

363

BOOK 363

F I E L D N O T E S
O F T H E S U R V E Y O F T H E
S U B D I V I S I O N L I N E S

O F

Township 20 North, Range 23 East.

Gila and Salt River Base and
Meridian,

ARIZONA.

By Frank Follman, D. S., under
Contract dated July 29, 1882.
Survey commenced Oct. 11, 1882.
Survey completed Oct. 17, 1882.

363

Indexed

BOOK 363

~~Book No. 5.~~

No-363

Field Notes

OF THE SURVEY OF THE

SUBDIVISION LINES

- OF -

Township *20 N* Range *23 E*,

Gila and Salt River Base and Meridian

ARIZONA.

By *Frank Follmer* D. S.

under contract dated *July 29, 1882.*

Survey commenced *Oct, 11, 1882*

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No-363

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Amman*

INDEX.

Township 20 N., Range R. 23 E.

C1

BOOK **363** Gila and Salt River Meridian.

6	98	5	73	4	54	3	36	2	17	1
96	95			71		52		34		16
7	93	8	70	9	51	10	33	11	14	12
91	90			68		50		31		13
18	88	17	66	16	48	15	30	14	11	13
87	85			65		47		28		10
19	83	20	63	21	45	22	26	23	8	24
82	80			61		43		25		7
30	79	29	60	28	42	27	23	26	6	25
78	76			59		40		22		4
31	75	32	57	33	39	34	20	35	3	35

Referring the lines to the pages of the field notes.

No-363

T. 20 N. R. 23. E.

Chains

From the cor. to recs.
12, 35, & 36, on S. ¹¹⁷ side of
Op, which is a sand-
stone 12 x 5 ins, pro-
perly marked and
with pits & mound of
earth, I run

N. bet. recs. 35 & 36,

Var. 13° 59' E
as hr. Kurt's improved Solar compass
Over barren bad lands

4000

Set a sandstone 15 x
10 x 6 ins, 10 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. & S. of stone, $3\frac{1}{2}$ ft.,
dirt, & raised a mound
of earth $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base along side

T. 20 N., R. 23. E.,

chains

8000 Set a sandstone $19 \times 12 \times 5$ ins, 14 ins, in the ground for cor. to sec. 25, 26, 35 & 36, marked with 1 nolet on S. & E. edges, dug pits $18 \times 18 \times 14$ ins, in each sec, $5\frac{1}{2}$ ft. dirt, & raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base along side. Barren bad lands
 Soil 4 x 7' ^{add} grassy fair

E. on random line
 bet. sec. 25 & 36,
 var. $13^{\circ} 59'$ E,

over barren bad lands

40.00 Set temporary $\frac{1}{4}$ sec. cor.
 69.00 Leave bad lands 1/2

T. 20 N. R. 23. E.

chains

N. $15\frac{1}{2}^{\circ}$ E.80,19 Intersect E. by of T_p.
15 lks. N. of cor. to rees25, 30, 31 & 36, recently established by ^{me} _N
Thence I runN. $89^{\circ}54'$ W. on true
line bet. rees. 25 & 36.
with same var.40,09 Put a sandstone 16 x
12 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. & W. of stone $5\frac{1}{2}$ ft,
dist. & raised a mound
of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$
ft. base along side80,19 Cor. to rees 25, 26, 35 & 36.
Surface bad lands
~~Soil # 4 & 5~~ ~~no 91 010~~

T. 20 N. R. 23 E.

chains

N. bet. sec. 25 & 26,

Var. $13^{\circ}59'$ E.

Over Barren Bad Lands

40.00

Set a sandstone $14 \times 8 \times 4$ 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. & S. of stone, $5\frac{1}{2}$ ft. dia., & raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base along side

80.00

Set a lava stone $16 \times 12 \times 4$ ins, 11 ins. in the ground for. cor. to sec. 23, 24, 25 & 26 marked with 2 notches on S, & 1 notch on E. edges, dug pits $18 \times 18 \times 12$ ins.

T. 20 N., R. 23 E.,

chains

in each sec. $5\frac{1}{2}$ ft,
dist. & raised a
mound of earth 2 ft,
high, $4\frac{1}{2}$ ft, base along
side

Barren Bad Lands
Surface broken grazing fair

E. on random line
bet. secs. 24 & 25,
Var. $13^{\circ}59' E$,

over Bad Lands

4000 at temporary $\frac{1}{4}$ sec. cor.
6000 near Bad Lands, by N.S.
80.15 Intersect-E. by of Op. 13
1/4s. D. of cor. to secs.
19, 24, 25 & 30, previous
ly established by me,
Whence I run
S. $89^{\circ}54' N$. on True

T. 20 N. R. 23. E.

Chains

- line bet. sees, 24 & 25,
with same var.
- 40.07 Det a larva stone $12 \times 10 \times 8$ 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, E & W. of stone, $5\frac{1}{2}$ ft. dist, & raised a mound of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base alongside.
- 80.15 Cor. to sees, 23, 24, 25, & 26,
Surface Bad lands
Soil 4d cat. grazing poor
- N. bet. sees, 23 & 24,
Var. $13^{\circ} 59' E$,
Over Bad Lands
- 23.30 Top of spur, bet. N. E.,
40.00 Det a sandstone $20 \times$

T. 20 N. R. 23. E.

Chairs

12 x 8 ins, 15 ins, in the ground for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ out N. face, dug pits 18 x 18 x 12 ins, N. & S. of stone, $5\frac{1}{2}$ ft, dist. & raised a mound of earth $1\frac{1}{2}$ ft, high, $3\frac{1}{2}$ ft, base along side.

8000

Set a sandstone 16 x 90 x 6 ins, 11 ins, in the ground for cor. to sec 13, 14, 23 & 24, marked with 3 notches on S, & 1 notch on E, edges, dug pits 18 x 18 x 12 ins, ^{in each sec} $5\frac{1}{2}$ ft, dist. & raised a mound of earth 2 ft, high, $4\frac{1}{2}$ ft, base along side.

Surface broken soil & d. cat
grooves fair

T. 20, N. R. 23, E.

chains

E, on random line
 bet. sec. 13 & 24,
 var. $13^{\circ}59' E$.

ascend gradually
 over rolling hills.

4000 Det temporary $\frac{1}{4}$ sec. cor.
 80,06 Intersect E. by of the
 19 lks. S. of cor. to sec. ⁴⁰⁰⁰
 13, 18, 19 & 24, ^{previously established}
 Thence I run

$89^{\circ}52' N$, on true
 line bet. sec. 13 & 24,

40,03 Det a sandstone ^{with same var} 16 x 8
 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. & W. of stone, $5\frac{1}{2}$ ft,
 dial; & raised a

T. 20 N. R. 23, E.

chains

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

80,06 Cor. to sees 13, 14, 23, & 24.
Soil 3rd Grade
Grazing Good
Surface rolling

N. bet. sees 13 & 14,
var. $13^{\circ} 59' E$.

Over rolling surface
Gradual descent

4000 Set a sandstone $18 \times$
 8×6 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. & S. of stone
 $5\frac{1}{2}$ ft. dist. & raised
a mound of earth

T. 20 N. R. 23, E.

chains

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

44,00

Cross dry wash, 2 chs.
wide, course S. W.

Ascend

80,00

Set a sandstone 18x18
x 6 ins, 12 ins. in the
ground for cor. to recs
11, 12, 13 & 14, marked
with 4 notches on S.
& 1 notch on E. edges,
dug pits 18x18x12 ins.
in each rec, 5 1/2 ft.
dist, & raised a
mound of earth 2
ft. high, 4 1/2 ft. base
along side

Grass growing Good
Surface rolling. Soil 30 yards

T. 20 N. R. 23 E.

Chains

E. on random line
bet. recs. 12 & 13,
var. $13^{\circ} 59' E$,

Over rolling surface
Gradual descent

40,00
80,08

Set temporary $\frac{1}{4}$ rec. cor.
Intersect E. by of Ch.
9 lks. S. of cor. to recs.
7, 12, 13 & 18, previously
established by me,

Thence I run

S. $89^{\circ} 56' W$. on true
line bet. recs. 12 & 13,
with same var.

40,04

Set a sandstone 19
 $\times 9 \times 8$ ins, 6 ins, in the
ground for $\frac{1}{4}$ rec. cor,
marked $\frac{1}{4}$ on N. face
dig pits $18 \times 18 \times 12$ ins,

T. 20 N., R. 23. E.

Chairs

- 80,08 E. & W. of stone, $5\frac{1}{2}$ ft,
dist, & raised a mound
of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$
ft, base along side
Cor. to sec. 11, 12, 13, & 14,
Grazing level
Surface rolling Soil 3rd cat
- N. bet. sec. 11 & 12,
Tan $13^{\circ} 59' E$,
Over rolling hills
33,00 are west of this point
31, 5 chs, is Mr. Coy's
residence
- 40,00 Put a sandstone $16 \times 10 \times 6$ ins, 11 ins, in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face,
dug pits $18 \times 18 \times 1\frac{1}{2}$ ins,
N. & S. of stone, $5\frac{1}{2}$ ft.

T. 20 N. R. 23, E.

chains

53,000 dist. & raised a mound
of earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. base along side
cross dry wash, 50 lks.
wide, course @ 10° N.

8,000 Put a sandstone $27 \times$
 18×4 ins, 19 ins, in
the ground for cor.
10 recs. 1, 2, 11 & 12,
marked with 5 notches
on D. & 1 notch on E.
edges, dug pits $18 \times 18 \times$
12 ins, in each rec.
 $3\frac{1}{2}$ ft. dist. & raised
a mound of earth
2 ft. high, $4\frac{1}{2}$ ft. base
along side

Surface rolling
~~grass~~ fair soil 30 grass

T, 20 N. R. 23. E.

chains

E. on railroad line
 bet. secs. 1 & 12,
 var. $13^{\circ}59'E$

40,000

79,94

Over broken surface,
 set temporary $\frac{1}{4}$ sec. cor.
 intersect E. by of Th.
 16 lks. S. of cor. to secs.
 1, 6, 7, & 12, previously es-
 tablished by me.

Thence I run

$\text{D. } 89^{\circ}53' \text{ W.}$ on true
 line bet. secs. 1 & 12,
 with same var.

89,97

Set a sandstone $18 \times 13 \times$
 7 ins, 12 ins, in the
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on N. face,
 dug pits $18 \times 18 \times 14$
 ins, E. & W. of stone,

T. 20 N., R. 23. E.

chains

$3\frac{1}{2}$ ft, dist, & raised, a mound of earth $1\frac{1}{2}$ ft, high, $3\frac{1}{3}$ ft, base along side,

79,94 cor. to res, 1, 2, 11 & 12

Surface railing
 Soil ^{3'2"} ~~3'~~ ^{grains} fair

N. bet. res, 1 & 2

var, $13^{\circ}59' C$

over railing surface
 ascended

6.30 Top of ridge 40 ft. high
 hrs. E. & W.

40.00 Put a piece of petrified wood $16 \times 8 \times 6$ ins, 11 ins, in the ground for $\frac{1}{4}$ Res. cor, marked $\frac{1}{4}$ on N. face, dug pits $18 \times 18 \times 12$ ins, N. & S.

T. 20 N., R. 23, E.

chains

of stone $5\frac{1}{2}$ ft. dist. & raised a mound of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base along side.

40.80 Cross dry wash 80 lks. wide, course N.W.

81.20 Intersect - 5th standard N. at a point - 318 chs. East of standard cor. to sec. 35 & 36

T. 21 N., R. 23, E. previously established by me.

when I set a sand stone $12 \times 10 \times 6$ ins. 8 ins. in the ground for closing cor. for sec. 1 & 2, marked 66 with 1 nail on E &

S. 20 N. R. 23. E.

chains

5 notches on W. edges,
 dug pits $18 \times 18 \times 12$ ins.,
 S. E. & W. of stone, $5\frac{1}{2}$ ft.
 dist., & raised a mound
 of earth 2 ft. high $4\frac{1}{2}$
 ft. base alongside
 Surface rolling
 Grazing food. Soil 3rd rate

Oct. 11, 1882,

I carefully examine
 the adjustments of
 my compass, today,
 especially the latitude
 & reversing apparatus
 & find them correct.

T. 20 N. R. 23. E.

Chairs

I now return to cor.
to recs. 2, 3, 34 & 35,
on P. by of Th. which
is a sandstone
10 x 6 ins, set firmly
in ground, properly
marked & with
pits & mound of
earth.

thence I run
N. bet. recs 34 & 35

Var. $13^{\circ} 59' E$,

over rolling surface

4000 ft a sandstone 18 x
10 x 6 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. & S. of stone

T. 20 N. R. 23. E.

chains

5½ ft, dist; & raised
a mound of earth 1½
ft, high, 3½ ft, base
along side,

76.00

Top of main ridge
40 ft, high, trs. N10°E,
& S, 10°W.

Miscellaneous

80.00

Set a sandstone 16x
10x8 ins, 11 ins, in
the ground for cor,
to eas. 26, 27, 34 & 35,
marked with 1 notch
on S, & 2 notches on
E, edges, dug pits 18x
18x12 ins, in each
one, 5½ ft, dist, &
raised a mound
of earth 2 ft, high

T. 20 N., R. 23. E.

Chains

4½ ft, base along side
 Surface rolling
 grazing for Soil = 2' rat

on random line

bet. res. 26 + 35,

Var. 13° 59' E,

ascend over broken hills

10,000 Top of main ridge to
 N. & S. 40 ft. high,

Wescing gradually

40,000 Det temporary ¼ sec. cor.

4500 Enter bad lands to N 10½° E,

80' 16 Return N & S. line

19 lks. N. of cor. to res.

25, 26, 35 + 36,

Thence I run

N. 89° 52' W. on true
 line bet. res. 26, + 35,

with same var.

S. 20 N. R. 23. E.

chains

40.08 Set a sandstone 20
 19×4 ins, 13 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 & W. of stone
 $3\frac{1}{2}$ ft, dist, & raised
 a mound of earth
 $1\frac{1}{2}$ ft, high, $3\frac{1}{2}$ ft,
 base along side.

80.16 Cor. to res. 26, 27, 34 & 35,
 Soil 4th rate
 Good Grazing
Surface eroding

N. bet. res. 26 & 27
 var, $13^{\circ} 59' E$,

Over rolling surface

40.00 Set a sandstone $13 \times$
 10×9 ins, 8 ins, in the

T. 20 N. R. 23. E.

chains

ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on N. face,
 dug pits 18x18x12 ins.
 N. & S. of stow, $5\frac{1}{2}$ ft.
 dist. & raised a
 mound of earth $1\frac{1}{2}$
 ft. high $3\frac{1}{2}$ ft. base
 alongside.

74,40 Cross wash 60 ft. deep
 course N 40° W.

Ascend.

80,00 Set a sandstone 17x
 7x6 ins, 12 ins. in the
 ground for cor. to sec.
 22, 23, 26 & 27,
 marked with 2 not-
 ches on S. & E. edges,
 dug pits 18x18x12
 ins. in each sec.

T. 20 N. R. 23. E.

chains

5½ ft. dist. & raised
a mound of earth
2 ft high, 4½ ft. base
along side.

Surface rolling.
Soil 3^d cat. grazing fair

E. on random line

bet. sec. 23. & 26.

Var. 13° 59' E.

Over rolling surface

3.00 Low depression, 20 ft. deep
bet. N.W. & S.E.

40.00 Set temporary ¼ sec. cor.

60.00 Enter bad lands, bet
N.W. & S.E.

79.90 Intersect - N. & S line

18 lks. S. of cor. to sec.

23, 24, 25 & 26.

Thence I run

T. 20 N. R. 23. E.

Chairs

S. $89^{\circ} 52'$ W. on true
line bet. sees, 23 & 26,
with same var.

39, 95 - Set a sandstone $18 \times$
 9×7 ins, 12 ins. in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
dug pit $18 \times 18 \times 14$ ins
E. & W. of stone, $5\frac{1}{2}$ ft
dial; & raised a mound
of earth $1\frac{1}{2}$ ft, high $3\frac{1}{2}$
ft, base along dial

79, 90 Cor. to sees 22, 23, 26 & 27.
Dial 4th rate

Grazing Good
Surface

N. bet. sees, 22 & 23,
Var. $13^{\circ} 59'$ E.

One broken surface

T. 20 N. R. 23. E.

chains

- 4000 Set a sandstone $16 \times 8 \times 6$ ins, 11 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. & S. of stone, $3\frac{1}{2}$ ft, dist, & raised a mound of earth $1\frac{1}{2}$ ft, high, $3\frac{1}{2}$ ft, base along side.
- 77.50 Top of bluff 80 ft, high, hrs. E & W, descended abruptly
- 79.00 Cross wash 60 lks, wide, course W.
- 80.00 Set a sandstone $18 \times 6 \times 5$ ins, 12 ins, in the ground for cor. to sec. 14, 15, 22, 23,

T. 20 N. R. 23, E.

chains

marked with 3 notches
 on S, & 7 notches on
 E. edges, dug pits 18x
 18x 12 in., in each
 sec. $5\frac{1}{2}$ ft. dist. and
 raised a mound of
 earth 2 ft. high, $4\frac{1}{2}$ ft.
 base along side
 Soil 4th rate & barren
 Surface rolling
 grazing fair. Soil 2^d rate

E. on random line
 bet. secs, 14 & 23,
 var. 13' 59' E,

Ascend gradually

5,50 Cross dry wash 1000
 ft. wide, cover S. W.

Ascend gradually

4,000 Pit temporary $\frac{1}{4}$ sec. cov.

T. 20 N. R. 23. E.

chains

4984 Intersect - N. & S. line
16 lks. P. of cor. to sec.
13, 14, 23 & 24,

Thence I run
S. $89^{\circ} 53' W.$ on true
line bet. sec. 14 & 23,
with same var.

39.92 Set a sandstone $13 \times$
 8×6 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.
S. & W. of stone $5\frac{1}{2}$ ft.
dist. & raised a
mound of earth $1\frac{1}{2}$
ft. high, $3\frac{1}{2}$ ft. base
along side.

4984 cor. to sec. 14, 15, 22 & 23,
Soil 4th rate & barren.
Surface ~~broken~~ grazing fair

T. 20 N., R. 23. E.

Chairs

N. bet. sec. 14 & 15,
 var. 13° 59' 8"

Over rolling surface
 Gradual descent,

4000 Bet. a sandstone 10x
 10x9 ins, 6 ins. in the
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on N. face,
 dug pits 18x18x12 ins,
 N. & S. of stone, 5 $\frac{1}{2}$ ft,
 dist. & raised a
 mound of earth 1 $\frac{1}{2}$
 ft. high, 3 $\frac{1}{2}$ ft. base
 along side.

8000 Bet a sandstone 18x
 10x9 ins, 12 ins. in
 the ground for cor.
 to sec. 10, 11, 14 & 15,
 marked with 4 notches

T. 20 N. R. 23. E.

chains

on D, and $\frac{1}{2}$ notches on
E. edges, dug pits $1\frac{1}{2} \times$
 $1\frac{1}{2} \times 1\frac{1}{2}$ ins. in each cor,
 $5\frac{1}{2}$ ft. dist. & raised
a mound of earth
2 ft. high, $4\frac{1}{2}$ ft. base
along side.

Surface rolling
Soil 3rd grade
Grazing good

E. on random line
bet. sec. 11 & 14.

Var. $13^{\circ} 59'$ E.

Ascend over rolling hills

4000 Det temporary $\frac{1}{4}$ sec. cor.

4200 Cross wash, 65 lks. wide,
course P. W.

80, 15 Intersect N. & S. line

T. 20 N. R. 23, E.

chains.

Elks, P. of cor. to sees.

11, 12, 13 & 14,

Thence I run,

P. $89^{\circ}57'$ W. on 1 mile

line bet. sees. 11 & 14

with same var.

40, 07

Set a sandstone $14 \times$
 8×5 ins. Pins in theground for $\frac{1}{4}$ sec. cor.marked $\frac{1}{4}$ on N. face,dug pits $18 \times 18 \times 12$ ins. E & W. of stone, $3\frac{1}{2}$

ft. dist. & raised a

mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base

along side.

80, 15

Cor. to sees. 10, 11, 14 & 15,

Surface rolling
growing food Soil 3' red

T. 20 N., R. 23. E.

chains

N. lat. secs. 10×11 ,
var. $13^{\circ} 59' E$;

ascending over rolling surface,

30,60 Foot of lime mountains
trs. E. & W.

4000 Set a sandstone $16 \times 9 \times$
 7 ins, 11 ins, in the ground
for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face, dug pits
 $\frac{1}{4}$ $18 \times 18 \times 12$ ins, N. & S. of
stone, $5\frac{1}{2}$ ft. dist; &
raised a mound of
earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$
ft. base along side.

60,20 Top. of mountain 1200
ft. high, trs. E. & W,
descend abruptly,

80,00 Set a sandstone $19 \times$
 17×9 ins, 14 ins, in the

T. 20 N., R. 23, E.

chains

ground for cor. to sec.
2, 3, 10, & 11, marked
with 5 nails on W,
& 2 nails on E edges,
dug pits $18 \times 18 \times 1 \frac{1}{2}$ in,
in each sec, $5 \frac{1}{2}$ ft.
dist; & raised a mound
of earth 2 ft. high, $4 \frac{1}{2}$
ft. base along side

Soil 3rd grade
Surface mountainous
Grazing good

E. on random line
bet. sec. 2 & 11,
var. $13^{\circ} 59' E.$

Ascend gradually
over broken surface
4000 ft temporary $\frac{1}{4}$ sec. cor.

T. 20 N., R. 23, E.

chains

- Descend gradually
 73.00 cross sag 20 ft., deep
 brs. N. 6° E. + 0.6° W.
 80.10 Intersect - N. & S. line
 19. lks., N. of cor. to
 sec. 1, 2, 11 & 12,
 Thence I run
 N. 89° 52' W. on true
 line bet. sec. 2 & 11,
 with same var.
 400.6 - Set a sandstone 15
 x 8 x 5 ins., 10 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 & W, of stone
 5 $\frac{1}{2}$ ft. dist.; & raised
 a mound of earth
 1 $\frac{1}{2}$ ft. high, 3 $\frac{1}{2}$ ft. base

T. 20 N. R. 23. E.

chains

along side

8010 cor. to sees. 2, 3, 10 & 11

Surface broken
Soil 3' deep. Grazing fair

N. bet. sees. 2 & 3,

var. $130^{\circ} 59' E$.

Descend abruptly

860

Foot of mountain

1300 ft. descent, hrs.

E. & W.

Descend gradually

2560

Enter bad lands br. N.W. & S.E.

4000

Det a sandstone 18 x
8 x 6 ins, 12 ins, in theground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face,
dug pits $\frac{1}{4}$ 18 x 18 x 12

ins, N. & S. of stone

5 $\frac{1}{2}$ ft. dist. & raised

T. 20 N. R. 23. E.

chains

a mound of earth
 $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base
 along side

8100

reference - 5th Standard

N. at a point 2.84 lks.

E. of standard cor. to

secs. 34 & 35, T. 21 N.

R. 23, E. previously

established by me

when I set a sandstone

$12 \times 10 \times 10$ ins. size, in

the ground for closing

cor. to secs. 2 & 3

marked C.C. with 2

nollets on E. & 4 nollets

on W. edges, dug pits

$18 \times 18 \times 12$ ins. S. E. & W.

of stone, $3\frac{1}{2}$ ft. dia.

& raised a mound

38,

BOOK 363

T. 20 N. R. 23. E.

chairs,

of earth 2 ft. high
 4 $\frac{1}{2}$ ft. base along
 side, ^{Sold broken & hilly}
^{Sold 4 a rat}
 grozing fair

Oct. 12, 1882,

T. 20 N. R. 23. E.

chains

I now return to cor,
 to sees. 3, 4, 33 & 34, on
 S. by of Tp, which is
 a sandstone 12 x 4 ins
 firmly set in ground,
 properly marked and
 with pits & mound
 of earth, & run,
 N. bet. sees. 33 & 34,
 var. 13° 59' E,

Over broken surface
 4000 Set a sandstone 14 x
 12 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 14 ins.
 N. & S. of stone, $5\frac{1}{2}$ ft,
 dist, & raised a
 mound of earth $1\frac{1}{2}$ ft

T. 20 N., R. 23. E.

chairs

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

57,00

Top of ridge, bns E. & W.

80,00

Set a sandstone $15 \times$
 19×5 ins, 10 ins. in
the ground for evs. to
see, 27, 28, 33, & 34,
marked with 1 notch
on S, & 3 notches on
E. edges, dug pits $18 \times$
 18×14 ins. in each see,
 $5\frac{1}{2}$ ft. dist. & raised
a mound of earth 2
ft. high, $4\frac{1}{2}$ ft. base
alongside.

Surface rolling
~~gravel~~ poor. Soil & rats

E. on random line bet.
see, 27 & 34,

T. 20 N. R. 23. E.

chains

- var. $13^{\circ} 59' E$,
over broken hills.
- 40.00 Set temporary $\frac{1}{4}$ sec. cor.
53.60 Row depression 100 ft,
deep, hrs. N. & S.
79.86 Intersect^d N. & S. line
19. lks. N. of cor. to sec.
26, 27, 34 & 35,
Thence I run
N. $89^{\circ} 52' W$. on true
line bet. sec. 27 & 34,
with same var.
- 39.93 Set a sandstone 16×10
 $\times 6$ ins, 11 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
dug pits $18 \times 18 \times 14$
ins, E & W. of stone,
 $5\frac{1}{2}$ ft. dist. & raised

T. 20. N. R. 23. E.

chains

a mound of earth $1\frac{1}{2}$
ft. high, $3\frac{1}{2}$ ft. base
alongside

79.86 cor. to sees. 27, 28, 33, & 34
Surface broken
Grazing fair. Soil & c. rate

N. bet. sees. 27 & 28,

var. $13^{\circ} 59' E$,

descend over broken sur-
face,

2000 Cross gulch, 40 ft. deep -
course S. E.

4000 Put a sandstone $16 \times 10 \times 6$ ins, 11 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. & S. of stone, $5\frac{1}{2}$ ft.
dist. & raised a

T. 20 N. R. 23 E.

chains

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

8000

Set a sandstone $20 \times$
 6×5 ins., 15 ins. in the
ground for ev. to recs.
21, 22, 24 + 28, marked
with 2 notches on S,
+ 3 notches on E. edges,
dug pits $18 \times 18 \times 12$ ins.
in each rec, $5\frac{1}{2}$ ft.
dist. + raised a
mound of earth 2 ft.
high, $4\frac{1}{2}$ ft. base
along side.

Surface rolling
grain, soil + grade

E. on random line
bet. recs. 22 + 24.

T. 20 N., R. 23, E.

chains

- var. $13^{\circ} 59' E$,
 Over rolling surface
- 40,000 Set temporary $\frac{1}{4}$ sec. cor,
 74,10 Cross dry wash, 80 lks.
 wide, course N.W.
 ascend abruptly
- 80,14 Intersect N. & S. line
 18 lks. S. of cor. to res,
 22 & 23, 26 & 27,
 Thence I run
 $S. 89^{\circ} 52' W.$ on true
 line bet. res. 22 & 27,
 with same var.
- 40,04 Set a sandstone 12 x
 10 x 8 ins, 8 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. & W. of stone

T. 20 N. R. 23. E.

chains

$5\frac{1}{2}$ ft. dist. & raised
a mound of earth
 $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base
along side.

80, 14 cor. to sec. 21, 22, 27 & 28

Surface rolling
soil 4th grade
Grazing good

N. bet. sec. 21 & 22,
var. $13^{\circ}59' E$,

4000 Over rolling surface,
set a sandstone $18 \times 10 \times$
8 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. & S. of stone, $5\frac{1}{2}$ ft.,
dist. & raised a

T. 20 N. R. 23 E.

chains

mound of earth $1\frac{1}{2}$ ft.
high, $3\frac{1}{2}$ ft. base along-
side.

69.50 Cross dry wash 50 ft.
deep, course N.

Ascend gradually

80.00 Set a sandstone $15 \times$
 14×7 ins, 10 ins. in the
ground for cor. to sec.
15, 16, 21, & 22, marked
with 3 notches on S. &
E. edges, dug pits $18 \times$
 18×12 ins. in each
sec. $5\frac{1}{2}$ ft. dist; &
raised a mound of
earth 2 ft. high, $4\frac{1}{2}$
ft. base alongside
Soil barren

4th Grade Surfa hills

T. 20 N. R. 23. E.

chains

E. on random line
 bet. secs. 15 & 22,
 var. $13^{\circ} 59' E$,
 over rolling surface
 Gradual ascent -

40,000 Set temporary $\frac{1}{4}$ sec. cor.
 80,10 Intersect - N. & S. line
 11. lks. S. of cor. to secs.
 14, 15, 22, & 23,

Thence I run
 $S. 89^{\circ} 55' W.$ on true
 line bet. secs. 15 & 22
 with same var.

40,05 Set a sandstone $10 \times$
 9×8 ins, 6 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. & W. of stone, $5\frac{1}{2}$ ft.

T. 20 N. R. 23. E.

chains

80, 10

dist. & raised a mound
of earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. base along side.

Cor. to sec. 15, 16, 21 & 22,
Soil Barren
4th Grade
Surface broken

N. bet. sec. 15 & 16,

Var. $13^{\circ}59'E$

Over broken surface

18,00

Ascend

4000

Set a sandstone 16 ft
 8×5 ins, 11 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,
& S. of stone, $5\frac{1}{2}$ ft,
dist. & raised a
mound of earth $1\frac{1}{2}$

T. 20 N. R. 23. E.

chains

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

42,30 Top of main ridge,
40 ft. high, hrs. E. & W.
descend

8000 Set a sandstone $13 \times$
 7×6 ins, 9 ins. in the
ground for cor. to recs,
9, 10, 15 & 16, marked
with 4 notches on S,
and 3 notches on E
edges, dug pits $18 \times 18 \times$
12 ins. in each rec,
 $5\frac{1}{2}$ ft. dist. & raised
a mound of earth 2
ft. high, $4\frac{1}{2}$ ft. base
along side,
surface broken & barren
5004 & 5005

T. 20 N. R. 23 E.

Chairs

E. on random line

bet. sec. 10 & 15,

Var. $13^{\circ} 59' E$,

Ascend over broken hills

40,00

79,86

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

Intersect N. & S. line

12 lbs N. of cor. to sec.

10, 11, 14 & 15,

Thence I run

N. $89^{\circ} 55' W$. on 1 mile

line bet. sec. 10 & 15,

with same var.

39,93

Set a sandstone 12 x

10 x 8 ins, 8 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. & W.

of line, $3\frac{1}{2}$ ft. dist.

T. 20 N., R. 23. E.

chains

79.86

↑ raised in mound
of earth $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base along side
Cor. to secs. 9, 10, 15 & 16,
Surface broken
Dial 4th grade
growing fair

N. bet. secs. 9 & 10

Var. $13^{\circ} 39' E$,

15.60

Ascend over broken hills
Top of mesa 30 ft. high,
trs. N. $53^{\circ} E$,

40.00

Put a concrete tower $18 \times 10 \times$
6 ins, 12 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
dug pits $18 \times 15 \times 12$ ins
N. & S. of tower, $3\frac{1}{2}$ ft. dist,
↑ raised a mound

T. 20 N. R. 23 E.

chains

8000 of earth $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base along side
 Set a lava stone $15 \times$
 10×5 ins., 10 ins. in
 the ground for cor
 to sec. 3, 4, 9 & 10,
 marked with 5 notches
 on S. & 3 notches on E,
 edges, dug pits $18 \times$
 18×14 ins in each
 sec, $5\frac{1}{2}$ ft. dia. &
 raised a mound of
 earth 2 ft. high, $4\frac{1}{2}$
 ft. base along side
 Grazing Good
 Surface rolling. Soil 3rd rate

E. on random line
 out. sec. 3 & 10,

T. 20 N. R. 23. E.

chains.

Var, $13^{\circ} 59' E$,

ascend over rolling surface

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

45.00 heavy mesa, descend

56.00 ascend gradually
along N. slope,

79.80 Intersect - N. & S. line

8 kts. S. of cor. to sees,

2, 3, 10 & 11.

Thence I run

$S^{\circ} 89^{\circ} 57' W$. on true

line bet. sees 3 & 10,

39.90 Set a sandstone 19x

8x7 ins, 15 ins. in

the ground for $\frac{1}{4}$ sec,

cor. marked $\frac{1}{4}$ on N.

face, dug pits 18x18x

12 ins, E & W. of stone

& raised a mound

T. 20 N. R. 23. E.

chairs.

79,80 of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base along side
 cov. to sees 3, 4, 9, & 10.
 Grazing Gogel
 Surface broken Soil 3rd 2nd at

N. bet. sees 3 & 4
 Var. $13^{\circ}39'$ E.

40,000 Overall surface
 High mesa land
 Out a sandstone $12 \times 11 \times 10$ ins., 8 ins. in
 the ground for $\frac{1}{4}$ sec,
 cov. marked $\frac{1}{4}$ on
 n. face, dug pits
 $18 \times 18 \times 12$ ins. N. & S.
 of stone, $5\frac{1}{2}$ ft. dist,
 raised a mound
 of earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. base along side

T. 20 N. R. 23. E.

chains

8112 Intersect - 3rd Standard
 N, at a point 2,50 lks.
 E. or standard cor.
 15 res, 33 x 34, Th.
 21 N, R. 23, E. previ-
 ously established by
 me,
 where I set a lava
 stone 20 x 16 x 6 ins, 15
 ins, in the ground
 for closing cor. 15 res,
 3 x 4, marked C, C,
 with 3 notches on
 E. & W. edges, dug pits
 18 x 18 x 14 ins., S. E. &
 W. of stone, 3 1/2 ft. dist,
 & raised a mound
 of earth 2 ft. high,
 4 1/2 ft. base along side

T. 20 N. R. 23. E.

chains.

Surface broken
Grazing Good
Soil 3rd rate

Oct. 13, 1882.

I carefully examine
the adjustments of
my compass today,
especially the latitude
& reversing apparatus,
& find them correct.

T. 20 N., R. 23, E.

chains

I now return to cor.
to sec. 4, 5, 32 + 33,
on S. by of Th, which
is a sandstone 10
x 5 ins, properly set
& marked and with
pits and mound
of earth, & now
N. bet. sec. 32 + 33

Var. $13^{\circ}59'$ E.

Over rolling surface
4000 set a sandstone 13 x 10
x 6 ins, 10 ins, in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{2}$, on N. face,
dug pits 18 x 18 x 12
ins. N. + S. of 0 line
 $6\frac{1}{2}$ ft. dist, & raised
a mound of earth

T. 20 N., R. 23, E.

chains.

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

69.00 low depression 10 ft.
deep, trs. E. & W.

75.50 Top of ridge 60 ft. high,
trs. E. & W.

80.00 Set a sandstone $20 \times$
 9×8 ins, 15 ins. in the
ground for cor. to reefs
28, 29, 32, & 33, marked
with 1 nolets on S,
& 4 nolets on E edges,
dug pits $18 \times 18 \times 14$ ins,
in each reef, $5\frac{1}{2}$ ft.
dist. & raised a mound
of earth 2 ft. high,
 $4\frac{1}{2}$ ft. base along-
side. surface yellow
Grazing Good
Soil 3rd grade

T. 20 N. R. 23. E.

chains

E. on random line

bet. rees. 28 + 33,

var. $13^{\circ} 59' E$,

Over rolling surface

Gradual ascent—

29,00 Enter broken surface

40,00 Set temporary $\frac{1}{4}$ rec. cor.

79,90 Intersect - N. & S. line 18

lks. O. of cor. to rees.

27, 28, 33 + 34,

Thence I run

S. $89^{\circ} 52' N$, on true

line bet. rees. 28 + 33,

with same var.

39,95 Det a sandstone 13×10 $\times 9$ ins. 8 ins. in theground for $\frac{1}{4}$ rec. cor.marked $\frac{1}{4}$ on N. face,dug pits $18 \times 18 \times 12$ ins.

T. 20 N., R. 23, E.

chain.

79.90

E. + W. of stone, $5\frac{1}{2}$ ft.
 dist. + raised a mound
 of earth $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base along side,
 Cor. to sec. 28, 29, 32 + 33,
 Surface rolling
 grazing fair. Soil 3⁵ 26 to

N. bet. sec. 28 + 29,
 var. $13^{\circ} 59' E.$

9.75

Ascend gradually
 Top of ridge 60 ft. high
 bet. N. 60° W.

4000

Over mesa land
 Put a sandstone 10×9
 $\times 8$ ins., 6 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.

T. 20 N., R. 23. E.

chains

N. & S. of stone $5\frac{1}{2}$ ft,
dist., & raised a mound
of earth $1\frac{1}{2}$ ft, high, $3\frac{1}{2}$
ft, base along side

8000

Ret a sandstone $17 \times 6 \times 5$
ins, 12 ins, in the ground
for cor. to sees, 20, 21, 28,
& 29, marked with 2
notches on S, and 4
notches on E. edges,
dug pits $18 \times 18 \times 12$ ins,
in each see, $5\frac{1}{2}$ ft,
dist., & raised a mound
of earth 2 ft, high,
 $4\frac{1}{2}$ ft, base along side.

Grazing good
Surface rolling Soil 35 rats

E. on random line
bet. sees, 21 and 28.

T. 20 N., R. 23. E.,

chains

var. $13^{\circ} 59' E$,over rolling surface
ascending

- 14,00 Top of mesa, brs. N. & S.
 34,00 Descend over broken
 bad lands, brs. N. & S.
 40,00 Set temporary $\frac{1}{4}$ sec. cor.
 54,30 Top of ridge 50 ft. high
 brs. N. & S.
 80,10 Intersect - N. & S. line
 12 lks. S. of cor. to aces,
 21, 22, 24 & 28.
 Thence I run
 $S. 89^{\circ} 55' W.$ on true
 line bet. aces, 21 & 28,
 with same var.
 40,05 Set a juniper post
 3 ft. long 4 ins. square
 with marked stone

S. 20 N., R. 23. E.

chains

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.
& W. of post $5\frac{1}{2}$ ft. dist.
& raised a mound of
earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$
ft. base around post.

80, 10

Cor. to sees 20, 21, 28
& 29. ^{Surface rolling,}
^{Soil 4' & cat.}
grazing fair

N. bet. sees. 20 & 21

Val. 13° 59' E.

Over broken bad lands

4000

Set a sandstone 14 x 10
x 6 ins. 9 ins. in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face

T. 20 N., R. 23, E.

chairs.

ch

1

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

dug pits 18 x 18 x 12 ins,
N. & S. of stone 5 1/2 ft.
dist., & raised a mound
of earth 1 1/2 ft. high, 3 1/2
ft. base alongside.

57.00

68.00

80.00

Enter valley, course N.
Cross wash 3 chs. wide
course O.N.

Set a sandstone 12 x 10 x
4 ins, 8 ins, in the
ground for cor. to sec.
16, 17, 20, & 21, marked
with 3 notches on S,
& 4 notches on E. edges,
dug pits 18 x 18 x 12 ins
in each sec. 5 1/2 ft.
dist., & raised a
mound of earth 2
ft. high, 4 1/2 ft. base

T. 20 N., R. 23. E.

chains

alongside
 Grazing good in valley
 Soil 3rd grade
Surface rolling

E. on random line

bet. sees. 16, & 21,

var. $13^{\circ} 59' E.$

over rolling valley

good grazing

12.00 leave valley, course S. W.

ascend over bad lands

40.00 set temporary $\frac{1}{4}$ sec. cor.

44.00 enter valley, bet. N. E. & S. W.

79.88 intersect N. & D. line 16

lks S. of cor. to sees.

15, 16, 21, & 22.

Thence I run

S. $89^{\circ} 53' W.$ on true

T. 20 N. R. 23. E.

chain

line bet. sees. 16 & 21,
with same var.

39.94 Set a sandstone 13 x
12 x 10 ins. 8 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 & W. of stone
 $5\frac{1}{2}$ ft. dist. & raised
a mound of earth $1\frac{1}{2}$
ft. high, $3\frac{1}{2}$ ft. base
alongside

49.88 cor. to sees 16, 17, 20 & 21,
Surface rolling
grazing food soil 25 rats

N. bet. sees. 16 & 17

Var. $13^{\circ}59'$ E.

Over rolling surface

40.00 Set a sandstone 17 x

T. 20 N., R. 23. E.,

chains

12 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. + S. of stone $5\frac{1}{2}$
ft. dist., & raised a
mound of earth $1\frac{1}{2}$ ft.
high, $3\frac{1}{2}$ ft. base
alongside.

58.00 Enter bad lands,
~~course~~ ^{has not} E. & W.

80.00 Set a sandstone 16 x
10 x 4 ins., 11 ins. in the
ground for cor. to
secs. 8, 9, 16 & 17,
marked with 4 notches
on S, & 4 notches on
E edges, dug pits 18 x
18 x 12 ins., in each

T. 20 N., R. 23, E.

chains

rec. $5\frac{1}{2}$ ft. dist, and
raised a mound of
earth 2 ft. high, $4\frac{1}{2}$
ft. base alongside
Rollis surface soil 35 feet

E. on random line
bet. recs. 9×16 ,

Var. $13^{\circ} 59'$ E,

Over broken hills

Ascend

35, 50

Top of mesa, hrs. N.E.,
& S.W.

over mesa,

4000

Ret temporary $\frac{1}{4}$ rec. cor,

52, 35

heavy mesa, hrs. N.E.,
& S.W.

ascend over broken
surface.

T. 20 N., R. 23. E.,

chains

80.06 Intersect-N. & S. line
8 lks. S. of cor. to sees,
9, 10, 15 & 16.

Thence I run
S. $89^{\circ}57'$ W. on true
line bet. sees, 9 & 16,
with same var.

40.03 Put a sandstone $20 \times$
 10×5 ins, 15 ins, in
the ground for $\frac{1}{4}$

ac. cor. marked $\frac{1}{4}$
on N. face, dug pits
 $18 \times 18 \times 12$ ins, E. & W,
of stone, $5\frac{1}{2}$ ft. dist,
& raised a mound
of earth $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base along side,

80.06 Cor. to sees 8, 9, 16, & 17.
Surface soil $\frac{1}{2}$ ft. for soil's test

T. 20 N. R. 23. E.

chains

N. bet. sec. 8 & 9,
var. $13^{\circ}59' E.$ 2000 One broken surface
have breaks, descend
over rolling surface4000 Set a junction post - 3
ft. long, 5 ins. square,
with marked stone
12 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ S. on W. face, dug
pits $18 \times 18 \times 12$ ins.,
N & S. of post, $5\frac{1}{2}$ ft.
dist. & raised a
mound of earth $1\frac{1}{2}$
ft. high, $3\frac{1}{2}$ ft. base
along side mound post.8000 Set a sandstone $10 \times$
 10×6 ins., 6 ins. in

T. 20 N., R. 23. E.

chains

the ground for cor.
to secs. 4, 5, 8 & 9,
marked with 5 notches
on S, & 4 notches on
E. edges, dug pits 18x
18x14 ins. in each
sec, $5\frac{1}{2}$ ft. dist. &
raised a mound of
earth 2 ft. high, $\frac{4}{16}$
ft. base along side
~~Surface broken. Soil of a red
grain fair~~

E. on random line
bet. secs. 4 & 9.

Val. 13' 59' E.

over rolling surface
ascent gradual

18.00 Top of mesa 80 ft. high
bears N. & S.

T. 20 N., R. 23 E.

chains

- 40.00 Set temporary $\frac{1}{4}$ sec. cor.
80.10 Intersect N. & S. line
19 lks. S. of cor. to sees.
3, 4, 9 & 10.
Thence I run
S. $89^{\circ} 52' W.$ on true
line bet. sees. 4 & 9,
with same var.
- 40.05 Set a sandstone $14 \times$
 8×7 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. & W. of stone, $5\frac{1}{2}$ ft.
dist. & raised a mound
of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$
ft. base alongside
- 80.10 cor. to sees. 4, 5, 8 & 9,
Grazing good
Surface rolling, Soil & rate

T. 20 N. R. 23. E.

chains.

N. bet. sec. 4 & 5.

Var. $13^{\circ} 59'$ E.Over rolling surface
ascent-gradual2000 Top of ridge 100 ft.
high, bet. E. & W.

Rises and gradually

4000 Set a sandstone $13 \times$
 12×9 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. & S. of stone, $5\frac{1}{2}$ ft.
dist. & raised a mound
of earth $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base along side81,06 Intersect - 5th Stand-
ard N. at a point -
2,16, lks. E. of standard

T. 20 N. R. 23, E.

chains

cor. to recs. 32 + 33, T. 20 N, R. 23, E. previously established by me, where I set a sandstone $12 \times 10 \times 8$ ins, 8 ins. in the ground for closing corner to recs. 4 + 5, marked C.C. with 2 notches on N. + 4 notches on ~~S.W.~~^{S.E.} edge, dug pits $18 \times 18 \times 12$ ins, S. E. + N. of stone, $5\frac{1}{2}$ ft. dist. + raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base alongside.

Surface colling. Soil ^{at 2nd} grazing fair

Oct. 14th 1882

T. 20 N., R. 23. E.

hains

V

I now return to cor. to
secs. 5, 6, 31, & 32, on
S. by. of Tn. which is
a sandstone 10 x 6 ins.
properly set & marked
and with mound of
earth, & run

N. by. secs. 31 & 32,

Var. $13^{\circ} 59'$ E.

over rolling surface

4000

Set a lava stone 13 x 12
x 10 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. & S. of stone, $5\frac{1}{2}$ ft.
dist. & raised a mound
of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$
ft. base along side.

T. 20 N. R. 23. E.

chains.

- 58.00 Enter bad lands
brs. N. $40\frac{1}{2}^{\circ}$ W.
- 80.00 Put a sandstone 20 x
12 x 4 ins, 15 ins. in the
ground for cor. to recs.
29, 30, 31, & 32, marked
with 1 notch on D, and
5 notches on E, edges,
dug pits 18 x 18 x 12 ins,
in each rec, $5\frac{1}{2}$ ft,
dist; & raised a
mound of earth 2 ft,
high, $4\frac{1}{2}$ ft. base
along side, ^{Surface rolling} Soil ^{is flat} grazing fair
- E. on random line
bet. recs. 29 & 32,
Var. $13^{\circ} 59' E$,
over broken bad lands

T. 20 N., R. 23, E.

chains

ascending

35.00 leave bad lands, brs,
N. & S.,
over high table land

40.00 set temporary $\frac{1}{4}$ sec. cor.

40.16 Intersect - N. & S. line
19 lks. O. of cor. to sec.
28, 29, 32, & 33.

Thence I run
S. $89^{\circ}52'$ W. on true
line bet. sec. 29, & 32,
with same var.

40.08 set a sandstone 18×12
 $\times 9$ 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.
E. & W. of stone, $5\frac{1}{2}$ ft.
dist. & raised a mound

T. 20 N., R. 23. E.,

chains

of earth $1\frac{1}{2}$ ft, high, $3\frac{1}{2}$
ft, base alongside,

80,16

cor. to secs, 29, 30, 31, 32,
^{Surface broken}
Soil bad lands & ^{great} grazing

W. on random line
bet, secs, 30 & 31,
rai, $13^{\circ} 59' E$,

over barren bad lands

4000

at temporary $\frac{1}{4}$ sec. cor,

78,50

Intersect W. by of Th,
16, lks. S. of cor. to secs,
25, 30, 31 & 36, previously
established by me,

Thence I run
S. $89^{\circ} 53' E$, on true

line bet secs, 30 & 31,

38,50

Ret ^{with same wa} a sandstone $12 \times$
 10×5 ins, 8 ins, in

T. 20 N., R. 23. E,

chains

the ground for $\frac{1}{4}$ sec.
 cor. marked $\frac{1}{4}$ on N.
 face, dug pits 18x18x12
 ins., E. & W. of stone, $5\frac{1}{2}$
 ft. dist., & raised a
 mound of earth $1\frac{1}{2}$
 ft. high, $3\frac{1}{2}$ ft. base
 along side.

48,50 cor. to secs. 29, 30 31, & 32.

Barren bad lands
 Soil & cat

N. bet. secs. 29, & 30,

Var. $13^{\circ}59' E$

Over broken bad lands

4000 Pit a sandstone 20x10x
 4 ins. 15 ins. in the
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face,
 dug pits 18x18x12 ins.

T. 20 N., R. 23, E.

chains.

N. & S. of stone, $5\frac{1}{2}$ ft.
 dist., & raised a mound
 of earth $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base alongside.

8000 Set a sandstone $24 \times$
 12×3 ins, 18 ins, in the
 ground for cor. to sees.
 19, 20, 29, & 30, marked
 with 2 notches on S, &
 5 notches on E. edges,
 dug pits $18 \times 18 \times 12$ ins,
 in each see. $5\frac{1}{2}$ ft.
 dist. & raised a mound
 of earth 2 ft. high, $4\frac{1}{2}$
 ft. base alongside.
 Surface barren bad lands
~~No grazing~~

E. on random line
 bet. sees. 20 & 29

T. 20 N., R. 23. E.

chains.

- Var. $13^{\circ}59'$ E,
 over broken bad lands
 ascending gradually
 1500 feet over bad lands, to N. & S.
 over high table land
 40,000 feet temporary $\frac{1}{4}$ sec. cor.
 79,911 Intersect N. & S. line
 13 lbs. N. of cor. to sec.
 20, 21, 28 & 29,
 Thence I run
 N. $89^{\circ}54'$ W. on true
 line bet. sec. 20 & 29,
 with same var.
 39,955 Set a sandstone 19×12
 $\times 8$ ins, 14 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. & W. of stone, $5\frac{1}{2}$ ft.

T. 20 N. R. 23. E.

chain.

dist. & raised a mound
of earth $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base along side.

79,91 cor. to sees. 19, 20, 29, & 30,

Grazing Good, 65 chs.
Surface rolling S. 3° E at

N. on random line
bet. sees. 19 & 30,

var. $13^{\circ} 59' E$,

Over broken bad lands

40,00 set temporary $\frac{1}{4}$ sec. cor.

78,45- Intersect N. by of Op.

19 lks. N. of cor. to sees.

19, 24, 25 & 30, ^{previously established} by me

Thence I run

N. $89^{\circ} 52' E$ on true
line bet. sees. 19 & 30,

with same var.

38,45- Put a sandstone 18x

T 20 N. R. 23. E.

chains

14 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, E. & W. of stone,
 $5\frac{1}{2}$ ft. dist, & raised
a mound of earth
 $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base
along side.

78,45 Cor. to sec. 19, 20, 29, & 30
Surface barren lands
Soil ~~flat~~

N. bet. sec. 19 & 20,

Var, $13^{\circ} 59' E$,

over broken bad lands

Rise and gradually

15,00 Enter valley, course W,

4000 Hit a sandstone 20 x

12 x 10 ins, 15 ins, in

T. 20 N., R. 23, E.,

chains,

thy ground, 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. & S. of stone,
 $5\frac{1}{2}$ ft. dist, & raised a
 mound of earth $1\frac{1}{2}$ ft
 high, $3\frac{1}{2}$ ft. base along
 side,

674.00 Cross wash 1 ch. wide
 course N.

Enter bad lands, hrs,
 E. & N.

80.00 Put a sandstone 24 x 10
 x 4 ins, 18 ins, in the
 ground for cor, to sec,
 17, 18, 19 & 20, marked
 with 3 nolets on
 S. and 5 nolets on

T. 20 N., R. 23. E.

chains

E. edges, dug pits 18x
18x12 in. in each
sec. $5\frac{1}{2}$ ft. dist. and
raised a mound
of earth 2 ft. high,
 $4\frac{1}{2}$ ft. base along
side. ^{Surface broken} Soil ^{at grade}
growing none

*

E. on random line bet.
secs. 17 & 20,

Var. $13^{\circ} 39' E.$

Over broken bad lands

2000 Have bad lands, ^{cross} ~~course~~

N. E. & S. W.

2500 Cross wash, 50 lks. wide
course S. $15^{\circ} W.$

4000 Rit temporary $\frac{1}{4}$ sec. cor.

8010 Intersect - N. & S. line

T. 20 N, R. 23, E,

chains

19, lks. S. of cor. to sees,

16, 17, 20 + 21,

Thence I run

S. $89^{\circ} 52'$ W. on 1 true
line bet. sees. 17 + 20

with same var.

40, 05 - Set a sandstone $12 \times$
 10×4 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,
E. + W. of stone, $5\frac{1}{2}$ ft.
dist; + raised a mound
of earth $1\frac{1}{2}$ ft, high,
 $3\frac{1}{2}$ ft. base alongside.

80, 10 Cor. to sees. 17, 18, 19, + 20

broken bad lands
Soil + it rat No grass

W. on random line

T. 20 N. R. 23. E.

chains

bet. sec. 18 & 19,

Var. $13^{\circ} 59' E$,

Over broken bad lands

31,000 Leave bad lands &
enter valley, ~~cross~~ ^{over} S.4000 Set temporary $\frac{1}{4}$ sec. cor.
over level surface.7831 Intersect W. by of Th.
21 kls. S. of cor. to sec
13, 18, 19 & 24, previously
established by me.Thence I run
S. $89^{\circ} 51' E$, on true
line bet. sec. 18 & 19,

with same var.

38,31 Set a sandstone $16 \times$
 10×4 ins, 9 ins, in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face,

T. 20 N., R. 23, E.

chains

dug pits 18x18x12 ins,
E. & W. of stone, $3\frac{1}{2}$ ft,
dist; & raised a mound
of sand $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$
ft. base along side

78.31

cor. to sec. 17, 18, 19 & 20

Surface rolling valley
covered with sage brush

Wazing good
Surface rolling Soil 3520

N. bet. sec. 17 & 18,

ran, $13^{\circ} 59'$ E,

over broken bad lands

Enter valley, course S. W.

10.00
40.00
Ret a sandstone 17x

10x4 ins, 11 ins, in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face

T. 20 N., R. 23. E.

chains

5300 dug pits $18 \times 18 \times 12$ ins
N. & S. of stone, $5\frac{1}{2}$ ft.
dist., & raised a mound
of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$
ft. base along side,
have valley, ascend
Through broken bad lands
trs. N. E. & S. W.

5000 Set a sandstone 18×9
 $\times 6$ ins. 12 ins. in the
ground for cor. to sec.
7, 8, 17 & 18, marked
with 4 nolets on S. &
5 nolets on E. edges,
dug pits $18 \times 18 \times 12$ ins,
in each sec. $5\frac{1}{2}$ ft.
dist., & raised a mound
of earth 2 ft. high, $4\frac{1}{2}$
ft. base along side.

T. 20 N. R. 23, E.

chains

Land broken
 Grazing Good.
 Soil 3/4 rate

E. on random line bet.
 sec. 8 & 17,

var. $13^{\circ}59'$ E.

Over broken surface
 Descend

4,90

Cross dry wash 80 lbs. wide
 course S;

ascend

40,000

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

80,16

intersect N. & S. line

19 lbs. N. of cor. to sec.
 8, 9, 16, & 17.

Thence I run

S. $89^{\circ}52'$ W. on true
 line bet. sec. 8 & 17,

with same var.

T. 20 N. R. 23. E.

chains

1908 Set a sandstone 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. & W. of stone, $3\frac{1}{2}$ ft.
dist, & raised a mound
of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$
ft. base along side,
80,16 cor. to secs. 7, 8, 17, & 18.

broken bad land
grazing poor. Soil + a cat

W. on random line
bet. secs. 7 & 18.

var. $13^{\circ} 59' E$,

over broken bad lands

ascend

2120 Top of mesa 100 ft. high

T. 20 N., R. 23, E.

chains.

trs N., S.

4000 Set temporary $\frac{1}{4}$ sec. cor,7820 intersect - W. by. of the
9 lks. N. of cor. to sees.
7, 12, 13 & 18, previously
established by me.Thence I run
N. $89^{\circ} 56' E.$ on 1700
line bet. sees. 7 & 18,

with same var.

38,20

Set a sandstone $11 \times 9 \times 7$ 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,
E. and W. of stone
~~in each sec.~~ $5 \frac{1}{2}$ ft,
dial; & raised a
mound of earth $1 \frac{1}{2}$
ft. high, $3 \frac{1}{2}$ ft. base

T. 20 N. R. 23. E,

chain.

alongside,

18.20 Cor. to seas, 7, 8, 17 & 18,

Grazing good
Surface broken. Soil 3' & 4' rate

Oct. 16, 1882,

I carefully examined
the adjustments of
my compass today,
particularly the lati-
tude & reversing ap-
paratus, & found
them correct -

N. bet. seas, 7 & 8,

Var. $13^{\circ} 59' E$,

ascend over broken
surface,

T. 20 N. R. 23. E.

chains.

4000' Set a sandstone 15 x 8 x 7 ins., 10 ins. in the ground for $\frac{1}{4}$ sea. cor. marked $\frac{1}{4}$ on W. face, dug pits 18 x 18 x 12 ins. N. & S. of stone, $5\frac{1}{2}$ ft. dist. & raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base alongside.

8000' Set a sandstone 18 x 10 x 8 ins., 12 ins. in the ground for. cor. to sea, 5, 6, 7, & 8, marked with 5 notches on D. & E. edges, dug pits 18 x 18 x 12 ins. in each sea, $5\frac{1}{2}$ ft. dist. & raised a mound

T. 20 N. R. 23. E.

chains

of earth 2 ft, high, $4\frac{1}{2}$
ft base along side.
Grazing Good
Superior Soil 30 at

E. on random line
bet, sec. 5 & 8,

Var, $13^{\circ}59' E$,

over rolling surface
descend gradually
leaving bad lands
now depression 10 ft,
deep, brs. 7, $10^{\circ} E$,

2500

4000

7990

Rit, temporary $\frac{1}{4}$ sec. cor.
Intersect - N & S. line
17 lbs. S. of cor. to sec,
4, 5, 8, 8, 9.

Thence I run

S, $89^{\circ}53' W$. on true

T. 20 N., R. 23, E.

chains

line bet. sees, 5 & 8,
with same var.

39.95 Set a sandstone 16x
8x6 ins, 11 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
dug pits 18x18x12 ins
E. & W. of stone, 5 $\frac{1}{2}$ ft,
dist, & raised a
mound of earth 1 $\frac{1}{2}$ ft,
high, 3 $\frac{1}{2}$ ft. base
along side.

79.90 cor. to sees, 5, 6, 7 & 8,
Grazing good
surface rolling. Soil 3rd rat

W. on random line
bet. sees, 6 & 7,
var. 13° 59' E.

T. 20 N., R. 23 E.

chain

Over bad lands

Gradual ascent—

1000

leave bad lands

21.00

Top of ridge, br. N. & S.

4000

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

78.15

Intersect—W. by of the

9 lks. S. of cor. to sec.

1, 6, 7 & 12, previously

established by me.

Thence I run

S 89° 56' E, on 1 mi

line bet. sec. 6 & 7,

with same var.

38.15

Set a sandstone 10x

8x7 ins, 6 ins, in the

ground for $\frac{1}{4}$ sec. cor.marked $\frac{1}{4}$ on N. face,

dug pits 18x18x12 ins,

E. & W. of @ low, 5 $\frac{1}{2}$ ft.

T. 20 N. R. 23. E.

chains.

dist. & raised a
mound of earth $1\frac{1}{2}$ ft.
high, $3\frac{1}{2}$ ft. base
alongside.

78.15 Cor. to sec. 5, 6, 7, & 8,

Grazing Good
Surface taken. Soil 3' & 4' at

N. bet. sec. 5 & 6,

ran. $13^{\circ} 59' E$,

One bad lands

Gradual descent

18,000 have bad lands

40000 Deposited a marked
stone 12 ins. in the
ground for $\frac{1}{4}$ sec. cor.
dug pits $18 \times 18 \times 12$ ins
N. & S. of same, $5\frac{1}{2}$ ft.
dist. & raised a
mound of earth $1\frac{1}{2}$

T. 20 N. R. 23. E.

chains

ft. high, $3\frac{1}{2}$ ft. base
over it. In N. pit,
drove a stake 2 ft.
long $2\frac{1}{2}$ ins. square
12 ins. in the ground
marked $\frac{1}{4}$ S. on W. face.

S. 110 Intersect $5\frac{1}{2}$ Standard
N. at a point 2, 18 lks.

E. W. of standard cor,

to sec. 31 & 32, T. 21, N.

R. 23, E. previously

established by me,

where I set a sand-

stone $18 \times 10 \times 6$ ins.

12 ins. in the ground

for closing cor. to

sec. 5, 6, marked

C.C. with 1 notch on

W. & 3 notches on E.

T. 20 N., R. 23. E.

Chairs.

edges, dug pits $18 \times 18 \times$
 12 ins. S. E. & W. of
 Stone, $5\frac{1}{2}$ ft. dist. &
 raised a mound
 of earth 2 ft. high
 $4\frac{1}{2}$ ft. base along
 side.

Grazing Good
 Surface ~~trick~~ Soil 30×4 at

John Pley
 Compassman

Oct., 17, 1882.

T. 20 N. R. 23. E.

hains

General Description

The surface of this township is rolling & broken with some valley land in central portion & some mesa land in northern & eastern portions. The grazing upon the valley & mesa land is good, as is also the grazing ⁱⁿ extreme N. western portion of township, - M.^r Coy's residence is situated upon the S. E. quarter of Sec. 11, - No timber. Rail 3rd grade & barren bad lands.

For Trial Cashes
see last book
(No. 17.) of
Surrey.

U. S. Surveyor General's Office,

TUCSON, ARIZONA,

April 19, 1883

The foregoing Field Notes of the Survey of the

Subdivision lines of Tp.
20 North, Range 23 East

Of the Gila and Salt River Base and Meridian, Arizona, executed by Frank Follman

Deputy Surveyor, under his contract of the 29th

day of July, 1852, having been

critically examined and the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

J. M. B. Biss
Surveyor General.