
Chs G. & S. R. M.

Met on a random line bet. Secs. 7 & 18
va. 1330' E.

Descent

200 Cross Wash 10 lks. wide C. N. 30° E. + ascent

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

42.50 Sp. Divide 40 ft. high, brs. N. 25° E. + descent

79.69 Interset N.B. of Tr 9 lks N. of Cor to

Secs 7-12-13 & 18 recently estab.

lished by me Thru Iron

N. 89° 56' E. on a true line bet. Secs. 7 & 18

va 1330 E.

39.69 Sit a Sand stone 14x8x6 ins q is in the
ground for $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4}$ on N.

face, and raised a mound of stone
along side. Pits impracticable.

79.69 The Cor. to Secs 7-8-17 & 18.

Surface rolling

soil 3" rate

grass grass

Scattering Juniper

AK Arnold Comparison June 25. 1883.

Th. 16 N. R. 19 E.

Chs G. & S. R. M.

North lot Secs 7 & 8.

va 13° 30' E.

Desert

10.00 Cross Wash 15 lks. wide Co. N 80° E + asant

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.

53.64 Cross Wash 19 lks wide Co. N 78° W.

50.00 Set a post 4 ft. long 4 ins. sqare, with marked stone, 12 ins, in the ground for Cor, to Secs, 5-6-7 & 8 marked T. 16 N. S. 5 on N. E. R. 19 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.

Imperial sailing

Sail 3^d into

Wraggy good.

Tr. 16 N. R. 19 E.

chs

G + S. R. M.

East, on a random line bet. Secs. 5 + 8.

va. 1330' E.

Ascend gradually

1800 ft Divide 40 ft. high bet. N. & descend grad.

4000 det temporary $\frac{1}{4}$ Sec. Cor.

8031 Intersect N. & S. line 65 fks. S. of Cor.

to Secs 4-5-8-9. Thence Iron

S89°32' N. on a true line bet. Secs. 5 + 8.

va 1330' E.

40.15

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.

8031 The Cor. to Secs. 5-6-7 + 8.

Surface is rolling

Soil 5% rate
grazing good.

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

M. N. Graub June 25. 1883.

Th. 16 N. R. 19 E.
 Chs G. & S. R. M.

Met. on a random line bet. Secs. 6 & 7.
 Va 1330 E.

Ascent gradually

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

444.50 Descent gradually

79.65 Intersect N. P. of Tp. 35th N. of Cor.
 to Secs. 1-6-7-12. Accurately es-
 tablished by me. Thence down
 N. 89° 45' E. on a true line bet. Secs. 6 & 7

Va 1330 E.

39.65

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.

79.65 In Cor. to Secs. 5-6-7 & 8.

Surface rolling

Soil 3rd rate

Grazing good.

Tr. 16 N. R. 19 E.

chs G. + J. R. M.

North, on a ~~xxxxxx~~ ^{true} line bet. Secs. 5 + 6.

Var. 1330 E.

40.00 ~~Stand~~ ^{Stand} gradually
Set a ~~Stand~~ ^{Stand} stone, 21 x 15 x 11 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. N and S
of stone 5 $\frac{1}{2}$ ft. dist. and raised a mound of earth
 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. alongside.

87.80 ~~Stand~~ ^{Stand} ~~Cor.~~ ^{Cor.} to Sec. 31 + 32, ~~North~~ ^{North} 1359 chs. N. of
Tr. 17 N. R. 19 E.

Stand ~~Cor.~~ ^{Cor.} to Sec. 31 + 32, ~~North~~ ^{North} established by me.
Set a sand stone 15 x 9 x 4 ins. 10 ins. in the ground
for the C. Cor. to Secs. 5 + 6. Marked C.C. with 5
Notches on E. + 1 notch on N. edge, dug pits
18 x 18 x 12 ins. S.E. & N. of stone 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 rate

Spraying good

I carefully examined the adjustment of
my Solar Compass today, par-
ticularly the latitude and reversing
apparatus, and found them correct.
A. H. Arnold Compassman June 25, 1883.

Tp. 16 N. R. 19 E.

G. & S. R. M.

General Description

The Surface of this Township is rolling.
The Soil is rocky in the South East
Sandy in other parts.

It is covered with a fine growth of
grass

There is plenty of Juniper in the South
East parts but very little in other parts.

There is a Cabin, and some Water
in a Tank in Sec. 27.

Non final oaths see Books
No 13.

U. S. Surveyor General's Office,

Tucson, Arizona, July 17 1884

The foregoing Field Notes of the Survey of the

Subdivision Lines of
Township 16 North
Range 19 East

Of the Gila and Salt River Base and Meridian, Arizona, executed by M. N. Grant

Deputy Surveyor, under his contract of the Seventh

day of August, 1884, having been

critically examined and the necessary corrections and explanations made, the said Field Notes and the surveys they describe

are hereby approved

Royal A. Johnson
Surveyor General.