

Book No 2 BOOK 781

*Leopold
Platted*

No. 781

B. U. Prewitt Deputy Surveyor.

T. *18 S* R. *23 E*
Gila and Salt River Meridian.

BOOK 781

781

FIELD NOTES

OF

THE SUBDIVISION LINES OF

Township *18 S* Range *23 E*
Gila and Salt River Meridian.

BY

B. U. Prewitt Deputy Surveyor.

under his Contract of *August 23rd* 1853

Survey Commenced *June 5th* 1854

Survey Completed *June 7th* 1854

Platted.

Copied for Washington,

Copied for Register,

No. 781

Indexed.

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2 $\frac{1}{3}$	21	49	41	95 $\frac{2}{3}$
2	4 $\frac{2}{3}$	22	51 $\frac{1}{3}$	42	98
3	7	23	53 $\frac{2}{3}$	43	100 $\frac{1}{3}$
4	9 $\frac{1}{3}$	24	56	44	102 $\frac{2}{3}$
5	11 $\frac{2}{3}$	25	58 $\frac{1}{3}$	45	105
6	14	26	60 $\frac{2}{3}$	46	107 $\frac{1}{3}$
7	16 $\frac{1}{3}$	27	63	47	109 $\frac{2}{3}$
8	18 $\frac{2}{3}$	28	65 $\frac{1}{3}$	48	112
9	21	29	67 $\frac{2}{3}$	49	114 $\frac{1}{3}$
10	23 $\frac{1}{3}$	30	70	50	116 $\frac{2}{3}$
11	25 $\frac{2}{3}$	31	72 $\frac{1}{3}$	51	119
12	28	32	74 $\frac{2}{3}$	52	121 $\frac{1}{3}$
13	30 $\frac{1}{3}$	33	77	53	123 $\frac{2}{3}$
14	32 $\frac{2}{3}$	34	79 $\frac{1}{3}$	54	126
15	35	35	81 $\frac{2}{3}$	55	128 $\frac{1}{3}$
16	37 $\frac{1}{3}$	36	84	56	130 $\frac{2}{3}$
17	39 $\frac{2}{3}$	37	86 $\frac{1}{3}$	57	133
18	42	38	88 $\frac{2}{3}$	58	135 $\frac{1}{3}$
19	44 $\frac{1}{3}$	39	91	59	137 $\frac{2}{3}$
20	46 $\frac{2}{3}$	40	93 $\frac{1}{3}$	60	140

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Table for Running on Slopes.

In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain. horizontal measurement.

Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
0		0		0		0	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

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R. C. Powers Deputy Surveyor.

T. *13 S.* R. *23 E.*

Gila and Salt River Meridian.

FIELD NOTES

OF

THE SUBDIVISION LINES OF

Township *13 S.* Range *23 E.*

Gila and Salt Meridian.

BY
R. C. Powers Deputy Surveyor.

under his Contract of..... 18 *84*

Survey Commenced.....

Survey Completed.....

Platted:

Copied for Washington,

Copied for Register,

18 Township 13 South, Range 23 East,

Sida and Salt River Base and Meridian.

BOOK 781

6	60	5	44	4	33	3	22	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

Preliminary Oath of Assistants.

I, _____ do solemnly swear that I will well and truly perform the duties of Compassman, according to instructions given me, and to the best of my skill and ability.

Subscribed and sworn to before me, this _____ day of _____ 187

U. S. Deputy Surveyor.

We, _____ and _____

do solemnly swear that we will faithfully execute the duties of Chain carriers; that we will level the chain upon uneven ground, and plumb the tally pins, whether by

sticking or dropping the same, that we will report the true distance to all notable objects, and the true length of all lines; that we will assist in measuring, to the best of our skill and ability.

Subscribed and sworn to before me, this day of
187

U. S. Deputy Surveyor.

Township

Range

No. 781

Meridian.

For description of instruments
and preliminary notes
see Book No. 1

Survey commenced June 5th 1884
" " June 7th 1884

Township 13 S

Range 20 E

Grand S R

Meridian.

Chains

From the corner to Sections 35, 36, 1 and 2 on the South boundary I run.
North, between Sections 35 and 36.

Variation 10° 00' East.

24.00

Road ft. N.E. and S.W. around mountain side

40.00

Set a limestone 20x8x8 ins. 15 ins. in the ground for "4" Sec. Cor. marked "4" on N. face and raised a mound of stone along side.

Pite impracticable

66.63

Walk 25 lbs. wide lev. SE. in deep gulch

70.00

around mountain

80.00

Set a malpais rock 18x15x16 ins. 12 ins. in the ground for Cor. to Sec. 25, 26. 05 x 26 marked with 1 notch on S. and 1 notch on E. edge, and raised a mound of stone alongside

Pite impracticable.

Surface mountainous

Soil Ind. nat

Grass fair

Township 13 S

Range 20 E.

Gard S & M Meridian.

Chains

East, on a random line between Sections 25 and 36.

Variation $18^{\circ} 00'$ East.

Descending rough mt.

12.20

Mark 30 links wide Sec. S.

ascend gradually

240.00

Set temporary "4 Sec. Cor.

86.10

Intersect E. Coy. of the Tp. 10 lbs. N.

of the Cor. to Sec. 25, 26, 35 & 36 which is
porphyry rock 7x6 ins. marked with
notch on S. and 5 notches on N. edge
with file in each Sec. and a
mound of earth alongside.

Thence I run N. $89^{\circ} 58'$ W. on a true
line bet. Sec. 25 & 36 with same va.

40.00-

Set a granite 12x10x10 ins. 8 ins. in
the ground for "4 Sec. Cor.
marked "4 on N. face and
raised a mound of stone
alongside. Not impacticable

80.00

The Cor. to Sec. 25, 26, 35 & 36

Surface rough and rolling

Soil 2nd. rate

Grass fair

Township

10 S.

Range

20 E.

G and S. R.

Meridian.

Chains

North, between Sections 25 and 26.

Variation 10°

East.

30.00

Ascend along mt. to N. 80° W. 1850' C.

Descend

40.00

Set a granite stone 12x12x12 ins.
5 ins. in the ground for "4 Sec.
Cen. marked "4000 N. face
and raised a mound of
stone alongside.

Pit impracticable

40.50

Wash 30 lbs. with Cen. S. E.

48.20

Wash 30 lbs with " S. E.

50.00

Ascend rough mt.

78.00

Top of mountain to E. & W. descend

80.00

Set a granite 14x12x8 ins. 9 ins.
in the ground for Cen. To Sec
23 24, 25 & 26 marked with
2 notches on S. and 1 notch
on E. edge. and raised a
mound of stone alongside.

Pit impracticable

Sur face mountainous

Soil 3rd. rate

Good grass

G. and S. R.

Meridian.

Chains

East, on a random line between Sections 24 and 25.

Variation 13°

East.

Ascend sharp point of mountain

20.20

Top of upper tr. N.S. descend

30.70

Foot of upper tr. N.S. cross gulch
50 ft. wide low pt.

40.00

Set temporary "4" sec. cor.

80.06

Determine E. cor. of T. 14 lks.

S. of the cor. to Sec. 18, 24, 25

and 20 which is a porphyry
rock 8 x 10 ins. marked with
2 notches on S. and 4 notches onN. edge. with pits in each
Sec. and a mound

of storth alongside There

I run S. 89° 54' W. on a true
line bet. Sec. 24 & 25 with
same ca.

40.03

Set a granite stone 10 x 8 x 7 ins. juv
in the ground for "4" sec. cor.marked "4" on N. face and
raised a mound of stone
along side. Citi unpracticable

80.06

The Cor. to Sec. 20, 24, 25 & 26

Sur face mountainous

Soil 3rd. rate

Good grass

Township 12 N.

Range 28 E.

T. 9 S. R. 9

Meridian.

Chains

North, between Sections 23 and 24.

Variation

10°

East.

Ascend

4000

Set a malpais rock 18x10x7 ins
 11 ins. in the ground for "X"
 See Cor. marked. "H" on N.
 face and raised a mound
 of stone alongside.

City impracticable

4200

Top of mt. to E. & N. and
 descend

8000

Set a malpais rock 24x
 12x10 ins. 15 ins. in the ground
 for Cor. to Secs 18, 19, 20 & 21
 marked with 3 notches on
 S. and 1 notch on E. edge
 and raised a mound
 of stone alongside.

City impracticable

See face mountainous

Soil 3rd. rate

Good grazing

Township 18 Range 23 E.

G. & S.A.

Meridian.

Chains

East, on a random line between Sections 13 and 24.

Variation 10° E. East.

16.00
40.00
54.10
70.00
80.00

Enter valley
Set temporary "4 Sec. Cor.
Road fr. N. & S.
Road fr. N & S.
Intersect E. Coy. of the Sp.
20 links N. of the Cor. to Sec.
13, 18, 19 and 24 which is a
mound of earth with pit in each
Sec. and a stake in S.E. pit marked
S. 13 on S. 18 on N.E. R. 24 E. S. 19 on S.E.
R. 23 E. S. 24 on S.W. and S. 13
on N.W. face with 2 notches on
S. and N. edges. Then I run
N. 79° 50' W. on a true line bet.
Sec. 13 and 24 with same va.

40.00

Set a mafic rock 16x10x5 ins.
4 ins. in the ground for "4 Sec.
Cor. marked "4 on N. face and
raised a mound of stone along
side. Pit impracticable

80.00

The Cor. to Sec. 13, 14, 20 & 24
Surface level
Soil 2nd. rate
Good grazing

Township 18A

Range 23E

7 and S. R

Meridian.

Chains

North, between Sections 13 and 14.

Variation

13°

East.

Descending

9.00

Dry wash 15 th. wide cor. SW,

22.00

Dry wash 20 th. wide cor. SW,

40.00

Set a malpais rock 28x16x6
ins. 21 ins. in the ground
for 1/4 Sec. Cor. marked 14 on
N. face and raised a mound of
stone alongside. Cts. unfractured

80.00

Set a malpais rock 18x10x5 ins
12 ins. in the ground for Cor.
to Sec. 11, 12. 14 and 14 marked
with 4 notches on S. and 1
notch on E. edge. and
raised a mound of stone
alongside. Cts. unfractured
Surface level rolling
Soil 2nd rate
Good grazing

Township 18 d

Range 20 E

G. S. A. S.

Meridian.

Chains

East, on a random line between Sections 12 and 13.

Variation 13° East.

- 11.80 Road to N.W. and S.E.
 4000 Set temporary 1/4 Sec. Cor.
 8000 ^{Road to N. & S.} ~~Intersect~~ E. Coy. of Tp. at
 8008 the Cor. to Sec. 7, 12, 13 and 18
 which is a post 4 ins. sq. marked
 0.13 S. S. 7 on N.E., 0.24 E. S. 18 on S.E.,
 0.20 E. S. 13 on S.W. and 0.12 on
 N.W. face, with 4 notches on S.
 and 2 notches on N. edges, with file
 in each Sec. and a mound
 of earth around post.
 Thence I run N. on a true line
 bet. Sec. 12 + 13 with same 20.
- 4004 Set a malpais stone, 14 x 10 x 7 ins. 9 ins.
 in the ground for 1/4 Sec. Cor. marked on N.
 face, dug pits 18 x 18 x 12 in. E. and W.
 of stone 5 1/2 ft. dist. and raised a mound of earth
 14 ft. high 24 ft. base alongside.
- 8008 On the Cor. to Sec. 11, 12, 13 + 14
 Surface level
 Soil 1st. rate
 Good grazing

Township 18 N

Range 28 E

Land & R

Meridian.

Chains

North, between Sections 11 and 12.

Variation 13°

East.

17.40
4080

Road to A. H. and S. C.
Deposited a marked stone 12 ins. in the ground for 1/4 Sec. Cor. dug pits 18 x 18 x 12 ins. N. and S. of stone 5 1/4 feet dist. and raised a mound of earth 1 1/4 ft. high 3 1/4 ft. base over it. In N. pit drove a stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked 1/4 S. on N. face.

80.00

Deposited a marked stone 12 ins. in the ground for Cor. 10 Sec. 12. 11 512 dug pits 18 x 18 x 12 ins. in each Sec. 11 and 12 and raised a mound of earth 1 1/4 ft. high 3 1/4 ft. base over it. In S. pit drove a stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked 1/4 S. on N. face. S. 1 N. 28 E. 12 11
S. 2 N. 28 E. 12 11
S. 3 N. 28 E. 12 11

Surface level
Soil 1st. rate
Good grazing

Township 18 S Range 23 E.

G. and S.R.

Meridian.

Chains

East, on a random line between Sections 1 and 12.

Variation 10° East.

40.00

Set temporary 1/4 Sec. Cor.

72.00

Road to Grand St.

80.14

Intersect E. edge of T. 20 lbs.
N. of the Cor. to Sec. 1, 6, 7 & 12
which is a mound of earth and
pits in each Sec. with a stake
in S.E. pit marked P. 10 S. S. 6
on N.E. R. 24 E. S. 7 on S.E.
R. 20 E. S. 12 on S. St. and
S. 1 on N. St. face with
5 notches on S. and 1 notch
on N. edge. Thence I run
N. 89° 51' W. on a true line
bet. Sec. 1 and 12 with
same

40.07

Deposited a marked stone 10 ins. in the
ground for 1/4 Sec. Cor. 10 1/2 x 15 x 12 ins
E. and N. of stone 1/4 ft. dist and raised
a mound of earth 1 1/2 ft. high, 3 ft. base over
it. In E. pit drove a stake 2 ft. long 2 ins.
sq. 12 ins. in the ground marked 1/4 S. on N.
face.

80.14

The Cor. to Sec. 1, 2, 11 & 12
Surface level
Soil 1st rate
good grass

Township 13 N.

Range 20 E

Gand S. A.

Meridian.

Chains

North, on a random line between Sections 1 and 2.

Variation 10°

East.

40.00

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

80.08

Intersect N. Body of the T.
21 Ch. N. of the Cor. to Sec.
1, 2, 35 and 36 which was
recently established by me.
Thence I run S. $8^{\circ} 9'$ W. on a
true line bet. Sec. 1 and 2
with same va.

40.08

Deposited a marked stone 12 ins. in the
ground for $\frac{1}{4}$ Sec. Cor. dug $12 \times 12 \times 12$ ins.
N. and S. of stone 51 feet and raised
a mound of earth 12 ft. high over
it. In N. pit drove a stake 21 ft. high
sq. 12 ins. in the ground marked $\frac{1}{4}$ S. on N.
face.

80.08

The Cor. to Sec. 1, 2, 11 and 12
Surface level
Soil 1st rate
Good grain

I carefully examined the adjustments of
my solar instrument to-day for determining
the latitude and reversing apparatus
and found them correct.

Township *R. S.*

Range *20 E*

I will set 2 3435-
~~from the line to the line 26.27.34 & 35 on the N. by~~ Meridian.
~~of the 4 sections ab. 34 and 35~~

Chains

North, between Sections 34 and 35.

Variation *10°*

East.

4000

Set a granite stone, $4 \times 7 \times 7$ 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. N. and S. of stone $5\frac{1}{2}$ ft. dist. and raised a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. alongside.

8000

Set a granite stone $10 \times 8 \times 6$ ins, 10 ins. in the ground for Cor. to Secs, 26. 27. 34 & 35 marked with 1 notch on S. and 2 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 rough and rolling
 Soil 2nd. V. rich
 Good grass*

Township 18 S.

Range 20 E.

Township 18 S.

Meridian.

Chains

East, on a random line between Sections 26 and 35.

Variation 13°

East.

- 4000 Clear mt. ridge
 7998 Set temporary $\#4$ Sec. cor.
 Intersect N. & S. line 16
 lbs. N. of the cor. to
 Sec. 20, 26, 25 and 26 There
 I ran N. $89^{\circ}53'$ W. on a
 true line. Set Sec. 26 & 35
 with same cor.
- 3989 Set a malpais rock
 $18 \times 10 \times 8$ ins. 12 ins. in the
 ground for $\#4$ Sec. cor.
 marked $\#4$ on N. face
 and raised a mound
 of stones alongside
 of Pitt's unfractured cable
- 7998 The cor. to Sec. 26, 27, 24 & 30
 Surface mountainous
 Set 2nd rate
 Grazing pool

Township

13 S

Range

28 E

G. S. R.

Meridian.

Chains

North, between Sections 26 and 27.

Variation

13°

East.

4000

Accord over wet ridges
 Set a malpais rock 8x12x8
 ins. 12 ins. in the ground for
 114 Sec. low. marked "4" on
 N. face and raised a
 mound of stone along ridge
 Pits unfractured

8000

Set a granite stone 20x10x7
 ins. 15 ins. in the ground for
 low. to Sec. 22, 23, 26 & 27
 marked with 2 notches on S.
 and E. edges and raised
 a mound of stone along ridge
 Pits unfractured
 Surface unmountained
 Soil 4th rate
 Grazing poor

Township 10 S

Range 28 E

T. & S. R.

Meridian.

Chains

North, between Sections 22 and 23.

Variation 13°

East.

Ground

4900

Set a granite rock 16x10x8 ins.
11 ins. in the ground for
14 Sec. line marked by an
N. face, and raised a
mound of stone alongside
Pik impracticable

4600

Top of mountain to E. & W. and
descend into head of cañon.

8000

Set a malpais rock 18x10x7
ins. 12 ins. in the ground
for line to Secs. 14, 15, 22 & 23
marked with 3 notches on S.
and 2 notches on E. edges,
and raised a mound of
stone alongside.

Pik impracticable

From which an oak 7 ins. in diam.
As N. 40° E. 9 lbs. dist. marked
T. 10 S. R. 28 E. S. 14 & 5

No other trees within limits.

See face mountainous

Soil rocky 3rd. rate

Good grazing

Scattered oak trees

Township 18 S. BOOK 781 Range 23 E.

G. and S. R.

Meridian.

Chains

East, on a random line between Sections 14 and 23.

Variation

13°

East.

Resound

- 15.00 Dry wash 20 lbs. wide Co. N.E.
ascend over rocky point
of mt. ridge
- 40.00 Set temporary "4 Sec. Cor.
- 41.00 Dry wash 10 lbs. wide Co. N.
- 52.00 Enter valley
- 80.08 Intersect N. & S. line 20 lbs.
S. of the Cor. to Sec. 14, 14,
20 and 24. Show a run S.
89° 51' N. on a true line bet.
Sec. 14 and 20 with same 14.
- 40.04 Set a mass of rock 18 x 10 x 5 in.
12 in. in the ground for
"4 Sec. Cor. marked "4 on
N. face and raised a
mass of stone alongside
into impracticable.
- 80.08 The Cor. to Sec. 14, 15, 22 + 23
Surface mountainous
Soil rocky and rather
Good grazing
No timber

Township

18 S.

Range

28 E.

J. & S. R.

Meridian.

Chains

North, between Sections 14 and 15.

Variation

13°

East.

Ascending

5.00

Dry wash 20 lbs. wide W. E.

Ascend steep mountain

18.00

Top of mountain to E. & N. descend

40.00

Set a sulphur rock 18x12x7 ins.
^{South point}12 ins. in the ground for
14 in. N. marked 4 on
N. face, and raised a
mound of stone alongside

Pit infractible

64.00

Top of high mountain to E. & N.
ascend to N. then across same.

80.00

Set a sulphur rock 17x10x8 ins.
12 ins. in the ground for
N. to S. 10, 11, 14 and 15
marked with 4 notches on S.
and 2 notches on E. edge.
and raised a mound of
stone alongside.

Pit infractible

Surface mountainous

Set 4th set

Grass fair

J. & A. A.

Meridian

Chains

East, on a random line between Sections 11 and 14.

Variation 10° East.

14.00 Descend off E. end of mountain to No. 58

40.00 Set temporary 1/4 Sec. cor.

61.00 Foot of mountain to N. 8. Land
into valley77.98 Intersect N. & S. line 18 lbs.
N. of the cor. to Secs. 11, 12, 13 and 14.
Then I run N. 89° 52' W. on
a true line bet Secs. 11 & 14
with same va.89.99 Set a walpais rock 14x12x8
ins. 9 ins. in the ground for
1/4 Sec. cor. marked 1/4 on
N. face, and raised a
mound of stone alongside.
Pipe impracticable77.98 The cor. to Secs. 10, 11, 14 & 15
See few mountainous bld. rocks
and level 18.98 lbs.
Soil 2nd and 4th rate
Good grazing

Township 10 S. Range 20 E.

9 - S. Q Meridian.

Chains North, between Sections 10 and 11.

Variation 10° East.



4000

Set a granite 18x12x8 ins. 12 ins. in the ground for "4 Sec. Cor. marked "4 on N. face and raised a mound of stone alongside. Pitt impracticable Road to E. & W.

57,90

8000

Set a malpais 12 10 6 8 in the ground for Cor. 10 2. B. 10 11 with 5 notches on S. and 2 notches on N. dug pits 18 x 18 x 12 ins. 4 ft dist. and raised a mound of stone high 4 ft. base. alongside.

Soil face rolling Soil 2nd.

Good grass

Township 18 S.

Range 20 E.

T and S R

Meridian.

Chains

East, on a random line between Sections 2 and 11.

Variation

18°

East.

- 40.00 Set temporary "4 Sec. Cor.
- 42.00 Road to N.W. and S.W.
- 80.06 Intersect N. & S. line 12th. S. of
the Cor. to Sec. 12, 11 & 12. Found
a run N. 89° 55' W. on a true
line bet. Sec. 2 and 11 with
same cor.
- 40.03 Set a malpais rock 18x12x10
ins. min. in the ground for
"4 Sec. Cor. marked 4 on N.
face, and raised a mound
of stone alongside.
Pile impracticable to
- 80.06 The Cor. to Sec. 2, 2, 10 & 11
Surface level
Soil 1st. rate
Good grazing

Township 13 S Range 23 E

J and S W Meridian.

Chains North, on a random line between Sections 2 and 3.

Variation 13° East.

4000

Set temporary 1/4 Sec. cor.

64.20

Road 45 - J. S. W.

79.86

Enter at the N. Co. of the
7/8 20 lbs. N. of that cor.
to Sec. 2. 3. 04 and 00 which
was recently established by run.
Thence I run S 00 13' W. on a
true line bet. Sec. 2 & 3
with same cor.

89.86

marker stone 10 x 8 x 7 ins., 7 ins.
marked on N.
of stone 2 1/2 ft. dist. and raised a mound of earth
1 1/2 ft. high, 3 1/2 ft. base. alongside.

79.86

The cor. to Sec. 2. 3. 10 & 11
Surface level
Soil 2nd. rate
Dune cut clay

Township 10 S. BOOK 781 Range 20 E.

T. S. A.

Meridian.

From the Cor. to Sec. 24, 27 & 34 on the S. E. of the 1/4
acres into the lot 44 and 3 runs

Chains

North, between Sections 33 and 34.

Variation

13°

East.

3150

Wash 20 lbs. wide to S. E.

4000

Set a malpais rock 20 x 15 x 10

ins. 15 ins. in the ground for

1/4 Sec. Cor. marked 14 on N.

face and raised a mound

of stone alongside.

Pit impracticable

5020

Wash 20 lbs. wide to S. E.

8000

Set a malpais rock 18 x 12 x 7

ins. 12 ins. in the ground for

Cor. to Sec. 27, 28, 33 & 34 marked

with 1 notch on S. and 3

notches on E. edge. and

raised a mound of

stone alongside.

Pit impracticable

Surface mountainous

Soil 2nd. rate

Grass fair

Township 18 S Range 28 E

J. S. R. M.

Meridian.

Chains

East, on a random line between Sections 27 and 34.

Variation 18°

East.

10.05

Descend into gulch
Mark 25 lbs. wide cor. S. W.

30.15

Mark 20 lbs wide cor. S. 100 ft

40.00

Set temporary 1/4 sec. cor.

80.10

Entered N. 5 S. line 12
links N. of the cor. to Sec.
26, 27, 34 and 35 ~~marks~~ There
I run N. 89° 55' W. on a
true line bet. Sec. 27 & 34
with same var.

40.05

Set a magnetic rock 24x18x10 ins
18 ins. in the ground for 1/4
Sec. Cor. marked 1/4 on N.
face and raised a mound
of stone along side.

80.10

Pit impracticable
The cor. to Sec. 27, 28, 33 and 34
Surface mountainous
Soft 3rd. rate
good grass

Township 18 S. Range 23 E.

J. S. A. . . .

Meridian,

Chains North, between Sections 27 and 28.

Variation 18° East.

- 7.30 Wash Co. S. 30° E. 20th. wide
- 34.20 Wash 15th. wide to N.
- 37.20 Wash 20th. wide to N.
- 4.00 Set a malpais rock 12x10x5 in. 8 in. in the ground for "4 Sec. Cor. Marked "4 on N. face and raised a mound of stone alongside. Pit impracticable. Ascend mt. ridge fr. N. N. E. & E.
- 50.08 Top of mt. ridge fr. N. N. E. and S. E. descend
- 64.00 Foot of ridge fr. E. & N. enter valley
- 68.00 Dry wash 40 links wide to S. ascend.
- 8.00 Set a malpais rock 15x12x10 in. 12 in. in the ground for Cor. to Sec. 21, 22, 27 & 28 marked with 2 notches on S. and 3 notches on E. edges. and raised a mound of stone alongside. Pit impracticable. Surface mountainous. Soil 3rd. rate. No timber

Township

13 S.

Range

23 E.

G. S. A

Meridian.

Chains

East, on a random line between Sections 22 and 27.

Variation

10°

East.

Descending

18.00

Dry wash 40 lbs. wide to S. around

40.00

Set temporary 14 Sec. cor.

43.00

Dry wash 30 lbs. wide to W. S. H.

79.96

Intersect N. & S. line 16 lbs. S. of the cor. to Sec. 22, 23, 26 and 27. Thence I run S. 89° 50' W. on a true line bet. Sec. 22 and 27 with same or

89.98

Set a granite stone 16 x 10 x 8 ins in the ground for 14 Sec. Cor. marked 14 on N. face and raised a mound of straw alongside. Pile up to the

79.96

The Cor. to Sec. 21, 22, 27 & 28. Surface mountainous. Soil rocky. Soil rate. Good grazing.

Township 10 S. Range 20 E.

Grand S. R. Meridian.

Chains North, between Sections 21 and 22.

Variation 10° East.

Cross mt. ridger

5.60 Dry wash 10 lbs. with Co. St.

4000 Set a granite stone 24x12x12 ins 18 ins in the ground for 44 sec. Cor. marked 14 on W. face, and raised a mound of stone alongside.

Pit impracticable

40.80 Dry wash 10 lbs. with Co. St. and accrued steep mt.

7000 Set a malpais rock 18x12x10 ins. 12 ins. in the ground for Cor. to Sec. 15. T. 6. 21 or 22 marked with 3 notches on S and E. edges. and raised a mound of stone alongside.

Pit impracticable

Surface mountainous

Soft Sd. soil.

Graying fair

Township

18 S.

Range

28 E.

G. and S. B.

Meridian.

Chains

East, on a random line between Sections 15 and 22.

Variation

18°

East.

20.46

Downward 1/4 slope of mt.

Day wind 15 lbs. with 1/4 Sec. hor.

Day wind 20 lbs. with 1/4 Sec. hor.

Day wind 20 lbs. with 1/4 Sec. hor.

Intersect N. 1/4 Sec. line 12 lbs. S. of the hor. to Secs. 14, 15, 22 & 23

Distance I run S. 89° 55' W.

on a true line bet. Secs.

15 and 22 with same or

set a malpais rock 18x24

ins. 12 ins. in the ground

for 1/4 Sec. hor. marked

1/4 on N. face and

raised a mound of

stones along side.

Not impracticable the

The hor. to Secs. 15, 16, 21 & 22

Surface mountainous

Sloping S. and E.

Soil 4th rate.

Grazing fair

Top of divide bet. N & S. and

divided into canon bet.

N. & S.

34.41

40.00

47.00

70.20

40.10

80.20

65.00

Township 18 S.

Range 28 E.

G. S. A. W.

Meridian.

Chains

North, between Sections 15 and 16.

Variation

13°

East.

Ascending

12.00

Top of mt. to E. & W. there across
same

40.00

Set a malpais rock 17x12x5
ins. 12 ins. in the ground
for 4th Sec. Cor. marked
44 on N. face and raised
a mound of stone alongside

Pit impracticable

58.00

Descend gradual slope of mt. to E. & W.

80.00

Set a malpais rock
17x12x8 ins. 12 ins. in the
ground for Cor. to Sec
9, 10, 15 & 16 marked with
4 notches on S. and 3
notches on E. edge, and
raised a mound of
stone alongside.

Pit impracticable

Dry fair mountainous

at 4th rate

Proquy fair

Township 12 N

Range 23 E

G. and S. R.

Meridian.

Chains

East, on a random line between Sections 10 and 15.

Variation 13° East.

- 40.00 Along ^{gradual} N. slope of mt. Set temporary "4 Sec. Cor.
- 79.92 Enter at N. & S. line 10 lbs S. of the Cor. to Sec. 10, 11, 14, and 15. Then I run S. 87° 53' N. on a true line Set Sec. 10 and 15 with same cor.
- 39.96 Set a malpais rock 18x12x8 ins. 12 ins. in the ground for "4 Sec. Cor. marked "4 on N. face and raised a mound of stone along side. Pit impracticable
- 79.92 The Cor. to Sec. 9, 10, 15 & 16. Surface mountainous. Soil 4th rate. Grazing fair

Township 10 S

Range 23 E

Grand A. R.

Meridian.

Chains

North, between Sections 9 and 10.

Variation 18°

East.

4000

Deposited a marked stone 12 ins. in the ground for $\frac{1}{2}$ Sec. Cor. dug pits 18 x 18 x 12 ins. N. and S. of stone 5 1/4 feet dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft. base over it. In N. pit drove a stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked $\frac{1}{2}$ S. on N. face.

8000

Deposited a marked stone 12 ins. in the ground for Cor to Secs. 24, 9 & 10, dug pits 18 x 18 x 12 ins in each Sec. 5 1/4 ft. dist. and raised a mound of earth 2 ft high 4 1/2 ft. base over it. In S E pit drove a stake 2 ins. sq. 2 ft. long 12 ins. in the ground marked T. 12 S. 8 on N.E. R 23 E. S. 10 on S.E. S. 9 on S.W. and S. 4 on N.W. faces, with 5 notches on S, and 3 notches on E edges.

Surface level
Soil 1st. rate
Good grass

Township 10 S Range 23 E

G. and S. P. M. Meridian.

Chains

East, on a random line between Sections 3 and 10.

Variation 10° East.

- 40.00 Set temporary "4 Sec. Cor.
- 41.20 Erected direct bench
- 77.90 Intersect N. & S. line 26 links
S. of the cor. to Sec. 2, 3, 10 & 11
Thence down S. 89° 49' E. on
a true line bet. Sec. 8 & 10
with same val.
- 89.95 Set a granite stone 18x12x8 ins.
12 ins. in the ground for
"4 Sec. Cor. marked "4 on
N. face and raised a
mound of stone above grade
Pits impracticable
- 76.90 The cor. to Sec. 3, 4, 9 & 10
Surface level
Soil 2d. rate
Good grazing

Township 10 S.

Range 20 E.

Grand S. A. M.

Meridian.

Chains

North, on a random line between Sections 3 and 4.

Variation 12°

East.

40.00 Set temporary 44 Su. Cor.
 79.94 Intersected the N. Coy. of the 1/4
 15th Sec. N. of the cor. to
 Sec. 34, 33 and 34 which
 was recently established
 by me. Thence I ran
 S. 8° 8' N. on a true line
 bet. Sec. 3 and 4 with
 same ca.

39.94

Deposited a marked stone 12 ins in the
 ground for 1/4 Sec. Cor. dug pits 18 x 18 x 12 ins.
 N. and S. of stone 5/4 feet dist and raised
 a mound of earth 1 1/4 ft high 3/4 ft. base over
 it. In N. pit drove a stake 2 ft. long 2 ins.
 sq. 12 ins. in the ground marked 1/4 S. on N.
 face.

79.94

The Cor. to Sec. 34, 9 & 10

Surface level

Soil 1st. rate.

Good grass

I carefully examined the adjustments
 of my Solar instrument to-day particularly
 the latitude and re-versing apparatus
 and found them correct.

Township 13 S

Range 20 E

J. S. A. M.

Meridian.

From the top to Sec 28, 29, 32 and 33 on the S. E. of the Sec. 28, 29, 32 and 33. 8 run North, between Sections 32 and 33.

Chains

Variation 13° East.

38.00
40.00

Over rolling hills
Road from N.E. and S.W.
Set a malpais rock 14x13x10
ins. in the ground for "4"
Sec. low marked "4" on N.
face and raised a mound
of stone alongside.

Pit impracticable

70.00

Set a malpais rock 18x10x4
ins. in the ground for
low to Sec 28, 29, 32 and 33
marked with 1 notch on S.
and 4 notches on E. edge,
and raised a mound
of stone alongside.

Pit impracticable

Surface rolling
Soil 2nd. rate
Good grazing
Mugwort found

Township

13 S.

Range

28 E.

7 and S. P.

Meridian.

Chains

East, on a random line between Sections 28 and 33.

Variation

18°

East.

- 3.60 Road to N. H. and N.
- 10.40 Enter dry wash to N.
- 19.26 Leave wash to N. around
rocky mt. ridge
- 30.00 J. W. Howards' house to S. of
Pike & Ch.
- 40.00 Set temporary 4 Sec. line out top
of mt. ridge to E & W.
- 57.00 Descend into cañon to N.
- 64.00 Dry wash 15 lbs. wide to N.,
around rocky ridge
- 72.00 Top of mt. ridge to N. & N.
- 79.92 Crosscut N. S. line 15 lbs.
S. of the line to Sec. 27, 28, 33
and of them I own
S. 87° 54' N. on a true line
bet. Sec. 28 and 33 with
same ca.
- 89.96 Set a maffais rock 18 x 10 x 12 ins.
in the ground for 4 Sec. line marked 24 on N.
face and raised a mound of stone along rid.
into impracticable
- 79.92 The line to Sec. 28, 29, 32 and 33
Surface mountainous
Soil rocky and with good grass.

G. and S. 29

Meridian.

Chains North, between Sections 28 and 29.

Variation 13° East.

40.00

Ascend over mt. ridge
Set a malpais rock 10x10
x 6 ins. 7 ins. in the ground
for 14 Sec. Cor. marked
14 on N. face and raised
a mound of stone alongside
Pit impracticable

57.00

8.00

Dry wash 10 lbs. with to S. 45° E
Set a malpais rock 20x6x6
ins. 15 ins. in the ground for
Cor. to Sec. 20, 21, 28 and 29
marked with 2 notches on
S. and 4 notches on E. edge
and raised a mound
of stone alongside

Pit impracticable
Surface Broken
Soil 4th rate
Good grass
No timber

Grand A. R. Meridian.

Chains East, on a random line between Sections 21 and 28. Variation 1 30 East.

- 10.00 Wash 15 feet wide to S.
- 13.00 Wash 20 feet wide to S. ascend
- 24.00 Top of ridge to N. S. descend
- 40.00 Set temporary "4 Sec. cor
- 44.50 Foot of ridge to N. S. cross wash 30 feet wide to S.
- 57.00 Road to N and S.
- 60.20 Wash 40 feet wide to S. ascend
- 72.00 Top of ridge to N. S. descend
- 79.80 Intersect N. S. line 24 feet S. of the cor. to Sec. 21, 22, 27 or 28
Thence I run S. 79° 50' N. on a true line bet. Sec. 21 or 28 with same ca.
- 79.90 Set a granite stone 10x8x7 ins. 7 ins. in the ground for "4 Sec. cor. marked "4 on N. face and raised a mound of stone alongside. This is impracticable
- 79.80 The cor. to Sec. 20, 21, 28 or 29
Surface mountainous
Soil 3rd. rate
Scattering Cinders
Good grazing

Township 13 S. Range 28 E.

Land S. R. W. Meridian.

Chains North, between Sections 20 and 21.

Variation 13° E. East.

6.00
4000
Mark 25 links wide W. E.
Set a ^{hence used. not. 1/2 size} malpais rock 20x18x15 in
15 ins. in the ground for
14 Sec W. marked 14 on
N. face. and raised a
mound of stone alongside
Pit impracticable

8000
Set a granite stone 25x20x10
ins. 19 ins. in the ground for
W. to Sec. 16. 17. 2002
marked with 3 notches on S.
and 4 notches on E. edge. and
raised a mound of stone
alongside. Pit impracticable
Surface mountainous
Soil ~~light~~ rate
Grass fair

Township

R. S.

Range

23 E.

G. and S. R.

Meridian,

Chains

East, on a random line between Sections 16 and 21.

Variation

1 2°

East.

- 4000 Set temporary "4 sec. cor. line
along the slope of hill
- 79.68 Intersect N. & S. line 31 lbs.
S. of the cor. to Sec. 15, 16,
21 and 22 Thence S run
S. 89° 47' W. on a true
line bet. Sec. 16 and 21
with same cor.
- 39.8# Set a malpais rock 15x8x8 ins.
10 ins. in the ground for
"4 sec. cor. marked "4 on
N. face and raised a
mound of stone alongside
Pile unpracticable
- 79.68 The cor. to Sec. 16, 17, 20 & 21
Surface rough
Soil Int. wet
Good grass

Township

10 S.

Range

20 E.

Land S. R.

Meridian.

Chains

North, between Sections 16 and 17.

Variation 10° East.

17.00
4000

Round high mt. hrs. E. & W.
Top of mt. hrs. E. & W.
Set a malpais sock 20 x
10 x 8 ins. 15 ins. in the ground
for 14 Sec. Cor. marked
14 on N. face and raised
a mound of stone
along side. Pit impracticable
Descend gradually

8000

Set a granite 18 x 17 x 10 ins.
12 ins. in the ground for Cor.
to Sec. 8, 9, 16 & 17 marked
with 4 notches on S. and E.
edges and raised a mound
of stone alongside, Pit
impracticable

Surface mountainous
Soil 4th rate
Graying fair

Township 13 S Range 28 E

G. and S. R. Meridian.

Chains East, on a random line between Sections 9 and 16. Variation 10° East.

- 4000 Along side of mt
Set temporary ^{1/4} Sec. Cor.
- 57.00 Top of mt. ridge ^{to N. 1/4} and descend
- 80.06 Dubuque N.S. line 20 lbs
S. of the Cor. to Sec. 9, 10, 15 & 16
then I run S. 89° 50' W. or there
line bet. Sec. 9 and 16
with same as
- 4003 Set a well fair rock 12x10x10
ins. dia. in the ground
for ^{1/4} Sec. Cor. marked
^{1/4} on N. face and
made a mound of
stone along side.
Pis. myrtilacea 16
- 8006 The Cor. to Sec. 8, 9, 16 & 17
Surface mountainous
Soil Ind. note
Grazing fair
W. timber

Township

13 S.

Range

20 E,

Meridian.

Chains

North, between Sections 8 and 9.

Variation

18°

East.

1000

Enter Valley

4000

Set a Malpais rock
16x10x8 ins. 11 ins. in the
ground for 14 Sec. Cor.
marked 14 on N. face,
and raised a mound
of stone alongside,
Pits impracticable to

8000

Deposited a marked stone 12 ins. in th.
ground for Cor. to Secs. 4, 5, 8 and 9, dug pits
18x18x12 ins in each Sec. 5 1/2 ft. dist. and
raised a mound of earth 2 ft high 4 1/2 ft. base
over it. In S E pit drove a stake 2 ins. sq. 2
ft. long 12 ins in the ground marked T. 13 S.
S. 4 on N.E. R 27 E. S 9 on S.E. S. 8
on S.W. and S. 5 on N.W. faces with
5 notch on S, and 4 notches
on E edges.

Surface level
Soil 1st. rate
Good grass

Township

13 S

Range

23 E

Grand S. R.

Meridian.

Chains

East, on a random line between Sections 4 and 9.

Variation 18°

East.

- 2000 ascend over sharp point
- 2000 Gulch cor. N. 10° W. ascend
- 35.00 Top of ridge N. 10° S. descend
- 40.00 Set temporary 14 Sec. cor.
- 50.00 Foot of ridge cor. N. 5° S. ascend
- 55.00 Top of ridge cor. N. 5° S. descend
- 64.20 Gulch cor. N. 20° W.
- 7000 Intersect N. 5° S. line 28 lbs.
- S. of the cor. to Sec. 34, 9810
- Thence I run S. 89° 48' W. on
- the true line bet. Sec.
- 459 with same in.
- 4900 Set a malpais rock 20 x 18
- x 10 ins. 15 ins. in the ground
- for 14 Sec. cor. marked 14 on
- N. face, and raised a mound
- of stone along with
- its imperishable
- 8000 The cor. to Sec. 4, 5, 859
- Surface mountainous
- Soil 4th rate
- Goan fair

Township

10 S.

Range

23 E.

J. & C. P. No. 781

Meridian.

Chains

North, on a random line between Sections 4 and 5.

Variation

 10°

East.

H 000

Set temporary $\frac{1}{4}$ Sec. Cor.
 Subsequent Set. C. of the T. P.
 18 links N. of the line to
 Sec. 4, 5, 82 and 83 which was
 recently established by me.
 Thence I run $S 5^{\circ} 8' N$ on
 a true line bet. Secs
 4 and 5 with same cor.

H 010

Deposited a marked stone 12 ins. in the
 ground for $\frac{1}{4}$ Sec. Cor. dug pits 18 x 18 x 12 ins.
 N. and S. of stone $\frac{1}{4}$ ft. dist and raised
 a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft. base over
 it. In N. pit drove a stake 2 ft. long 2 ins.
 sq. 12 ins. in the ground marked $\frac{1}{4}$ S. on N.
 face.

J 010

The Cor. to Sec. 4, 5, 8 and 9
 Surface level
 Soil 1st. rate
 Good grass

Township 10 S. Range 28 E.

G. and S. R.

Meridian.

From the cor. to Sec. 28 2000 north S. 1/2 of the 1/2 sec. north into the lot 74 near Iron North, between Sections 31 and 32.

Chains

Variation 10° East.

Down along N.E. slope of mt. through dense brush

22.10 Dry wash 20 lbs. wide to S.W.

34.50 Dry wash 20 lbs. wide to S.E.

4000 Set a granite stone (6x12x7) ins 11 ins in the ground for "4 Sec. Cor. marked "4 on N.W. corner and raised a mound of stone alongside.

Pit *unpracticable* the from which can be seen in depth to 420 ft. 20 lbs. - pit marked "4 S. 1/2 1/2"

7500 Set a granite stone (6x10x8) ins. 11 ins. in the ground for

Cor. to Sec. 28 20 31 102 marked with 1 notch on S. and 5 notches on E. edges and raised a mound of stone alongside.

Pit *unpracticable* the

Face mountain

Soil 3rd. rate

Dense brush

Township

18 S.

BOOK 781

Range

23 E.

J and S. G.

Meridian.

Chains

East, on a random line between Sections 29 and 32.

Variation 10°

East.

40.00

Descending gradually
Set temporary 1/4 Sec. Cor.

66.00

Mark 40 ft. with 1/4 Sec. Cor.

80.10

Extract N. & S. line 17 Ch.

S. of the line to Sec. 28, 29,

32 and 33 Then I run

S. $79^{\circ}53'N$. on a true line

bet. Sec. 29 & 32 with same ca.

40.00

Set a Quartz rock $14 \times 8 \times 6$ in.

7 in. in the ground for 1/4

Sec. Cor. marked 1/4 on

N. face and raised a

mound of stone alongside.

Pit unproductive

80.10

The Cor. to Sec. 29, 30, 31 & 32

Surface mountainous

Soil 2nd. rate

Dense cat claw and

mesquite brush

Good grazing

Township 13 S Range 20 E

Grand S.A. Meridian.

Chains West, on a random line between Sections 30 and 31. Variation 10° East.

According

40.00 Set temporary "4 Sec. Cor.

43.00 Top of mountain top. N. & S. descent

61.50 West point. From top. Walk 30 lbs. - up to top. S. ascend

79.98 I intersect N. edge of the T. 20 lbs. S. of the Cor. to Sec. 25. 30. 31 and 36 which was recently established by me. Thence I run S. 89° 50' E. on a true line bet. Sec. 30 and 31 with same ca.

89.98 Set a granite stone 12x10x9 ins. 8 ins. in the ground for "4 Sec. Cor. marked "4 on N. face. and raised a mound of stone alongside. It is impracticable

79.98 The Cor. to Sec. 29. 30. 31 & 32
 Surface mountainous
 Soil 4th rate
 Grass fair

Township 13 S

Range 23 E

J. S. R. M.

Meridian.

Chains

North, between Sections 29 and 30.

Variation

78°

East.

40.00

Along Edge of mt. over mt. ridge
 Set a malpais rock 16x12x7 ins.
 11 ins. in the ground
 for 114 Sec. W. marked
 114 ft. for and raised
 a mound of stone
 along side. Pit. Impracticable

70.00

Set a malpais rock 20x10x5
 ins. 15 ins. in the
 ground for Sec. to Sec. 19
 19, 20, 29 & 30 marked
 with 2 notches on S. and
 5 notches on E. edge, and
 raised a mound of
 stone, along side. Pit. impracticable
 Surface rough
 Soil 2nd & 4th rate
 Grass poor

Township 19 N

Range 20 E

Gand S.R.

Meridian.

Chains

East, on a random line between Sections 20 and 29.

Variation 13°

East.

- 320 Road to N. and S.
- 820 Wash 30 lbs. wide lev. $S 10^{\circ} E$
- 20.00 Leave valley ascend along N. slope
of ridge
- 40.00 Set temporary $1/4$ Sec. lot.
- 47.25 Leave N. slope of ridge cross wash
lev. S. 30 links wide
- 7.00 Wash lev. S.E. 20 lbs. wide
- 80.20 Antennet N. & S. line 20 links
S. of the lot to Sec. 20, 21, 28 &
29. Thence S. run S. $89^{\circ} 51' N$.
on the true line bet.
Sec. 20 and 29 with
same ca.
- 40.10 Set a soapstone rock $12 \times 10 \times 8$ ins
8 ins. in the ground for
 $1/4$ Sec. lot. marked '14'
on N. face. and raised
a mound of stone along side
Pile unpracticable!
- 80.20 The lot to Sec. 19, 20, 29 & 30
Surface rough
Soil 2nd. rate
Dense brush

Township 10 S

Range 20 E

G. S. B.

Meridian.

Chains

West, on a random line between Sections 19 and 30.

Variation 13°

East.

15.00
40.00
79.50

across steep mountain
 Set temporary "4 Sec. Cor.
 Intersect N. Coy. of Twp. 38
 link N. of the Cor. to
 Sec. 19. & 4. 25 & 30 which
 was recently established
 by me. Then I ran N. 89°
 44' E. on a true line bet.
 Sec. 19 and 30 with same ca.
 Set a granite stone 24x12x10 ins.
 18 ins. in the ground for "4 Sec.
 Cor. marked "4 on N. face
 and raised a mound
 of stones along side.

39.50

Pile impracticable
 The box to Sec. 19. 20. 29 & 30
 Is a few mountain
 Soil 4th rate
 Grass fair

79.50

Township 13 S Range 23 E

J. and S. G. Meridian.

Chains North, between Sections 19 and 20. Variation 13° East.

- 7.00 Wash Co. St. 20 lbs. wide ascend mt. to N.W. & E.
- 25.00 Top of mt. to N.W. & E. descend
- 40.00 Lts. Granitic stone 12 x 10 x 8 ins. 8 Pies. in the ground for 114 Sec. Co. marked "4" on N. face, and raised a mound of stone alongside. Pile impracticable
- 46.00 Foot of mt. to N.W. & E. cross wash 40 lbs. wide Co. St. ascend ridge
- 52.00 Top of ridge to N.W. & E. descend
- 58.00 Wash 5 lbs. wide Co. St.
- 77.00 Ravine Co. St.
- 80.00 Granitic 20 x 18 x 15 ins. 15 Pies. in the ground for Co. to Sec. 17, 18, 19 & 20 marked with 3 notches on S. and 5 notches on E. edges, and raised a mound of stone alongside. Pile impracticable the surface mountainous Soil 4th rate Grass fair

Township

13 S

Range

23 E.

T. and S. C.

Meridian.

Chains

East, on a random line between Sections 17 and 20.

Variation

13°

East.

Accord

40.00

Set temporary 1/4 Sec. cor.

80.40

Deduct 1/4 and 1/2 line 30 lbs. of the line to Secs. 16, 17, 20 & 21
 There I run st. 89° 47' N. as a true line bet Secs. 17 and 20 with same in.

40.20

Set a granite stone 20x18x10 ins
 15 ins. in the ground for 1/4 Sec.
 cor. marked 1/4 on St. face
 and raised a mound of stone
 alongside. Pit's impracticable

80.40

The cor. to Sec. 17, 18, 19 & 20

Surface rough

Soil 2nd. rate

Grass fair

Township 13 S Range 23 E.

J. and S. R.

Meridian.

Chains

West, on a random line between Sections 18 and 19.

Variation 13°

East.

Accord out of ravine

40.00

50.00

79.40

Set temporary "4 Sec. Cor.
^{about 20 ft. from} Intersect N. by of 5th 15
 S. of the of Cor. to
 Secs. 13, 18, 19 and 24 which was
 recently established by me.

Then I run S. 89° 54' E. on a
 true line bet. Secs. 18 and 19
 with same ca.

39.46

Set a malpais rock 18x12x7
 ins. 12 ins. in the ground
 for "4 Sec. Cor. marked
 "4 on N. face, and raised
 a mound of stone
 alongside. Pts. impracticable

77.46

On Cor. to Secs. 17, 18, 19 & 20
 Surface mountainous
 Soil 3rd. rate
 Grass Poor

Township

18 S.

Range

23 E.

Grand S.R.

Meridian.

Chains

North, between Sections 17 and 18.

Variation

13°

East.

Continued up Ravine

80.00

Leave Ravine ascend mt. to N. & W.

75.00

Top of mt. ¹⁰⁰ ft. E. & N. descend

23.50

Walk 200 yds. with lev. E. ascend

30.00

Top of ridge to E. & N. descend

40.00

Set a malpais rock 20 x 15 x 10

ins. 15 ins. in the ground for

1/4 sec. lev. marked 1/4 sec

W. face and raised a mound

mound of stone alongside.

Pit impracticable

74.52

Deep canon to E.

80.00

Set a malpais rock 20 x 15 x 6

ins. 15 ins. in the ground for lev.

to Secs. 7, 8, 17 and 18 marked

with 4 notches on S. and 5 notches

on E. edges and raised a

mound of stone alongside.

Pit impracticable

Surf. face mountainous

Soil 4th rate

Grass fair

J. S. R.

Meridian,

Chains East, on a random line between Sections 8 and 17.

Variation 18° East.

- 15-0 Ascend mt. to N.W. 1/4
 - 34.00 Top of mt. to N.W. 1/4 descend
 - 4000 Set temporary 1/4 Sec. cor.
 - 52.00 Front of mt. to N.W. 1/4 cor. mark 80 lbs. iron in. 1/4
 - 80.14 Contact of S. 1/4 Sec. 24 lbs.
- St. of the cor. to Sec. 9, 9, 16 & 17
 Thence I run N. 89° 50' W. on
 a true line to Sec. 17
 with same in.
- 40.07 Set a granite stone 18x10x7 in.
 or in. in the ground for
 1/4 Sec. cor. marked 1/4 on
 N. face and raised a
 mound of stone alongside
 Pub. unfracticate
- 80.14 The Cor. to Sec. 9, 9, 17 and 18
 Surface mountainous
 Soil 4th rate
 Grass poor

J. S. R.

Meridian.

Chains

West on a random line between Sections 7 and 18.

Around N.E. and N. slopes of mountain

Variation 18°

East.

40.00

Set temporary 44' S.W. Cor.

79.40

Entered the N. Co. of the 57
37 links S. of the Cor. to Sec.
7, 12, 13 and 18 which was
recently established by me

Then I ran S. 89° 44' E. over a
true line bet. Secs. 7 and 18
with same on

37.40

Set a ~~marble~~ rock 12x10x6
in. S.W. in the ground for
44' S.W. marked 4 on
N. face, and raised a
inland of stone along side
Pit. in fact it is the

79.40

The Cor. to Secs. 7, 9, 17 & 18
Surface rough
Soil 4th and 3rd. sets
Grass fair

Township

13 S.

Range

20 E.

G. S. R.

Meridian.

Chains

North, between Sections 7 and 8.

Variation

13°

East.

4000

Ascend mt. to N.W. and S.E.

Top of mt. to N.W. and S.E.

A granite rock in place 8 X 6 X 3 ft.

Set on ground which I mark with a cross (+) at exact cor. point and 1/4 on N. side of cross and raised a mound of stone along side. Descend.

60.70

200 feet

Had 30 lbs. with to. to ascend

75.00

Top of mt. to N.W. and S.E. descend

80.00

Set a granite stone 20 x 10 x 10 in. 10 in. in the ground for lev. to Sec. 5, 6, 7, 8 marked with 5 notches on S. and E. edges and raised a mound of stone along side. Pit, impracticable. Surface mountainous. Soil Ind. rate. Grass Poor.

Township

13

BOOK

781

Range

28 E

58

G. S. R.

Meridian.

Chains

East, on a random line between Sections 5 and 8.

Variation 10°

East.

40.00

Set temporary "14 Sec. Cor.

70.14

Between N. & S. line 24

the cor. of the Sec. to
Secs. 4, 5, 7 and 8. Thence I
run N. 89° 50' W. on a true
line bet Sec. 5 and 8 with
same cor.

40.07

Set a granite stone 10x10x6 ins.
10 ins. in the ground for "14
Sec. Cor. marked by on
N. face, and raised a
mound of stone alongside
the monument.

70.14

The Cor. to Secs. 5, 6, 7 & 8
Surface rough
Soil 3rd. rate
Grass good

G. S. A. M.

Meridian.

Chains

West, on a random line between Sections 6 and 7.

Variation 10°

East.

Ground

15.00

Top of mt. ss. N.W. and W.

I decided

35.00

Foot of mt. brown wash 25 lbs wide
Co. S. 20° E. ascend ^{along} slope

40.00

Set temporary "4 Sec. Cor.

79.24

Intersect W. Co. of the top
22 lbs. S. of the floor to
Sec. 1, 6, 7 & 12 which
was recently established by me.
Thence I run S. $79^{\circ} 07' 16''$ on
a true line bet. Sec.

6 and 7 with same ca.

39.24

Set a small pile 2 x 4
10 x 8 x 7 ins. 7 ins. in the
ground for "4 Sec. Cor. marked
"4 out of the face and raised
a mound of stone alongside
Pile impracticable

79.24

The Cor. to Sec. 5, 6, 7 & 8
Surface mountainous
I set 24th rate
Goats Cor

Township

13 N.

Range

28 E.

Meridian.

Chains

North, on a random line between Sections 5 and 6.

Variation 18°

East.

- Ascend. Over mt. ridges extending E. from
the main range.
- 4000 Set temporary 1/4 Sec. cor on top
of ridge to E. of st. descend
- 5000 Walk 40 lbs. with cor. S. E.
Foot of ridge ascend
- 7000 Top of ridge to E. of st. descend
- 8020 Contour N. by ^{the top} 18 lbs.
N. of the cor. (to) Sec. 5, 6, 7 & 8
which was recently established by me
Thence I run S. 0° 8' N. on a
true line bet. Sec. 5 & 6. with
square cor.
- 4020 Set a ground stone 10x8x7 ins. 7 ins.
in the ground for 1/4 Sec.
Cor. marked "4" on N. face
and raised a mound of stone
along it. Cor. unpracticable
- 8020 On cor. to Sec. 5, 6, 7 and 8
Soil fair mountainous
Soil 2nd rate
good grass
Scattering pines

I carefully examined the
adjustments of my
Solar instrument of day
particularly the latitude
and reversing apparatus
and found them correct.

GENERAL DESCRIPTION.

The greater portion of this township is very mountainous. There is some good level land in the N.W. corner.

In the mountainous parts the soil is 2nd. or 4th rate.

There are in some parts a scattering growth of oak timber.

There is good grass nearly all over the township.

For final rates see Book No 4

List of Names.

A List of the Names of the individuals employed to assist in running, measuring, or making the lines and corners described in the foregoing Field Notes of

showing the respective capacities in which they acted.

Compassman.

Chainman.

Chainman.

Arxeman.

Final Oath of Assistants.

We hereby certify that we assisted
Deputy Surveyor, in surveying

and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the boundary monuments planted according to the instructions furnished by the Surveyor-General.

Subscribed and sworn to before me, this day of
187

U. S. Deputy Surveyor.

Final Oath of Deputy Surveyor.

I,
Deputy-Surveyor, do solemnly swear that, in pursuance
with a contract with
United States Surveyor-General for the Territory of Arizona,
bearing date the day of 18 I have
well, faithfully, and truly, in my own proper person, and
in strict conformity with the instructions furnished by the
Surveyor-General, the Surveying Manual, and the laws
of the United States, surveyed all those parts or portions of

as are represented in the foregoing Field Notes as having

U. S. Surveyor General's Office,

Tucson, Arizona, August 8, 1884

The foregoing Field Notes of the Survey of the

Subdivision lines of
Township 13 South
Range 23 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-
ted by R. C. Powers,

Deputy Surveyor, under his contract of the 23rd

day of August, 1884, having been

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

are hereby approved

Royal A. Johnson
Surveyor General.