

1661

1661

BOOK 1661

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

E X T E R I O R L I N E S O F

Ts. 17, 18, 19 & 20 N., R. 1
W., Ts. 19 & 20 N., R. 2 W.,
Ts. 20 N., R. 3 W., Ts. 21 N.,
Rs. 1, 2, 3, 4, & 5 W. Ts.
22 N., Rs. 1, 2, 3, 4 & 5 W., T.
23 N., Rs. 1, 2, & 3 W.

Gila and Salt River Base and
Meridian,

ARIZONA.

By J. T. Smith, D. S. under
contract dated July 24, 1883.
Survey commenced Sept. 8, 1883.
Survey completed Sept. 14, 1883.

1661

BOOK 1661		BOOK 1661		BOOK 1661	
1	12676	5	4	3	2
2	122587				121907
3	132658	D.23 N. R. 3 N.			1318918
4	2425419				2418719
5	252520				2578230
6	13267	5	4	3	2
7	123007				122367
8	1329818	D.22 N. R. 4 N.			1323418
9	2429619				2428319
10	252980				2575280
11	132816	5	4	3	2
12	122507				122157
13	1321218	D.21 N. R. 3 N.			1314018
14	2427719				2418919
15	2527350				2573730
16	3627331				3618631

661

BOOK 1661		BOOK 1661		BOOK 1661	
1	11184				1105
2	121167				12103
3	1311418	D.20 N. R. 3 N.			13101
4	2411219				2499
5	2511030				2597
6	12777				1240
7	137518	D.19 N. R. 3 N.			1339
8	247319				2437
9	257430				2535
10	361431				361431

BOOK 1661		BOOK 1661		BOOK 1661	
1	12777				1240
2	137518	D.19 N. R. 3 N.			1339
3	247319				2437
4	257430				2535
5	361431				361431
6	12777				1240
7	137518	D.19 N. R. 3 N.			1339
8	247319				2437
9	257430				2535
10	361431				361431
11	12777				1240
12	137518	D.18 N. R. 3 N.			1316
13	247319				2415
14	257430				2514
15	361431				3613

BOOK 1661

1661

BOOK 1661

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

Survey commenced
September 8th 1883

Survey completed
November 14th 1883

A. B. J. 17 N. R. 1 A.

Chauss

From the Cor. to
 Jps. 17^{and} 18 N. R.
 1 and 2 N. recently
 established by me
 I run C. on a
 random line with
 a variation 1008⁵¹E.

Setting temporary ¹¹⁴
 and Sec. lines at
 each 40 and 80 Chs.
 and at 416 Chs.

intend Meridian 86 Sks.
 N. of Cor. to Jps. 17
 and 18 N. R. 1 B. and
 1 N. which was recently
 established by me.

Then I run
 N. 89° 53' W. on a true
 line bet Secs.
 7 and 8 with same
 var.

Ch. A. S. 17 A. R. 1 A.

Chairs

5.00	Descend into cañon Bottom of cañon W.
	S and ascend
14.00	Descend to Verde river
21.00	Verde river 60 lbs wide to S.E.
24.80	Ascend bluff
28.00	to N.W. and S.E.
40.00	to granite rock
	18x14x8 ins. 12 ins. in the ground for "4 S.E. loc. marked "4 on N. face, from which a cedar 6 ins. in diam. fr. N. 50 E, 48 limbs dist. marked "4 S. B. S.
	A Cedar 10 ins. in diam. fr. S. 410 E, 50 limbs dist. marked "4 S. B. S. from this point the house of Thomas Miller is fr.

A. R. 217 N. R. 17 E.

Chairs

Trs. N. 40° E. about
20 chs. dist.

72.40

Road Trs. N. and S

74.00

Ravin to N and ascend

80.00

Granite rock 16x10x6 ins

11 ins. in the ground

for Cor. to Sec. 12. 25 508

marked with 1 notch

on E. and 5 notches

on N. edges. and

raised a mound

of stone along side

Pto unpracticable

From which a cedar

8 ins. in diam. Trs. N. 40° N.

85 links dist. marked

R. 18 N. R. 17 E. S. 25. B. J.

a cedar 14 ins. in diam.

Trs. S. 20° E. 84 links dist.

marked S. 17 N. R. 17 E. S. 1 B. J.

4
 1. B. S. 17 of 9. 17.

No other trees within limits
 Surface broken and
 undulating
 Soil red. calc.
 Scattering cedar
Ground fair

N. 89° 50' W. on a
 true line bet. Secs.
 2 and 95

Ca. 18° 55' E.

12.00 Top of mt. bet. N. & S.
 sand down

18.50 Ravine 70 links with cor. NE.

37.25 Ravine 60 links with cor. N.

40.00 Set a granite rock 16x10x7
 ins. 10 ins. in the
 ground for "4" Sec. cor.
 marked "4" on N. face
 from which a section

Ch. B. S. 17 Ch. R. H.

Chairs

- 12 ins. in diam. to
St. 28th E. 25 links dist.
marked "4 S. W. V."
- A cedar 8 ins. in diam
to. S. 14th St. 25 links
dist. marked "4 S. W. V."
- 57.45 Road and Ravine to
and around our
mt. ridge
- 61.65 Top of Ridge to
St. 1st S. and around
- 79.00 Road to. N.E. and W.
and into corn field
- 85.00 To a granite rock
17 x 12 x 8 ins. 12 ins. in
the ground for loc. to
Chas. S. B. 184 and 20
marked with 2 notches
on E. and 4 on W. side
and said a

N. O. S. 17 - R. 17

Chains

A stone elongated
 covered with earth
 from which an old
 tree 18 ins. in diam.
 No. S. 4007. 97 lbs
 dist. marked S. 17 N.
 R. 17. Sec. 3 B. 5.

Together with within
 surface mountainous
 soil 1st and 2nd. vol
 Scattering S. 17 N.

N. 59° 50' W. on a low hill
 lat. Sec. 3 and 14
 Va. 100° 55' E

Quar Verde near follow
 River 150 yards with
 deep water to N. and
 ascends steep mt.
 Top of mt. No. 17. and S

A. B. J. 17 A. R. H.

Chains

29.00 Same as the of same
 Discard 1 shuffler

35.00 Dry wash 15 links with
 Bl. S. H. and foot of
 nut to be used.

37.80 Dry wash, 20 links with
 Bl. S. H.

40.00 Set a limelime 13
 into 15 in. in the
 ground for 11 in. long
 marked "4 on N. face
 and raised a mound
 of stone along side.
 Pit impossible

47.00 Dry wash 15 links with
 Bl. S. H.

50.00 Dry wash 15 links with
 Bl. S. H.

80.00 Set a limelime 4
 18x10x8 ins. 12 ins in the

St. B. J. 17 St. R. St.

chain

ground for loc. to Secs. 2, 4,
 33 and 34 marked
 with 8 notches on E. of St.
 400 and raised a
 mound of stone
 along mt. Pitt
 impracticable
 Surface mountainous
 Soil red. mt
 Scattering cedar

N. 89° 08' St. on a thin
 thin soil. Secs. 4 and 33
 Ta. 13° 57' L.

200 Road to N.W. and St.

500 Top of mt. to N.W. and St.

ground cleared

400.00 Set a limestone 12x10x9

in 5 ins. in the ground
 for "4" Sec. loc. marked

C. B. J. 17 N. R. N.
Chairs

- | | |
|-------|--|
| | <p>4 on N. face
and raised a
mound of stone
along edge.</p> |
| 47.10 | <p>Site impracticable
Dry wash 80 yards
with 4 ft. deep to N.
Dip and abruptity into
cañon</p> |
| 65.00 | <p>Center of cañon and around</p> |
| 72.66 | <p>Top of bluff to S. & S
edge of lower cañon</p> |
| 8.00 | <p>Set a horizontal rock
12 x 12 x 5 ins. 8 ins. in
the ground for base
to Secs. 4, 5, 6 & 7 and 8
marked with 4 notes
on E. and 2 notes on
N. else and raised a
mound of stone along
Site impracticable</p> |

11
 N. B. 5. 17 N. R. H.

lais

Enter mountains
 July 2nd. sat
 Gathering Sells

N. 89° 53' E. on a hill
 hill top. Aug. 5th 35
 N. 10° 57' E.

21 Ravine lev. S.

30 Leave valley and ascend
 mesa

27⁰⁰ Top of mesa top. N. and S.
 25⁰⁰ Hit a malpais rock
 1.6 x 8 x 5 ins. in
 the ground for 1/4
 Sec Co. marked 14
 on N. face and
 raised a mound of
 soil alongside.

27⁰⁰ Cpt. impracticable

27⁰⁰ Hit a malpais rock

BOOM

1861

Dr. B. C. 7 N. R. 16

Chaus

12 x 5 x 5 ins. Pines in
 the ground for
 less to Sect. 5, 6, 7,
 and 82 marked with
 5 notches on E. and
 north on N. edges,
 and raised a mound
 of stone alongside.
 Pits unproductive
 Surface mountainous
 Soil 2nd. rate
 Good grass

Dr. 89° 58' N. on a low
 hill top. Sect. 6 and 8.
 1/2, 10° 57' E.

6.00

The loc. to Tps. 17 and
 18 N. R. 1 and 2 N.
 Surface level
 Soil 2nd. rate Fair grass

St. B. S. 17 N. R. 1 St.

114 on St. Jan. dug pits
 8x18x12 ins. E. & W. of
 stone 5 1/2 ft. dist. and
 raised a mound of
 earth 1 1/2 ft. high
 3 1/2 ft. from along side.

80.00 The Cor. to St. 17 & 18 St.
 No. 1 and 2 St.

Surface level
 Soil 2nd rate
 Good grass

* I carefully examined the
 adj. instruments of my solar
 transit to-day particularly
 its latitude and remaining
 apparatus and found
 them correct
 Sept. 8th 1883

N. B. Sp 1801 R. 1 N.

Chains

From the Cor. to Sp.
17 and 18 N. Rs. 1 and 2 N.
recently re-established by me.
I run

North on E. by Rec. 36
var. 13' 0-5-E.

Clear level country

4000

Set a Malpais stone 16 x 11 x 7 ins., 11 ins.
in the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ on N.
17. The other 18 x 12 x 12 ins. N. and S.
of stone 4 ft. dist. and raised a mound of earth
1 1/2 ft. high, 2 1/2 ft. base, alongside.

80.00

Set a Malpais stone 16 x 12 x 8 ins., 11 ins. in
the ground for 20 ^{25.30.31.36} marked
20.5 on N. 17. The other 18 x 12 x 12 ins. N. and S.
of stone 4 ft. dist. and raised a mound of earth 3 ft. high,
4 1/2 ft. base, alongside.

Surface level
Soils Ind. note
No timber
good grass

N. B. Sp. 18 N. E. 1/4

Chain

Now East. *By* of Sec. 20
 Va. 13° 55' E

Over level surface
 Enter scattering cedar

2.00
 45.00

Set a limestone stone, 15 x 12 x 8 ins., 12 ins.
 in the ground for 1/2 Sec, Cor, marked 1/2 on 7/4
 face; dug pits 18 x 18 x 12 in N. and S.
 of stone 5 1/2 ft. dist. and raised a mound of earth
 1 1/2 ft. high, 3 1/2 ft. base alongside

Leave scattering timber
 Road to N. E. 1/4 1/4

6
 63.50
 80.00

Set a post 4 ft. long 4 ins. square, with marked
 stone, 12 ins. in the ground for Cor, to Sec,

79.24; 228 + 30 marked T/8 N. S. 20 on
 N. E. R. 1/4. S 29 on S. E. R. 2 1/4 S. 25 on
 S, W, and S, ²⁴ on N, W, face with 2 notches
 on S, and 4 notches on N edge; dug
 pits 18 x 18 x 12 ins. in each Sec. 5 1/2 ft. dist.
 and raised a mound of earth 2 ft. high, 4 1/2 ft.
 base. around post.

Surface level soil 1st rate
 Good grain

H. B. J. 18 A. R. 1 No.

Chairs

N. on E. by section 24
Va. 13° 56' E

Over level country

4000

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

from which a
quartz 18 ins. in diam.
was N. 20 $\frac{1}{4}$. 192 links
dist. marked "H. B. J."
no other lines within limits

8000

Set a post 4 ft. long 4 ins. square, with marked
stone, 12 ins. in the ground for Cor, to Secs,
13, 17, 20 and 24 marked T. 18 N. S. 17 on
N. E. R. $1\frac{1}{4}$. S. 20 on S. E. R. 24 S. 24 on
S. W. and S. 13 on N. W. face, with 3 notch
on S. and 3 notch on N edge, dug
pits 18 x 18 x 12 ins. in each Sec., $5\frac{1}{4}$ ft. dist.
and raised a mound of earth 2 ft. high $4\frac{1}{4}$ ft.
base. around post.

Surface level

16
 N. W. Sp. 15 N. R. 17.
 Ohio

Soil 2nd rate
 Scattering cedar
 Good grass

N. 1/2 East. 29. of Sec 18
 Va. 13° 56' E.

Level ^{gravelly} rolling surface

40.00
 Set a post 3 ft. long 6 ins. diam with marked
 stone, 12 ins. in the ground for 1/4 Sec. Cor.
 marked 1/4 S. on N. face, dug pits 18 x 18 x 12
 ins. at east S. of post 34 ft. dist. and raised
 a mound of earth 2 1/2 ft. high, 3 1/2 ft. base around
 post.

8.00
 Road to Ash Fork, bears
 S. E. and S. W.

50.00
 Set a post 4 ft. long 4
 ins. sq. with marked
 stone 12 ins. in the ground
 for Cor. to Secs. 8, 12, 13
 and 17 marked S. 18 N.
 S. 8 on N.E. R. 17. S. 17

N. B. D. 18 N. R. 1 N.

Chairs

on S.E. R. 2 N. S. 13
on S.W. and S. 12 on
N. W. face with 4
notches on S. and 2
notches on N. edge,

from which a Juniper
34 ins. in diam. Ws.

S. 39° E, 34 links dist.
marked S. 18 N. R. 1 N.
S. 8 B. D.

A Juniper 9 ins. in diam.
Ws. S. 61° 30' E. 115 lbs. dist.
marked S. 18 N. R. 1 N.
S. 17 B. D.

A Juniper 11 ins. in diam.
Ws. S. 28° W. 87 links dist.
marked S. 18 N. R. 2 N.
S. 13 B. D.

A Juniper 12 ins. in diam.
Ws. S. 60 links dist.

N. B. C. 1801, R. H.

Chains

marked S. 154, B. 5.
 Surface rolling
 Soil 2nd. rate
 Dune juniper timber
 Good grass

North on E. By. of Sec. 12
 Ch. 13056 E.

Very gently rolling surface

40.00

Set a post 3 ft long
 3 ins. sq. ^{24 in. in the ground} ~~with~~ ^{the ground}
~~12 ins. in the ground~~
 for 1/4 sec. from marked
 1/4 S. on T. face.

from which a juniper
 8 ins. in diam. brs. N. 31° E.
 14 lbs. dist. marked
 1/4 S. B. T.

a juniper 17 ins. in diam.
 brs. N. 22° E. 35 lbs. dist.

N. B. J. 18 N. R. 17.

Chairs

marked "4 S. B. J.
 68.00 Enter snake box E.
 80.00 Leave snake and

Set a post 4 ft. long 4 ins. square, with marked
 stone, 12 ins. in the ground for Cor. to Sec.,
 15.8.12 marked, T 18 N. 5 on
 N. E. R. 17, S. 8 on SE. R 2 N. 5, 12
 S, W, and S, 1' on N, W, for 5' on S
 22 on S, and 1' notch on N
 pits 18 x 18 x 12 ins. in each Sec. 34 ft. dist.
 and raised a mound of earth 2 ft. high 4 ft.
 base. around post.

from which a
 Juniper tree 28 ins. in diam.
 No. 1. 850 E, 69 lbs. dry.
 marked S. 18 N. R. 17.
 S. 5 B. J.

A Juniper 18 ins. in diam.
 No. 1. S. 140 E, 49 lbs. dry.
 marked S. 18 N. R. 17
 S. 8 B. J.

A Juniper 12 ins. in diam.

N. O. S. 150 N. Q. 1 N.

Series

hrs. N. 78° W. 162 lbs dist.
marked - S. 150 N. Q. 2 N.
S. 1 B. J.

No other trees within limits
Surface rolling
Soil sand rate

Good grass in places
Duned Juniper timber

N. on E. Edge of Sec. 1
No. 10056 E.

Over lully surface

40.00

Set a granite stone
12x10x8 ins. 8 ins. in the
ground for "4 Sec. 10.
marked "4 on N. face
and from which a
Juniper 8 ins. in diam.
hrs. N. 22° W. 50 lbs.
dist. marked "4 S. B. J.

H. B. J. 18 N. E. 1 W.

Chains

- 76.00 a Quimper 14 ins. in diam.
br. S. 48° E. 86 lbs. dirt.
marked "4 S. B. 5"
- 80.00 Cross wash 50 lbs. inside
br. S. E.
- 80.00 Set a sand stone 22x22x8
ins. 8 ins. in the ground
for br. to br. 185 19 N.
Co. land 2 W. marked
with 6 notches on
each edge. from which
a Quimper 12 ins. in
diam. br. N. 46° E. 58
lbs. dirt. marked
S. 19 N. E. 1 W. S. 32 B. 5.
- a Quimper 18 ins. in diam.
br. S. 40° E. 89 lbs.
dirt. marked S. 18 N.
E. 1 W. S. 5 B. 5.
- a Quimper 11 ins. in

N. O. S. 18 A. R. 1 N.

Shains

diag. br. S. 410 N. 58
 lks. drift marked
 S. 18 A. R. 2 N. S. 1 B. S.
 a juniper 11 ins. in diam.
 br. 14870 N. 23 lks. drift
 marked S. 19 A. R. 2 N.
 S. 36 B. S.
 Surface hilly
 Soil 3rd. rate
 Good juniper timber
 Some grass

St. B. S. 15 St. R. 17.

hairs

From the Sec. to
 Sps. 15 and 19 St. R. 15,
 1 and 2 St. just
 established by me
 & run East on
 a plain down line
 bet. Sp. 15 and 19 St. R. 17.
 with a variation of
 $18^{\circ}56'E$. setting temporary
 14 and Sec. Sec. at
 each 40 and 80 chs. and
 at 80-4 chs. intersect
 Principal Meridian
 19 Chs. St. of the Sec.
 to Sps. 15 and 19 St. R. 15
 and 1 St. which were
 recently established
 by me. True & run
 bet. $86^{\circ}56'N$. on a true
 line bet. Sec. 15 and

Dr. P. C. H. of P. H.

1850

Jan. 1850

Over Prairie country

29.10 Dry land 120 bucks Vindh
Pls. S.E.

4.00 Set a walrus rock 10x5
ins. 11 ins. in the
ground for 1/4 ch. test.
marked 4 on N face
and raised a
mound of stone alongside
Pit. Unpracticable

5.00 Set a walrus rock
12x10x5 ins. 8 ins. in the
ground for test to eyes.
No. 2. 35. lands marked
with 1 notch on E. and
5 notches on N. edges.
and raised a mound
of stone along side.
Pit. unpracticable

St. B. V. 15 N. E. 1/4

Chavis

From which a
cedar 4 ins in diam.
No. S. 46° E. 85 links dist.
marked T. 15 N. E. 1/4

S. 1 B. V.

a cedar 10 ins. in diam.
No. S. 20° E. 114 links
dist. marked in 15 N.

E. 1/4 S. 20° E.

No other trees within limits
Surface rolling
Soil red. v. r. t.
scattering cedar
good grass

N. 88° 56' 1/2 on a true
line bet. Sec. 2 and 20
Var. 10055'

4000 Set a maffis rock
18x12x0 ins. 12 ins in

Ch. 2. 15. 1. 9. 11.

the ground for 1/2 Sec.
 Cor. marked "4. n"
 E face, and raised
 a mound of soil
 alongside.

Pit. unfractured

0.00 84

Set a Malpais rock
 16 x 11 x 5 in. in
 the ground for Cor.
 to Sec. 2. E. 34 and 36
 marked with 2 notches
 on E and 4 notches on
 N. sides, and raised

a mound of soil
 alongside. Pit. unfractured

Surface rolling
 soil sub. red

good grass

Scrub cedar

J

J. B. J. 15 N. R. 16.
Chains

at 56° 56' N. on a true
line set out. 3 and on
N. 100° 5' E.

Over level surface

4000

Set a malpais rock
10 x 10 x 6 ins. 7 ins. in
the ground for "4
Set Cor. marked
"4 on N. face and

raised a mound
of stone. ^{Pits unpracticable} ~~at~~ ^{at} ~~the~~ ^{the} ~~base~~ ^{base} ~~of~~ ^{of} ~~the~~ ^{the} ~~mound~~ ^{mound}

4800
5250

Follow ^{into} ~~into~~ ^{Stalls} ~~Stalls~~ ^{gouge} ~~gouge~~
leave ^{of} ~~of~~ ^{canyon} ~~canyon ^{to} ~~to~~ ^E ~~E~~ ^{of} ~~of~~ ^{the} ~~the ^{level} ~~level~~~~~~

5000

Set a malpais rock
11 x 5 x 6 ins. 8 ins. in the
ground for Cor. to

Set 2, 4, 2, 3 and 2, 4
marked with Quotches
on E. and N. edges
and raised a mound
of stone alongside.

D. C. C. 1801. 9. 11.

Pit ^{is} unfractured
Surface level
of Sub. rat -

Good grain
Scattering ^{scattered} ledges
some elsewhere 27 1/2 lbs.

186' 5 1/2 ft. on a true
line bet. Secs. 4 and 23
29. 18° 58' E.

Set a maffin rock 12x10x6
ins. thin in the ground
for "4 Sec. line marked
"4 on N. face and raised
a mound of stone alongside.
Pit unfractured

Set a maffin rock and Prescott
Road to. West of St.

Set a maffin rock
12x8x6 in. thin in the
ground for Sec. to

St. R. S. 18 1/2. C. 17.

Chains

Aug. 4. 5. 82 and 83
 marked with 4 notches
 on E. and 2 notches on
 N. edges. and raised
 a mound of stone
 along with. P. S. impracticable
 surface rolling and mountainous
 Soil 3rd. rate
 Dense cedar brush

N. 86° 56' W. on a
 true line bet. Aug. 5 and 82

Pa. 10055 E.

The line to Sp. 18 and 19 N.
 R. S. 1 and 2 N.

Surface rough and rolling
 Soil 3rd. rate

Dense scrubby juniper
 and cedar

grass good

O. B. J. 18 d. R. H.

I carefully examined
the adjustment
of my Solar Transit
to day particularly
the latitude and
reversing apparatus
and found them
correct.

September 10th 1880.

H. B. S. 19 A. R. 1 H.

Charris

From the Cor. to Sps. 8 and
19 A. R. S. 1 and 2 H.
recently established by me
I read
North on E. by of Sec. 36
Va 18059'E

Very hilly surface

40.00

Set a post 3 ft. long
3 in. sq. with marked
stone 12 ins. ^{2.4} in the
ground for "4 Sec. Cor.
marked "4 on N. face
from which a jumper
13 ins. in chain hrs.
A. 120 E. 38 lbs. dist.
marked "4 S. B. S.
A jumper 12 ins. in
chain hrs. A. 100 N. 22
lbs. dist. marked
"4 S. B. S.

H. B. S. 19 N. R. 1 N.

Chains

8.50

Set a limestone $17 \times 12 \times 9$
 ins. 12 ins. in the ground
 for Cor. to Sec. 25. 29. 32
 and 36 marked with 1
 notch on S. and 5 notches
 on N. edges. from which
 a Juniper 94 ins. in diam.
 frs. N. 84° E. 23 links dist.
 marked T. 19 N. R. 1 N. S. 29
 B. J.

a Juniper 9 ins. in diam. frs.
 S. 70° E. 33 links dist.
 marked T. 19 N. R. 1 N.
 S. 30 B. J.

a Juniper 7 ins. in diam.
 frs. S. 140 N. 43 lks dist.
 marked T. 19 N. R. 2 N.
 S. 34 B. J.

a Juniper 10 ins. in diam.
 frs. N. 47° N. 32 lks. dist.

N. B. J. 19 N. R. 1 N.

Chavis

marked J. 19 N. R. 2 N.
S. 25 B. J.

Spur in belly

Soil 2nd. State

Dense Juniper timber

Good grain

N. on E. of Sec. 25.

Ta. 13059.8

16.10 Juniper 8 ins. in diam. on line

40.00 Set a candle stone 12 x 8 x 8 ins.

8 ins. in the ground for

14 Sec. Cor. marked 114 on

N. face and from which

a Juniper 24 ins. in diam.

ht. N. 7206, 53 lbs, dist.

marked 114 S. B. J.

a Juniper 10 ins. in diam.

ht. N. 1107. 63 lbs dist.

marked 114 S. B. J.

H. B. J. 19 U. R. 1 H.

Chairs

- 57.10 Discard into small canyon to E.
- 57.45 Same same to E.
- 70.00 Cross deep wash 20 miles wide to E.
- 80.00 Set a sandstone 14x12x8 ins. 9 ins. in the ground for Cen. to Sus. 2024, 29 June 29, marked with 2 notches on E. and 4 notches on N. edge. and raised a mound of stone alongside from which a juniper 10 ins. in diam. ht. 54° E. 39 links dist. marked J. 19 N. R. 1 H. S. 29 B. J. a juniper 14 ins. in diam. ht. 54° N. 34 links dist. marked J. 19 N. R. 2 H. S. 24 B. J.

H. Q. V. 19 A. R. 7 H.

Chains

N. of the trees within limits
 Surface belly
 Soil Brd. red
 Dense Juniper timber
 and brush
 Fair grass

N. on E. Q. of Sec. 24
 T. 130 S. 8 E

Very fully covered

40.00

Set a limb 15x10x5
 ins. 10 ins. in the ground
 for "4 Sec. box marked
 "14 on N. face.

from which a Juniper 14
 ins. in diam. tol of 39° E

46 lbs dirt, marked
 114 S. Q. V.

A Juniper 8 ins. in diam.
 tol of S. 15° E, 48 limbs

W. A. C. 1904 R. 17.

Chains

8000

dit - marked W. A. C.
 Set a malpais stony 15x12x10
 ins 10 ins in the ground
 for loc. to Sec. 13 17. 20
 and 24 marked with
 notches on N. & S. edge
 from which a Juniper
 10 ins. in diam. frs. N. 41° E.
 71 lbs. dit. marked J. 19 N.
 R. 17. E. 17 B. J.

A Juniper 6 ins. in diam. frs.
 N. 48° E. 99 lbs. dit.
 marked J. 19 N. R. 17.
 S. 20 B. J.

A Juniper 5 ins. in diam.
 frs. S. 81° W. 22 lbs. dit.
 marked J. 19 N. R. 27.
 S. 24 B. J.

A Juniper 12 ins. in diam.
 frs. N. 60° W. 24 lbs. dit.

N. O. J. 1904. R. 2 N.
Lavis

marked J. 19 N. R. 2 N.
S. 3 0 0.

Surface fully
cut 4th rate stone
Dense juniper timber
Some grass

step

at on E. Ry of Sec 18
of Tn. 13 25 E.

14.00 D road along N. Bank
of cañon

82.05 -
40.00 * Dry wash 16 mts wide
do. E

75.55 a Pine tree 32 ins. in diam.
on line in center of
cañon do. S. E.

70.00 Set a malpais stone 12 x 10
the ground for Cor. to Sec 8 12. 13 01 7
with 4 notch on S and 2 notch on N
dug pits 18 x 18 x 12 ins.

high

N. B. J. 19 N. R. 1 N.

Chain

4 1/2 ft. base, alongside.

from which an oak
6 in. in diam. was
N. 160 E. 29 lbs. dist.
marked N. 19 N. R. 1 N.
S. 8 B. J.

Another tree within limits
In canon to S. E.

Surface rough
Soil 4th valley

Dense juniper timber
and brush.

Scattering pines

N. 40 E. by 7 Sec. 12

N. 130 28 E.

2.00 Along E. Bank

24.00 Middle of same canon to.

S. 20. Sand ground

9.00 Top of high bank to N. E. and S. W.

4000 *

Set a sand trap ^{39A} 24x12x4 ins.
18 ins. in the ground for 114 Sec.
box marked 114 at the face
from which a quimper 11
ins in diam. br. S. 71° E.
38 lbs dit. marked
114 S. O. J.

a quimper 26 ins. in diam.
br. N. 42° W. 58 lbs
dit. marked 114 S. O. J.

At. G. J. 19 N. R. 1 H.

Chairs

- 40.00 Set a Malpais ^{rock} 14 x 10 x 8 ins.
 9 ins. in the ground
 for 1/4 sec. to. marked
 1/4 on N. face. from
 which a Juniper 7
 ins. in diam. to E. 20
 lbs. dist. marked 1/4
 S. B. J.
- A Juniper 14 ins. in diam.
 to E. 28° E. 60 lbs. dist.
 marked 1/4 S. B. J.
- 68.00 Descend into ^{pass} cañon to SE.
- 75.12 Middle of cañon " "
- and ascend
- 78.15 Top of bank to N. W. & SE.
 leave cañon.
- 80.00 Set a malpais rock
 10 x 10 x 6 ins. 7 ins. in
 the ground for 60.
 to Cas. 1.5 8 12

N. B. J. 19 N. R. 1 W.

Chairs

marked with 5 notches
on N. and 1 notch
on N. edge.

from which a Quimper
12 ins. in diam. to N. 80 E.
69 lbs. dist. marked

J. 19 N. R. 1 W. S. 5 B. J.

a Quimper 16 ins. in diam.

to S. 700 E. 95 lbs. dist.
marked J. 19 N. R. 1 W.

S. 8. B. J.

a Quimper 10 ins. in diam.

to N. 190 W. 64 lbs. dist.
marked J. 19 N. R. 2 W.

S. 12 B. J.

a Quimper 8 ins. in diam.

to N. 140 W. 70 lbs. dist.
marked J. 19 N. R. 2 W.

S. 1 B. J.

Surface rough

N. B. S. 19 A. R. 1 N.

Chains

Soil 4th state stony
Dune Juniper timber

St. over. Exp. of Sec. 1:
Ta. 17° 28' E.

Very rough country
4000
Set a Malpais rock
14x8x6 ins / 9 ins. in
the ground for 114
S.W. Cor. marked
114 on N. face. From
which a juniper tree
11 ins. in diam. trsg.
E. 11' the dist. marked
114 S.B.S.

A juniper 10 ins. in diam.
trsg. E. 86° N. 55' the
dist. marked 114 S.
B.S.

N. P. J. 19 N. R. 1 W.
Chains

8000

Set a malpais rock 16x10x8 ins.
11 ins. in the ground for ^{Per to 7/8} 19 and 20 N. R. 1 and 2 W.
marked with crochets on each edge
from which a juniper 25 ins.
in diam. frs. N. 420 E. 35 lbs.
dist. marked S. 20 N. R. 1 W.

S. 32 N. J. a juniper 9 ins. in
diam. frs. S. 186 E. 36 lbs. dist.
marked S. 19 N. R. 1 W. S. 5

N. P. J. a juniper 8 ins. in diam.
frs. S. 70 W. 161 lbs. dist.
marked S. 19 N. R. 2 W. S. 100

a juniper 14 ins. in diam. frs.
S. 240 W. 44 lbs. dist.
marked S. 20 N. R. 2 W.
S. 38 N. J.

Surface rough

Soil 4 rats stony

Dense juniper timber

N. B. S. 19 & R. 1 H.

Chain

From the Cor. to Sps 19
 and 20 N. B. S. and 2
 H. just established I
 run East on a random
 line bet. Sps 19 & 20 N.
 R. 1 H. with a 35°
 variation of $130^\circ 30' E.$
 setting temporary 114
 and sub. legs. at
 each 40 and 80 chs. and
 at 352.75 Chs. sub. bet.
 Principal meridian
 19 Chs. N. of the Cor.
 to Sps. 19 and 20 N. B. S.
 1 E. & 1 H. recently re-established
 by me. Then I run
 N. $86^\circ 55' H.$ on a true
 line bet. Sps. 1 & 36
 Var. $130^\circ 56' E.$

David

A. B. J. 19 A. R. St.

Chains

- 7.00 Top of bluff to A. R. St.
 Sayed of descent into canyon
- 19.00 Bottom of canyon to S.
 and ascend
- 26.00 Leave canyon to S.
- 32.00 Descent into another canyon
- 40.00 Set a sandstone $18 \times 12 \times 10$
 ins. 12 in in the ground
 for "4" cor. Cor. marked
 "4" on it. Saw and
 raised a mound
 of stone alongside
 Put in a vertical hole
- 40.90 Bottom of canyon to S.
- 47.00 Leave canyon to S.
- 55.00 Set a malpais rock
 $16 \times 12 \times 7$ ins. 11 in in
 the ground for cor.
 to legs. 1, 2, 30 and 36
 marked with 6 white

N. E. C. 1904. R. 17.

Chairs

on N. end + notch
on E. edges, and
raised a mound
of stone alongside
Pit's unpracticable
surface broken and rocky
Soil 4th rate
Dune better bush
Poor grass.

N. 86° 55' W. on a true
line det. Dec. 2nd 05

4900 ^{Var. 18° 55' E}
Set a malpais rock
16 x 2 x 8 ins. 11 ins. in
the ground for 4
feet. marked
4 on N. face, and
raised a mound of
stone alongside.

U. S. G. O. 1904, A. 106.

Chains

- Pit impracticable
 from which a cedar
 4 ins. in diam. tree
 21.55 ft. 14 links dist.
 marked 44 S. G. O.
 No other trees within limits
- 7.40. Descend into cañon
- 7.74 Bottom of cañon E. S.
 ascend
- 65.00 Leave cañon E. S.
- 5.00 Set a masonry rock
 19 x 13 x 5 ins. 12 ins.
 in the ground for
 Cor. to P. 2, 3. 8 and 00
 marked with 2 notches
 on E. and 4 notches
 on N. side. and
 raised a mound of
 stone alongside.
 Pit impracticable

St. R. J. 500' R. 17
 Chain

From which a cedar
 8 ins. in diam. trs.
 N. 47° E. 32 links dist.
 marked J. 20 N. R. 17.
 S. 35-3.5.

a cedar 7 ins. in diam. trs. S. 50° E.
 54 links dist. marked
 J. 19 N. R. 17. S. 2 B. J.

a cedar 8 ins. in diam. trs.
 N. 40° W. 38 links. dist.
 marked J. 20 N. R. 17.
 S. 34-3.5.

No other trees within limits
 surface rolling

Soil 4th track

Dense scrubby cedar
 Poor ground

N. 86° 55' W. on a true
 line bet. cur. 2 and 3 f

St. B. S. 1919. P. 1. N.

Jan 12 1908 C.

20.26
4.70

Dry wash 21 links with loc.
Set a maffin rock
16 x 10 x 5 ins. 11 ins. in the
ground for 14 Sec. loc.
marked 44 on E. face
and raised a
mound of stone alongside
Pits imperatible

5.10

Set a maffin rock
14 x 8 x 5 ins. 9 ins. in the
ground for loc. to Sec.
34.33 and 2 of marked
with Guts on E. & N.
edges and raised a
mound of stone alongside
Pits imperatible
From which a cedar
4 ins. in diam. tree 4.400
143 links dist. marked

Chain

C

J. 19 N. A. 17. S. 3 B. 5.

A cedar chain in chain. 48.

S. 207. 132 links link

marked J. 19 N. R. 17.

S. 3 B. 5.

No. the trees within limits

Surface rolling

soft soil. not

Dune scrubby cedar

Grass fair

X N. 56° 55' W. on a thin
line lat. Sec. 4 and 33

20 13° 55' E

40.00. Set a "oilfield" rock

26 x 20 x 12 ins. 19 ins.

in the ground for.

"4 feet. Cor. marked

"4 on N. face.

from which a

Chains

Cedar 10 ins. in diam. pos.
S. 440 E, 25 links dist.
marked 114 S. B. T.

a cedar 14 ins. in diam.
pos. - N. 480 W. 52 links dist.
marked 114 S. B. T.

56.57

Day work 10 links with W. H.

60.20

Stage road from Present
to Oak Fork pos. N. 470 E.

5000

Set a malpais rock
20x19x10 ins. 15 ins. in
the ground for Cor.
to Secs. 34.5. 32 and 33
marked with 4 rocks
on E. and 2 rocks on W.
edges well rounded a
border of stone alongside.
Dirt impracticable
Surface rolling
Soil 4th rate
Down cedar brush

St. B. S. 19th R. 17th

Shimo

St. 56° 58' N. over true line
bet. Secs. 5 and 32

32.75 The cor. to ^{2a. 10' 05" E} Secs. 19 and 20
St. Ranges. 1 and 2 N.

Surface rolling
Soil 4" sub
Dune cedar brush
No grass

I carefully examined the
adjudgments of my
Solar transit to-day
particularly the latitude
and reversing angles
and found them
correct.

September 11th 1853.

J. B. McLaughlin
Companion



B. T. & A. R. H.

ius

J. B. Laughlin
Comptroller

24
25
26

S. B. S. 1901. R. 2 H.

Chains From the Cor. to Tps. 18 and
19 St. Co. and 2 H.
recently established by me.
I run W. on a random line
with a variation of $13056^{\circ}E$.
setting temporary 1/4. Dayd
Sec. lines at each.

40 and 80 chs. and at
458. Chs. arrive at a

point 256 chs. N. of the Cor.
to Tps. 18 and 19 St. Co. 2 and
3 H. which is a

limestone exposure properly
marked and spotted
with a mound of
stone alongside.

Then I run $89^{\circ}42'E$ on
a true line bet. Secs. 6
and 31 with same ca.
Set a line down $10 \times 10 \times 8$ in

48.000

S. B. S. 19 N. E. & W.

Churnis

7 ins. in the ground for
 1/4 Sec. E. W. marked
 1/4 on N. face, and
 raised a mound of
 stone alongside.

Rip unfracturable

76.50

Dry wash, 5 links wide

Sec. S.

88.50

Set a limestone 18 1/2 x 5 ins.
 12 ins. in the ground for
 Sec. to Sec. 5, 6, 3 and 32
 marked with 1 notch on W.
 and 5 notches on E. edge
 and raised a mound
 of stone alongside.

Rip unfracturable

Surface rolling

Soil 2nd rate

Scattering cedar brush

Good grass

S. A. S. 1901. R. 27.

Chains

S. 89042' E. on a true
line bet. Secs. 5 & 32

Va. 12056' E.

ascend gradually across valley
4000 ^{alt.} Limestone 18x8x5 ins. 12
ins. in the ground for.

"4 Sec. bet. marked

"4 on N. face; and

raised a mound
of stone alongside
of it impracticable6000 Leave valley and ascend
at N. slope8000 Set a sandstone 18x8x4
ins. 12 ins. in the ground
for bet. to Secs. 4, 5, 32 and
33 marked with 2 notches
on N. and 4 notches on E.
edges; and raised a
mound of stone alongside

S. O. C. 1901. R. 27.

Chains

Pike impracticable
 Surface rolling, mountainous
 Soil ext. rpte
 Dense cedar brush

N 89° 42' E. on a true line
 ht. Secs. 4 and 33
 Va. 13° 56' E.

around

2300

Top of divide frs. 10 & 1
 land descend

4000

Set a sandstone 18x16x5
 ins. 12 ins. in the ground
 frs. 114 Sec. 10. I marked
 114 on st. face and
 raised a mound of
 stone alongside. Pike
 impracticable. Cross with
 a cedar tree 12 ins. in diam.
 ht. S. 42° W. 70 fms. dist.
 marked 114 S. 10.

S. P. J. 19 A. R. 2 N.

Chairs

No other trees within
limits

59.54 Dry wash 12 lbs wide to
S. E.

68.00 Dry wash 10 lbs. wide to, S. E.

77.90 Dry wash 4 Ch. wide
to S. E.

80.00 Set a limelime 18 x 12 x 8
ins 12 ins. in the ground
for Cor. to Secs. 8, 4, 23 &
34 marked with 3
notches on S, & N.

edges and raised a
subound of stone along side
R.R. impracticable
from which a cedar
12 ins. in diam. brs.
at 40° N. 6 lbs dist.
marked, S. 19 A. R. 2 N.
S. 23 B. 5.

S. B. J. 1901. R. 27.
 Cairns

No other trees within limits
 Surface mountainous
 Soil cont. rate
 Paper oak brush and
 Cedar brush
 Some grass

N 89° 42' E. on a true line
 Int. Secs. 3 and 34
 Va. 13° 56' E.

Ground.

40.00

Set a limestone 20 x 12 x 6
 ins. 15 ins. in the ground
 for 14 in. cor. marked
 "4 on N face and raised
 a mound of stone alongside
 pit unpermeable

72.00

Leave oak brush enter. dense timber

180.00

Set a post 4 ft. long 4
 ins. sq. with marked

S. B. J. 19 N. R. 2 H.
Chairs

Stone ²⁴ 72 ins. in the
ground for loc. to S. 25,
2. 2. 24 and 25 marked
S. 19 N. R. 2 H. S. 35 on
N. E. R. 2 H. S. 2 on S. E.
S. 2 H. S. 3 on N. E. and S. 25 on
S. 24 on N. E. faces
with 4 notches on N.
and 2 notches on E.
edges: from which a
cedar 8 ins. in dia.
at 400 E. 18 lbs. dist.
marked S. 19 N. R. 2 H.
S. 35 B. J.

A cedar 5 ins. in diam. dia.
S. 610 E. 55 lbs. dist.
marked S. 18 N. R. 2 H.
S. 2 B. J.

A cedar 18 ins. in diam.
dia. S. 480 H. 104 lbs.

S. 30. 19. 1. R. 2 N.

Chain

dist. marked Sp. 18 N.
 R. 2 N. S. 30 B. 5.
 a cedar 6 ins. in diam. 85.
 N. 360 N. 17 N. dist. x
 marked T. 19 N. R. 2 N.
 S. 34 B. 5.

Surface mountainous
 Soil 2nd rate
 Dune oak brush
 Scattering Cedar
 Some grass

N. 89° 42' E. on a true
 line bet. Sec. 2 and 35
 Va. 13058 E.

Quadrangle
 4000 Set a post off long
 3 ins. sq. with marked
 three ⁹⁴ ins. in the ground
 for "4 Sec. Co. marked

S. O. O. 19 A. R. 2 H.

Chain

^S
114 ~~114~~ ft. N. face, from
which a cedar 1/2 ins.
in diam. frs. N. 60° E,
73 lbs. dist. marked
114 S. O. O.

A cedar 10 ins. in diam. frs.
S. 50° E, 480 lbs. dist.
marked 114 S. O. O.

8000

Set a lunstone 16x10x10
ins. 11 ins. in the ground
for box to sub. 1, 2, 30 506
marked with 5 notches
on N. and 1 notch on
E. edges, and raised a
mound of stone alongside
D. 1/2
From which a cedar 5 ins.
in diam. frs. N. 40° E
57 lbs. dist. marked
S. 19 A. R. 2 H. S. O. O. 6 Q. O.

S. B. J. 1901. R. 2 H.

Chain

a *Pithecolobium* in diam.
 for. S. 30 N. 40 lbs. but
 marked S. 15 N. R. 2 H.
 S. 2 B. J.

No other trees within limits
 Surface mountainous
 ascends to the west.

Soil 2nd rate

Dwarf cedar & juniper
 Timber

good grass

N 89° 42' E. on a true
 line bet. Secs. 1 and 36
 Va. 13° 56' E.

4000 Set a line bet. 18x6x6 ins.
 12 ins. in the ground
 for 44 Sec. low marked
 114 on N. Jan and
 named a mound of

S. B. S. 19 N. R. 27.

Chains

- Stone alongside
Pit impracticable
From which a Cedar
tree 10 ins. in diam. frs.
at 100 ft. 48 lbs. dist.
marked by S. B. S.
No other trees within limits
- 52.00 Top of bluff 80 ft. high
frs. S. of S. S. and
- 57.00 Dry wash 70 lbs wide.
top N. E.
- 61.50 Dry wash 60 lbs wide
top S. E.
- 72.00 Dry wash 60 lbs wide
top N. E.
- 77.10 Dry wash 140 lbs wide
top S. E.
- 80.00 The line to top 18 and
19 N. R. S. and 27.

S. O. J. 1911. R. 27

Surface mountainous
Dried ^{to} state
Dune cedar forest

N. B. S. 19 St. R. 27.

Chains

From the Cor. to Tps. 8^{and}
19 St. R. 2 and 3 St.
recently described to me
I run North 1/2
Secs. 31 and 36
Var. 130° 56' E.

Acend

4.70 Dry wash 15 lbs wide
66 S. St.

40.00 Set a limestone 18x12x6
ins. 12 ins. in the
ground for "4" Sec.
Cor. marked "4" on
N. face and raised
a mound of stone
along side.

81.00 ^{Chk. impracticable}
Set a limestone 18x12x6
ins. 12 ins. in the
ground for Cor. to

N. B. 5. 19 N. R. 2 N.

Chavis

Secs. 25, 30, 31 and 36
 marked with 1 notch
 on S. and 5 notches on
 N. edges and rapid a
 mound of stone slougaid
 this impracticable
 from within a pine
 ring in days. 18
 S. 30° E. 18 lbs. dist.
 marked T. 19 N. R. 2 N.
 S. 31 B. 5.

No other trees within limits -
 Surface mountainous
 Soil 4 rate -
 Scattering Juniper and Pinon
 trees
 Some grass

North Mt. Secs. 25 & 30
 Var. 130° 56' E.

N. B. J. 79 St. R. 27.

Chains

- 7.00 Ascending through dense brush
Dry wash 18 links
wide Co. S. 7.
- 15.00 Top of bluff of rock
frs. E. S. 7. 1/2 and continue
to ascend
- 34.00 Top of mt. frs. E. S. 7.
Stems along E. slope
of mt.
- 40.00 Put a limestone 18 x 12 x 8
ins. 12 ins. in the
ground for "4 Sec. 5 or
marked "4 on N. face
and raised a
mound of stone alongside.
Pit's unfractured
from which a piece
10 ins. in diam. frs.
S. 34° E. 24 lbs. dist. mark-
ed "4 S. B. 5.

N. B. T. 1901, R. 2 St.

Drains

64.00

At the trees within limits
Dry wash 18 links with
C. & E.

79.50

A small pit on line

81.00

Set a limestone 18x14

x4 ins. 12 ins. in the
ground for Cor. to

Secs. 19, 24, 25 & 30, marked
with 2 notches on S. and
4 notches on N. edges,
and raised a mound
of stone alongside.
Pit's unproductive.

from which a portion
8 ins. in diam. frs. N. 76° E.
69 lbs. dirt, marked
S. 19 N. R. 2 E. S. 19 B. T.
A jumper 8 ins. in diam. frs.
N. 31° W. 85 lbs dirt,
marked S. 19 N. R. 3 St.

H. B. J. 19 Oct. R. 2 H.
Chains

S. 25 B. J.

a pinon 7 ins. in diam.
fr. ct. 78° N. 64 lbs. dist-
marked S. 19 N. R. 3 H.
S. 24 B. J.

No other trees within limits
Soil 4" rate
Dense juniper & Pinon

North Mt. Sec. 19 and 24
Va. 12056 E

Along E. slope of mt.

4000 Set a limestone 18x12x5
ins. 12 ins. in the ground
for 114 Sec. Cor. marked
114 on N. face.
from which a Pinon
7 ins. in diam. fr. N. 84° E.
28 lbs. dist. marked

H. B. J. 19 A. R. 2 N.

chain

114 S. B. J.

a juniper 8 ins. in diam.
 to S. 189° W. 16 lbs. dist.
 marked 114 S. B. J.

47.70

Dry wash 16 lbs wide to,
 S. 80° E.

80.00

Set a timber 18 x 8 x 6
 ins 12 ins. in the ground
 for Cor. to Secs. 13, 18, 19
 and 24 marked with
 3 notches on S. and N.
 edges. from which a
 Juniper 12 ins. in diam to
 S. 45° E. 18 lbs. dist; marked
 S. 19 N. R. 2 N. S. 18 B. J.
 a Juniper 10 ins. in diam.
 to S. 30° E. 30 lbs. dist;
 marked S. 19 N. R. 2 N
 S. 19 B. J.
 a Juniper 8 ins. in diam.

H. B. J. 19 Oct. R. 3 N.

Chairs

Frs. S. 78° N. 23 lbs dist.
marked J, 19 N. R. 3
H. S. 24 B. J.

a juniper 5 ins. in diam.
frs. N. 150° N. 34 lbs, dist.
marked J, 12 N. R. 3 N.
S. 63 B. J.

Surface mountainous
Soil 4th rate
Dense Pine and
Juniper timber, some grass

North bet Sec. 13 & 18
Va. 130 58° E.

8.70 Along E. slope of mt.
D by nearly 15 lbs
up the Co. S. E.
ascend through dead timber
36.00 Top of mt. frs. N. N.
S. 60 S. E. descend

H. B. J. 1904. P. 2 H.

Claims

40.00 Set a Quartz rich
18x12x6 ins. 12 ins. in
the ground for 114
Sec. Cor. marked
114 on N. face and
raised a mound of
stone alongside.

Pit - impracticable
Thru over mt. ridges
and gulches.

8000

Set a Limestone
18x10x6 ins. 12 ins. in
the ground for Cor.
to Secs. 7, 12, 13 and 18
marked with 4 notches
on E. and 2 notches on
N. ridges. and raised
a mound of stone
alongside.

Pit impracticable

N. P. S. 19 N. R. 2 N.

Chains

Sangre mountains
 East end. note
 Dead and fallen timber
 Some grass

North lat. Secs. 7 and 12
 Var. 130° 56' E.

4000 Set a limestone 16 x 10 x 4
 ins. 11 ins. in the ground
 for 14 Sec. cor. marked
 14 on N. face, and
 raised a mound of
 stone alongside.

Pit inuffaticile
 Enter scattering timber

74.00

80.00

Set a limestone 22 x 10 x 4
 ins. 16 ins. in the
 ground for. cor. to
 Secs. 1, 6, 7 and 12
 marked with 5

H. B. T. 19 Oct. R. 2 H.

Chairs

notches on S. and 1 notch
on N. edge. and raised
a mound of stone alongside
Pit impracticable
from which a Juniper
20 ins. in diam. frs.

N. 40° W. 78 lbs dist.
marked S. 19 Oct. R. 2 H.
S. 1 B. T.

No other trees within limits
Surface rolling
Soil 3rd grade
Dead and fallen timber
Dune oak and buck brush
Some grass

North lat Sec. 1 and 6
Va. 13056' E.

4000 Set a sandstone
20 x 16 x 4 ins. 15 ins. in

H. B. J. 19 St. A. 2. 7.

Chairs

the ground for 14 Sec.
 Cr. marked 14 on
 N. face, and raised
 from which a Juniper
 5 ins. in diam. frs. 1400 E,
 18 lbs. dist. marked
 14 S. B. J.

a Juniper 4 ins. in
 diam. frs. 1400 W,
 14 lbs. dist. marked
 14 S. B. J.

45.40 Dry wash 16 lbs wide to N. E.

58.50 Dry wash 12 lbs wide to E.

80.00 ^{Side} Sand stone 18x14x6 ins,
 12 ins. in the ground
 for Cr. to Sp. 19 and
 20 St. Cr. 2 and 3 St.
 marked with 6
 notches on each edge
 from which a Juniper

H. B. J. 19 A. R. 27.

Chain

16 ins. in diam. Trs. A. 450 E.
38 lbs. dist: marked

J. 20 A. R. 27. S. 31 B. J.

A juniper 14 ins in diam.

Trs. S. 810 E. 44 lbs. dist-
marked J. 19 A. R. 27.

S. 6 B. J.

A juniper 8 ins. in diam.

Trs. S. 1280 N. 206 lbs dist-
marked J. 19 A. R. 37.

S. 1 B. J.

A juniper 10 ins in diam.

Trs. S. 740 N. 28 lbs dist-
marked J. 20 A. R. 37.

S. 36 B. J.

Surface mountainous
Soil 2nd. cat

Dense Juniper and pine
timber

H. B. V. 19 N. R. 2 H.

I carefully examined
the adjustments of
my Solar Transit
to day - particularly the
altitude and reversing
apparat - and found
them correct.
September 13th 1813

Ch. B. O. 19 Ch. R. 2 St. x

Chain

From the Cor. to Tps. 19
and 20 Ch. R. 2 and 3
First point established
by line. I run East-
Towa, random line
with a variation of
 $130^{\circ} 56' E$. setting temporary
any "4 and 5" lines at
each 40 and 80 Chs.
and at 457.90 Chs. intersect
Range line 186 lbs. S. of
the Cor. to Tps. 19 and 20
Ch. R. 1 and 2 St. which
was recently established by me
Thence I run S. $89^{\circ} 47' N$.
on a true line for
1 and 36

11.40
18.00

Va. $130^{\circ} 30' E$
of all

Dward into cañon Co. S.
Bottom of cañon Co. S.
and around

T. B. J. 19 St. R. 2 N.

Chavis

- 23.90 Same canon loc. S
4000 Set a malpais rock
14x8x6 ins. 9 ins. in
the ground for
14 Sec. Cor. marked
14 on N. face
from which a
Juniper 7 ins. in diam.
obs. S. 46° E. 10 lbs
dist. marked 14 S. B. J.
- A Juniper 12 ins. in diam.
obs. N. 20° W. 16 lbs. dist.
marked 14 S. B. J.
- 80.00 Set a malpais rock
16x12x5 ins. 11 ins. in the
ground for. Cor. to Secs.
1, 2, 35 & 36 marked
with 1 notch on E. and
5 notches on N. edge.
and raised a mound

C. B. J. 19 Oct. R. 2 H.

Chains

of stone alongside.

Pits impracticable
from which a juniper
4 ins. in diam & brs. S. 480 E.
25 lbs dist. marked
C. 19 Oct. R. 2 H. S. 1 B. J.

A juniper 8 ins. in diam.
brs. S. 620 N. 44 links dist.
marked C. 19 Oct. R. 2 H.
S. 2 B. J.

A juniper 4 ins. in diam.
brs. S. 401 N. 27 links dist.
marked C. 20 Oct. R. 2 H.
S. 35 B. J.

No other trees within limits

Surface broken

Soil 4th rate

Some juniper timber
and oak brush

Oct. 3. J. 1907. R. 27.

Chains

S. 89° 47' N. on a true
line bet. Sur. 2 and 35
W. 13° 40' E.

Asound

7.00 Top of ridge bet. A. & B.
and sound

18.00 Foot of ridge bet. A & B
and cross dry wash
8 bulbs with lev. S.

20.00 Dry wash 8 bulbs with
lev. S. E.

40.00 Set a maffais rock
14 x 10 x 8 ins. 9 ins. in
the ground for 14 Sec.
lev. marked 14 on A.
face and raised a
pinnacle of stone
along side. Pit impracticable
from which a juniper
4 ins. in diam bet.

U. B. S. 1901. Q 2 H.

Chains

S. 600 E, 25 links dist;
marked 14 S. B. S.

No other trees within limits-

8000

Set a malpais rock
18x12x10 ins. 12 ins. in
the ground for lev.
to Secs. 2. 3. 74 535

marked with 2 notches
on E. and 4 notches on
N. edge, and raised
a mound of
stone alongside.

Pity unprofitable
surface broken

Soil 4th rate

Some juniper and
Oak brush.

S. 8904 } N. on a
true line bet. Secs.

C. B. J. 19 N. R. 2 N.

Chains

Band 34

Co. 13058 E

Asymd S.E. slope

4000

Set a malpais rock
36x12x4 ins. 27 ins. in
the ground for "4

S.E. Co. marked
"4 on N. face

and raised a
mound of stone
along with pits

Unpracticable
from which a
juniper 8 ins. in diam
br. S. 50° W. 28 lbs.

dist: marked "4 S.
B.J.

No other trees within limits

4500

Top of bluff of rock
br. S. W. and S. E.

A. B. C. 19 A. R. 2 H.

Chains

- and descended into canon
- 60.15 Foot of ridge to N.E. S.W. H.
and cross dry wash
15 lbs wide flat N.E.
in canon and
Round
- 68.60 Leave canon to N.E. a
- 69.00 Top of ridge to N.E. and S.W.
and descended
- 80.00 Set a sandstone 20x12x10
in 15 ins. in the ground
for loc. to June 9.4.33.
and 34 marked with
3 notches on E. and N. edges
and raised a mound
of stone alongside.
It is impracticable
from which a juniper
8 ins. in diam. to S. 48° E.
40 links dist. marked

A. B. J. 19 A. R. 2 H.

Quinn

C. 2004, R. 2 H. S. 34 B.C.
 Together with within limits
 Surface mountainous
 Soil 3rd. rate.

Dense juniper, oak
 and mangrove bush

S. 890 47 1/2 on a low
 line bet. Secs. 4 and 23
 Ta. 13050' E.

D mound

3.14 Dry wash Sec. 8, E.
 and around

4000 Set a sandstone
 20x10x4 ins. 15 ins. in
 the ground for 14 Sec.
 Cor. marked 14 on
 N. face and raised
 a mound of slow
 alongside of Pits

11. B. S. - 174. R. 27. =

Chairs

impracticable
 from which a
 Juniper 8 ins. in diam.
 (No. 1) S. 45° E, 9 links,
 dist. marked.

114 B. S.

No other trees within limits

53.50 Dry wash 15 links wide
 left it.

79.60 Large mangrove bush

80.00 Set a sandstone 16x12x8
 ins. plus in the ground
 for Co. to S. 45, 32
 and 33 marked with
 4 notches on E, and 2 notches
 on N. edge and
 raised a mound of
 stone alongside.

Pit impracticable
 Surface mountainous

A. B. J. 19 St. R. & H.
Chains

Soil 3rd. rate
Dune oak, juniper
and mangrove bush

S. 89° 47' W. on a
true line bet. Secs,
5 and 32

Th. 13° 58' E.

7.00

Day work 15 links
fence Sec. St.

40.00

Set a sand stone 20x12x4
ins. 22 ins. in the ground
for 44 Sec. Cor. marked
1/4 on N. face and
raised a mound of
stone alongside.

48.00

Pits unpracticable
Cross Ravine Sec. St.

5.00

Set a sand stone 16x15x
3 ins. 11 ins. in the

Oct. 25, 1941, A. 2 H.

Chains

ground for Cor. to Sec.
5.6.3 and 22 marked
with 5 notches on E. and
1 notch on W. edges;
and raised a mound of
stone alongside.

Site impracticable

Surface mountainous

Soil 4th rate

Dense juniper and
oak brush.

Fair grass

S. 89° 47' W. on a true
line bet. Secs. 6 and 9
Ta. 13° 55' E.

40.00

Set a sandstone
20 x 7 x 6 ins. 15 ins.
in the ground for
16 Sec. Cor. marked

A. B. T. 19 St. A. 2 H.

Chains

4 on St. Jan.
 from which a quimper
 12 ins. in chain. Obs.
 S. 73° E. 75 links dist.
 marked "4 S. B. T."
 A quimper 8 ins. in
 chain. Obs. S. 64° W.
 104 links dist.
 marked "4 S. B. T."

40.30

Ravine Co. St.

40.90

" " A. E.

57.90

The Cor. to Ips. 19 and 20
 St. Ps. 2 and 3 H.

Surface mountainous
 Soil 4th rate -
good grass

I carefully examined
 the adjustments
 of my solar

A. B. J. 19 of R. S. H.

Chambers

Transit to-day particularly
the Latitude of and
reversing apparatus
and I found them
correct -
September 14th 1813

E. B. O. 20 St. R. 2 N

Chairs From the top to 3 ft. 19 and 20 N. R. 1st 2nd 7

- 7 + North on E. top of Sec. 36
Va. 13056' E.
- 27.00 Dug into Hills canon
40.00 Set a malpais 8x14x10 ins.
12 ins. in the ground for
14 Sec. top. marked 74
on N. face. and
from which a cedar
4 ins. in diam. frs. at 75° E.
13 links dist; marked
114 S. S. 5
- a juniper 7 ins. in diam.
frs. N. 4 links dist marked
114 S. S. 5
- 43.69 Road to S. E. 88 N.
- 45.90 Dry wash 18 links wide
Sec. S. N.
- 49.20 Main wash of canon
80 links wide Sec. S. N.
and around

E. B. J. 20 N. R. 2 W.

Chains

62.00

80.00

Leave Hills' canon loc. 1 W.
 Set a malpais rock
 20x12x10 ins. 15 ins. in
 the ground for cen. to
 S. 25. 29. 30, and 36
 marked with 1 notch
 on S. and 5 notches on
 cr. edges. from which
 a Juniper 8 ins. in diam.
 frs. N. 41° E. 130 lbs dist.
 marked S. 20 N. R. 1 W.
 S. 29 B. J.

A Juniper 14 ins. in diam.
 frs. N. 79° E. 70 lbs.
 dist. marked S. 20 N.
 R. 1 W. S. 37 B. J.

A Juniper 7 ins. in diam.
 frs. S. 60° W. 60 lbs dist.
 marked S. 20 N. R. 2 W.
 S. 36 B. J.

E. B. T. 20 N. R. 2 W.

Chain

A Juniper 8 ins. in diam
 fr. / Ch. 220 N. 65 limbs
 dist. marked S. 20 N.
 R. 2 W. S. 25 B. 5.

Stage Sta. fr. S. 65° E.

About 12 Ch. depth

Surface broken

Soil 2nd. rate.

Dense Juniper timber

North on E. by of Sec. 20
 W. 17° 46' E.

15.50 Ascending gradually
 Ash, and ^{fork} Prescott road
 fr. E. 5 W.

4000 Set a malpais rock
 16 x 10 x 6 ins. 11 ins. in
 the ground for 114 Sec.
 leg. marked 114 on
 N. face, and raised

E. B. J. 20 st. R. 2 H.

Chains

8000

a mound of stone alongside
 on top of hill
 Set - a pair of red pine rock
 15 x 10 x 4 ins. 10 ins.
 in the ground for
 cor. to S. 20. 24. 25
 and 29 marked with
 2 notches on S. and 4
 notches on N. edges, and
 raised a mound of stone
 alongside. Pih. unpracticable
 From which a juniper
 6 ins. in diam. for.
 S. 400 E. 151 links dist.
 marked J. 20 st. R. 1 H.

S. 29 B. J.

A juniper 10 ins. in diam.
 for. S. 640 H. 189 links
 dist. marked J. 20 st.
 R. 2 H. S. 25 B. J.

E. O. J. 20 N. R. 2 N.
 Harris

a juniper 12 ins. in
 diam. / hrs. at 45° N. 50
 links dist. unshaded
 J. 20 N. R. 2 N. S. 24 35.
 No other trees within limits
 Surface rolling
 Soil Lud. calc
 Dense juniper timber
 and brush
good grass

North on E. sq. of Sec. 24
 Va. 180 E.

4000 Set a malpais rock
 13 x 10 x 5 ins. 8 ins. in
 the ground for "4
 Set. Cor. unshaded
 "4 on N. face
 a cedar 10 fins. in diam.
 hrs. at 31° N. 47 links dist

E. B. S. 20 N. R. 2 N.

Chains

marked "4 S. B. S.

a Quimper 15 ins in diam.

brs. S. 76° E, 40 links dist.

marked "4 S. B. S.

41.20 Dry wash 10 links wide
Sp. N. W. ascend

61.00 Top of int ridge brs.

Ascend and S. W. descend ^{marked}

8.00

It is malpais rock
18 x 10 x 5 ins. 12 ins. in the

ground for less to Sur.

of 13, 17, 20 and 24 marked
with 3 notches on N. and
S. edge. and raised

a mound of stone

alongside. It is impracticable

from which a Quimper

10 ins. in diam. brs. S. 74° E.

76 links dist. marked

S. 20 N. R. 1 N. S. 17 B. S.

E. B. J. 20 N. A. 27

Chains

A Juniper 8 ins. in
diam. frst. S. 120 E. 8 links
dist. marked J. 20 N.
R. 27. S. 20 B. J.

A Juniper 8 ins. in diam.
frst. S. 38° W. 64 links
dist. marked J. 20 N.
R. 27. S. ³24 B. J.

No other trees within limits
Surface rolling
Soil 2nd. and 3rd. rate
Dense Juniper timber
good grass

Stake on E. Coy. of Sec. 13
Var 15048 E.

4000

Set a malpais 14x10x6
ins. 9 ins. in the
ground for 14 Sec. Coy.
marked 14 on N. face

E. B. J. 20 N. A. 1 N.

Chairs

from which a Juniper
8 ins. in diam. to. N. 84° E.
105 links dist; marked
114 S. B. J.

a Juniper 8 ins. in diam.
to. N. 74° W. 164 links dist.
marked 114 S. B. J.

Down grade ally

Set a malpage 20x12x5-
ins. 15 ins. in the ground
for Cor. to Secs. 13, 17, 8,
and 12 marked with
4 notches on S. and 2
notches on W. edges,
from which a Juniper
8 ins. in diam. to. N.
25° E. 42 links dist.
marked J. 20 N. A. 1 N.
S. 8 B. J.

A Juniper 8 ins. in diam.

58.00

80.00

58.00

E. B. V. 20 N. R. 2 N.

Chains

Tr. S. 80° E. 67 links dist.
marked V. 20 N., R. 1 N.
S. 17 B. V.

a quimper 8 ins. in diam.
Tr. S. 100 N., 38 links
dist. marked V. 20 N.
R. 2 N. S. 13 B. V.

a quimper 12 ins. in
diam. Tr. S. 78° N.
102 links dist. marked
V. 20 N., R. 2 N. S. 12 B. V.

Surface rolling

Soil 2nd. rate

Dense quimper timber

North on E. B. V. Sec 12
V. 1305-8° E.

Dounding

14.00

Ravine Ho. N. there
ascend gradually

E. B. J. 20 St. A. A. H.

Chains

4000 Set a malpais rock
 18x7x5 ins. 12 ins. in
 the ground for 14 Sec. Co.
 marked 14 on N. face
 from which a juniper
 8 ins. in diam. to. S. 7/10 E.
 67 links dist. marked
 14 S. B. J.

A juniper 10 ins. in diam.
 to. S. 3/10 W. 89 links dist.
 marked 14 S. B. J.
 Road to. S. E. and 1/2 W.

55,60
 7000

Set a malpais rock 18x8
 x4 ins. 12 ins. in the ground
 for terr. to Secs. 1, 5, 8 and 12
 marked with 5 notches on
 S. and 1 notch on N.
 edge. and raised a
 ground of stone along with
 pits unperfected

E. B. V. 20 A. Q. 2. 76

Chairs

from which a juniper 12
 ins. in diam. to S. 78° E.
 78 links dist. marked
 C. 204. R. 17. S. 8. B. 5.
 No other trees within limits -
 Surface slightly rolling
 Soil 1st date
 Dense scrubby juniper

Ch. on E. of Sec. 1
 Va. 13° 5' 8" E.

45.00

Set a malpais rock
 10 x 8 x 7 ins. 7 ins. in
 the ground for 114
 Sec. 10. marked 114
 on N. face and
 raised a mound of
 stone along side
 pits unpracticable

E. R. V. 20 N. R. 27.

56.55 (plate)

55 Intersect - 5th Standard Parallel
North 31 Ch. N. of the ^{stand,} ~~line~~ to
Sws. 32 and 33 which was
recently established by me.
St. ~~line~~ of intersection.

I set a post 4 1/2 ft. long
4 ins. sq. with washed
stone 12 ins. in the ground
for taking Cor. to Tps.
20 N. R. 1 and 2 W.

washed U. C. V. 20 N. and
R. 2 W. S. 5 on E.

R. 2 W. S. 1 on N. faces with
corners on S. E. and W.

~~edges~~ ^{faces} dug pits 2 1/2 x 1 1/2
ins. ~~in~~ ^{each} crosswise on line
S. E. and W. of post 6

ft. dist. and raised
a mound of earth 2 1/2 ft.
high 5 ft. diam around
post.

E. B. J. 20 N. R. 2 N.
 Surveys polling said 1st pol
 planting cedar good gr

I care fully examined
 the adjustments
 of my solar
 transit to-day with
 the latitude and meridian
 apparatus and found
 them correct

J. B. McDougall
 Comptroller
 Septem 24th 1860

E. B. of S. 20 N. R. 3 W.
Chain

From the Cen. to Sps. 19
and 20 N. Rs. 2 and 3 W.
recently established by me.
I began North West.
Sps. 21 and 26

Pa. 13° 50' E.

Ascending over rough and
rocky country

000

Set a wooden 12x8x6 in
8 ins. in the ground for
"4 S. Cen. I marked
"4 on N. face and
from which a Pinon
8 ins. in diam. br. S. 50° E.
55 links dist. marked
"4 S. B. T.

a quipper 5 ins. in diam.
br. S. 50° E. 75 links
dist. marked "4 S. B. T.

005

Mark 15 links wide Cen. N. E.

E. By J. 20 N. R. 37.

Chairs

8000 Set a sandstone 14x10x9
ins. 9 ins. in the ground
for ten to two 25. 30. 31
and 36 marked with
1 notch on S. and 5
notches on N. edge.

from which a Juniper
8 ins. in diam. N. 27° E

70 links dist. marked
J. 20 N. R. 27. S. 30 B. J.

A Juniper 6 ins in diam.
N. 29° E. 77 links dist.

marked J. 20 N. R. 27.
S. 31 B. J.

A Juniper 7 ins. in diam.
N. 84° W. 59 links

dist. marked J. 20 N.
R. 37. S. 36 B. J.

A Juniper 27 ins. in
diam. N. 45° W.

E. B. 220 N. R. 3 N.

Chain

61 links dist. marked
 S. 20 N. R. 3 N. S. 25⁰⁰ W.
 Surface rough rolling
 Soil red. rate
 Dense Juniper and
 Pinon timber

North tet. Sec. 25 and 30
 Va. 13° 58' E

- 12.00 Same dry wash 15 links
 with fls. N. N.
- 23.00 Same wash 15 links wide
 cor. S. E.
- 40.00 Set a sandstone 14x12x5
 ins 9 ins in the ground
 for "4 Sec. Cor. marked
 "4 on S. face from
 which a Juniper
 10 ins in diam. S. S.
 N. 47° E. 70 links dist.

E. B. J. 20 N. Q. 3 H.

Chains

marked "4 S. B. J.

A Juniper 8 ins. in diam.
No. S. 1450 N. 86 links

dist. marked "4 S. B. J.

80.00 Set a sandstone 12x10x
10 ins. 8 ins. in the
ground for loc. to

Secs. 19, 24, 25 & 30 marked
with 2 notches on S. and
4 notches on N. edge
from which a Juniper
6 ins. in diam. No.

N. 39° E. 93 links dist.
marked J. 20 N. Q. 2 H.
S. 19 B. J.

a Juniper 14 ins. in diam.
No. S. 70 E. 65 links dist.
marked J. 20 N. Q. 2 H.
S. 30 B. J.

a Juniper 8 ins. in diam.

E. 20 S. 20 N. R. 37.
 Chains

brs. S. 46° N. 127 links dist.
 marked S. 20 N. R. 37.
 S. 25° N.

A Quimper 10 ins. in diam.
 brs. N. 86° N. 55 links
 dist. marked S. 20 N.
 R. 37. S. 24° N.

Surface rolling & hilly
 Soil 3rd. rate
 Dense Quimper and
 Pine timber

North pt. S. 19° and 24
 Va. 13° 50' E.

Very rolling surface

4000

Set a sandstone 12x10x8
 ins. 8 ins. in the
 ground for 14 dec. lev.
 marked 14 on N. face
 from which a

E. B. J. 20 at R. 37.

Chains

Juniper 10 ins. in diam
 hrs. at. 260 E. 36 links
 dist. marked 14 S. B. J.
 a Juniper 14 ins. in
 diam. hrs. at. 520 E.
 40 links dist. marked
 H. B. J.

5000

Set a sandstone
 16x6x6 ins. 11 ins. in
 the ground for cor.
 to R. Sec. 13, 18, 19.
 and 124 marked with
 3 notches on E. and S.
 edges. from which
 a Juniper 11 ins. in diam.
 hrs. at. 240 E. 30 links
 dist. marked J. 20 at.
 R. 2 H. S. 18 B. J.
 a Juniper 14 ins. in
 diam. hrs. S. 100 E.

E. B. T. 20 A. R. 3 H.
 Chains

41 links dist. marked
 T. 20 A. R. 2 H. S. 19 B. S.
 a juniper 7 ins. in diam.
 by S. 1 S. 890 H. 47 links
 dist. marked T. 20 A.
 R. 3 H. S. 24 B. S.

a juniper 5 ins. in diam.
 by S. 1 S. 150 H. 43 links
 dist. marked T. 20 A.
 R. 3 H. S. 13 B. S.

Surface rolling
 Soil 3rd. rate
 Dense juniper timber

N. 74. Sec. 3 and 18
 Va. $122^{\circ}42'E$.

Over rolling surface
 Set a location 12x10x6
 ins. 8 ins. in the ground
 for "4 Sec. Cor. marked

E. B. J. 20 cr. R. 3 H.

Chairs

114 on N. face.

from which a Juniper 12
ins. in diam. hrs.cr. 35° E, 49 links dist.
marked 114 S. B. J.a Juniper 10 ins. in diam.
hrs. S. 51° N. 34 links

dist. marked 114 S. B. J.

8000 Set a limestone $12 \times 10 \times 10$
ins. 8 ins. in the ground
for Cor. to Sec. 7, 12, 13
and 18 marked with
4 notches on S. and 2
notches on E. edges.

from which a

Juniper 12 ins. in diam.

hrs. cr. 80° E, 30 links dist.
marked J. 20 cr. R. 2 H.

S. 7 B. J.

a Juniper 10 ins. in

E. B. T. 204. R. 37.

Chains

diam. hrs S, 120 E, 14 links
dist. marked T, 204.
R. 27. S. 18 B. T.

A quimper 8 ins. in diam.
hrs S. 55 W. 8 links dist.
marked T, 204. R. 37.
S. 13 B. T.

A quimper 15 ins. in diam.
hrs. 41. 67° W. 38 links
dist. marked T, 204.
R. 37. S. 12 B. T.

Surface rolling and lumpy
Soil 2nd. rate
Dune quimper timber

North lat. Secs. 7 and 12
Va. 14042° E.

4000 *Sida sandstone* 14x12
x 8 ins. 9 ins. in the ground
for 14 Sec. loc. marked

E. B. J. 20 or R. 37.

Chairs

14 on N. face,
 from which a
 Juniper 11 ins. in diam.
 frs. at 32° 51 links
 dist. marked 14 S. B. J.
 A. Pinon 6 ins. in diam.
 frs. at 50° 7 94 links
 dist. marked 14 S. B. J.

85,00 Set a sandstone 18 x 10 x 5
 ins. 12 ins. in the
 ground for the
 base of 7 and 12
 marked with 5 notches
 on S. and 1 notch
 on N. edges.

from which a
 Juniper 12 ins. in
 diam. frs. at 10° E.
 19 links dist. marked
 J. 20 or R. 27. S. 6 B. J.

E. B. 20 N. R. 3 N.

Chains

A Juniper 6 ins. in diam.
 hrs. S. 160 E., 15 links
 dist. marked 20 N
 R. 2 N. S. 7 B. S.

A Juniper 10 ins. in diam.
 hrs. S. 45 W., 4 links dist.
 marked 20 N. R. 3 N.
 S. 12 B. S.

A Juniper 8 ins. in diam.
 hrs. N. 89° W. 6 links
 dist. marked 20 N.
 R. 3 N. S. 1 B. S.

Surface rolling and hills
 Soil 3rd. rate

Some Juniper timber

North pt. Sec. 1 and 6
 Ta. 121° E.

Very rolling surface
 Set a sandstone

E. B. V. 20 Cr. R. 3 N.

Chains

14 x 12 x 8 ins. 9 ins. in
 the ground for 114
 feet Cor. marked
 114 on N. face. from
 which a Juniper
 12 ins. in diam. brs.
 S. 30° E. 86 links dist.
 marked 114 S. B. T.

A Juniper 12 ins. in
 diam. brs. Cr. 450 ft. 95
 links dist. marked
 114 S. B. T.

54.00

Intersect - 5th Standard
 Parallel North 36,90 Chs.
 West ^{Line}

of the ^{Line} Cor. to Secs. 32 + 33
 which was recently
 established by me.
 At point of intersection
 I set a limestone

E. P. J. 20 A. P. 3 H.

Chairs

12 x 8 x 7 ins. 8 ins. in the
ground for taking hrs.
to Feb. 5. 20 A. P. 2 and
3 H. marked to G. with
6 notches on S. E. & N.
edges. and raised a
ground of stone along side
covered with earth.
Surface nothing but 2nd. rate
good grass some cedar
I carefully examined the
adjustment of my
Solar Transit. to-day
particularly the latitude
and reversing apparatus
and found them correct
September 25th 1853

S. B. C. 20 St. R. 3 7/8

Chain

From the Cor. to Sp. 19 and 20
St. R. 2 and 3 7/8 just
recently established by me.

I ran N. on a random
line with a variation of
13° 56' E. setting temporary
44 and 52 Chs. at
each 40 and 80 Chs. and
at 481.22 Intersect - Range
line 299.6 Chs. N. of the
Cor. to Sp. 19 and 20 St.
R. 3 and 4 St. which is a
limestone ~~48x7~~ ins. marked
with 6 inches on each
edge, ^{marked} ~~pub.~~ attached
I redig ~~pub.~~ and
rebuild ^{marked} to
be of proper size.
Then I ran St. 89° 39' E.
on a true line ~~pub.~~

S. B. I. 20 N. R. 37.

Davis

Ses. 6 and 31

Va. 1305-8'E.

29.72 Dry wash 8 ft wide
Ses. 37.41.22 Set a sandstone 20x6x5
ins. 15 ins. in the ground
for 14 Ses. W. marked
14 not. for. and raised
a mound of stone alongside
Pit impracticable
around gradually through
dense bedded and Union
bank81.22 Set a sandstone 20x8x6 ins.
15 ins. in the ground for
Cor. to Ses. 5. 6. 31 and 32
marked with 1 notch on
E. and 5 notches on W.
edge and raised a
mound of stone alongside.

S. B. T. 20 N. R. 37.
Chains

Pit impracticable
from which a juniper tree
7 ins. in diam. br. N. 100 E.
38 links dist. marked
T. 20 N. R. 37. S. 32 B. T.
a pinon 6 ins. in diam.
br. S. 100 W. 41 links dist.
marked T. 19 N. R. 37.
S. 6 B. T.

Other trees within same
Surface mountainous
Soil 4th rate
Dense Cedar and juniper
39.62 chs.

N. 89° 39' E. on a true
line bet. Dec. 5 and 22
W. 130° 18' E.

around

11.30 Top of ridge on N. side

S. B. 20 of R. 2 A.

Series

- 4090 of high peak of mt.
 found disused
 Set a sandstone 18x12x6
 ins. 12 ins. in the ground
 for "4" Sec. Co. marked
 "4" on N. face and raised
 a mound of stone alongside
 pits impracticable
 from which a juniper
 10 ins. in diam. of top.
 S. 100 E. 37 links dist.
 marked "4" S. B. 20.
 No other trees within limits.
- 77.90 Foot of ridge - and
 cross dip was 20
 links, 1 mile to N. N. E.
- 8000 Set a limestone 15x10x6
 ins. 10 ins. in the ground
 for Cor. to Sec. 14. 5. 92.
 and 23 marked

S. B. 1. 20 N. R. 3 N.

Quins

with 2 notches on N. and
4 notches on E. edge.
and raised a mound
of stone along side,

Pit impracticable
from which a Pinon
7 ins. in diam. brs.

at 60° E. 58 links dist.
marked S. 20 N. R. 3 N.
S. 33 B. T.

A Pinon 6 ins. in diam.

brs. S. 71° E. 62 links
dist. marked S. 19 N.
R. 3 N. S. 4 B. T.

A Pinon 8 ins. in diam.

brs. at 24° N. 79 links
dist. marked S. 20 N.
R. 3 N. S. 32 B. T.

No other trees
within limits.

S. B. F. 20 A. R. 3 N.

Chairs

Surface mountainous
 Soil 4th rate
 Some juniper and
 Pinon. Timber
 No grass

S. $89^{\circ}39' E$. on a true
 line bet Secs. 4 and 33
 around Var. $13^{\circ}58' E$

3200

Top of end of "Bulle"
 layer disjunct

4000

Set a limestone $16 \times 12 \times 4$
 ins. in dia. in the ground
 for "4 Sec. Cor. I marked
 "4 on top face.
 From which a pinon
 8 ins. in dia. brs.
 $45^{\circ} E$. 45 links
 dist. marked "4 S.B.F."
 a pinon 7 ins in dia.

S. B. J. 20 N. R. 3 H.

Chains

- Frs. S. 780 N. 52 links
 dist. marked "S. B. J."
- 58.00 Foot of Butte and
 across dry wash
 13 links wide to N.
- 79.00 Award along N. slope.
- *5.00 Set a sand stone $20 \times 10 \times 6$
 ins. 15 ins. in the ground
 for Cor. to Sw. B. 4. 3. 3
 and 34 marked with
 3 notches on E. and N.
 edges. and raised a
 surround of stone alongside
 from which a pinon
 8 ins. in diam. frs.
 S. 150 E. 18 links dist.
 marked J. 19 N. R. 3 H.
 S. B. J.
- A Pinon 4 ins. in diam.
 frs. 450 N. 20 links dist.

S. B. V. 20 N. R. 37
 Chain

marked S. 19 N. R. 37.
 S. 4 B. V.
 a juniper 16 ins. in diam.
 No. 46 N. 48 links
 dit marked S. 20 N.
 R. 37. S. 23 B. V.
 No other trees within limits
 Surface mountainous
 Soil 4 rate
 Dense juniper and
 Pinion brush and
 timber

S. 89° 39' E. on a true
 line bet. Secs. 3 and 34
 Va. 13058' E.

9.00 Dry wash 16 links
 wide Co. S. N. ascend
 2000 Top of mt ridge bet. S. E.
 and S. N. descend

S. B. T. 20 Cr. Road 7/8

Chains

- 5.20 Foot of ridge, brs. N.E. & S.W.
and cross dry wash
16 links with brs. S.W. and across
- 40.00 Set a sandstone 18x14x3
ins, 12 ins. in the ground
for 4 Sec. brs. marked
14 on N. face
from which a Pinon
6 ins. in diam. brs. N. 20° E
33 links dist. marked
14 S. B. T.
- a Juniper 12 ins. in diam.
brs. S. 48° W. 35 links
dist. marked 14 S. B. T.
- 50.00 Top of mountain brs.
N. W. and S.E. and
across same
- 79.00 Dismal from mt. brs.
S.W. and S.E.
- 80.00 A Juniper tree 6 ins

B. J. 20 St. R. 3 Th.

in

in diam. which I
marked J, 20 St. S. 35
on N.E.

R. 3 Th. S. 2 on S.E.

~~S. 2~~ S. 3 on S. Th.

and S. 34 on N. Th. face
with 4 notches on Th. and
2 notches on E. edge.

from which a
juniper 10 ins. in diam.
br. St. 150 E, 4 limbs.

disk: marked J, 20 St.

R. 3 Th. S. 35 B. J.

a juniper 14 ins. in diam.

br. S. 400 E, 4 lbs disk

marked J, 19 St. R. 3 Th.

S. 2 B. J.

a Juniper 12 ins. in

diam. br. S. 450 St.

6 limbs disk: marked

S. B. T. 20 N. R. 37.

Chains

S. 19 N. R. 37. S. 3 B. T.
 A juniper 14 ins. in diam.
 at. 457 ft. 6 links
 dist. marked. S. 20 N.
 R. 37. S. 34 B. T.

Surface mountains
 Soil 3rd. soil

Dense juniper and
 Pinus strobus

at. 890391 ft. on a true
 line bet Secs. 2 and 35
 Va. 130 58th E.

Down gradually

10.50

Dry Wash 15 links
 side Sec. 4.

40.00

Set a limestone 16 x 12 x 6
 ins. in the
 ground for 14 Sec. Cor.
 marked "4 on at. face

S. B. V. 20 A. R. 2 H.

Chain

from which a Juniper 6
ins. in diam. frs.
N. 45° E. 18 links dist.
marked 1/4 S. B. V.

A Pinon 10 ins. in
diam. frs. S. 64° W. 20
links dist. marked
1/4 S. B. V.

8000

Set a sandstone
18 x 14 x 4 ins. 12 ins. in
the ground for Cor.
to Secs. 1, 2, 35 and 36
marked with 5 notches
on N. and 1 notch
on E. edge.

from which a Juniper
4 ins. in diam. frs.
N. 40° E. 39 links dist.
marked 1/2 20 A. R. 3 H.
S. 36 B. V.

S. B. J. 20 N. B. 3. 76
 Chains

a Pinon 8 ins. in diam.
 ws. S. 280 E. 30 links
 dist. marked S. 19 N.
 R. 0 N. S. 1 B. J.

a Pinon 5 ins. in diam.
 ws. S. 150 N. 69 links
 dist. marked S. 19 N.
 R. 3 N. S. 2 B. J.

a Juniper 6 ins. in diam.
 ws. E. 1480 N. 90 links
 dist. marked S. 20 N.
 R. 3 N. S. 35 - B. J.

Surface rolling chains
 to S. E.

Soil 2nd. rate

Dense Juniper and
 Pinon timber

Grass Fair

A. B. S. 20 Ch. R. 3 H.

Chassis

St. 890 39'E. on a true
line bet. Dec. 1904 36
Va. 130 58'E.

Ascend

19.00 Top of mt. ridge bet. cr. & s.
and descend

40.00 Set a sandstone 14x7x4
ins. 9 ins. in the ground
for 14 Dec. Cor. marked
114 on cr. face.

from which a quartz
6 ins. in diam. hrs. S.
18 links dist. marked
114 S. B. T.

A Pinon 6 ins in diam.
hrs. st. 480 ft. 68 links
dist. marked 114 S. B. T.

5 5.00 Foot of ridge bet. cr. & s.
5 6.30 Ravine Co. North
5 1.00 ascend
49.00

S. B. V. 20 N. R. 27.

Chains

60.00 Top of ridge trans. N. R. 27.
 (observed)

50.00 The cor. to Sps. 19 and
 20 N. R. 2 and 3 N.

Surface rolling
 soil 3rd. rate
 Dune juniper and
 Piñon timber
Some grass

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

Sept. 26th. 1853

W. Ry. S. 21. N. R. 1, W.

chain

Begin at standard cor.
on 5th Standard N.
to Sps. 21, N. R. 1 & 2 W,
recently established
by me,

thence I run
N. bet. Secs. 31 & 36
var. $13^{\circ}58' E$,

over rolling country
40,00 Set a marker stone
 $12 \times 8 \times 6$ ins, 8 ins, in the
ground for $\frac{1}{4}$ Sec. cor.

marked $\frac{1}{4}$ on W. face,
dug pit $18 \times 18 \times 12$ 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.

80,00 Set a marker stone
 $13 \times 9 \times 5$ ins, 8 ins. in

W. Big T. 21, N. R. 1 W.

chain

the ground, for cor. to
 Secs 25, 30, 31 & 36,
 marked with 5 notches
 on N, & 1 notch on S
 edges, and raised a
 mound of stone along-
 side. Pits impracticable.

Surface hilly

Boil 3rd rate

Good grass

~~There I saw~~

N. but. Secs. 25 & 30

var. 14° E.

40.00 Set a malpais stone
 19 x 11 x 7 ins, 13 ins. in
 the ground for $\frac{1}{4}$ Sec.
 cor. marked $\frac{1}{4}$ on
 W face, and raised

W. By T. 21, N. R. 1, W.

Chains

8000 a mound of stone
alongside. Pits impracticable
Set a malpais stone
13 x 13 x 9 ins., 8 ins., in
the ground for cor,
to Secs, 19, 24, 25, & 30,
marked with 4 notches
on N. & 2 notches on
W. edges, and raised
a mound of stone
alongside. Pits im-
practicable.

Surface hilly and
rolling.

Soil 3rd rate

Good Grass

Scattering Cedar,

W. By S. 21. N. R. 1. W.

chain:

Place a ~~rod~~

N. bat, Res. 19 x 24
 bal. $14^{\circ} 15' E$.

40.00 Set a malpais stone
 $12 \times 8 \times 6$ ins, 8 ins, in
 the ground for $\frac{1}{4}$ sec.
 cor. marked $\frac{1}{4}$ on W.
 face, & raised a
 mound of stone
 alongside, from which
 a juniper tree 8 ins. dia
 brs. N. $40^{\circ} W$. 44 lks.
 marked $\frac{1}{4}$ S. B. S. - no
 other trees within limits.

78.00 Top of hill, brs E & W.
 descend

80.00 Set a malpais stone
 $20 \times 16 \times 10$ ins, 15 ins,
 in the ground, for cor

W. By T. 21. U, R, 1. W.

Chains

to Decs, 13, 18, 19 & 24;
marked with 3 notches
on N. & S. edges, &
raised a mound of
stone alongside.

A Juniper tree 12 ins,
dia, br. S, 54° W, 97 lbs,
marked T. 21 U, R, 2. W. S. 24.
B & S - no other trees
within limits

Surface hilly
Soil 3rd val

Good Grass

else Cedar brush

thence I run
N. bet. Decs, 13 & 18,
var, 14° 10' E,
thence

W. Big T. 21, W. R. 1, W.

chains

11,20

Foot of hill, brs. E. & W.

4000

Set a mark about
14 x 12 x 9 ins, 9 ins. in
the ground for $\frac{1}{4}$ Rec. cor,
marked $\frac{1}{4}$ on W, face,
from which,

a juniper tree 16 ins. dia,
brs. S. 45° E. 141 lks, marked
 $\frac{1}{4}$ S, B, T,

A juniper tree 10 ins, dia,
brs. N. 45° W. 71 lks, marked
 $\frac{1}{4}$ S, B, T,

8000

Set a mark about
18 x 12 x 10 ins, 12 ins. in
the ground for cor. to
Recs. 7, 12, 13, & 18,
marked with 2 nolets
on N. & 4 nolets on
S. edges, from which

W. Big T, 21, U, R, 1, W.

Chairs

A Juniper tree 10 ins. dia,
trs. N, 86° E, 47 lbs.

marked T, 21, U, R, 1, W, S, 7, B, F,

A Juniper tree 8 ins. dia
trs. S, 41° E, 75 lbs, marked

T, 21, U, R, 1, W, S, 18, B, F,

A Juniper tree 12 ins. dia
trs. S, 37° W, 14 lbs, marked

T, 21, U, R, 2 W, S, 13, B, F,

A Juniper tree 6 ins. dia
trs. U, 35° W, 25 lbs, marked

T, 21, U, R, 2 W, S, 12, B, F,

Surface hilly

Soil 3rd rate

Good Grass

Class Juniper timber

Thence I run

W. Big T. 21, N. R. 1, W.

chain

N. bet. Secs. 7, 8, 12.

var. $14^{\circ} 15' E$,

23.08 Wash, 50 lks, wide course W.

40.00 Set a Malpais stone

$14 \times 10 \times 5$ ins, 8 ins, in
the ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W face,

from which, a Juniper
tree 5 ins, dia, brs. N. 76°
E, 45 lks, marked $\frac{1}{4}$ S, B, T,

a Juniper tree 12 ins, dia,
brs. S. 50° W, 146 lks,

marked $\frac{1}{4}$ S, B, T,

54.78 Road, brs. E & W,

80.00 Set a Malpais stone

$18 \times 10 \times 10$ ins, 12 ins,
in the ground for cor,
to secs. 1, 6, 7 & 12,

marked with 1 notch

W. Big T. 21. N. R. 1. W.

Chairs

on N. & 5 notches on S.
edges, & raised a
mound of stones along
-side, from which
a juniper tree 16 ins. dia.,
hrs. S. 78° E. 217 lks, marked
T. 21. N. R. 1. W. S. 7. B. P.
No other trees within
limits.

Surface hilly

Soil 3rd rate

Weyer juniper brush
Good Grass

Thence I run

N. bet. Pres. 1, 4, 6,

var, 14° 15' E,

4000 Set a malpais stone
14 x 11 x 4 ins, 9 ins. in

W. By T, 21, N, R, 1, W,

chains

the ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face,
from which,

A Juniper tree 15 ins. dia
brs. S, 87° E, 59 lks,
marked $\frac{1}{4}$ S, B, T,

A Juniper tree 14 ins. dia,
brs. S, 45° W, 43 lks,
marked $\frac{1}{4}$ S, B, T,

75.00 Road brs, N, E, & S, W. —

80.00 Put a mathais stone
18 x 14 x 7 ins. 12 ins. in the
ground for cor. to T's,
21 & 22 N, R's 1 x 2 W,
marked with 6 notches
on each edge, dug
pits 24 x 18 x 12 ins,
lengthwise on each
line N, S, E, & W. of stone

W. Ry T. 21. N. R. 1. W.

Chairs.

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

Surface rolling
Soil 2nd rate

Woods scrub cedar
Grass Good



U. By T. 21. N. R. 1. W.

chains

From cor. to Tps 21 & 22 N, Rs. 1 & 2 W, just established by me, I run east on a random line, var. $14^{\circ} 15' E$, setting temporary $\frac{1}{4}$ & sec. corners at each 40 & 80 chains, and at 5 miles, 79 chs. & 39 lks. I intersect Principal Meridian 38 lks N. of cor, to Tps 21 & 22, N, Rs. 1, E, & 1. west, recently described by me, thence I run N. $79^{\circ} 57' W$, on true line but. sec. 1 & 36, var. $14^{\circ} 06' E$.

2300

Ascend.

W, Big T, 21, N, R, 1, W.

chains

39,00

Top of mountain, brs, N.W.
& S.E. descend

40,00

Set a malpais stone
17 x 12 x 7 ins, 13 ins, in
the ground for $\frac{1}{4}$ sec. cor
marked $\frac{1}{4}$ on N. face,
from which

A cedar tree 6 ins, dia,
brs, N, 34° W, 35 lks,
marked $\frac{1}{4}$ S, B, T,

A cedar tree 8 ins, dia,
brs, S, 27° E, 87 lks, marked
 $\frac{1}{4}$ S, B, T,

63,00

Bottom of cañon, course N.W.

70,00

Leave cañon, course N.W.
and top of mountain
ridge brs, N.W. & S.E.

descend

80,00

Set a malpais stone

U. By T. 21, U. R. 1, W.

chains,

14 x 12 x 11 ins. 9 ins. in
the ground for cor. to
secs. 1, 2, 35, & 36, marked
with 1 notch on E, & 5
notches on W. edges, &
raised a mound of
stone alongside,
from which

A Cedar tree 8 ins. dia,
brs S. 35, E, 51 lks,

Marked T. 21 U. R. 1 W. S. 1, B. T.

A Cedar tree 6 ins. dia,

brs. N. 43° W, 45 lks,

Marked T. 22 U. R. 1, W. S. 35, B. T.

No other trees within limits,

Surface mountainous

Soil 3rd rate

Heuse Cedar & oak brush

Grass fair

U. Ry, T. 21, N. R, 1, W,

chains,

Thence I run,
 N. $89^{\circ} 57'$ W, on true line
 bet res. 2. & 35,
 var. $14^{\circ} 05'$ E,

descending

40.00 Set a malpais stone
 $12 \times 10 \times 8$ ins, 8 ins, in
 the ground for $\frac{1}{4}$ cor, cor,
 marked $\frac{1}{4}$ on N. face &
 raised a mound of
 stone alongside, ^{its impracticable}

46.62 Bottom of cañon, corner
 S. W. - Ascend

66.00 Top of ridge bet. N. & S.
 Leave cañon

80.00 Set a malpais stone
 $24 \times 18 \times 14$ ins, 16 ins, in
 the ground for cor, to
 res. 2, 3, 34 & 35, marked

N. By T. 21, N. R. 1, W.

chains,

with 2 nolets on E. &
4 nolets on W. edges,
and raised a mound
of stone alongside,
from which,

A Cedar 7 ins. dia. brs.
S. 34° E, 51 lks, marked
T. 21, N. R. 1, W. S. 2, B. T.

A Cedar tree 6 ins. dia
brs. N. 41° W, 44 lks, marked
T. 22, N. R. 1, W. S. 34, B. T.
^{no other trees within limits}
Surface mountainous
Soil 3rd rate

thence cedar & oak brush
Grass fair

thence I run
N. $89^{\circ} 57'$ W, on true
line bet. ac's, 3 x 34

U. By T, 21, U, R, 1, W,

chains

var, $14^{\circ} 05' E$,

descend

- 1,60 Bottom of cañon, course
N, W, ascend.
- 7,00 Leave cañon
- 29,00 Descend abruptly into
same cañon
- 34,34 Bottom of cañon, course S, W,
- 40,00 Set a mark as follows
 $26 \times 5 \times 5$ ins, 16 ins, in
the ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face
from which,
A cedar tree 17 ins. dia,
brs, N, $14^{\circ} W$, 73 lks,
marked $\frac{1}{4} S$, B, T,
- A cedar tree 10 ins. dia
brs, S, $18^{\circ} E$, 73 lks,
marked $\frac{1}{4} S$, B, T,

U. By T, 21, U. R, 1, W.

chains

46.00 Top of mountain, frs, U. & S,
Descend

60.00 Ravine, course S, - ascend

80.00 At a volcanic stone
20 x 14 x 10 ins, 15 ins, in
the ground for cor. to
rees, 3, 4, 33, & 34, marked
with 3 notches on E &
W. edges, & raised a
mound of stone alongside,
from which,

A Cedar tree 4 ins. dia,
frs, U, 40° E, 73 lks, marked
S, 22, U, R, 1, W, S, 34, B, T,

A Cedar tree 5 ins. dia,
frs S, 46° E, 75 lks, marked
S, 21, U, R, 1, W, S, 3, B, T,

A Cedar tree 6 ins. dia,
frs, S, 45° W, 59 lks, marked

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U. Ry T, 21, U. R, 1, W,

chain

T, 21, U, R, 1, W, S, 4, B. T,
 No other trees within limit,
 Surface mountainous
 Soil 3rd rate
 Dense cedar brush
 Grass fair

Thence I run,
 N, $89^{\circ}57'$ W, on true
 line bet, Ques, 4 & 33,
 var, $14^{\circ}05'$ E,

Ascend

20,00 Top. S. end of mountain
 bro. S. E. - descend,
 40,00 Set a mahair stone
 $14 \times 10 \times 4$ ins, 9 ins. in
 the ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on N. face,
 from which,

U. By T, 21, U, R, 1, W,

chains

- A Cedar tree 4 ins. dia,
 brs. S, 10° E, 39 lks,
 marked $\frac{1}{4}$ S, B, T,
- A Cedar tree 4 ins. dia,
 brs. N, 8° W, 47 lks,
 marked $\frac{1}{4}$ S, B, T,
- 55,00 Road brs. N, & S,
- 59,00 Ravine, course S, ascend,
- 66,00 Top bluff of rock br, N, & S,
 descend
- 80,00 At a malpais stone,
 12 x 10 x 7 ins, 8 ins, in the
 ground for cor. to recs,
 4, 5, 32, & 33, marked
 with 4 notches on E, &
 2 notches on W edges
 & raised a mound of
 stone along side,
 Surface mountainous

N. By S, 21, N, R, 1, W.

chains.

Soil 3rd rate
 Heavy cedar brush
 Grass fair

Thence I run
 N. 89° 57' W, on true line
 bet. sec's, 5 & 32,
 Val. 14° 05' E

28,18 A. & P. R. R. trs. N, E, & S, W.

40,00 Set a volcanic stone
 18 x 12 x 6 ins, 12 ins, in
 the ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on N. face,
 & raised a mound
 of stone alongside.
 Pits impracticable

44,70 A. & P. R. R. trs. N, W, & S, E.

68,00 Foot of descent

80,00 Set a marble stone

U. By T, 21, U, R, 1, W,

chains

18x16x10 ins, 12 ins, in
 the ground for cor. to,
 Ques, 5, 6, 31, + 32,
 marked with 5 notches
 on E, + 1 notch on W,
 edges + raised a
 mound of stone along
 side, from which
 a Cedar tree 14 ins, dia,
 to, S, 38° W, 138 lks, marked
 S, 21, U, R, 1, W, S. 6. B. T
 No other trees within limits
 Surface mountainous
 Soil 2nd rate
 Scattering cedar
 Good grass

Thence I run,
 N. 89° 57' W, on true line

U. R. 1, 21, N. R. 1, W.

chain	bet. sec's. 6 & 31, Var. $14^{\circ} 05' E$,
4.00	Ascend
7.00	Top of mountain, to U. & S.
38.00	Foot " " " "
40.00	Set a malpais stone $18 \times 8 \times 6$ ins, 12 ins, in the ground for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N. face, & raised a mound of stone alongside. Pits impracticable
79.59	Cor. to sps 21 & 22, N. Rs. 1 & 2 W, previously established by me, Surface mountainous Soil 2 nd rate Scattering cedar Good grass

U. By J. 21, U. R. 1, W.

chains

Oct, 22, 1883,

Examined my instru-
ment & Solar apparatus
today, & found them
correct,

W. Ry. S. 22, N. R. 1, W.

chains

Beginning at cor. to
Sps 21 & 22 N. R. 1, S. 22 W.
previously established
by me, I run

N. bet. Sec's, 31 & 36,
Var, $14^{\circ} 15' E.$

14.68 A & P. R. R. east of P. C.
140 lks bet. N. E. & S. W.

33.44 Road bet. E. & W.

40.00 Set a malpais stone
 $12 \times 10 \times 5$ ins, 8 ins, in
the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face,
from which

A Juniper tree 6 ins. dia.
bet. S. $84^{\circ} W.$ 33 lks.
marked $\frac{1}{4}$ S. B. S.

A Juniper tree 5 ins. dia.
bet. S. $79^{\circ} E.$ 22 lks.

W. Ry T, 22 N. R. 1 W.

chains

marked $\frac{1}{4}$ S, B, T,

51,00 Descend into cañon

70,00 Bottom of cañon, 120
lks, wide, course W.

71,20 Ascend

80,00 Put a mathais stone,
18x7x6 ins, 12 ins, in the
ground for cor. to sec's,
25, 30, 31 x 36, marked
with 5 notches on W,
and 1 notch on S, edges,
& raised a mound of
stone alongside,
from which

A cedar tree 8 ins, dia
brs N, 45° E, 31 lks, marked
S. 22, N. R. 1 W, S, 30, B, T,

A cedar tree 7 ins, dia,
brs W, 16 lks, marked

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BOOK 1661

W. By T. 22, N. R. 1, W.

chains,

T. 22 N. R. 2, W. B. T. —
no other trees within
limits.

Surface rolling

Soil 3rd rate

Hence scrubby cedar

Grass fair

Thence I run

N. bet. sec's 25 & 30

Dac, 14° 15' E,

Ascending

2000 Top of bluff, thence over
rolling hills4000 set a mark in stone
14 x 7 x 6 ins, 9 ins, in
the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face,
and raised a mound

W. By S. 22. N. R. 1. W.

chains.

8000

of stone alongside,
 pits unpracticable,
 set a malpais about
 19 x 10 x 4 ins, 12 ins, in
 the ground for cor. to
 sec's 25, 30, 19, & 24,
 marked with 4 nolets
 on N. & 2 nolets on
 S. 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
 alongside.

Surface rolling

Soil 3rd rate

Herse scrubby cedar
 Grass Good

W. Ry T. 22, N. R. 1. W.

chains

Thence I run

N. bet. Sec's, 19 & 24

Var. $14^{\circ} 15' E$,

4000

Set a malpais stone
 $16 \times 12 \times 6$ ins, 10 ins, in
 the ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face,
 dug pits $18 \times 18 \times 12$ ins,
 N. & 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 2 1/2 x
 14×5 ins, 18 ins, in the
 ground for cor. to
 Sec's, 13, 18, 19 & 24,
 marked with 3 notches
 on N. & S. edges, &
 raised a mound

W. By T. 22, N. R. 1, W.

chains,

of stone alongside,
 Pits impracticable.
 Surface sloping
 Soil 2nd rate
 Heavy scrubby cedar
 Grass Wood

Thence I run
 N. bet. Secs. 13 & 18
 Var. $14^{\circ} 45' E$,
 Ascend slope of mountain
 4000 ft a sandstone box
 8 x 6 ins. 20 ins. in the
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face,
 & raised a mound
 of stone alongside
 Pits impracticable
 5200 Top of mountain, bet. N.W. & S.E.

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BOOK 1661

W. Ry S. 22, N. R. 1. W.

chains.	
53,00	Descend into cañon
67,00	Dry wash, 20 lks. wide course N. W, thence over point of ridge
78,80	Dry wash 25 lks. wide, course S. W, ascend mountain
80,00	Get a sandstone 22 x 12 x 6 ins, 14 ins, in the ground for cor. to Rees' 7, 12, 13, & 18 marked with 2 notches on N, & 4 notches on S. edges, & raised a mound of stone alongside. Pits infractible. Surface mountainous Soil 4 th rate, hence oak brush - Grass Good

W. Big T. 22, N. R. 1, W.

chains,

Thence I run,

N. bet. sec's, 7 & 12,
 var. $14^{\circ} 15' E$,

Ascending

9,00 Top of mountain ridge
 bet. N. E. & S. W. - descend

28,00 Bottom of cañon, course
 S. W. & ascend

40,00 Hit a sandstone $16 \times$
 16×3 ins, 9 ins, in the
 ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on W face,
 and raised a mound
 of stone alongside.
 Pits impracticable.

51,00 Foot of Mountain
 Enter valley

80,00 Hit a limestone $28 \times$
 12×10 ins, 20 ins, in the

33
168

BOOK 1661

W. By S, 22, N, R, 1, W,

chains,

ground for cor. to Secs.
1, 6, 7, & 12, marked
with 1 notch on N,
& 5 notches on S, edges,
& raised a mound
of stone along side,
from which

A Cedar tree 5 ins. dia
brs, S. 68° E, 23 lks, marked
S, 22, N, R, 1, W, S, 7, B, T,

A Cedar tree 6 ins. dia,
brs, west 36 lks, marked
S, 22, N, R, 2, W, B, T,

No other trees within limits,

Surface mountainous

Soil 3rd rate

Thence scrubby cedar

No. Grass

W. By S. 22, N, R. 1, W.

chains,

Thence I run,
N. by E, sec. 1 x 6,
Var. $14^{\circ} 15' E$,

over mountain ridges

21,00 Descend abruptly

40,00 Hit a sandstone $14 \times$
 10×8 ins, 9 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face,
from which

A iron pipe 10 ins. dia,
brs, W. 23. lks, marked
 $\frac{1}{4} S, B, T.$

A iron pipe 9 ins. dia,
brs, S. $55^{\circ} E$, 25 lks,
marked $\frac{1}{4} S, B, T.$

51,00 Foot of mountain
Entered valley

80,00 Hit a limestone $28 \times 12 \times 10$

176

W. Big T., 22, N., R., 1 W.

hairs,

ins. 20 ins. in the
ground for cor. to
Tps 22 & 23, N., R. 1 & 2 W.,
marked with 6 holes
& raised a mound of ston along side,
on each edge, from
which

A Cedar tree 6 ins. dia,
trs. N. 6° W. 34 lks. marked
S, 23, N., R., 2 W., S. 36. B. T.

A Cedar tree 8 ins. dia,
trs. S. 87° E. 57 lks. marked
S, 22, N., R., 1 W., S. 6. B. T.

A Cedar tree 8 ins. dia,
trs. S. 40° W. 20 lks. marked
S, 22, N., R., 2 W., S. 1. B. T.

No other trees within limits.
Surface mountainous

Soil 2nd rate
dense scrubby oak

W. Ry J. 22. N. R. 1. W.

and buck brush
Grass Pools

Oct. 23, 1883,

Examined instrument
and solar apparatus
today & found them
correct. —

U. Ry. T. 22. N. R. 1. W.

chains

From the cor. to Tps
22 & 23 N. R's. 1 & 2 W,
just established by me,
I run east on a ran-
dom line, var. $14^{\circ} 08' E$,
set temporary half-mile
& mile cors, at each
40 & 80 chains, & at
5 miles 78 chains & 80
lks, intersect Principal
Meridian 38 lks. S. of
cor. to Tps. 22 & 23, N.
R's. 1. E. & 1. W, previously
described by me,
thence I run
 $S. 89^{\circ} 57' W$, on true line
bet sec's 1. & 36,
var. $14^{\circ} 08' E$,

4000 set a malpaid stone

N. By T. 22, N. R. 1. W.

chains.

12 x 10 x 6 ins, 8 ins. in the ground for $\frac{1}{4}$ 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,

8000

set a quartz stone 16 x 8 x 7 ins, 10 ins in the ground for cor. to Res. 1, 2, 35, & 36, marked with 1 notch on E, & 5 notches on W, edges & raised a mound of stone alongside, from which a Cedar tree 18 ins. dia, frs. N. 10° W. 74 lbs.

~~39~~
174

BOOK 1661

U. By T. 22, N. R. 1. W.

chain.

marked S, 23, N, R, 1, W, S. 35, B. T.

A Cedar tree 8 ins. dia.

frs. S, 28° E, 86 lks. marked

S, 22, N, R, 1, W, S. 1, B. T.

No other trees within limits

Surface rolling

Oil 1st rate

Heavy Cedar & Piñon

Good grass

Thence I run

S. 89° 57' W. on true line

bet. sec. 2, & 35-

var. 14° 08' E

2000 Cut in valley, drains N.

Ascend gradually

4000 at a malpais stone

16 x 10 x 6 ins. 10 ins. in

the ground for $\frac{1}{4}$ sec. cor.

N. By T, 22, N, R, 1, W,

chains,

marked $\frac{1}{4}$ on N. face & raised a mound of stone alongside, its impracticable. —

80,00

Set a marble stone $24 \times 12 \times 8$ ins, 18 ins, in the ground for cor, to

lines, 2, 3, 34, & 35, marked with 2 notches on E. & 4 notches on W. edges, & raised a

mound of stone alongside, from which a Cedar tree 12 ins, dia, brs S, 20° E, 68 lks.

Marked T, 22, N, R, 1, W, S, 2, B, 9, no other trees within limits.

Surface mountainous
Soil 3rd rate.

176

U. Ry S, 22 u. R, 1. W.

chains

Measure Cedar & Piñon
Grass fair,

Thence I run
S, 89° 57' W, on true line
bet. res, 3 & 34,
Var, 14° 08' E.

Ascend

4,000

at a mafais stone
12 x 10 x 7 in, 8 in, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
from which

A Piñon ¹⁰ 7 in, dia, brs.
N, 40° W, marked $\frac{1}{4}$ S, B, T.

A Cedar 5 in, dia
brs, S, 45° E, 16 lbs,
marked $\frac{1}{4}$ S, B, T.

4,900

Top of mountain, brs

U. By S. 22, N. R. 1, W.

trains,

N. & S. - descend.

8000

At a mark on stone
16 x 9 x 7 ins, 10 ins, in
the ground for cor. to sec,
3, 4, 33 & 34, marked
with 3 notches on E. & W.
edges, & raised a mound
of stone alongside, from
which a Cedar 10 ins, dia,
hrs, S. 20° E. 94 lks, marked
S. 22, N. R. 1, W. S. 3, B, T,

A Cedar 12 ins, dia, hrs,
N. 84° W. 61 lks, marked
S. 23, N. R. 1, W. S. 33, B, T,
no other trees within limits.

Surface mountainous

Soil 3rd rate

Heavy Cedar & Pines

Grass fair.

~~43~~
178
N. By S, 22 N. R. 1, W.

chains.

Thence I run
S. 89° 57' W. on true line
bet. sec. 4 & 33,

var. 14° 15' E,

8,000 Dry wash, course S.W.
40,000 Set a malpais along
16 x 10 x 8 ins. 10 ins. in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
from which

A Cedar 5 ins. dia. bro.
N. 45 lks, marked $\frac{1}{4}$ S. B. S.

A Pinon 4 ins. dia. bro.
S. 21° E. 62 lks, marked
 $\frac{1}{4}$ S. B. S.

70,000 Dry wash, 10 lks wide,
course S.

80,000 Set a limestone 18 x
12 x 4 ins. 12 ins. in

N. By S. 22, N. R. 1, W.

chain.

the ground for cor. to sec's,
4, 5, 32, & 33, marked
with 4 notches on E,
& 2 notches on W edges,
& raised a mound of
stone along side,
from which
A Cedar 18 ins. dia, brs. N, 68° E,
104 lbs, marked S, 23, N, R, 1, W, S, 33, B, S,
A Cedar 12 ins. dia, brs,
S, 65° W, 120 lbs, marked
S, 22, N, R, 1, W, S, 5, B, S,
no other trees within limits
Surface mountainous
Soil 3rd ^{rel} salt
dense cedar & Pinon
No Grass

~~45~~
180

N. By S. 22. N. R. 1. W.

chains,

Thence I run
S. 89° 57' W, on true line
bet. Secs. 5, & 32,
Var. 14° 15' E,

3000
40,00
Have valley, ascend
at a limestone 16x12x
7 ins, 10 ins, in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face,
& raised a mound
of stone alongside,
its impracticable,

80,00
at a sandstone 14x10
x6 ins, 9 ins, in the
ground for cor. to sec.
5, 6, 31, & 32, marked
with 5 notches on E,
& 1 notch on W. edges,
dug pits 18x18x12 ins,
in each sec. 5 $\frac{1}{2}$ ft

N. By T. 22, N. R. 1. W.

chain.

dist. & raised a mound
of earth 2 ft. high $4\frac{1}{2}$
ft. base along side,
Surface mountainous
Soil 3rd rate
Dense Cedar & Pinon
No. Grass

Thence I run
S. $89^{\circ} 57' W$, on true line
bet. Secs. 1 & 6, & 31
Var $14^{\circ} 15' E$.

Ascend

2000 Top of mountain, top,
N. & S. descend

4000 Put a sandstone $14 \times$
 8×5 ins, Pins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face

~~47~~
182

BOOK 1661

N. Ry 9, 22, N. R. 1, W.

chains,

from which

A Cedar tree 4 ins. dia.
trs. S. 38, links
marked $\frac{1}{4}$ S, B, D,

A Piñon tree 8 ins.
dia, trs. N. 15, W. 62 lks.
marked $\frac{1}{4}$ S, B, D,

78,00 Dry wash, 33 links wide,
course N. W.

Foot of mountain
trs. N. & S.

78,80 The cor. to Tps 22 &
23 N. R's 1 & 2, W.
previously established
by me.

Surface mountainous

Soil 3rd soil

Cedar & Piñon

No Grass

U. Ry S. 22. U. R. 1. W.

chains.

Oct., 24th 1883.

Examined instrument
& Solar Apparatus
today & found them
correct. —

~~187~~
184

BOOK 1661

W. By 5, 23, N. R. 1, W.

Chains.

From the cor. to sps. 22
& 23 N. R's. 1 & 2 W. pre-
viously established by
me, I run

N, bet a/c's, 31 & 36,
var. $14^{\circ} 15' E$.

68 Dry wash 22 lbs wide,
course N, W. - ascend. -

40,00 Hit a sandstone 20×18
 $\times 6$, 15 ins. in the ground
for $\frac{1}{4}$ a/c. cor, marked
 $\frac{1}{4}$ on W. face, & raised
a mound of stone
alongside. Pits in-
practicable,

55,00 Top of mountain ridge
brs. E. & W.

65,00 Descend into canon
Bottom of canon,

W. By S. 23. N. R. 1. W.

chains.

15,00

course S, W, - ascend
Top of wall of cañon
continue to ascend
gradually.

8000

Set a malpais stone
18 x 8 x 8 ins, 12 ins, in
the ground for cor,
to axes, 25, 30, 31 & 36,
marked with 5 notches
on N, & 1 notch on S,
edges, & raised a mound
of stone alongside,
from which

A Cedar 5 ins, dia, frs,
S, 72° E, 21 lbs. marked

S. 23. N. R. 1. W. S. 31. B. P.
No other trees within limits
Surface mountainous.

Soil 3rd rate, - dense cedar brush
& fallen timber. - Grass fair

186

W. By S. 23, N. R. 1, W.

chains

Fence I run
 N. bal. sec's, 25 & 30
 Var, $14^{\circ} 15' E$.

Ascend

22,00 Top of mountain, brs. E. & W.
 Descend

40,00: set a malpais stone
 $14 \times 10 \times 7$ ins. 9 ins. in
 the ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on W. face,
 & raised a mound
 of stone along side,
 pts. impracticable.

80,00 set a sandstone $24 \times$
 9×5 ins. 18 ins. in the
 ground for cor. to sec's
 19, 24, 25 & 30, marked
 with 4 nolets on N,
 & 2 nolets on S. edges

52
189

W. By T, 23, N, R, 1, W.

chains.

7 raised a mound
of stone alongside
from which

A Cedar 7 ins. dia, brs,
S, 45° E, 30 lks, marked
T, 23, N, R, 1, W, S, 30 B, 9,

A Cedar 12 ins. dia, brs,
N, 45° W, 22 lks, marked
T, 23, N, R, 2, W, S, 24, B, 9,
no other trees within
limits

Surface mountainous

Dail 3rd rate

Heavy cedar & buck brush
Grass fair.

Thence I run

N. lat. sec's, 19 & 24

Var, $14^{\circ} 15' E$,

53
x 88
1988

W. Big I, 23. N, R. 1. W.

chains,

18,30 Dry wash 25 lks, wide
course N.W.

40,00 Set a limestone 16x
12x10 ins, 10 ins, in
the ground for 1/4 sec. cor,
marked 1/4 on W. face,
& raised a mound of
stone alongside
Pits impracticable.

80,00 Set a sandstone 24
x10x8 ins, 15 ins, in the
ground for cor, to sec's,
13, 18, 19, & 24, marked
with 3 nolets on N.
& S. edges, & raised
a mound of stone
alongside. Pits
impracticable
Surface rolling

W. Big T, 23, N, R, 1, W.

chains.

Boil 2nd oak -
 please cedar & buck-
 touch.

Thence I run,
 N, bet. rec's 13 x 18,
 var, 14° 15' E,

23,50

dry wash, course W.

40,00

Set a limestone 16 x 7 x 6
 ins, 10 ins, in the ground
 for $\frac{1}{4}$ sec. cor, marked
 $\frac{1}{4}$ on W, face, from
 which a cedar 7 ins, dia,
 br. S, 45° E, 23 lks, marked $\frac{1}{4}$ S, B, 9,
 a cedar 8 ins, dia, br. S, 40
 W, 114 lks, marked $\frac{1}{4}$ S, B, 9.

80,00

Set a limestone 18 x 9
 x 6 ins, 12 ins, in the
 ground for cor, to rec's.

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BOOK 1661

W. Big P, 23, N, R. 1, W.

c chains,

7, 12, 13, & 18, marked
 with 2 notches on N. &
 4 notches on S. edges,
 & raised a mound of
 stone alongside, from which
 A cedar 7 ins. dia, brs. N.
 45° E, 126 lks, marked
 S, 23, N, R, 1, W, S, 7, B, P.
 A Cedar 24 ins. dia brs.
 S, 46° W, 117 lks. marked
 S, 23, N, R, 2, W, S 13, B P,
 No other trees within limits,
 Surface mountainous
 Soil 2nd val-
 lease Cedar -
 Grass fair

Thence I run
 N. bet. trees, 7 & 12

W. By T. 23. N. R. 1. W.

chains.

Var, $14^{\circ} 15' E$,

4000

Set a limestone $22 \times 12 \times 4$ ins, 16 ins, in the ground for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on W. face, from which

A Piton 4 ins, dia, brs S, $40^{\circ} E$. 13 lks, marked $\frac{1}{4}$ S, B, T,

A Piton 4 ins, dia, brs N, 45° W, 6 lks, marked $\frac{1}{4}$ S, B, T,

5500

Dry wash, 20 lks, wide course S. W.

8000

Set a limestone $12 \times 11 \times 7$ ins, 8 ins, in the ground for cor. to sec'y 1, 6, 7, & 12, marked with 4 nolets on N, & 5 nolets on S. edges, & raised a mound of stone alongside.

57.192

W. Big T. 23. N. R. 1. W.

chains,

from which
 a Cedar 4 ins. dia. brs
 S. 30° W. marked S, 23.
 N. R. 2. W. S, 12, 13, 9,
 no other trees within limits
 Surface mountainous
 Soil 2nd rate
 dense undergrowth
 Grass poor,

Thence I run
 N. bet. sec's, 1 x 6
 var, 14° 15' E

through dead timber
 Enter green timber
 Hit a limestone 18 x 10 x 7
 ins, 12 ins, in the ground
 for $\frac{1}{4}$ sec. cor, marked
 $\frac{1}{4}$ on W. face. from

3800
 4000

W. By S, 23, N. R, 1, W.

chains

which

A Cedar 8 ins, dia, brs, S, 48°
E, 87 lks, marked $\frac{1}{4}$ S, B, T,

A Cedar 6 ins, dia, brs W,
22 lks, marked $\frac{1}{4}$ S, B, T,

000 Set a limestone 14 x 12
x 8 ins, 9 ins, in the ground
for cor. to Sps 23 x 24 N,
R, 1 x 2 W, marked with

6 notches on each edge,
from which

A Cedar 8 ins, dia, brs, N,
48° E, 42 lks, marked
S, 24 N, R, 1, W, S, 31, B, T,

A Cedar 14 ins, dia, brs
S, 30° E, 18 lks, marked
S, 23, N, R, 1, W, S, 6, B, T,

A Cedar 12 ins, dia, brs,
S, 45° W, 49 lks, marked

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W. Big T, 23, N, R, 1, W,

S. 23, N, R, 2, W, S, 1, B, T,
A Cedar 8 ins dia, 6 ft,
N, 46° W, 88 lbs, marked

S. 24 N, R, 2 W, S, 36, B, T,

Surface rolling
Soil 3rd rate
Heavy cedar brush
Grass poor

Oct, 25th, 1883,

U. By T. 23 U. R. 1, W.

chains

From the cor. to Tps 23
 & 24 U. R's, 1 & 2 W, just
 established by me, I
 run east on a random
 line, var. $14^{\circ} 05' E$, -
 set temporary half-mile
 & mile corners at each
 40 & 80 chains, & at
 5 miles 78 chains & 84 lks,
 intersect Principal
 Meridian 112 lks. N. of
 cor. to Tps 23 & 24 U.
 R's 1 E. & 1. W, previously
 described by me,
 thence I run
 $N. 89^{\circ} 52' W$, on true line
 bet. acs 1 & 36,
 var. $14^{\circ} 05' E$.
 Descend.

4,00

U. By T. 23, U. R. 1, W.

- Chains.
- 23,33 Dry wash 20 lks, wide course S, W, ascend
 - 37,00 Top of mountain ridge frs, N, E, & S, W, - descend
 - 40,00 at a sandstone 18 x 14 x 6 ins, 12 ins, in the ground for $\frac{1}{4}$ sec, cor, marked $\frac{1}{4}$ on N. face, from which.
 A Piton 6 ins, dia, frs, N, 34 lks, marked $\frac{1}{4}$ S, B, T.
 A Piton 8 ins, dia, frs, S, 10° W, 74 lks, marked $\frac{1}{4}$ S, B, T.
 - 43,68 Dry wash 28 lks wide course S, W, - ascend
 - 50,00 Top of mountain ridge frs, N, E, & S, W, descend
 - 80,00 at a limestone 16 x 10 x 4 ins, 10 ins, in the

U, By S, 23, N, R, 1, W,

chains.

Ground for cor. to trees,
1, 2, 35 & 36, marked
with 1 notch on E, and
5 notches on W, edges &
raised a mound of
stone alongside,
from which

A Piton 7, ins, dia, brs,
S, 45° E, 15 lks, marked
S, 23, U, R, 1, W, S, 1, B, T,

A Piton 4 ins, dia, brs,
U, 10° E, 25 lks, marked
S, 24, U, R, 1, W, S, 36, B, T,
No other trees within limits.

Surface mountainous
Soil 4th rate

Bluish Cedar & Piton

to 11 198
 N. N. Big J. 23, N. R. 1. W.

chains

2'

Thence I run
 N. 89° 52' W. on true line
 bet. sec's. 2 & 35,
 bar, 14° 05' E,

4 4000

at a limestone 12 x
 10 x 6 ins. 8 ins. in the
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on N. face
 & raised a mound
 of stone alongside,
 its impracticable

6000

8000

Enter valley, Near Cedar

at a limestone 18 x 14
 x 8 ins. 12 ins. in the

ground for cor. to sec's

4'

50

2, 3, 34 & 35, marked

with 2 notches on E

80

& 4 notches on W. edge

& raised a mound

N. By S, 23, N, R, 1, W,

chain,

of stone alongside
 pits impracticable
 surface mountainous
 Soil 2nd & 3rd rate
 yellow Cedar 1st 60 lbs,
 Grass fair

Thence I run
 N. 89° 52' W. on true line
 bet. Res. 3, & 34
 Var. 14° 05' E

4000 at a post - 3 ft, long 3 ins,
 square with marked stone
 12 ins. in the ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S.
 on N. face, dig pits 18 x
 18 x 12 ins. E x W. of post
 5 $\frac{1}{2}$ ft. dist. & raised a
 mound of earth 1 $\frac{1}{2}$ ft.

U. U. Ry. S. 23, U. R. 1. W.

chains.

2 high, $3\frac{1}{2}$ ft, base around post,

2 80.00 set a malpais along $14 \times 10 \times 6$ ins. 9 ins. in the

4 ground for, cor. to sec's, 3, 4, 33, & 34, marked with 3 nails on E, & W, 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.

1 Surface level

Soil 1st rate

Scattering Cedar

Grass good

U. Big T, 23, N. R, 1. W,

chains.

Thence I run
N. $89^{\circ} 52' W$, on true line
bet. sec's, 4 & 33,
Dist. $14^{\circ} 05' E$

32,00 Dry wash 20 lks wide
course W,

38,79 Near wash, course S. W,

40,000 Det a sandstone $12 \times 8 \times 6$
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 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,

42,30 Near valley, E. side
hills & timber

80,000 Det a sandstone $18 \times 8 \times 6$ ins

202

N. Ry J, 23. N. R. 1 W,

chains,

12 ins. in the ground
 for. cor. to sec's 4, 5, 32, & 33
 marked with 4 notetags
 on E, & 2 notetags on W,
 edges, dug pits 18x18x
 12 ins. in each sec,
 5½ ft. dist. & raised
 a mound of earth
 2 ft. high, 4½ ft. base
 alongside.

Surface rolling
 Soil 1st & 2nd rates
 scattering cedar
 and Pinon.
 Grass fair for sheep.

Thence I run
 N. 89° 52' W, on true line
 bet. sec. 5 & 32,

U. Ry T, 23. N. R. 1. W.

drains.

bar, $14^{\circ} 15' E$,

12,000 Enter valley, drains W,

24,000 leave valley, ascend mountain

40,000 Hit a limestone $12 \times 10 \times$
6 ins, 8 ins, in the ground
for $\frac{1}{4}$ sec. cor, marked
 $\frac{1}{4}$ on N. face, & raised
a mound of stone
alongside. Pits in-
practicable.

80,000 A cedar tree 16 ins. dia,
for cor. to sec, 5, 6, 31 + 32,
marked

S. 24 N, S. 32, on N. E,

R. 1, W. S. 5, on S. E,

S. 6, on S. W, and

S. 31 on N. W, faces,
with 5 notches on E. & 1
notch on W. edges,

U. Ry S, 23. U. R. 1, W.

chains

from which

A Cedar 8 ins. dia, brs,
S. 30° W, 12 lks, marked

S, 23, U, R, 1, W, S, 6, B, S,

A Cedar 12 ins. dia, brs,
U, 28° W, 24 lks, marked

S, 24, U, R, 1, W, S, 31, B, S,

A Piñon 6 ins. dia, brs,
U, 42° E, 18 lks, marked

S, 24, U, R, 1, W, S, 32, B, S,

A Cedar 12 ins. dia, brs,
S, 7° E, 34 lks, marked

S, 23, U, R, 1, W, S, 5, B, S,

Surface mountainous

Dial 2nd val

Measure Cedar & Piñon

Grass fair

thence I run

U. $89^{\circ} 52'$ W, on true line

N, Big T, 23, N, R. 1, W,

chains

bet. sec's, 6 & 31,

Var, $14^{\circ} 15' E$,

10,000 Top. Mountain brs, N & S, descent

30,000 Ravine course N, W,

40,000 Set a limestone 18×12
 $\times 10$ ins, 12 ins, in the
 ground for $\frac{1}{4}$ sec, cor,
 marked $\frac{1}{4}$ on N. face,
 from which,

A Cedar 6 ins, dia brs,
 $S, 45^{\circ} E, 87$ links,

Marked $\frac{1}{4} S, B, G,$

A Cedar 6 ins, dia
 brs N, $30^{\circ} W, 50$ lks,

Marked $\frac{1}{4} S, B, G,$

78,84

The cor. to obs 23 &
 24 N, R's, 1 & 2, W,

previously established
 by me.

276
 U. Ry T. 23, U. R. 1. W.

Surface falling
 Soil 3rd row
 Cedar timber
 Grass poor,

Oct, 25, 1883,

Examined instrument
 and solar apparatus
 18 days & found them
 correct,

W. by S. 21 N. R. 2. W

chain

From the standard cor.
to Sps. 21, N. R. 2, & 3 W
on 5th standard N,
previously established
by me, J. W.,
N. bet. sec. 31 & 36,

var. $14^{\circ} 05' E$,

31.00 Ravine, course N. E.,
40.00 Hit a limestone $16 \times 8 \times 5$
ins, 11 ins, in the ground
for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face, dug pits
 $18 \times 18 \times 12$ ins, N. & 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,
from which a cedar
8 ins. dia. br's S, $41^{\circ} W$.

W. by S. 21 N, R. 2. W

chain

41 lks, marked $\frac{1}{4}$ S, B, P,

A cedar 4 ins, dia, brs,

N. 87° E, 42 lks, marked $\frac{1}{4}$ S, B, P,

8000 At a post 4 ft. long 4 ins

square, with marked
along 12 ins, in its

ground for cor. to acs,

25, 30, 31, & 36, marked

S, 21 N, S, 30, on N, E,

R, 2, W, S, 31, on S, E,

S, 36 on S, W and

S, 25 on N, W, faces with

1 notch on S, & 5 notches

on N, edges, from which

A cedar 10 ins, dia, brs,

S, 45° W, 283 lks, marked

S, 21 N, R, 3. W, S, 36, B, P,

A cedar 6 ins, dia, brs,

N. 5° W, 53 lks, marked

W. Ry 9, 21, N, R, 2, W,

chain

T, 21, N, R, 3, W, S, 25, B, S,
 no other trees within limits
 Surface rolling
 Soil 3rd val -
 Heavy Cedar brush
 Good Grass

N. bet. sec, 25 & 30

var, $14^{\circ} 05' E$,

4006

Set a nail in stone
 $18 \times 10 \times 4$ ins, 12 ins, in
 the ground for $\frac{1}{4}$ sec, cor.
 marked $\frac{1}{4}$ on W. face &
 raised a mound of
 stone alongside,
 from which a cedar 6
 ins, dia, brs, S, $87^{\circ} E$ 52 lks,
 marked $\frac{1}{4}$ S, B, S.
 A cedar 14 ins, dia, brs

#5
2/10

W. Big T. 21, N. R. 2, W.

chains,

N. 40° W, 32 lks. marked
to S. B. G.

Spoo

Set a malpais about
14 x 10 x 5 ins, 9 ins, in
the ground for cor. to
accs, 19, 24, 25 & 30.

marked with 2 nolets
on S, & 4 nolets on N,
edges, & raised a
mound of stones along
sides, from which

A cedar 12 ins, dia, frs.
S. 44° W, 185 lks, marked
S. 21, N. R. 3, W. S. 25, B. G.

A cedar 8 ins, dia, frs, N.
40° W, 32 lks, marked
S. 21, N. R. 3, W. S. 24, B. G.

no other trees within limits

Surface rolling

W. By S. 21, N. R. 2, W.

chain

Dial 2nd rate
Klyen Cedar brush
Wood Grass

N. bet. Secs. 19 & 24,
Cor. 14° 05' E.

40.00 set a malpais stone
16x8x5 ins, 11 ins, in
the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face, &
raised a mound of
stone alongside.

42.00 Pits impracticable
dry wash 80 ft, wide
course N. W.

50.00 set a malpais stone
16x10x4 ins, 11 ins, in
the ground for cor. to
secs. 13, 18, 19 & 24.

#1
21²

W. Big S. 21, N, R, 2, W,

chains

marked with 3 nails
on S, & N. edges, &
raised a mound of
stone alongside,
from which

A cedar 10 ins, dia, bcs,
N, 45° E, 66, lks. marked
S, 21, N, R, 2, W, S, 18, 13 S.

A cedar 8 ins, dia, bcs,
S, 40° E, 140 lks, marked
S, 21, N, R, 2, W, S, 19, 13 S.

no other trees within limits

Surface rotting

Soil 3" ^m rats

Heavy Cedar brush

Grass fair

N. brk. sees, 13 x 18

var, 14° 05' E,

W. By S. 21, N. R. 2, W.

claw,

1890 Partridge creek 3 chs. wide,
course S, W,

4000 Set a malpais about
12 x 10 x 9 ins, 8 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 along side, from
which a cedar 6 ins, dia
bas, S. 45° W, 169 lbs,
marked $\frac{1}{4}$ S, B, G.

No other trees within limits,

8000 Set a limestone 14 x 12
x 3 ins, 9 ins, in the ground
for cor. to sec, 7, 12, 13 &
18, marked with 2 notches

79
21.4
W. By S, 21, N, R, 2, W,

chains,

on N, + 4 noletus on S,
edges, dug pits 18x15x12
ins, in each sec. 5½ ft.
dist; & raised a mound
of earth 2 ft. high
4½ ft. base along side
from which a cedar
8 ins, dia, brs, N, 24° W, 90 lks,
marked S, 21, N, R, 3, W, S, 12, B, 6,
a cedar 7 ins, dia, brs, N,
48° E, 122 lks, marked
S, 21, N, R, 2, W, S, 7, B, 9.
no other trees within limits
Surface level
Soil 2nd rate
Scattering cedar brush
Grass & Sage

N. Ry S. 21 N. R. 2. W.

chains

N. bet. sec. 7 & 12,

var. $14^{\circ} 05' E$,

2,00

Enter scattering cedar

4000

Set a malpais stone $10 \times 10 \times 6$ ins, 6 ins, in the ground for $\frac{1}{4}$ sec. cor.

marked $\frac{1}{4}$ on W. face, dug pits $18 \times 18 \times 12$ ins, N. & 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,

1624

A. & P. R. R. trs, N $77^{\circ} 08' W$ & S, $77^{\circ} 08' E$,

8006

Set a limestone $18 \times 14 \times 5$ ins, 12 ins, in the ground for cor. to sec. 1, 6, 7 & 12, marked with one notch on N.

W. By S, 21 N, R, 2, W

Cham.

5 mounds on S. edges,
 dug pits 18 x 15 x 12 ins.
 in each one, 5½ ft. dist
 & raised a mound of
 earth 2 ft. high, 4½
 ft. base along each
 surface level
 Soil 2nd rate
 scattering cedar
 grass fair

N, bet. sec. 1 & 6,
 Var. 14° 05' E,

13,000 Wagon road from Ash
 Fork to Chino Valley
 trs. E & W,

40,000 set a malford stone
 12 x 11 x 5 ins, 8 ins. in
 the ground for ¼ sec. cor

H. Big 5, 21, N, R, 2, W.

hairs,

marked $\frac{1}{4}$ on W. face, & raised a mound of stone alongside.

Pits impracticable,

5000

Set a limestone $20 \times 12 \times 3$ ins, 15 ins, in

the ground for cor. to

pts 21 & 2 N, R's 2 & 3

W, marked with 6

notches on each edge,

dug pits $24 \times 18 \times 12$ ins,

lengthwise on each

line N, S, E & W, of stone

6 ft. dist, & raised a

mound of earth $2\frac{1}{2}$ ft,

high, 5 ft. base alongside,

Surface level, Soil $3\frac{1}{2}$ m

Realigning Cedar

Grass poor

N, Big S, 21, N, R, 2, W,

chains

From cor. to ohs. 21 +
22 N, R's 2 + 3, W,
just-established by
me, I run $\frac{1}{2}$ on a
random line ^{Var. $14^{\circ} 15' E$} at
temporary half-mile &
mile corners at each
40 x 80 chs, & at 5 miles
79 chs, & 15 lks. Interest-
Range line 114 lks. N.
of cor. to ohs 21 + 22 N,
R's 1 + 2 W, previously
established by me,
thence I run,

N. $89^{\circ} 52' W$, on main
line bet. 2001, 1 + 36

Var. $14^{\circ} 15' E$

4000 Put a malpais stone
12 x 7 x 7 in, 8 in, in the

N, By T, 2, N, R, 2, W.

chain,

ground for $\frac{1}{4}$ ac. cor,
 marked $\frac{1}{4}$ on N. face,
 dug pits 18x18x12 ins, C¹ &
 W. of stone $5\frac{1}{2}$ ft. dist, &
 raised a mound of
 earth $1\frac{1}{2}$ ft. high $2\frac{1}{2}$
 ft. base along side
 43, 36 A. & P. R. R. by N. 71° E. &
 S. 71° W.

8000

Set a malpai stone
 15x8x7 ins, 10 ins, in the
 ground for cor. to Aes,
 1, 2, 35 & 36, marked
 with 1 notch on C¹ &
 5 notches on W. edge,
 dug pits 18x18x12 ins,
 in each cor. $5\frac{1}{2}$ ft. dist -
 & raised a mound
 of earth 2 ft. high

N. By S. 2, N. R. 2, W.

Chairs.

4 1/2 ft. base alongside
from which a cedar
7 ins. dia, hrs. S, 43, W,
146 lks, marked
S, 21, N, R, 2, W, S, 2, B. S.
No other trees within limits

Surface rolling

Sail 2nd rail

Dense scrubby cedar
& juniper,

Grass fair

N. 89° 52' W, on true
line bet. res 2 x 35,
bar 14° 15' E.

4000 Set a malfair stone
15 x 8 x 7 ins, 10 ins, in the
ground for 1/4 sec. cor.
marked 1/4 on N. face

N. Big I, 21, N, R. 2, W.

chains

- & raised a mound of
 stone alongside
 from which a cedar
 8 ins. dia, trs S, 15 lks,
 marked $\frac{1}{4}$ S, B, G,
 A juniper 7 ins. dia, trs
 N, 50 lks, marked $\frac{1}{4}$ S, B, G,
 58.00 Foot of ridge, trs, N, E, S,
 59.26 Dry wash, 90 lks, wide
 corner W,
 63.04 Road trs, N, E, & S, W,
 78.35 " " N, & S,
 80.00 Set a malpais about
 16 x 8 x 5 ins, 11 ins. in
 the ground for cor. to res
 2, 3, 34 & 35, marked
 with 2 nails on E, &
 4 nails on W. edges,
 & raised a mound of

N. Ry

S. 21, N. R. V. W.

Chairs.

Stone alongside,
from which a cedar
8 in. dia. brs, N, 15° E,
199 lks, marked

S, 22, N, R, 2, W, S, 35, B, 9,

A Juniper 7 in. dia. brs,
S, 64° E, 128 lks, marked

S, 21, N, R, 2, W, S, 2, B, 9,

No other trees within limits

Surface rolling

Soil 2nd val

Scattering cedar and

Juniper

Chairs fair

N. 89° 52' W, on tree line
but, sees, 3 x 34

bar, 14° 15' E,

Here end

N. Big

S. 21. N. R. 2. W.

Lenses.

12.34 Dry wash 20 lks, wide
course S,

29.43 Road, trs, N. & S.

38.90 Dry wash 18 lks wide
course S. W. in rocky
cañon 20 ft, deep40.00 Put a malpais stone
12 x 11 x 6 ins, 8 ins, in
the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face
& raised a mound
of stone alongside,
its impracticable43.70 Road, trs, N. & S,
8000 ft a
Malpais 15 x 9 x 7 ins,
10 ins, in the ground
for cor. to sec. $\frac{3}{2}$, $\frac{4}{3}$, $\frac{3}{3}$
& 34 marked with
3 notches on E. & N.

N. Big

T. 21, N. R. 2, W.

Chains

edges, & raised a
mound of stone
alongside, Pits im-
practicable,

Surface rolling
Doll 2nd rail

Scattering cedar
grass fair

N. 89° 52' W. on true line
bet, sec, 4 & 33,
var, 14° 15' E,

4000 Put a malpais stone
12x12x5 ins, 8 ins, in
the ground for $\frac{1}{4}$ sec,
cov, marked $\frac{1}{4}$ on N.
face, dug pits 18x18x
12 ins E & W, of stone
5 $\frac{1}{2}$ ft. dist, & raised

N. By 9, 21, N, R, 2, W.

hairs.

8000

a mound of earth
 $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base
 alongside,
 set a malpais stone
 $12 \times 12 \times 7$ ins, 8 ins, in
 the ground for cor to
 Secs, 4, 5, 32, & 33,
 marked with 4 notches
 on E. & 2 notches on W,
 edges, dug pits $18 \times 18 \times$
 12 ins, in each sec,
 $5\frac{1}{2}$ ft. dist., & raised
 a mound of earth
 $2\frac{1}{2}$ ft. high, $4\frac{1}{2}$ ft.,
 base alongside,
 from which a
 cedar 8 ins. dia, brs,
 N. 45° E, 44 lks, marked
 S, 22, N, R, 2, W, S, 33, B, 9.

N. By S. 2, N. R. 2, W.

Chain

A cedar 6 ins, dia, brs.
S. 10° W, 17 lks, marked
S. 21 N, R. 2, W. S. 5, B. 9,

A cedar 4 ins, dia, brs.
N. 87° W, 63 lks, marked
S. 22, N. R. 2, W. S. 32, B. 5,

No other trees within limits,

Surface rolling

Soil 1st rate

Logging cedar

Good grass

N. 89° 52' W, on true line
bet. eas. 5 x 32,
Var. 14° 15' E,

6,600 Any wash 15 lks, wide
course S. E.

40,000 Put a mapaid stone
12 x 11 x 5 ins. 8 ins. in

N. By T. 21, N, R. 2, W.

chains.

the ground for $\frac{1}{4}$ ac. cor.
marked $\frac{1}{4}$ on N. face &
raised a mound of
stone alongside
from which a cedar
8 ins. dia. brs, S, 56 lks,
marked $\frac{1}{4}$ S, B, T,

no other trees within limit

80,00

Set a maple stone,
14x10x7 ins, 8 ins, in the
ground for cor. to sec,
5, 6, 31, & 32, marked
with 5 nolets on E. &
1 nolet on W. edges,
& raised a mound
of stone alongside,
Pits impracticable
Surface rolling
@ rail 3rd rate

73
228

N. by S. 21; N. R. 2, W.

chains

Dense Cedar
Grass. Good.

N, 89° 52' W, on true line
bet. sec, 6 & 31,
Var, 14° 65' E,

40.00

Set a malfais stone
12 x 10 x 8 ins, 8 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
& raised a mound

~~of stone alongside,~~
from which a cedar

12 ins, dia, brs. N, 22°
E, 61 lks, marked $\frac{1}{4}$ S, B, B,

A cedar 7 in, dia, brs, S, 88°
E, 55 lks, marked $\frac{1}{4}$ S, B, B

46.00

Top of bluff, brs, N, W, & S, E,

55.00

Foot of bluff " " " " " "

N. by θ , 21, N, R, 2, W,

chains

7,00 Dry creek bed, 2 chs, wide
course S, E,

65,00 Lava @ canon, br S, E,

79,15 Cor. to θ 's 21 & 22, N,
Rb 2 & 3, W,

Surface broken & moun-
tainous,

Sail 3rd rate

brass fair

Oct, 29, 1883,

Examined & carefully
tested instrument &
solar apparatus to-
day & found them
correct.

46
230

W. by S. 22, N. R. 2, W.

chain

From the cor. to Sps 21 +
22, N. R's. 2 + 3, W. previ-
ously established by
me I run

N, lat. sec. 31 + 36
var. 14° 15' E,

Ascending

40.00

Set a malpais stone
12 x 12 x 6 ins. 8 ins. in
the ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face,
& raised a mound
of stone along side.
Pits impracticable

40.43

Cedar 6 prongs on line
69.00 blued along right
bank of canon

80.00

Set a malpais stone
18 x 18 x 4 ins. 12 ins. in

6

W. Big G. 22, N. R. 2, W.

Chains

the ground for cor. 6
 aces, 25, 30, 31 & 36
 marked with 1 nolet
 on S. & 5 nolets on N
 edges, & raised a
 mound of stone along
 side. Pits unpracticable
 Surface mountainous
 Soil 3rd val
 Reabring Cedar brush
 Good grass

N. bet. aces. 25 & 30
 var. 14° 15' E.

Ascending

50 West fork of cañon
 course E. Ascend along
 west side of cañon
 4000 at a malpais stone

47
232

W, By S, 22, N, R, 2, W.

Chairs.

15x11x6 in, 10 in, in
the ground for 4 sec, cor,
marked 4 on W. face, &
raised a mound of
stone alongside,
from which a cedar
4 in. dia, br, E, 62 lbs,
marked 4 S, B, S, no other trees
Head of canon 2 lbs
E. of line.

limits
within

50.00

Set a malpais
stone 18x12x6 in, 12
in in the ground
for cor, to Res, 19, 24,
25 & 30, marked with
4 notches on N, & 2
notches on S edges, &
raised a mound
of stone alongside
Pits impracticable,

W. By P. 22, N. R. 2, W.

chains

Surface rolling
Soil 3rd rate
Good Grass

N. lat, sec, 19 + 24
Var, 14° 15' E,

Ascending

4000

Set a maphis stone
10x8x7 ins, 6 ins, in the
ground for $\frac{1}{4}$ sec, cor,
marked $\frac{1}{4}$ on W. face
& raised a mound of
stone alongside

Pits impracticable

8000

Set a maphis stone
14x12x4 ins, 9 ins, in
the ground for cor, 6,
sec, 13, 18, 19 + 24,
marked with 3 notches

W, By S, 22, N, R, 2, W.

Chains

on N, & S, edges, & raised
a mound of stone
alongside, Pits in -
practicable

Surface mountainous
Soil 3rd rate
Good Grass

N. but, seas, 13 & 18,
bar, 14° 15' E.

29,00

Top of butte 200 ft, high,
descend off N, side

40,00

Set a marker about
15 x 12 x 8 ins, 10 ins, in
the ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face, &
raised a mound of
stone alongside,
Pits impracticable

W. By 8, 22, N. R, 2, W.

chains

54.00

Foot of Butte
thence over mountain
ridges

80.00

Set a malpais stone
18x10x8 ins, 12 ins, in
the ground for cor. to
secs. 7, 12, 13 & 18, marked
with 2 notches on N, &
4 notches on S. edges, &
raised a mound of
stone alongside, from
which a cedar 10 ins,
dia. br; N, 34°W, 171 lbs
marked S, 22. R, 3, W, S, 12, B, 9.
No other trees within limits

Surface mountains
Soil 3rd rate

W, By S. 22, N, R, 2, W.

chains

N. bet. sec. 7 & 12
var. 14° 15' 8"

5,000
4,000

Set a *malpais* stone
16 x 10 x 8 ins, 11 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face &
raised a mound of
stone alongside, from
which a cedar 12 ins, dia,
br, S. 60° 6', 66 links

8,000

marked $\frac{1}{4}$ S. B. 9
^{no other notes within limits}
Set a *malpais* stone
14 x 10 x 6 ins, 9 ins, in the
ground for cor. to sec.
1, 6, 7 & 12, marked
with 1 nolet on N,
& 5 nolets on S. edges,
& raised a mound

W. Big S, 22, N, R, 2, W,

hairs,

of stone along side
 pits impracticable on
 surface rolling
 Soil 2nd rate
 Blue Juniper & Cedar
 Good Grass

N. lat, sea, 1 x 6,
 bear. 14° 15' E,

4000 ft a marble stone
 12 x 10 x 4 ins, 8 ins, in the
 ground for $\frac{1}{4}$ sea con
 marked $\frac{1}{4}$ on W. face,
 & raised a mound
~~of stone along side,~~
 from which

A cedar 24 ins, dia, brs N, 75°
 E, 27 lks, marked $\frac{1}{4}$ S, B, S,
 A cedar 7 ins, dia, brs, N, 68° W,

W, Big. T. 22, N, R, 2, W.

chain.

5000 Bolks, marked $\frac{1}{4}$ S, B, T,
 at a malpais
 stone 16 x 12 x 4 ins,
 11 ins in the ground
 for cor, to S, 22 x
 23, N, R's 2 x 3 W,
 marked with 6 notches
 on each edge, &
 raised a mound
 of stone along side
 from which
 a cedar 12 ins, dia, brs,
 N. 64° E, 175 lks, marked
 S, 23 N, R, 2, W, S, 31, B, T,
 A cedar 10 ins, dia, brs,
 N. 31° W, 109 lks, marked
 S, 23 N, R, 3, W, S, 36, B, T,
 no other trees within limit
 surface rolling
 Soil 2nd rate

W. By P. 22, N. R. 2, W.

hairs,

Nurse Cedar and
Juniper
Good Grass

Dec. 30, 1883

Examined & carefully
tested instrument and
solar apparatus today
and found them correct.

105
240

N. Ry. 22 N. R. 2, W.

chain

From the cor. to Tps,
22 + 23 N, R. 2, + 3, W,
just established by
me, I run E, on a
random line, bearing
14° 15' E, - I set temporary
corners at each 408
80 chs, & at 5 miles.
79 chs, + 10 lks, intersect
Range line 160 lks,
S. of cor. to Tps 22 + 23
N, R's. 1 + 2, W, pre-
viously established
by me.

thence I run
S. 89° 49' W, on true line
bet. sec 1 + 36, ^{now 14° 03' E}

over broken surface
across a limestone

4000

N. Big P. 22, N. R. 2, W.

rais,

50,00

12 x 10 x 6 ins, 8 ins, in
the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face,
from which a juniper
12 ins dia, brs, N. 35° W
66 lks, marked $\frac{1}{4}$ S, B, P,
A. Union, 6 ins, dia, brs, S,
40° W, 34 lks, marked $\frac{1}{4}$ S, B, P,
Set a marker along
12 x 10 x 6 ins, 8 ins, in the
ground for cor. to bees,
1, 2, 3, 5, + 36, marked
with 1 notch on E, +
5 notches on W. edges, +
raised a mound of
stone along side,
from which
a cedar 8 ins, dia, brs
S, 10° E, 165, lks, marked

10
242

N. By S. 22, N. R. 2, W.

chain

S. 22, N. R. 2, W. S. 1, B. S.
 A cedar 6 ins. dia, 600,
 N. 45° W, 194 lks. marked
 S. 23, N. R. 2, W. S. 35, B. S.
 No other trees within limits
 surface broken
 Soil 3rd rate
 A gathering Juniper
 grass good

S. 89° 49' W. on tree line
 bet. sec. 2, & 35,
 var. 1405' E.

Through scrubby Juniper
 4000 ft a sandstone 18 x
 8 x 6 ins, 12 ins, in the
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on N. face,
 from which a Juniper

N. Big P. 22, R. 2, W.

reins

24 ins, dia, trs, N. 5° W,
 Coalks, marked $\frac{1}{4}$ S, B, G,
 a Juniper 6 ins, dia, trs,
 S. 10° E. 137 lks, marked
 $\frac{1}{4}$ S, B, G. -

5000

Set a sandstone 24 x
 16 x 3 ins, 18 ins, in the
 ground for cor. to res,
 2, 3, 34 & 35, marked
 with 2 notches on E,
 & 4 notches on W, edges
 & raised a mound
 of stone along side,
 this impracticable
 surface broken
 & dirt 3rd rail-
 grass good
 scrubby Juniper

401
244

N. Big G. 22, N. R. 2, W.

chain

S. $89^{\circ}49'$ W, on true line
but, sees, 3 + 34,
var, $14^{\circ}05'$ E,

over rolling table land

4000

Set a malpais along
 $10 \times 8 \times 7$ ins, 6 ins, in the
ground for $\frac{1}{4}$ sec, cor,
marked $\frac{1}{4}$ on N. face, &
raised a mound of
stone along side
Pits impracticable

8000

Set a malpais along
 $14 \times 12 \times 5$ ins, 9 ins, in the
ground for cor, to see
3, 4, 33 + 34, marked
with 3 nails on E. &
W. edges, dug pits
 $18 \times 18 \times 12$ ins in each
see, $5\frac{1}{2}$ ft. dist, +

N. Big T. 22, N. R. 2, W.

chains

raised a mound of
earth 2¹/₂ ft, high ¹/₂
ft, base along side
a Juniper 24 ins, dia, trs,
S. 75° E, 78 lks, marked
S, 22, N. R. 2, W, S, 3, B, 9,
a Juniper 10 ins, dia, trs,
trs, N. 45° E, 78 lks, marked
S, 23, N. R. 2, W, S, 34, B, 5,
no other trees within limits

Surface rolling

Soil 3rd val-

Grass good

Scattering Juniper

Thence S. 89° 49' W, on true line
out, sec, 4 & 33,
var, 14° 05' E,

34.00

Enter valley

N. By J, 22, N, R, 2, W.

chains,

4000 Set a malpais stone
14x8x6 ins, 9 ins, in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face, &
raised a mound of
stone alongside,
fits impracticable

5000 Enter timber, leave valley

8000 Set a malpais stone
18x12x7 ins, 12 ins, in
the ground for Cor. to
sec, 4, 5, 32 & 33.
marked with 4 notches
on E. & 2 notches on
W. edges, & raised a
mound of stone
alongside, from which
a cedar 8 ins dia, frs, N.
10° E, 22 lks, marked

N. By 9, 22. N. R, 2, W,

units

S. 23, N. R, 2, W, S, 33, B, B,
A cedar 10 ins. dia. brs,

S, 36° E, 91 lbs, marked

S, 22, N. R, 2, W, S, 4, B, B,
No other trees within limits

Surface rolling

Said 2nd rail

Heavy cedar 64 lbs.

Gross fair

Thence I run

S. 89° 49' W, on true line

but, acc, 5, 7, 32,

Var, 14° 15' E,

7.65 Any wash 60 lbs, wide
course S, W,

0.00 Put a malpais stone
12 x 11 x 5 ins, 8 ins, in
the ground for 1/4 sec. cor

H. 248
 N. By S. 22, N. R. 2, W.

chains

marked $\frac{1}{4}$ on N. face,
 from which a cedar
 16 ins, dia, 600, N. 50° E,
 37 lks, marked $\frac{1}{4}$ S, B, C.
 A cedar 10 ins, dia, 600,
 S, 12° W, 105 lks, marked
 $\frac{1}{4}$ S, B, C.

7400 have died & entire
 green brush

8000 set a Malpais stone
 12 x 12 x 12 ins, 8 ins,
 in the ground for cor,
 to Res, 5, 6, 31 & 32,
 marked with 5 nolets
 on E, & 1 nolet on W,
 edges, dug pits 18 x 18
 x 12 ins, in each Res,
 5 $\frac{1}{2}$ ft. dist, & raised
 a mound of earth

N. By S. 22, N. R. 2, W.

Chairs.

2 ft. high 4 1/2 ft. base
along side.

Surface rolling

Soil 2nd rate

Heavy Cedar brush

Thence I run

S. 89° 49' W, on true line

bet. sec. 6, & 31,

bar. 14° 15' E,

2000

heavy dead & fallen cedar

2005

dry wash, 20 lks. wide
course S, water in
ranks.

4000

A Piñon tree 4 in. dia,
which I marked 1/5 on
N. face for 1/4 sec. 4th cor.
from which a cedar
6 in. dia. brg. N. 45° E.

#5
250
N. Ry S. 22 N. R. 2, W.,

Chains,

27, lks. marked $\frac{1}{4}$ S, B, P,
A cedar 8 ins. dia, 60s,
S. 30° E, 29 lks, marked
 $\frac{1}{4}$ S, B, P,

79, 10

The cor. to sps 22 x 23, N
Rb 2 x 3, W,

Surface mountainous
& rolling,
Heavy Cedar,

Oct. 31st 1883,

Examined & carefully
tested instrument
& solar apparatus
today & found them
correct.

W. Big T, 23. N. R. 2, W.

mins.

From the cor. to Sps 22 +
23 N. R's, 2 + 3, W. pre-
viously established by
me, I run

N. bet. sec. 31 + 36,

var. $14^{\circ} 15' E$,

0,00

Set a nailhead about

$36 \times 12 \times 6$ ins, 27 ins. in

the ground for $\frac{1}{4}$ sec. cor.

marked $\frac{1}{4}$ on W. face,

from which a cedar

4 ins, dia, brs, W, 14 lks,

marked $\frac{1}{4}$ S, B, E,

A cedar 10 lks, dia, brs,

E, 11 lks marked $\frac{1}{4}$ S, B, E,

0,00

Resand

0,00

Crut 60 lks, wide

Course S, E, good water

in tank on line,

252

W. By S. 23, N. R. 2, W.

Chains
5000

Set a sandstone 24 x
 10 x 4 ins, 18 ins, in the
 ground for cor. to sec,
 25, 30, 31 & 36, marked
 with 5 notches on N,
 & 1 notch on S, edges &
 raised a mound of
 stone alongside, from
 which a cedar 10 ins, dia
 brs, S. 86° E, 140 lks, marked
 S, 23, N, R, 2, W, S, 31, B, T.
 No other trees within limits

Surface rolling
 Soil 1st val
 Heavy Cedar

N, bet. sec, 25 & 30
 Var, 14° 15' E,

2500

Siava valley, enter

W. By θ , 23, N, R, 2, W

Chairs.

dense cedar,

4000 Set a malpais stone
 $20 \times 12 \times 9$ ins, 15 ins, in
 the ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on W. face &
 raised a mound of
 stone along side
 from which a cedar
 5 ins. dia, br. E, 34 lks,
 marked $\frac{1}{4}$ S, B, θ

No other trees within limits

7, 00 Dry wash, 80 lks, wide
 course S, W,

8 00 Set a sandstone $20 \times$
 10×5 ins, 15 ins, in the
 ground for cor. to sec.,
 $19, 24, 25 \times 30$, marked
 with 4 notches on N,
 & 2 notches on S. edges,
 & raised a mound of

W. By T, 23, N. R. 2, W

Trains,

stone along side,
 from which a cedar
 4 ins. dia, brs. S, 46° W,
 34 lks, marked T, 23, N,
 R. 3, W. S, 25, B. B.,
 no other trees within
 limits.

Surface rolling
 Soil 2nd rate
 Heavy Cedar
 Good Grass

U. bet. seas, 19 x 24
 Var, 14° 15' E,

- 7,01 Dry wash 80 lks, wide
 course S, E,
 38,00 Ascend bluff of rock
 60 ft. high, brs. E, x W,
 4,000 Cut a malford stone
 30 x 18 x 6 ins 20 ins,

W. Ry. S. 23, N. R. 2, W.

chains,

in the ground for $\frac{1}{4}$
sec. cor, marked $\frac{1}{4}$ on
W. face, & raised a
mound of stone along
side, from which
a cedar 10 ins. dia. bro,
S. 78° E. 49 links, marked
 $\frac{1}{4}$ S, B, J,

No other trees within limits

79.00 Descend off cliff of rocks
bro. E. & W.

80.00 Set a mahoe stone
18 x 12 x 6 ins, 12 ins. in
the ground for, cor. to
secs. 13, 18, 19 & 24, marked
with 3 notches on N.
& S. edges, & raised a
mound of stone along
side, from which
a cedar 18 ins. dia. bro.

125
256.

W. By T. 23, N, R. 2, W.

Chairs,

N. 38° E, 20 lks, marked
 S. 23, N, R, 2, W, S, 18, B. S.
 Cedar 7 ins, dia, br. S,
 31° E, 12 lks, marked
 S. 23, N, R, 2, W, S, 19, B. S.
 Cedar 6 ins, dia, br. N,
 54° W, 14 lks, marked
 S. 23, N, R, 3, W, S, 13, B. S.
 No other trees within limits
 Surface mountainous
 Soil 4th rate
 Heavy Cedar,
 Grass poor

N. bet. Secs, 13 x 18,
 Var, 14° 15' E,

1760 Dry wash 110 lks, wide
 course S, W,

3000 Dry wash 80 lks, wide
 course S, E,

W. By T. 23 N. R. 2. W.

Chains

- 40.00 Cut a sandstone 15x8x6
ins, 10 ins, in the ground
for $\frac{1}{4}$ cor, cor, marked $\frac{1}{4}$
on W. face, from which
a cedar 18 ins, dia, br, S, 45° E,
6 lks, marked $\frac{1}{4}$ S, B, T.
A cedar 14 ins, dia, br, N, 48° W,
6 lks, marked $\frac{1}{4}$ S, B, T.
- 57.63 Old road, br, E, x W,
- 59.78 Dry wash 30 lks, wide
course W.
- 80.00 Cut a sandstone 19x10x
3 ins, 12 ins, in the ground
for cor. to res, 1, 12, 13 x 18
marked with 2 nolets
on N, x 4 nolets on S,
edges, x raised a mound
of stone alongside
from which a cedar
12 ins, dia, br, N, 42° E.

W. Big T. 23, N. R. 2, W.

Chain

27 lks, marked,
 S, 23, N. R. 2, W. S. 7, B. T.
 A cedar 16 ins. dia. brs. S,
 40° W, 34 lks, marked
 S, 23, N. R. 3, W. S. 13, B. T.
 No other trees within limits
 Surface mountainous

Dial 3rd rail
 Plum Cedar
 Brass fair

N. but. sec. 7 x 12,
 var. 14° 15' E,

570 Dry wash 15 lks. wide
 course S. E,

4000 Get a sandstone 36 x 18 x 7
 ins, 27 ins. in the ground
 for the rec. cor. marked
 & on W. face, & raised
 a mound of stone

W. Big S. 23, N. R. 2. W.

Chains.

- alongside, Pits imprac-
ticable
- 69.84 old road, brs. E. & W.
- 73.00 Dry wash 20 links wide,
course E.
- 80.00 Put a sandstone 20 x 12
x 6 ins, 13 ins, in the
ground for cor. to ccs,
1, 6, 7, & 12, marked
with 1 nolet on N, &
5 nolets on S, edges
& raised a mound
of stone alongside,
from which a cedar
6 ins. dia, brs, N. 78° E, 30 k,
marked, S. 23, N, R. 2. W,
S. 1, B. 9,
No other trees within limits
Surface rolling.
Soil 2nd rate

W. By S. 23. N. R. 2, W.

Chairs.

Glenn Cedar
brass fair

N. bet. ass. 1 x 6,
bar, 14° 15' E,

4000

Set a malpais stone
18 x 15 x 6 ins, 12 ins, in
the ground for $\frac{1}{4}$ cor,
marked $\frac{1}{4}$ on W. face, &
~~marked a mound of~~
~~stone alongside~~, from
which a cedar 12 ins, dia,
br. S, 42° E, 81 lks, marked
 $\frac{1}{4}$ S, B, G,

A cedar 10 ins, dia, brs,
N. 74° W, 68 lks, marked
 $\frac{1}{4}$ S, B, G,

8000

Set a malpais stone
20 x 19 x 6 ins, 15 ins, in
the ground for cor, to

W, By θ . 23, N, R, 2, W,

drains.

θ s 23 x 24 N, R, 2 x 3 W,
marked with 6 notches
on each edge, + raised
~~a mound of stone~~
alongside, from which
A cedar 8 in. dia, brs N, 74°
E, 74 lks, marked,

θ . 24 N, R, 2, W, S, 31, B, θ ,
A cedar 8 in. dia, brs S, 74° E,
108 lks, marked

θ . 23, N, R, 2, W, S, 6, B, θ ,
A cedar 7 in. dia, brs S,
45° W, 48 lks, marked

θ . 23, N, R, 3, W, S, 1, B, θ ,
A cedar, 0 in. dia, brs
N, 48° W, 97 lks, marked

θ . 24 N, R, 3, W, S, 36, B, θ .

Surface rolling
Soil 2nd rate

~~27~~
242
W. By S. 23, n. R. 2, W

Chairs,

New Cedar
Good Grass

N. By T. 23, N. R. 2, W.

Chains.

From the cor. to T's, 23
 & 24 N. R's, 2 & 3, W. just
 established by me,
 I run E. on a random
 line, var, $14^{\circ} 15' E$, I
 set temporary half mile
 & mile corners at each
 40 & 80 chains, & at 5
 miles, 78 chs, intersect
 range line 83, links
 S. of cor. to T's 23 & 24
 N. R's 1 & 2, W. previously
 established by me,
 Thence I run
 $S. 89^{\circ} 54' W$, on true line
 bet. sec. 1 & 36,
 var, $14^{\circ} 15' E$.

4000 Set a limestone $14 \times 6 \times 5$
 ins. 9 ins. in the ground
 for $\frac{1}{4}$ sec. cor, marked

N. By S, 23, N. R. 2, W

chains.

$\frac{1}{4}$ on N. face, & raised
a mound of stone
alongside, from which
a cedar 10 ins. dia. brs, S, 60°
W, 38 lks, marked $\frac{1}{4}$ S, B, P,
No other trees within limits

57.00

80.00

Ravine, course N. W,
Set a sandstone $18 \times 10 \times$
6 ins, 12 ins, in the ground
for cor. to Res 1, 2, 35,
& 36, marked with 1
noleth on E, & 5 noleth
on W. edges, & raised
a mound of stone
alongside, from which
a cedar 6 ins. dia. brs, N,
 10° E, 51 lks, marked
S, 24 N. R. 2, W, S, 36, B, P,
A cedar 5 ins. dia. brs, S, 45°
E, 48 lks, marked

N. By T, 23. N, R, 2, W,

chains,

T, 23, N, R, 2, W, S, 1, B, 9,
A cedar 8 ins, dia, brs, S, 6° W,
50 links, marked

T, 23, N, R, 2, W, S, 2, B, 9,
no other trees within limits

Surface rolling
soil 1st - val-

Plense Cedar
Good Grass

S. 89° 54' W, on true line
bet, sec, 2, & 35,
var, 14° 15' E,

40.00 Set a sandstone 14 x 10 x
8 ins, 9 ins, in the ground
for $\frac{1}{4}$ sec. cor, marked
 $\frac{1}{4}$ on N. face & raised
a mound of about
alongside, from which
a cedar 4 ins, dia, brs, S, 4°

N. By S. 23, N. R. 2, W.

chains.

6, 110 lks, marked $\frac{1}{4}$ S, B. 9,
 No other trees within limits
 80.00 Set a sandstone 20 x 18 x 3
 ins, 15 ins in the ground
 for cor. to sec. 2, 3, 34 & 35,
 marked with 2 nolets
 on E. & 4 nolets on W.
 edges, & raised a mound
 of stone alongside,
 from which a cedar
 8 ins, dia. br, S. 45° E,
 34 lks, marked.

S. 23, N. R. 2, W. S. 2, B. 9,
 A cedar 12 ins, dia, br,
 S. 46° W, 9 lks, marked

S. 23, N. R. 2, W. S. 3, B. 9,
 No other trees within limits
 Surface rolling

Soil $\frac{1}{11}$ rate - Heavy Cedar
Good Grass

N. By T. 23, N. R. 2, W.

chains

S. $89^{\circ}54' W$, on true line
bet. cers, 3 & 34,
bar, $14^{\circ}15' E$,

22,00 Top of mountain ridge
brs, N. & S,

40,00 Set a sandstone $34 \times 8 \times$
6 ins, 27 ins, in the
ground for $\frac{1}{4}$ cor. cor.
marked $\frac{1}{4}$ on N. face, &
raised a mound of
stone alongside, from
which a cedar, 8 ins. dia,
brs, S, $40^{\circ} E$ 18 links,
marked $\frac{1}{4}$ S, B, T,

No other trees within limits,
50,00 Set a sandstone $14 \times 8 \times$
4 ins, 9 ins, in the ground
for cor. to cers, 34, 33 & 34,
marked with 3 nolets
on E. & W. edges, and

~~133~~
268

N. By S, 23. N, R, 2, W.

chains.

raised a mound of
stone along side, from
which a Piton 4 ins. dia
brs, S, 43° E, 30 lks, marked
S, 23, N, R, 2, W, S, 3, B, G.
A Piton 10 ins. dia. brs,
S, 40° W, 48 lks, marked
S, 23, N, R, 2, W, S, 4, B, G,
no other trees within limits

Surface rolling
Dial 1st Fall

Neuse Cedar & Piton

S, 89° 54' W, on true line
bet, sea, 4 x 33,
bar, 14° 15' E,

3400
4000

Enter valley
Set a post 3 ft. long 3 ins,
square with marked
stone 12 ins, in the

N. By S, 23, N. R. 2, W.

chains

ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ son N. face,
dug pits 18 x 18 x 12 ins,
E x 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.

47.58 Dry creek. 80 links with
course S,

74.77 Old road, to N. & S,

75.58 Leave valley

80.00 Set a sandstone 20 x 19
x 6 ins, 15 ins, in the

ground for cor. to Secs.
4, 5, 32, & 33, marked
with 4 nails on E,
& 2 nails on W. edges,
& raised a mound of
stone alongside,
Pits impracticable

275
270

N. By S. 23. N. R. 2, W.

chain.

Use cedar 30 lbs.
Surface rolling
Dial 1st rate
Good Grass

S. 89° 54' W. on true line
bet. sec. 5 & 32,
bar. 14° 15' E.

9.00
40.00

Clear timber brs. N & S,
Set a post 3 ft. long 3 ins.
square with marked
stone 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 post, 5 $\frac{1}{2}$ ft.
dist. & raised a mound
of stone 2 $\frac{1}{2}$ ft. high
3 $\frac{1}{2}$ ft. base ^{around Post} along side

64.00

Ascend gradually

N. Big S. 23, N. R. 2, W.

chains

8000 Cut a sandstone 22x
 102x 4 ins, 16 ins, in the
 ground for cor. to res.
 5, 6, 31, & 32, marked
 with 5 nolets on E,
 & 1 nolet on W. edges,
 & raised a mound of
 stone alongside, from
 which a piton 4 ins.
 dia, br, S, 51° W, 63 lbs, marked
 S, 23, N, R, 2, W, S, 6, B, S,
 no other trees within limits
 surface rolling
 Soil 2nd rate
 Heavy cedar, 71 lbs
 Grass fair

S, 89° 54' W, on true line
 bet. res. 6 & 31,
 var. 14° 15' E.

N. By S, 23, N. R. 2, W.

- 4000 Cut a sandstone $24 \times 12 \times$
 4 ins, 18 ins, in the ground
 for $\frac{1}{4}$ dia. cor. marked
 $\frac{1}{4}$ on N. face, from which
 a cedar 6 ins, dia, brs N, 34 lks,
 marked $\frac{1}{4}$ S, B, P.
 Cedar 5 ins, dia, brs S, 47
 E. 18 lks, marked $\frac{1}{4}$ S, B, P.
- 7800 Cor. to Sps 23 x 24 N. R. 2,
 2 x 3, W.

Surface rolling
 Soil 3rd fall
 Heavy Cedar
 Grass fair

Nov, 1st 1883,

Examined & carefully
 tested instrument & solar
 apparatus today, & found
 them correct.

W. By D. 21. N. R. 3. W.

chains

From the ~~land~~ ~~con~~ to
 sps. 21, N, R's 3, & 4, W,
 on the 5th Standard N,
 previously established
 by me, D run,
 N. bet. as, 31 x 36
 bar, 14° 05' E,

- 4000 At a sandstone 20 x 10 x
 4 ins, 15 ins. in the ground
 for $\frac{1}{4}$ as, con, marked
 $\frac{1}{4}$ on W, for ~~raised~~
~~a mound of stone~~
~~alongside~~, from which
 a cedar 14 ins, dia, brs,
 S, 68° E, 49 lks, marked $\frac{1}{4}$ S,
 B, D,
 A cedar 10 ins, dia, brs,
 S, 74° W, 40 lks, marked
 $\frac{1}{4}$ S, B, D,
 5800 Ascend rocky rise

W. By. T. 21, N, R, 3, W.

Chains

6800

Top of ridge, brs. S 64° E, N. W

8000

Set a malpais along
17 x 12 x 5 ins, 11 ins, in the

ground for cor. to cor.,

25, 30, 31 & 36, marked

with 6 notches on N, &

1 notch on S, edges, dug

pits 18 x 18 x 12 ins in each

cor., 5 $\frac{1}{2}$ ft. dia., & raised

a mound of earth 2

ft. high 4 $\frac{1}{2}$ ft. base

alongside, from which

a cedar 7 ins. dia, brs. N.

46 $^{\circ}$ E, 140 lks, marked

S, 21, N, R, 3, W, S, 30, B, D,

A cedar 10 ins. dia, brs.

S, 57 $^{\circ}$ E, 180 lks. marked

S, 21, N, R, 3, W, S, 31, B, D,

A cedar 12 ins. dia, brs

S, 45 $^{\circ}$ W, 146 lks, marked

W. By T, 21, N. R. 3, W,

chains

T, 21, N. R. 4, W. S. 36, B, S,
 A cedar 8 ins, dia, br. N. 46°
 W. 197 lks, marked

S. 21, N. R. 4, W. S. 25, B, S,

Surface railing

Pail 3rd rail

Heuse cedar brush

Wass jaw

N. brt. sec's. 25 x 30,

var. 14° 05' E,

4000

Put a mark on stone
 20 x 10 x 4 ins, 15 ins, in
 the ground for $\frac{1}{4}$ sec. con
 marked $\frac{1}{4}$ on W. face, &
~~raised a mound of~~
~~stone alongside,~~
 from which a cedar
 5 ins, dia, brs S, 10° E. 102
 lks, marked to S, B, S.

W, By 9, 21, N, R, 3, W.

Crains

Aceda 18 ins, dia, brs N, 71° E,
316 lks, marked $\frac{1}{4}$ S, B, D,

40, 44

Ash Fork & Ohio Valley
freight-road, brs, N, E, & S, W.

8000

Set a malpais stone
20x18x8 ins, 15 ins. in
the ground for cor. to Sec's

19, 24, 25 x 30, marked
with 4 notches on N, &
2 notches on S edges,
from which

Aceda 14 ins, dia, brs, N, 87° E,
197 lks, marked

S, 21, N, R, 3, W, S, 19, B, D,

Aceda 6 ins, dia, brs, S, 46°
E, 153 lks, marked

S, 21, N, R, 3, W, S, 30 B, D,

Aceda 5 ins, dia, brs, N, 38°
W, 111 lks, marked

S, 21, N, R, 4 W, S, 24, B, D,

W. By S, 21, n. R. 3, W.

drains.

No other trees within limits

Surface level

Dial 3rd rat-

thrust cedar brush

Hood Grass

N. lat. res, 19 x 24,

var. 14° 05' E,

4000

Set a malpais stone
20 x 5 x 5 ins, 15 ins. in
the ground for $\frac{1}{4}$ sec. com
marked $\frac{1}{4}$ on W. face &
raised a mound of
stones alongside, from
which a cedar 8 ins. dia.,
br, S, 78° E, 147 lbs, marked
 $\frac{1}{4}$ S, B, S,

No other trees within limits

76.00

Heavy cedar,

50.00

Set a malpais stone

~~43~~
278.

BOOK 1661

W. By. S. 21, N. R. 3, W.

chains.

18x14x6 ins, 12 ins, in the
ground for cor. to Secs,
13, 18, 19 & 24, marked
with 3 stakes on N,
& S. edges, dug pits 18x
18x12 ins, in each sec,
5½ ft. dia., & raised
a mound of earth 2
ft. high, 4½ ft. base
alongside.

Surface railing

Coil 1" rail

Weyss Cigar brush

Good Grass

N. bet. secs, 13 & 18,
bar, 14° 05' E.

4000

Put a marker stone
17x8x7 ins, 11 ins, in
the ground for ¼ sec. cor.

W. By T. 21, N. R. 3, W

drains

marked $\frac{1}{4}$ on W. 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.

So. 00

at a malpais along
12x10x4 ins, 8 ins. in the
ground for co. to areas
7, 12, 13 & 18, marked
with - 2 noletus on N.
& 4 noletus on S. edges,
dug pits 18x18x12 ins
in each area, $5\frac{1}{2}$ ft.
dist, & raised a
mound of earth 2
ft. high $4\frac{1}{2}$ ft. base
along side

Surface level
Soil 1st rate

W. By 6, 21, N, R, 3, W.

chain

Good Grass

N. bed, nos 7 & 12,
 bearing $14^{\circ} 05' E$,

4000

Set a malpais stone
 $12 \times 8 \times 8$ ins, 8 ins, in the
 ground for $\frac{1}{4}$ sec, cor,
 marked $\frac{1}{4}$ on W. face,
 dug pits, $16 \times 12 \times 12$ 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,

8000

Set a malpais stone
 $16 \times 10 \times 8$ ins, 11 ins, in
 the ground for cor to
 nos, 1, 6, 7 & 12, marked
 with 1 nolets on N, &
 5 nolets on S, edges

W. Ry 9, 21, N, R, 3, W.

chains.

dug pits 18x18x12 ins.
 in each cor, 5½ ft, dist.
 & raised a mound
 of earth 2 ft, high 4½
 ft, base along side
 Surface level
 Soil 1st rate
 Good Grass

N. bet. cor's 1 x 6
 var. 14° 05' E,

4000 Set a malpais stone
 16x10x5 ins, 11 ins, in
 the ground for ¼ cor,
 cor, marked 4 on W,
 face, dug pits 18x18x
 12 ins, N. & S. of stone
 5½ ft, dist., & raised
 a mound of earth
 1½ ft, high, 3½ ft, base

W. By J. 21, N. R. 3, W.

drains,

80.00 alongside
 Pit a malpais stone
 16 x 14 x 8 ins, 11 ins, in
 the ground for box,
 to the 21 & 22, N. R's
 3 x 4 W, marked with
 6 notches on each
 edge & raised a
 mound of stone
 alongside, Pits im-
 practicable.

Surface rolling
 Soil 1" x 2" rals
 Good Grass

N. By S. 21, N, R. 3, W.

Chain

From the cor. to Sps 21 +
22 N. R. 3 + 4 W. just
established by me,
I run S. on a random
line var. $14^{\circ} 05'$ E,
I set temporary half-mile
& mile corners at
each 40 x 80 chain, &
at 5 miles 79 chs, & 50
lks, intersect range
line 87. lks N. of cor,
to Sps 21⁰²² N. R. 2 + 3
W. previously esta-
blished by me,
thence I run

N. $89^{\circ} 54'$ W. on a true line
bet. Sps. 1 + 36,
var. $14^{\circ} 05'$ E,

40,000

at a mark and stone
14 x 10 x 8 ins, 9 ins. in

N. By 1, 2, N. R. 3, W

chains,

the ground for $\frac{1}{4}$ acs
cor. marked $\frac{1}{4}$ on N.
face, dug pits $18 \times 18 \times$
 12 ins. E. & W. of chain
 $5\frac{1}{2}$ ft. dist. & raised
a mound of earth
 $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base
alongside.

8000

Set a malpais chain
 $18 \times 10 \times 6$ ins, 12 ins. in
the ground for cor.
to acs. 1, 2, 35 & 36,
marked with 1 nolet
on E. & 5 nolets on
W. edges, dug pits $18 \times$
 18×12 ins. in each acs,
 $5\frac{1}{2}$ ft. dist. & raised
a mound of earth
 2 ft. high, $4\frac{1}{2}$ ft. base
alongside.

N. By S. 21, N. R. 8. W.

chains

Surface rolling
Dial 2nd rate
scattering Cedar
Good Grass

N. $89^{\circ}54'W$, on true line
bet. res, 2 & 35,

bar, $14^{\circ}05'E$,

4000

Set a Malpais stone
 $16 \times 14 \times 8$ 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, 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.

8000

Set a Malpais stone
 $16 \times 14 \times 6$ ins, 11 ins, in

N. By S. 21. N. R. 3. W.

chains

the ground for cor to
acs, 2, 3, 34 & 35,
marked with 2 notets
on E. & 4 notets on W.
edges, & raised a
mound of stone
alongside. Pits in-
practicable.

Surface rolling

Dirt 3rd rate

No timber

Good Grass

N. 89° 54' W, on true line
bet. acs, 3 & 34,

var. 14° 05' E,

40.00

Set a malpais stone
20x10x8 ins, 15 ins, in
the ground for 1/4 ac. cor,
marked 1/4 on N. face.

N. By S. 21, N. R. 3, W.

chains.

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 alongside.

50.72 A. & P. R. R. br. N. $38^{\circ} 30' W$
S. $38^{\circ} 30' E$,

54.00 Ascend slope

80.00 Put a maffais stone
16x10x6 ins, 11 ins, in
the ground for cor. to
Ques 3, 4, 33, & 34,
marked with 3 nolets
on E. & W. edges, dug
pits 18x18x12 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.

N. By S, 21, N, R, 3, W

drains,

Surface level
 Soil 2nd rate
 Good Grass
 No timber

N. 89° 54' W, on true line
 bet. sec's 4 & 33,

Var, 14° 05' E,

29,40 Long wash 60 lks, wide
 course S,

40,00 Set a post 3 ft, long,
 3 ins. square, with
 marked stone 12 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 post,
 5 $\frac{1}{2}$ ft. dist, & raised
 a mound of earth 1 $\frac{1}{2}$
 ft. high, 3 $\frac{1}{2}$ ft. base

N. By S. 21, N. R. 3, W.

chains

8000

Alongside
 Put a maphais stone
 $20 \times 8 \times 8$ ins, 15 ins, in
 the ground for cor. to
 Secs, 4, 5, 32, & 33,
 marked with 4 notches
 on E, & 2 notches on W,
 edges, & raised a
 mound of stone
 alongside. Pits in-
 practicable.

Surface level.

Dall 2nd rate

No timber

Good grass

N. 89° 54' W. on true line
 bet. sec's 5 & 32,

bar. 14° 05' E,

Cross by west corner S. E.

10.00
 0.00

Put a maphais stone

~~455~~
290
N. By 5, 21, N. R. 3, 4

Chairs.

14x12x5 ins. 9 ins. in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face &
raised a mound of
stone alongside,
Pits impracticable.

80,00

Put a Malpais stone
15x12x6 ins. 10 ins. in
the ground for cor to
aces, 5, 6, 31, & 32,
marked with 5 nolets
on E. & 1 nolet on W,
edges, & raised a mound
of stone alongside,
Pits impracticable

Surface level
Dial 3rd rail
Good Grass

N. By 9, 21, N. R. 3, W

chain

N. $89^{\circ}54'$ W. on true line
bet. sec. 6, & 31,
Var. $14^{\circ}05'$ E,

Ascending

36.58 Dry wash 15 lks, wide
course S. 'E,

40.00 Set a malpais about
 $24 \times 12 \times 5$ ins, 18 ins, in
the ground for $\frac{1}{4}$ sec,
cor, marked $\frac{1}{4}$ on N,
face, & raised a
mound of stone
alongside, Pits
imperceptible


79.50 Cor. to sps 21 & 22, N,
Rs 3 & 4, W,

Surface rolling
Soil 3rd rate
Good Grass

157
292 =
N. By D. 21, N. R. 3, W.

Nov. 5, 1883,

Examined & carefully
tested instrument &
Solar apparatus today
& found them correct.



W. By S. 22, N. R. 3, W

chain

From the cor. to Sps 21 & 22,
N. Rs 3 & 4 W, previously
established by me,
I run N, bet. Sps 31 & 36,
var. $14^{\circ} 04' E$.

11.00 Descend into ravine

17.00 Bottom of ravine,
course E, - ascend -

30.00 Top mountain ridge,
brs. E. & W.

35.00 Descend

40.00 Set a malpais stone,
 $14 \times 9 \times 7$ ins, 9 ins, in the
ground for $\frac{1}{4}$ cor. cor.
marked $\frac{1}{4}$ on W. face,
& raised a mound of
stone alongside.

Pits impracticable,
45.00 Ravine, course E.

Ascend

W. By 19, 22, N. R. 3, W.

Chains,

6100 Top of mesa, thence 000, E & W,
across same,

8000 Put a malpais stone
20 x 10 x 4 ins, 15 ins, in
the ground for cor. 15
secs, 25, 30, 31 & 36,
marked with 5 nolets
on N, & 1 nolet on S,
edges, & raised a
mound of stone along
side, Pit impracticable
Surface mountainous
Soil 2nd rate
Good Grass

N. bet. sec's 25 & 30,
bar. 140 05' E,

4000 Put a malpais stone
14 x 8 x 6 ins, 9 ins, in
the ground for 1/4 sec, cor.

W. By 9, 22. N. R. 3. W.

chains

marked $\frac{1}{4}$ on W. 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,

8000

Set a mapais stone
 $12 \times 11 \times 8$ ins, 8 ins, in the
ground for cor. to arcs,
19, 24, 25 & 30, marked
with 4 nolets on N,
& 2 nolets on S. edges,
& raised a mound of
stone along side,
from which a cedar
10 ins. dia, brs, N. 10° E,
128 lks, marked

S. 22. N. R. 3. E. S. 19, 13, 6,
A cedar 5 ins. dia, brs,
S. 24° W, 161 lks, marked

W. By S. 22, N. R. 3, W.

Chains

S. 22, N. R. 4, W. S. 25, B. S.
 No other trees within limits

Surface rolling

Soil 2nd val

Scattering Cedar

Good Grass

N. bet. secs 19 & 24,
 var. 14° 04' E.

11.00

Enter valley

16.66

Dry wash 25 lks. wide
 course E.

34.00

Leave valley and
 ascend mountain

40.00

Put a malpais stone
 12x8x6 ins. 8 ins. in
 the ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face, &
 raised a mound of
 stone alongside.

W. By T, 22, N. R, 3, W.

chains.

Pits impracticable

50.75 A. & P. R, R, trs, N, 76° W,
& S, 76° E,

7000 Top of mountain ridge
trs, N, W, & S, E,

8000 Put a mapais stone
13x10x5 ins, 8 ins, in
the ground for cor. to
acs, 13, 18, 19, & 24,

marked with 3 bolts
on N, & S, edges, & raised
a mound of stone
alongside, from which
a cedar 10 ins, dia, trs,
N, 10° E, 82 lks, marked
T, 22, N, R, 3, W, S, 18, B, S,
no other trees within limits

Surface mountainous

Soil 3rd val-

Scattering cedar

W. By S. 22, N. R. 3, W.

chains,

Good Grass

N. bet. secs. 13 & 18,
 Var. $14^{\circ} 04' E$,

2.00 Eutu dense cedar

40.00 Set a malpais stone
 $16 \times 10 \times 5$ ins. 11 ins. in
 the ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on W. face,
 from which a cedar
 8 ins. dia, brs. S. $68^{\circ} E$, 15 lks
 marked $\frac{1}{4}$ S, B, S,

A cedar 10 ins. dia, brs,
 N. $25^{\circ} W$, 9 lks, marked
 $\frac{1}{4}$ S, B, S,

79.20 Center of canon
 course S, E,

80.00 Set a sandstone
 $14 \times 8 \times 6$ ins. 9 ins. in the
 ground for cor. to sec

W, B, 9, 22, N, R, 3, W,

Chairs

7, 12, 13, & 18, marked
 with 2 notches on N,
 & 4 notches on S. edges,
 & raised a mound of
 stone alongside,
 from which,

a cedar 10 ins. dia. brs,
 N, 48° E, 118 lks. marked

S, 22, N, R, 3, W, S, 7, B, 9,

A cedar 6 ins. dia. brs. S, 50° E,
 171 lks. marked

S, 22, N, R, 3, W, S, 18, B, 9,

A cedar 8 ins. dia. brs, S,
 34° W, 87 lks. marked

S, 22, N, R, 4, W, S, 13, B, 9,

No other trees within limits

Surface mountainous

Soil 3" or at

None Cedar.

Grass poor,

W. By 6. 22. N. R, 3. W.

chain

N. bet, sec. 7, x 12,
var. $14^{\circ} 06' E$,

Ascending

34.00

Top of mesa, ascends
to W.

40.00

Set a sandstone 13×11
 $\times 3$ ins, 8 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face,
from which

A cedar 7 ins. dia, trs, S,
 $87^{\circ} E$, 18 lks, marked $\frac{1}{4}$ S, B, E.

A cedar 6 ins. dia, trs, N, $88^{\circ} W$,
110 lks, marked $\frac{1}{4}$ S, B, E.

76.70

Bluff of rock, 30 ft. high
trs. E. & W, descend

80.00

Set a malpais stone
 $24 \times 12 \times 6$ ins, 18 ins, in
the ground for cor. to
secs 1, 6, 7 & 12, marked

W. Big T. 22, N. R. 3, W,

charms

with 1 notch on N. &
5 notches on S. edges,
from which, a cedar
8 ins. dia. brs. N, 42° E,
16 lks. marked

T. 22, N. R. 3, W, S. 6, B. T,
A cedar 12 ins. dia. brs. S, 30°
E, 18 lks. marked

T. 22 N. R. 3 W, S. 7, B. T,
A cedar 10 ins. dia. brs,
S, 43° W, 78 lks. marked

T. 22, N. R. 4, W, S. 12, B. T,
A cedar 5 ins. dia. brs, N,
 28° W, 15 lks. marked

T. 22, N. R. 4, W, S. 1, B. T,
Surface mountains
Soil 3rd rate

None undegrowth
Grass fair

167
352-3

W. By S. 22. N. R. 3. W

chains,

N. bet. trees. 1 x 6,
var. 14° 08' E,

Ascend

34.00 Dry wash 20 lks. wide
course N. E. - ascend

40.00 Cut a malpais stone
16 x 7 x 6 ins. 11 ins. in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W face &
~~raised a mound of~~
~~stone along side,~~
from which a cedar
6 ins. dia, br. S. 44° E,

37 lks, marked $\frac{1}{4}$ S. B. B.

A cedar 4 ins. dia, br. N.
50° W, 10 lks, marked $\frac{1}{4}$ S. B. B.

43.00 Ascend along N. E. slope

68.57 Dry wash 30 lks. wide
course S. E.

72.30 Dry wash, 20 lks. wide

W. By T. 22, N. R. 3, W.

chain

course S. E.

8000 Set a sandstone 20x9x3 in.
15 in. in the ground for
cor. to Tps. 22 & 23, N. R's.
3 & 4 W. marked with
6 nolets on each edge,
from which
A cedar 8 in. dia. br. N. 41°
E. 104 lks. marked,
T. 23, N. R. 3, W. S. 31, B. T.
A cedar 10 in. dia. br. S. 45° E.
48 lks. marked.
T. 22, N. R. 3, W. S. 6, B. T.
A cedar 16 in. dia. br. S. 44°
W. 52 lks. marked
T. 22 N. R. 4. W. S. 1, B. T.
A cedar 5 in. dia. br.
N. 30° W. 62 lks. marked
T. 23, N. R. 4, W. S. 36, B. T.
Surface railing

W. Big T, 22, N. R. 3, W.

Oil 3rd valve
kerosene cedar

Nov. 6th 1883,

Examined & carefully
tested instrument &
Dolan apparatus today
& found them correct.

n. By S. 22. N. R. 3. W.

chains.

From the cor. to Tps 22 & 23 N. R's 3 & 4 W. just established by me, I run E. on a random line, var. $14^{\circ} 15' E$. - I set temporary half-mile & mile corners at each 40 & 80 chains, & at 5 miles 78 chs & 50 lks, intersect range line 79 lks S. of cor. to Tps 22 & 23 N. R's 2 & 3. W. previously established by me.

Thence I run $S. 89^{\circ} 54' W$. on true line bet. sec's. 1 & 36.

var. $14^{\circ} 15' E$.

4000

Set a mapais along $14 \times 10 \times 5$ ins. 9 ins. in

N. By \odot , 22, N. R. 3. W.

chains,

the ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
from which a cedar
7 ins. dia. br. N. 75° W. 52
lks, marked $\frac{1}{4}$ S. B. \odot ,

A cedar 6 ins. dia. br. S. 28°
W. 72 lks, marked $\frac{1}{4}$ S. B. \odot .

8000

Set a malpais along
 $12 \times 8 \times 6$ ins, 8 ins. in the
ground for cor. to sec.
1, 2, 3, 5 & 36, marked
with 1 notch on \odot &
5 notches on W. edges,
& raised a mound
of stones alongside,
from which,

A cedar 8 ins. dia. br. S. 45°
& 12 lks, marked

\odot , 22, N. R. 3. W. S. 1. B. \odot ,

A cedar 10 ins. dia. br.

N. By T, 22, N. R. 3, W.

chains

8000
 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
 Put a sandstone
 $24 \times 6 \times 6$ ins, 18 ins, in
 the ground for cor,
 to see's, 2, 3, 34 & 35,
 marked with 2 notches
 on E. & 4 notches on
 W. edges & raised a
 mound of stone
 along side, Pits im-
 practicable, from
 which a cedar 12 ins
 dia. br. N. 70° E, 109 lbs
 marked T, 23, N. R. 3, W.
 S. 35, B. 9,
 No other trees within
 limits,

N. By S. 22. N. R. 3, W,

drains,

Surface rolling
Soil 3rd rate
Grass good
Scattering Cedar

S. 89° 54' W. on true line
bet. sec's 3 & 34,
Var. 14° 15' E,

4000 Cut a malpais stone
16 x 10 x 6 ins., 11 ins. in
the ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
from which a cedar
12 ins. dia, brs. S. 5° W,
74 lks, marked $\frac{1}{4}$ S. B. S,
A cedar 16 ins. dia, brs,
S. 87° W, 43 lks, marked
 $\frac{1}{4}$ S. B. S,

8000 Cut a malpais stone
22 x 12 x 6 ins., 17 ins. in

31° 15'
N. By 9, 22, N. R. 3, W

drains.

the ground for cor. W
sec. 3, 4, 33 & 34
marked with 3 notches
on E. & W. edges, &
raised a mound
of stone along side,
from which a cedar
12 ins. dia. brs. S, 40° E,
45 lks. marked
9, 22 N, R. 3, W, S. 3, B. 3,
no other trees within limits
surface rolling
Soil 3rd val
thick scrubby cedar
& brush

S. 89° 54' W, on true line
but, sec's 4 & 33,
brs. 14° 15' E,

4006

Put a sandstone
32 x 20 x 6 ins 24 ins.

N. By S. 22. N. R. 3. W.

chains.

in the ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N.
face & raised a mound
of stone alongside
It's impracticable

8000

Set a sandstone 22x
12x4 ins, 17 ins. in the
ground for cor. to sec's
4, 5, 32 & 33, marked
with 4 notches on E,
& 2 notches on W. edge,
from which,

A cedar 8 ins, dia, brs, N. 41°
E, 28 lks, marked,

S. 23 N. R. 3. W. S. 33, B. 5,

A cedar 7 ins, dia, brs, S. 30°
E, 56 lks, marked,

S. 22 N. R. 3. W. S. 4, B. 5,

A cedar 6 ins, dia, brs, S,
40° W, 43 lks, marked

312.
 N. By S. 22, N. R. 3, W.

chains.

S. 22, N. R. 3, W. S. 5, B. 9,
 A cedar 4 ins. dia. brs N. 45°
 W. 11 lks. marked

S. 23, N. R. 3, W. S. 32, B. 9,

Surface rolling

Dial 3rd rail

Thyse scrubby cedar

Grass fair

S. 89° 54' W. on true line

bet. rec's S. 8, 32,

var. 14° 10' E,

23, 06 Ascend S. E. slope
 of mountain

4000 Hit a sandstone 18x10

x3 ins, 12 ins. in the
 ground for $\frac{1}{4}$ sec. cor,

marked $\frac{1}{4}$ on N. face,

from which a cedar
 6 ins. dia. brs S. 10° W.

N. By S. 22, N. R. 3, W.

chains.

34 lks, marked $\frac{1}{4}$ S, B, D,
 A cedar 10 ins, dia, brs N. 46° W,
 56 lks, marked $\frac{1}{4}$ S, B, D.

5000 Top of mountain,
 brs. N. & S. - descend -

8000 Cut a sandstone 18 x 14
 x 7 ins, 12 ins, in the
 ground for cor. to ces,
 5. 6. 31 & 32, marked
 with 5 notches on E. &
 1 notch on W. edges, &
 raised a mound of
 stone alongside,
 from which a cedar
 5 ins, dia, brs S. 4° W,
 30 links, marked
 S. 22, N. R. 3, W. S. 6, B, D,
 No other trees within
 limits
 Surface mountainous

N. By 9.22, N. R. 3, W.

chains,

Soil 4th rate
 Heavy Cedar
 No Grass

S. 89° 54' W, on true line
 bet. sec's 6, 7, 31,
 bar, 14° 06' E,

- 7.35 Dry wash 20 lks, wide
 course S,
- 22.00 Ascend mountain,
 trs. N, & S,
- 37.00 Top of mountain,
 trs. N, & S,
- 40.00 Put a maphais stone
 14 x 9 x 4 ins, 9 ins, in
 the ground for 1/4 sec. cor,
 marked 1/4 on N. face,
 dug pits 18 x 18 x 12 ins,
 E. & W. of stone, 5 1/2 ft,
 dist, & traversed a

N. By T, 22, N. R. 3, W.

drains.

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

7224 Dry wash 20 fks. wide
course S,

7858 Cor. to Tps. 22, & 23. N. R's,
3 & 4 W.

Surface rolling

Soil 3rd rate

Less Cedar

Grass fair

Nov, 7th 1883,

Examined & carefully
tested instrument &
Solar apparatus today
& found them correct.

316
 N. Ry 9, 21, N, R, 4, W.

chain

From the cor. to sps 21 & 22 N, R's. 4 & 5, W, previously established by me, I run E, on a random line, var, $14^{\circ}05'$ E. - I set temporary half mile & mile corners at each 40 & 80 chs, & at 5 miles 79 chs, & 10 lks, intersect range line 112 lks, S. of cor. to sps. 21 & 22 N, R's. 3, & 4, W, previously established by me, thence I run $S. 89^{\circ}52'$ W. on true line but, sec's. 17 & 36

var. $14^{\circ}05'$ E

Ascending

4000

set a mahai stone $14 \times 12 \times 5$ ins. 9 ins. in the ground for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N. face

N. Big T. 21, N. R. 4. W.

chains

and raised a mound
of stone alongside,
Pits impracticable.

80.00 Set a malpais stone 18x
12x8 ins, 12 ins, in the
ground for cor. to sec,
1, 2, 35 + 36, marked
with 1 notch on E, &
5 notches on W, edges, &
raised a mound of
stone alongside, Pits
impracticable

Surface Mountainous
Soil 3rd rate
Good Grass

S. 89° 52' W. on true line
bet. sec. 2 + 35,
var. 14° 05' E,
Ascending

318

N. Ry 8, 21. N. R, 4. W.

chain

21,57 Dry wash 15 lks, wide,
course S. E,40,000 Cut a malpais atom 12
 $\times 10 \times 8$ ins, 8 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
+ raised a mound of
atom alongside. Pits
impracticable.73,15 Dry wash 20 lks. wide
course S. E,80,000 Cut a malpais atom
 $22 \times 14 \times 12$ ins, 15 ins, in
the ground for cor. to
see's 2, 3, 34, +, 35, marked
with 2 notches on E,
& 4 notches on W. edges,
& raised a mound of
atom alongside,
Pits impracticable.

N. Big T. 21, N. R. 4, W.

chains

Surface mountainous
Soil 3rd rate
Grass fair

S. $89^{\circ} 52'$ W, on true line
bet. sec's 3 & 34,
var. $14^{\circ} 08'$ E,

Ascending

3000 descend into cañon
33.00 Dry wash, 15 fks, wide
course S,

40.00 Set a maphis stone
 $20 \times 12 \times 3$ ins., 15 ins., in
the ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face, &
raised a mound of
stone alongside,
Pits impracticable

80.00 Set a maphis stone
 $18 \times 12 \times 10$ ins., 12 ins., in

N. By S. 21, N. R. 4, W.

Chain.

the ground for cor. to
 sec's 3, 4, 33, & 34, marked
 with 3 notches on E. &
 W. edges, & raised a
 mound of stone along
 side. Pits impassible,
 surface mountainous
 Soil 3rd rate
 Grass fair

S. $89^{\circ}52'$ W. on true line
 bet. sec's 4, & 33,

Var, $14^{\circ}05'$ E,

2,50 Dry wash, 8 fks. wide,
 course S. E,

21,00 Top of mountain, on N. & S.
 thence over rolling
 land along N. side of
 Peaches Butte

22,00 Enter dense cedar brush

N. By T. 21, N. R. 4, W.

chains

- 4000 Set a malpais stone $18 \times 18 \times 5$ ins., 12 ins., in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, & raised a mound of stone alongside, from which a cedar 5 ins. dia. brs, N. 74° E., 73 lbs, marked $\frac{1}{4}$ S, B, D.
- No other trees within limits
- 5000 Descend into cañon
- 53,75 Center of cañon, course S. E.
- 54,00 Ascend,
- 6800 Top of mesa, leave cañon
- 8000 Set a malpais stone $20 \times 10 \times 6$ ins., 15 ins., in the ground for cor. to sec. 4, 5, 32, & 33, marked with 4 nolets on E., & 2 nolets on W. edges,

487
322

N. Ry 9, 21, N. R. 4, W.

Chains

raised a mound of stone alongside, from which a cedar, 18 ins. dia, brs, S. 87° E, 14 lks, marked S. 21. N. R. 4, W. S. 4, B. 9,

A cedar 4 ins. dia. brs, N. 10° W, 102 lks, marked:

S. 22. N. R. 4, W. S. 32, B. 9, Picoacho Mountain, brs, S. 45° E

Surface mountainous
Dial 3rd rate

Thence Cedar,

S. 89° 52' W, on true line
bit, 2 ccs, 5 x 32,

Var, 14° 05' E,

4000

hit a sandstone 18 x 9 x 5 ins, 12 ins, in the ground for 1/4 sec. cor, marked 1/4 on N. face, & raised

N. B. J. 21, N. R. 4. W,

chains,

~~a mound of stone~~
~~alongside,~~ from which
a cedar 8 ins. dia, brs. N. 79° E,
48 lks, marked $\frac{1}{4}$ S, B, G.

A cedar 6 ins. dia, brs. N. 10° W,
74 lks, marked $\frac{1}{4}$ S, B, G.

8000 Put a sandstone 18 x 9 x
5 ins. 12 ins. in the ground
for cor. to recs. 5, 6, 31 +
32, marked with 5 notches
on E. & 1 notch on W,
edges, & raised a mound
of stone along side,
from which

A cedar 16 ins. dia, brs. N. 50° E,
96 lks, marked,

S. 22, N. R. 4, W. S, 32, B, G.

A cedar 48 ins. dia, brs. S. 87°
E 81 lks, marked

S. 21, N. R. 4, W. S, B, G.

N. By S, 21, N, R, 4, W,

Chains

No other trees within limits:

Peaches 177, S, 10° E,

Surface mountainous

Soil 3rd val-

Newse cedar brush

Grass fair

S. 89° 52' W, on true line

but, acc's. 6 x 31

bar, 14° 05' E,

4000

Set a sandstone 16 x 10 x

5 ins, 11 ins, in the ground

for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$

on N. face, dug pits 18 x

18 x 12 ins, 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,

A cedar 10 ins, dia, 177, S,

116 lbs, marked $\frac{1}{4}$ S, B, S,

N. By S. 21, N. R. 4, W.

chains,

An artificial lake 2 chs,
dia. 15, ft. deep, brs. S. 45°
E, 70 chains,

79.10 cor. to Sps 21 & 22, N. R's,
4 & 5, W.

Surface mountainous
Soil 3rd rate
Kluss Cedar

Nov. 8, 1883,

Examined & carefully
tested instrument &
Solar apparatus today
& found them correct,

U, By \odot , 22, N, R, 4, W,

Chains,

From the cor. to \odot s, 22 x
23, N, R's, 4, 5, W, previ-
ously established by
me, I run \odot , on a
random line, var. $14^{\circ}05'$
 \odot . - I set temporary half-
mile & mile corners at
each 40 & 80 chs, & at
5 miles 78 chs, & 95 lks,
intersect - range line 134
lks, S. of cor. to \odot s 22 x
23, N, R's 3 & 4, W, previ-
ously established by me,
thence I run,

S. $89^{\circ}50'$ W, on true line
bet. sec's 1, & 36,

var. $14^{\circ}05'$ \odot ,

2000 descend into canon
course S. \odot ,

2900 leave canon, course

N. By \odot , 22, N, R, 4, W.

Chains.

S, E - ascend

4000 Cut a malpais stone
 $19 \times 17 \times 6$ ins, 12 ins, in
 the ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on N. face,
 from which a cedar
 14 ins, dia, brs, N, 44° E,
 39 lks, marked $\frac{1}{4}$ S, B, \odot
 A cedar 5 ins, dia, brs, S, 40°
 W, 13 lks, marked $\frac{1}{4}$ S, B, \odot

62,00 Top of mountain, brs, N, E,
 & S, W. - descend

68,00 Ravine, course N, E.
 Ascend

80,00 Cut a malpais stone
 $19 \times 11 \times 6$ ins, 11 ins, in
 the ground for cor, to
 sec's 1, 2, 35, & 36, Marked
 with 1 nolet on E. &
 5 noletus on W. edges,

U. Big T. 22, U, R, 4, W.

Chains.

4 raised a mound of
stone alongside, from
which a cedar 10 ins. dia,
brs, N, 48° E, 64 lks, marked
T. 22, U, R, 4, W, S, 36, B, T.
A cedar 10 ins. dia, brs, S, 30°
E, 90 lks, marked.

T. 22, U, R, 4, W, S, 1, B, T.
A cedar 6 ins. dia, brs, S,
25° W, 51 lks, marked.

T. 22, U, R, 4, W, S, 2, B, T,
no other trees within limits

Surface mountainous

Soil 3rd rate

Heavy Cedar brush

Grass fair

S. 89° 50' W, on true line
but, rec'd 2 x 35,
var, 14° 05' E,

N. Big S. 22, N. R. 4. W.

chains,

40.00

Set a malfais stone
18x9x4 ins, 12 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on N. face,
from which a cedar 10
ins. dia, brs, N, 10° E, 51 lks,
marked $\frac{1}{4}$ S, B, S,

A cedar 6 ins. dia, brs, S, 18°
E 36 lks, marked $\frac{1}{4}$ S, B, S,

44.00

Ravine, source N. E,

80.00

Set a malfais stone
17x8x6 ins, 11 ins, in the
ground for cor. to sec's
2, 3, 34 & 35, marked with
2 notches on E, & 4 notches
on W, edges, & raised a
mound of stone along-
side, from which a
cedar 8 ins. dia, brs, N 40°
E, 64 lks, marked

N, By θ , 22, N, R, 4, W,

chain,

40,00 Set a malfair stone
 $17 \times 8 \times 7$ 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,
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,
from which a cedar
8 ins, dia, brs S, 46° E, 98
lks, marked $\frac{1}{4}$ S, B, G,
No other trees within limits
descend

49,00 Top of mountain ridge
brs N. & S, - descend

75,00 Ravine 60 lks, wide,
course N, - ascend

80,00 Set a malfair stone
 $28 \times 20 \times 6$ ins, 20 ins, in

N. By. P, 22, N. R, 4, W.

chains,

the ground for cor. to
rees, 4, 5, 32, & 33, marked
with 4 noletus on E, &
2 noletus on W, edges, &
raised a mound of
stone alongside,
its impracticable,

Surface mountainous

Doil 3rd valti

Meuse Adai

S: 89° 50' W, on true line
bet, rees, 5 & 32,

Var, 14° 04' E,

7,00

have dead timber

31,00

Enter ravine

35,00

have ravine course

S, W. - Ascend,

40,00

Get a mahon stone

18 x 14 x 4 ins, 12 ins, in

N. Big 8, 22, N. R. 4, W.

chains,

S. 15° W. 198 lks, marked $\frac{1}{4}$ S. B. 8,
78, 95 - Cor. to 5ths, 22 & 23. N.
R. 4 & 5. W.

Surface rolling
Soil 2nd rate

Bluse cedar 54 chs.
Good grass

Nov. 9th. 1883, -

Examined & carefully
tested instrument
& solar apparatus
today, & found them
correct;

W. By S. 21. N. R. 5. W.

chains.

From the Standard Cor,
to Sps. 21, N, R's, 5 x 6, W,
previously established
by me, I run
N, bet. Lee's 31 x 36,
var. 14° 05' E,
Ascend

30,08

Dry wash, 30 lks. wide,
course N. W.

40,00

Set a malpais stone
14 x 12 x 8 ins. 9 ins. in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face, &
raised a mound of
stone alongside,
Pits impracticable

48,00

Ascend.

80,00

Set a malpais stone
14 x 13 x 7 ins. 11 ins. in
the ground for cor. to

W. Big J. 21, N. R. 5. W,

chains

aces, 25, 30, 31, & 36,
 marked with 5 notches
 on N, & 1 notch on S,
 edges, & raised a mound
 of stone along side,
 pits impracticable
 Surface mountainous
 Soil rocky 3rd rate
 Good Grass

N. bet. aces, 25 & 30
 bar, 14005' E,

Ascend

14,00 Top of mountain, brs E, W
 descend

32,00 descend into cañon

36,40 Centre of cañon, course N, W,
 Ascend

4000 Put a malpais stone
 12 x 11 x 9 ins, 8 ins, in the

W. Big. P. 21, N. R. 5. W.

trains

- ground for $\frac{1}{4}$ ac. cor.
marked $\frac{1}{4}$ on W. face, &
raised a mound of
stone alongside,
Pits 'infractible'
- 43,00 Top of mountain ridge,
top, E. & W.
- 58,00 Dry wash, 20 lks. wide,
course W.
- 72,00 Dry wash 80 lks. wide.
course W.
- 80,00 Put a marble stone
18x12x8 ins., 12 ins. in
the ground for cor. to
see's, 19, 24, 25 & 30, marked
with 4 nolets on N, &
2 nolets on S. edges, &
raised a mound of
stone alongside,
Pits 'infractible'.

W. By J. 21, N. R. 5, W.

chains.

Surface mountainous
 Soil 3rd nat
 Grass fair

N. lat. sec's, 19 & 24,
 Var. 14° 05' E,
 descend

22.73 descend off bluff of rock
 soft, high, brs. E. & W.

23.92 Road, brs. E. & W.

29.20 Chino Creek bed, 30 lks.
 wide, course E.

Ascend rocky bluff

4000' Get a malpais stone
 16 x 13 x 9 ins, 11 ins, in the
 ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on W. face, &
 raised a mound of
 stone along side.

8000' Get a malpais stone

W, By T. 21, N, R, 5, W,

chains

18 x 10 x 7 ins, 12 ins, in the
ground for cor, to see's
13, 18, 19, & 24, marked
with 3 nolets on N, & S,
edges, & raised a mound
of stone alongside,
Pits impracticable
Surface mountainous
Soil 3rd rate
Good grass

N, bet, see's 13, & 18,
var, 14° 05' E,

4000 Set a sandstone 14 x 11 x 4
ins, 9 ins, in the ground
for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$
on W, face & raised a
mound of stone along-
side, Pits impracticable
4850 Top of mesa, bet, N, E, & W,

W. Big T, 21, N, R, 5, W.

Chains

80.00

Set a ^{stone} marker 17x10x
5 ins, 11 ins, in the
ground for cor. to sec's
7, 12, 13 & 18, marked with
2 nolets on N, & 4 nolets
on S, edges, dug pits 18x
18x12 ins, in each sec,
5½ ft, dist, & raised
a mound of earth 1½
ft, high 3½ ft, base
alongside, &

Surface mountainous

Soil 3rd rate

Good Grass

N, bet, sec's, 7 & 12

Var, 14° 05' E,

21.67

Dry wash 15 lks, wide,
course W,

29.00

Dry wash, 15 lks, wide

W. By. 9, 21, N, R, 5, W.

chain,

- 40,000 course S. W. - ascend
 set a marble stone
 14 x 10 x 5 ins, 9 ins, in
 the ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on W. face, &
 raised a mound of
 stone along side,
 pits 'impracticable'
- 68,000 Top of mountain, brs, N. & S.
 along top of 'same'
- 80,000 set a marble stone
 12 x 9 x 5 ins, 8 ins, in the
 ground for cor, to sec's
 1, 6, 7 & 12, marked with
 1 notch on N, & 5 notches
 on S. 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

W. By T. 21, N. R. 5, W.

chains,

alongside,
Surface mountainous
Soil 3rd rate
Good grass

N. bet. sec's, 1 x 6,
bet. 14⁰ 05' E,

40.00 Along top of mountain
Set a mark on stone
14 x 12 x 6 ins, 9 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face, dug
pit 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.

41.00

Pits ~~infractable~~,
descend off N. end of
mountain,

W. Ry T, 21, N. R. 5, W.

chains

- 55.00 Dry wash 14 lks, wide,
course S, W,
- 60.00 old road, br, N. E. & S. W.
- 71.76 " " " " " "
- 73.00 Dry wash, 15 lks, wide
course S. E.
- 80.00 lit a malpais stone 17x
12x10 ins, 11 ins, in the
ground for cor to Tps 21 &
22 N, R's, 5 & 6 W, marked
with 6 nolets on each
edge, & raised a
mound of stone alongside,
its impracticable.
Surface mountainous
Soil 2nd val
Good grass

N. Big T. 21, N, R, 5, W.

Chains.

From the cor. to Tps 21 & 22, N, R's, 5 & 6, W, just established by me, I run E. on a random line, var, $14^{\circ} 05' E$, I set temporary half-mile & mile corners at each 40 & 80 chs, & at 5 miles 79 chs, & 22 lks, intersect range line 176 lks, N, of cor. to Tps 21 & 22 N, R's, 4 & 5, W, previously established by me, Thence I run

N, $89^{\circ} 48' W$, on true line
bet. Recs. 1 & 36,

var, $14^{\circ} 05' E$

.25 thence into head of
canyon through dense
cedar brush

N. Big T. 21, N. R. 5. W.

chains.

3000 Leave cañon, course S. W.,
ascend S. E. slope of
right-wall.

3800 Top of wall, hrs, N, E, & S. W.

4000 Set a malpais stone
16x12x10 ins, 11 ins, in the
ground for $\frac{1}{4}$ cor, cor,
marked $\frac{1}{4}$ on N. face, &
raised a mound of
stone along side, from
which a cedar 14 ins, dia,
hrs, N, 10° E. 38 links
marked $\frac{1}{4}$ S, B, T.

No other trees within limits

5000 Descend into another
cañon

7400 Centre of cañon, hrs, S. W.,
ascend along S. E. slope
of right-wall of cañon

8000 Set a sandstone

N. By S, 21, N, R, 5, W,

Chains,

20x5x5 ins, 15 ins, in the
 ground for cor. to sec's
 1, 2, 35 + 36, marked
 with 1 molets on E. and
 5 molets on W, edges, &
 raised a mound of
 stone alongside, pits
 impracticable
 in head of canon, course S
 surface mountainous
 Soil 3rd rate

Heavy cedar & Piñon brush
 Grass fair

N. 89° 48' W, on true line
 bet. sec's 2, & 35,
 var, 14° 10' E,

Ascending

30,000 Top of mountain, top,
 N. E. & S. W,
 descend,

N. By S, 21, N. R. 5, W.

chains

- 4000 Pit a mafais stone
 $18 \times 10 \times 8$ ins, 12 ins, in the
 ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on N. face, &
 raised a mound of
 stone alongside,
 Pit impracticable.
- 53.00 Cleft of cañon, course W,
 then down same
- 73.00 Leave cañon, course N.W.,
 ascend along N.E. slope
- 8000 Pit a sandstone, 16×12
 $\times 8$ ins, 11 ins, in the
 ground for cor. to sec's 2,
 3, 34 & 35, marked with
 2 nolets on E. & 4 nolets
 on W. edges, & raised
 a mound of stone
 alongside, from which
 a Piton 8 ins. dia. brs.

N. By G. 21. N. R. 5. W.

Chain,

N. 30° E. 44 lks, marked
 G. 22. N. R. 5. W. S. 35. B. P.
 No other trees within limits
 Surface mountainous
 Soil 3rd val
 Heavy cedar & Piñon
Grass fair

N. 89° 48' W. on true line
 bet. sees 3, & 34.
 Var. 14° E.

28,00 Top of mesa, fr. N. W. & S. E.
 40,00. Set a mahais stone 14
 x 12 x 6 ins, 9 ins, in the
 ground for $\frac{1}{4}$ sec. cor,
 marked $\frac{1}{4}$ on N. face &
 raised a mound of
 stone along side,
 Pits impracticable.
 48,00 Descend into cañon

N. By T. 21, N. R. 5, W.

chains,

8000

Set a quartz rock $14 \times 6 \times 6$ in. 9 ins. in the ground for cor. to acs. 3, 4, 33 & 34, marked with 3 nolets on E. & W. edges, dug pits $18 \times 18 \times 12$ 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.

Surface mountainous

Soil 3rd rate

Some cedar brush

Grass fair.

N. 89° 48' W, on true line
bet. acs 4 & 33,

Var. $14^{\circ} 05'$ E,

14.00

Dry wash 60 lks. wide
course S,

N. Big T. 21. N. R. 5. W.

Chain.

1840 Ascend over mountain ridges

4000 Set a malpais stone
 $17 \times 12 \times 8$ in, 11 in, in the
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on N. face, &
 raised a mound of
 stone alongside.

Pits impracticable

6820 Dry wash, 80 lks. wide
 course S. E.

8000 Set a malpais stone
 $14 \times 11 \times 5$ in, 9 in, in
 the ground for cor. to
 see's, 4, 5, 32 + 33, marked
 with 4 notches on E,
 + 2 notches on W. edges,
 & raised a mound of
 stone alongside.

Pits impracticable

Surface mountainous

N. Big T. 21, N. R. 5. W.

chains.

Soil 3rd rate
 scattering cedar
 grass fair

N. $89^{\circ}48'$ W, on true line
 bet. sec's 5 & 32,
 var. $14^{\circ}05'$ E,

2500 Dry wash 200 ft. wide,
 course S,

4000 Set a malpais ^{stone} $17 \times 10 \times 6$
 in, 11 in, in the ground
 for $\frac{1}{4}$ sec. cor, marked
 $\frac{1}{4}$ on N. face, & raised
 a mound of stone
 along side. Pits in-
 practicable

52.72 Dry wash 16 ft. wide,
 course S,

80.00 → Set a malpais stone
 $16 \times 8 \times 5$ in, 11 in, in the

279
354

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N. Ry. 21, N. R. 5. W.

chains.

ground for cor. to sec's
5, 6, 31, & 32, marked
with 5 notes on E. &
1 note W. edges, &
raised a mound of
stone alongside,
Pits impracticable
Surface mountainous
Soil 3rd rate
Good grass

→ N. 89° 48' W, on true line
bet. sec's 6, & 31,
bar, 14° 05' E,

Descend over mountain
ridges,

3800 Ravine, lower S. W,

4000 Put a malpais stone
14x12x7 in, 9 lbs, in the
ground for 1/4 sec. cor.

N. Ry 6, 21, N. R. 5, W.

chains,

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.

61.00 Dry wash, 20 lts. wide, course S,

79.22 Cor. to Sp 2 17 22, N. R's. 5 &
6, W.

Surface mountainous

Soil 3rd rate

Good Grass

Nov. 12th 1883,

Examined & carefully
tested instrument &
solar apparatus today
& found them correct,

W. By G. 22, N, R. 5, W.

Chains

From the cor. to Ghs. 21
& 22 N. R's. 5 & 6 W. pre-
viously established by
me, I run

N. bet. sec's, 31 & 36,
Var, 14° 05' E.

39.00 Ascend up narrow valley
Road brs, N. E. & S. W,

40.00 Set a malpais stone
20 x 14 x 3 ins, 15 in. in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face,
dug pits 18 x 18 x 12 in, 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

60.00 Top of mountain brs. E. & W.
Descend into valley

68.00 Enter valley, brs. E. & W.

W. By S, 22, N, R, 5, W.

chain

50.00

Set a malpais stone
 16x12x8 ins, 11 ins, in the
 ground for cor. to sec's
 25, 30, 31 & 36, marked
 with 5 notches on N, &
 1 notch on S, edges, &
 raised a mound of
 stone alongside,
 its unpracticable
 surface mountainous
 Soil 1st & 3rd rate
 Good Grass

N. bet. sec's, 25 & 30,

var. 14° 05' E.

40.00

Set a malpais stone
 13x11x9 ins, 8 ins, in the
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face,
 & raised a mound

W. By 8, 22, N, R, 5, W.

chains

of stone alongside
Pits impracticable.

6000

Set a malpais stone
14 x 10 x 8 ins, 9 ins, in the
ground for cor. to rec's,
19, 24, 25 x 30, marked
with 4 notches on N, &
2 notches on S, edges, &
raised a mound of
stone alongside.

Pits impracticable,
Surface rolling hills
in valley

Soil 2nd val-

Good grass

N, bet. rec's, 19 & 24

Var, 14 05' E,

4000

Set a malpais stone
20 x 9 x 5 ins, 15 ins, in

W. By §. 22, N. R. 5, W.

the ground for $\frac{1}{4}$ ac. cor,
marked $\frac{1}{4}$ on W. 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.

8000

Set a marker along
 $12 \times 8 \times 3$ ins. 8 ins. in the
ground for cor. to Rec's,
13, 18, 19 & 24, marked
with 3 nails on N. &
S. edges, dug pits 18×18
 $\times 12$ 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

Soil rocky, 2nd rate

~~265~~
360

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W. Ry S. 22. N. R. 5. W.

chain

Good grass

N. bet. sec's, 13 x 18,
var, 14° 05' E,

11.00

Ravine, course W,

37.40

Ravine, course S. W.

40.00

Set a mark on stone
14 x 12 x 8 ins. 9 ins. in
the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ S on W. face, &
raised a mound of
stone alongside.
Pits impracticable.

80.00

Set a post 4 ft. long, 4
ins. square, with marker
stone 12 ins. in the
ground for cor. to sec's
7, 12, 13, & 18, marked
S. 22, N. S, 7, on N. E.
R. 5. W. S, 18, on S. E.

W. By S, 22. N, R, 5, W,

chain.

S, 13, on S, W, and
 S, 14², on N, W, faces,
 with 2 nolets on N, &
 4 nolets on S, edges,
 dug pits 18 x 18 x 12 ins,
 in each sec, 5½ ft, dist
 & raised a mound of
 earth 2 ft high 4½
 ft, base ^{around post} along each
 Surface rolling
 Soil 2nd rate
 Good grass

N, bet, sec's 7 & 12,

bar, 14° 05' E,

4000

Set a post 3 ft, long, 3
 ins. square with mark
 show 12 ins, in the
 ground for ¼ sec, cor,
 marked ¼ S. on W, face,

224
264
W. By S. 22, N. R. 5, W.

Chains,

70.12 A. & P. R. R. brs. N. 74° W.
& S. 74° E. at east-

8000 end of bridge No. 523,
at a post 4½ ft. long,
4 ins. square, with
marked stone 12 ins.
in the ground for cor.
to Sps 22 & 23, N. R. 5,
S. 6, W. marked
S. 23, N. S. 31, on N. E.
R. 5, W. S. 6, on S. E.
S. 22, N. S. 1, on S. W. and
R. 6, W. S. 36, on N. W.
faces, with 6 notches
on each edge, dug
pits 24 x 18 x 12 ins.
lengthwise on each
line N. S. E. & W. of
post, 6 ft. dist. & raised
a mound of earth

W. By T. 22, N. R. 5. W.

drains

$2\frac{1}{2}$ ft. high, 5 ft. base
 around post,
 Surface level
 Soil 1st rate
 Good Grass
 No. timber

I carefully examined
 the sky and instruments
 of my Solar instrument
 to day and found them
 correct.

Nov. 10th 1773

231
366

N. By S. 22, N, R, 5. W.

Chain.

From the cor. to Tps,
 22 & 23, N, R's, 5, & 6, W.
 just established by me,
 I run E, on a random
 line, - bar, $14^{\circ} 05' E$, -
 I set temporary half-mile &
 mile corners at each
 40 & 80 chs, and at 5 miles
 78 chs, and 86 lks. inter-
 sect range line, 179 lks,
 N. of the cor. to Tps 22 &
 23 N, R's 4, & 5, W, pre-
 viously established by
 me. Thence I run
 $N, 89^{\circ} 47' W$, on true line
 bet. sec's, 1 & 36,
 bar, $14^{\circ} 05' E$,

15.00
40.00

Ascending
 top of mountain top N. E. & S. W.
 set a Malpas stone

16 x 14 x 9 yds, 11 ins, in the
 ground for 4 Sec. Cor. marked 114
 on N. face and raised a mound
 3' high along side this mound

N. Big 9, 22, N. R. 5, W.

chain.
80,00

Set a malpais stone
14x11x8 ins, pins, in the
ground for cor. to sec's,
1, 2, 35, & 36, marked
with 1 notch on E, &
5 notches on W. edges, &
raised a mound of
stone alongside,
Pits unpracticable.
Surface mountainous
Soil 3rd rate
Good Grass

N. 89° 47' W, on true line
bet. sec. 2 & 35

39,00

var. 14° 06' E,
Dry wash 15 lks. wide
course S.

40,00

Set a malpais stone

N. By T, 22, N, R. 5. W,

chains

- 12 x 12 x 8 in, 8 in, in the ground for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N, face, & raised a mound of stone alongside, Pits unfracturable
- 53.50 Arroyo banks, wide course N, W, ascend
- 60.00 Top of ridge bet. N, W, & S, E,
- 77.70 Ravine, course N, W, a maphai stone in place
- 80.00 12 x 5 in, above ground, which I mark x at cor. point. marked with 2 nolets on E, & 4 nolets on W, edges, & raised a mound of stone alongside

N. Ry 6, 22, N. R. 5, W,

chains

Pits impracticable,
Surface mountainous
Soil 3rd rate
Good Grass

N. 89° 47' W, on true line
bet. sec's. 3, & 34,
Var, 14° 05' E,

1500 Top of ridge, brs N, W, & S, E.
3000 Foot of mountain ridge
4000 At a megalith stone.
14 x 12 x 5 ins, 9 ins, in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face, dug
pit 18 x 18 x 12 ins, E & W.
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.

N. By T, 22, N, R, 5, W.

chain

8000

Set a malpais stone
 $16 \times 12 \times 5$ ins, 11 ins, in the
ground for cor. to aces.
3, 4, 33, & 34, marked
with 3 nails on E &
W, edges, dug pits $18 \times$
 18×12 ins, in each ace,
 $5\frac{1}{2}$ ft, dist, & raised
a mound of earth 2
ft, high $4\frac{1}{2}$ ft, base
along side,
Surface mountainous
Soil 1st & 3rd rows
Good grass

N. 89° 47' W, on true line
bet. aces, 4 & 33,
bar, 14° 05' E,

4000

Set a malpais stone

N. By T. 22, N. R. 5, W.

am

12 x 8 x 6 ins, 8 in, in the
ground for $\frac{1}{4}$ cor. cor.
Marked $\frac{1}{4}$ on N. face, &
raised a mound of
stone alongside, Pits
impracticable.

9.00

Foot of hill

0.00

Top rocky ridge, hrs.
N. W. & S. E.

0.00

Set a malpais stone
12 x 10 x 6 ins, 8 ins, in
the ground for cor. to

ees, 4, 5, 3, 2 & 3, 2,

marked with 4 notations
on E, & 2 notations on W,

edges, & raised a

mound of stone along-
side, Pits impracticable,
Surface rolling

N. By S, 22, N. R. 5, W.

drains

Soil 1st & 2nd val
Grass good

N. 89° 47' W. on true line
 bet, sec, 5, & 32,
 var, 14° 05' E.

40,00

Set a malpais stone
 12 x 10 x 6 ins, 8 ins, in
 the ground for $\frac{1}{4}$ sec, cor,
 marked $\frac{1}{4}$ on N. face, &
 raised a mound of
 stone along side, Pile
 unpracticable.

Pedro Mountain

on, S, 41° E,

60,00

Set a malpais stone
 16 x 13 x 5 ins, 11 ins, in the
 ground for cor, to sec,
 S, 6, 31, & 32, marked

N. By T. 22. N. R. 5. W.

chain

with 5 nolets on E. &
1 nolet on W. edges, dug
pits 18x18x12 ins, in each
sec, 5½ ft, dist, & raised
a mound of earth 2 ft,
high 4½ ft, base along
side.

Surface level,
Dial 1st rate
Good grass

N. 89° 47' W, on true line
bet. sees, 6, & 31,
var, 14° 08' E,

1000
Set a metal pin stone
12x10x7 ins, 8 ins, in the
ground for ¼ sec, cor,
marked ¼ on N. face,
dug pits 18x18x12 ins,

N. Ry 5, 22, N, R, 5, W,

Chairs

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

78,86

Ar. to the 22, & 23, N,
R's, 5 & 6 W,



Surface level

Soil $1\frac{21}{100}$ rats

Good grass



I carefully examined
the adjustments
of my solar instrument
to-day and found
them correct

Nov. 14 1883

For final notes see
Book No 28

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BOOK 1661

U. S. Surveyor General's Office,

Tucson, Arizona, Feb'y 13. 1884

The foregoing Field Notes of the Survey of the

Extreme Lines of Tps. 17, 18, 19 & 20 N. R.
1 W. Tps. 19 & 20 N. R. 2 W. Tps. 20 N. R. 3 W.
Tps. 21 N. R. 1, 2, 3, 4 & 5 West.
Tps. 22 N. R. 1, 2, 3, 4 & 5 West.
Tps. 23 N. R. 1, 2 & 3 West.

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

J. T. Smith

Deputy Surveyor, under his contract of the 21st day of

July, 1883 having been

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

are hereby approved

Royce Johnson
 Surveyor General