

ated

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Book No. 6.

BOOK 960

Included

No. 960

# Field Notes

BOOK 960

OF THE SURVEY OF THE

## Subdivision lines

-OF- No. 960

Township 21 S. Range 31 E.

Gila and Salt River Base and Meridian

### ARIZONA.

By W. B. Neil D. S.

Under contract dated Oct. 1st 1883

Survey commenced Nov 30th 1883

Survey completed Dec 5th 1883

960

1A

BOOK 960

Township 21 S. Range 31 E. M.

6	76	5	54	4	40	3	28	2	13	1
74	73		53		39		27			12
7	72	8	52	9	38	10	26	11	11	12
71	69		51		37		25			10
18	68	17	50	16	36	15	24	14	9	13
67	66		49		35		23			7
19	64	20	47	21	34	22	22	23	6	24
63	62		46		33		20			5
30	61	29	45	28	32	27	19	26	4	25
59	58		44		31		18			2
31	57	32	43	33	30	34	16	35	1	36

BOOK 960 1B

No. 960

For preliminary talks &  
description of instrument  
used. See Book No. 1.

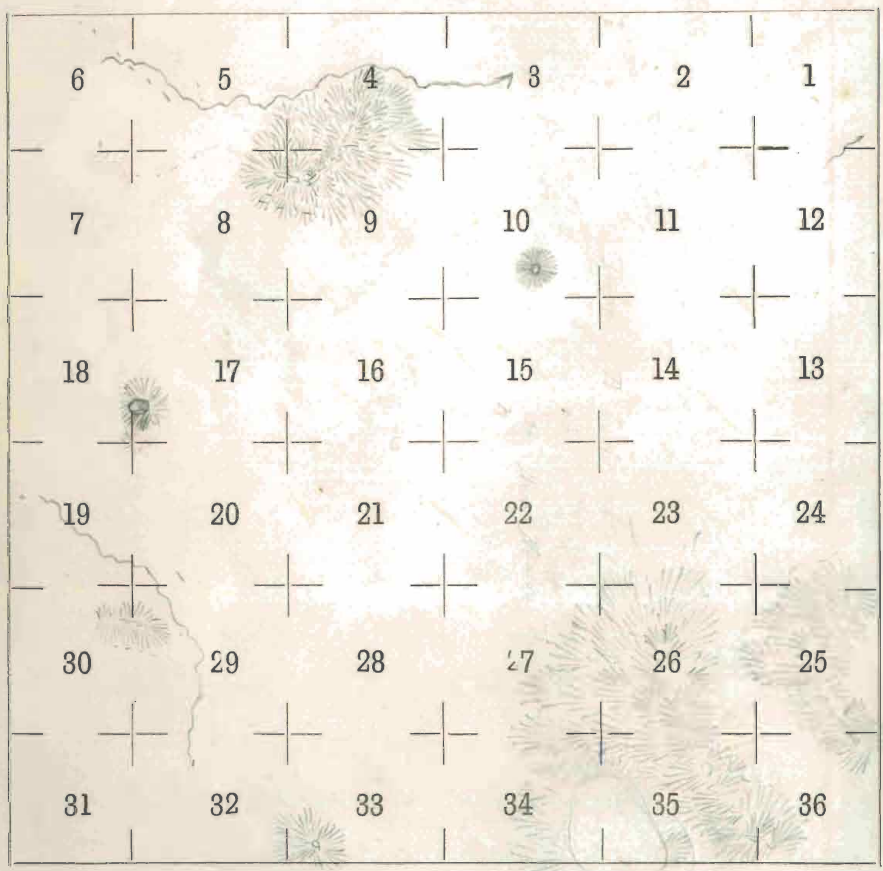
Survey commenced Nov. 30<sup>th</sup> 1883  
Survey completed Dec 5<sup>th</sup> 1883

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INDEX DIAGRAM.

Township *21 South*

Range *31 East*



Gila and Salt River, Arizona.

ARIZONA.



T. 21 S. R. 31 E.

chs Tola &amp; Salt River Meridian

<sup>100</sup>From the car to secs  
1-2-33 & 36 on the South  
boundary of Township,  
previously set by me.

I run

North bet secs. 33 & 36

On  $12^{\circ} 10'$  East

ascend

15.00 Top of Mount. ridge, bears  
N.W. and descend

40.00 Set a lava stone  $15 \times 13 \times 8$  ins  
10 ins in the ground for  
 $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$  on W  
face, and raised a md  
of stone along side  
Pits impracticable

T. 21 S. R. 31 E.

chs.

64.00 Foot of ridge and ascend  
along S.W. slope. bet N.W. & S.E.

50.00 Set 6 lava stone 12x10x8 ins  
8 ins in the ground for cor  
to secs 25-26-35-36, marked  
with 1 notch on S & E edges  
and raised a md of stone  
along side.

Pit impracticable

Land mountainous and  
broken ridges

Soil 3" & 4" rate

Good grass

C on a random line

bet secs 25 & 36

N 12° 10' East

Over broken hills

## T21SR31E

Chs

- 40.00 Set temporary  $\frac{1}{4}$  sec cor.  
50.00 Ascend slope bears  
N. E. & S. W.
- 67.00 Top of same and descend  
bears N.  $10^{\circ}$  E. S.  $10^{\circ}$  W.
- 80.13 Intersect - E boundary of  
township <sup>or 26</sup> 24th cor to secs  
25-30-31-36, previously  
set by me. Thence, I run <sup>N.  $82^{\circ}$  50'</sup>  
West on a true line bet  
secs 25 & 36. With same  $\frac{1}{4}$  sec  
40.07 Set a lava stone  $10 \times 8 \times 7$  ins 7  
ins in the ground for  $\frac{1}{4}$   
sec cor marked  $\frac{1}{4}$  on N face  
and raised a md of stone  
along sid. Pit impracticable
- 41.13 The cor to secs 25-26-35 & 36  
Land mountainous and  
rolling  
Soil 3" & 4" rate  
Good grass



## T. 21 S. R. 31 E.

- Chs. North bet secs 23 & 26  
 Va 12° 10' E
- 30.00 Highest point on East  
 slope of ridge and descend
- 40.00 Set a lava stone 12x10x9 ins  
 8 ins in the ground for  $\frac{1}{4}$  sec  
 cor. marked  $\frac{1}{4}$  on W. face, and  
 raised a md of stone  
 along side. Pit impracticable
- 70.00 Leave mountains and enter  
 rolling land
- 80.00 Set a lava stone 15x10x8 ins 9  
 ins in the ground for cor to  
 secs 23-24-25-26 marked  
 with 2 notches on S and  
 1 notch on E edges, and  
 raised a md of stone  
 along side  
 Pit impracticable  
 Land <sup>90</sup>mountainous and <sup>10 elev</sup>



T. 21 S. R. 31 E.

Chs rolling  
Soil  $\frac{1}{4}$ " rate  
Good grass

---

E. on a random line  
bet secs 24725  
N $13^{\circ}20'$  East

21.00 Ascend slope W. S. W.

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

79.82 Intersect E boundary of T $h$ .  
16 lks N. of cor. to secs  
19-24-25-30 previously set  
by me. Thence S. run.  
N $89^{\circ}53'$  W. on a true line  
bet secs. 24725

With same N $_{a}$

39.91 Set 0 lava stone 13x12x8 ins

T 21 S R 31 E

M

9 ins in the ground for  $\frac{1}{4}$   
sec cor, marked  $\frac{1}{4}$  on N  
face, and raised a md  
of stone along side  
Pts impracticable

2982

The cor to secs 23-24-25-26  
Land <sup>2 1/2 ch</sup> rolling <sup>59 ch</sup>  
mountainous  
Soil stony 3" & 4" rate  
Good grass

North by sec 23 & 24

N 13° 12' E

4000

Set a lava stone 16x12x2  
ins. 11 ins in the ground  
for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$   
on N face, and raised a  
md of stone along side  
Pts impracticable

T. 21 S. R. 31 E.

Chs

80.50 Set alana stone 14x9x2 ins  
 9 ins in the ground for  
 cor to secs 13-14-23-24  
 marked with 3 notches  
 on S and 1 notch on E  
 edges, and raised a mid  
 of stone along side  
 Pits impracticable  
 Land rolling valley  
 Soil 3" & 4" rate  
 Loose lava rock  
 Good grass

---

On a random line  
 bet secs 13 & 24

N 12° 41' East

40.00 Set temporary 1/4 sec cor.

86.12 Intersect E By of T<sub>h</sub>



T. 21 S. R. 31 E.

Ch<sub>2</sub>

1/4 lka S. of cor to sec<sub>2</sub>  
 13-18-19-24. previously  
 set by me. Thence I  
 run.

S. 89° 54' W. on a true line  
 bet sec<sub>2</sub>, 13-24.

With same Va.

40.06 Set a lava stone 1 1/2 x 12 x 10  
 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 and  
 raised a mound of earth  
 1 1/2 ft high 3 1/2 ft base  
 along side

SB. 12 The cor to sec<sub>2</sub> 13-14-23-24  
 Land rolling  
 Soil 3" rat  
 Good grass



T. 2 S. R. 31 E.

chs

N. bet. sec. 13 &amp; 14

On 130 10' E

40.00

Set a lava stone 10x10x10  
ins in the ground for  
4 sec cor marked 4 on W face  
and raised a rd of stone  
along sid. Pits impracticable

80.00

Set a lava stone 14x8x8 ins  
9 ins in the ground for  
cor to sec 11-12-13-14. marked  
with 4 notches on S. and 1  
notch on E. edges and raised  
a rd of stone along sid.  
Pits impracticable

Land rolling

Soil stony  $\frac{1}{4}$ " rate

Good grass

---

 On a random line

T. 21 S. R. 31 E.

chs

bet secs 12 &amp; 13

No. 120 ~~140~~ East40.00 Set temporary  $\frac{1}{4}$  sec cor43.00 Ascend along ~~N. E.~~ S. W.  
slope of Round Hill64.00 Highest point on same  
and descend N. E. slope80.34 Intersect E. Bdy of Twp. 18 lks  
S. of cor to secs 7-12, 15, 18  
previously set by me  
Thence I runS 89° 52' W. on a true line  
bet secs 12 & 13

With same No.

40.17 Set a lava stone 10x10x8  
ins 7 ins in the ground  
for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$   
on N. face and raised a  
md of stone alongside  
Pls impracticable

T21SR31, E

chs

80.34 The cor to secs. 11-12-13-14  
 Land rolling and  
 mountainous  
 Soil stony 4" rate  
 Good grass

---

North bet secs 11 & 12.  
 Ch. 12° 41' E

40.00 Set a lava stone 18x12x7 ins  
 12 ins in the ground for  
 1/4 sec cor. marked 1/4 on W.  
 face, and raised a mid of  
 stone along side

Pits impracticable

80.00 Set a lava 20x15x12 ins  
 15 ins in the ground for  
 cor to secs 1-2-11-12 marked  
 with 5 notches on Sand



T 21 S R 31 E

chs

1 notch on E edges and  
raised a mid of stone  
along side,

Pits impracticable  
Sand rolling very strong  
Soil 3" white  
Some grass

---

E on a random line  
bet sec 1 & 12

$\text{Va. } 12^{\circ} 41' \text{ E}$

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

68.00 Cross dry wash so lks mid,  
course N. E.

80.12 Intersect E. Br. of T<sub>p</sub>.  
16.79 cor to sec 1-6-7-12  
previously set by me  
Thence I run



T. 21 S. R. 31 E.

Chs

77.89.53.7. <sup>77</sup> a true line bet sec 14 & 12. With same N.

48.86

Set a lava stone 14x18x8 ins 9 ins in the ground for 1/4 sec cor, marked 1/4 on N face, and raised a mid of stone along sid.

Pit impracticable

St. 12

The cor to secs 1. 2. 11. 12

Land rolling.

Numerous small sharp lava rocks

Soil 4 Rats

North on a true line bet sec 14 & 12

N 12° 41' E.

40.00

Set a post 9 ft long 3 ins square. 12 ins in the

T2/SR312

Ch

ground for  $\frac{1}{4}$  sec cor  
marked  $\frac{1}{4}$  S on W face  
and raised a md of  
stone  $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft  
base around post.

Plz impracticable  
St. 76 Intersect the  $\frac{1}{4}$  Standard  
Parallel South 4.10  
Ch West of the  
Standard  $\frac{1}{4}$  sec cor  
on South boundary of  
Sec. 35 which is a  
post 3 ins square  
marked S.C.  $\frac{1}{4}$  S on  
N face. and put <sup>post</sup>  
 $18 \times 18 \times 12$  ins  $\text{E} + \text{W}$   $5\frac{1}{2}$  ft  
dist and md of <sup>Eq. W</sup>  $1\frac{1}{2}$  ft  
high  $3\frac{1}{2}$  ft base around  
post.

at point of intersection

T 2 / S R 3 / 2

Chs

Set a lava stone  $14 \times 10 \times 12$   
 ins. 9 ins in the ground  
 for closing cor to secs  
 1 & 2, marked C. C., <sup>on S.</sup> with  
 1 notch on 2 and 5 notches  
 on Wedges. and raised  
 a rd of stone along side.  
 Pit impractical  
 Land rolling  
 Soil 9" rat very stony  
 and rough.

Good Sacs

November 30 1883

---

I carefully examined  
 the adjustments of my Solar  
 instrument to-day partic-  
 ularly the latitude and



T21 SR 31 E

Ch2

reversing apparatus  
and found them correct.

From the cor. to sec. 23-34  
& 35 on the S. By. of Sp.  
previously set by me.

I run,

N. bet sec. 34 & 35

On  $12^{\circ} 14' E$

along bottom of crater

11.00 Enter dry lake bed bet. NW. & S.E.

32.00 Leave same, bears N.W. & S.E.

40.50 Set a lava stone  $13 \times 14 \times 18$  ins

9 ins in the ground for  
 $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N.  
face and raised a mid of



221 S P 31 2

chs

stone alongside

Pits impracticable

53.00 Ascend from crater Bars

N. E. & S. W.

67.00 To edge of basin Arq. N. E. & S. W.

and lean crater 520 ft. deep; and along broken

west slope of mountain

69.00 Cross ravine & chs wide ca. S. W.

80.00 Set a lava stone 15x13x10 ins

10 ins in the ground for cor to secs. 26-27, 34, 35, marked

with 1 notch on S and 2 notches on E edges, and raised

a rd of stone alongside

Pits impracticable

Land: mountainous, and

and volcanic

Soil 2" & 4" rate

Good grass, some mesquite

T. 21 S. R. 31 E

Chs

On a random line  
bet secs 26 & 35  
N 13° 15' East

Ascend

36.00 Top of ... Mountain, spurs  
bear N & S. and

descend

40.00 2nd temporary 1/4 Sec. Cor.

80.20 Intersect N & S line 20 lks  
S. of cor to sec 25-26. 35-36

Thence, I run.

S. 89° 51' W. on a true line  
bet secs 26 & 35.

With same Co.

40.10 Set a lava stone 18x2x8 ins  
9 ins in the ground for  
1/4 sec cor marked 1/4 on N  
face. and raised a md  
of stone alongside.  
Pits impracticable

T. 21 S. R. 31 E.

cks

80.21 The cor. to secs 26, 27, 34, 35  
 Land Mountainous and broken  
 Soil 3" & 4" rats  
 Good grass

---

North bet secs 26 & 27  
 Va 13° 15' East

Along slope of ridge

4000 Set a lava stone 20x15x4 ins  
 15 ins in the ground for  
 1/4 sec cor marked 1/4 or W.  
 face and raised a md of  
 stone alongside

Pits impracticable

81.01 Set a lava stone 15x10x7 ins  
 10 ins in the ground for  
 cor to secs 22, 23, 26, 27  
 marked with 2 notches



T 21. S R 31 E

Sh.

on S. and E. edges  
and raised a md of  
stone along side

Pits impracticable  
Land Mountainous, W. slope  
of ridge

Soil very rocky <sup>and</sup> poor.  
Thin grass

---

Can a random line bet  
secs 23 & 26

N. 19° 15' East

Along N. end of ridge  
bears South

4000 Sep temporary 1/4 sec  
cor.

7000 Leave Mountainous land  
bears N. W. & S. E.



T 21 S R 91 E

Ch

SO. 22 Intersect N. 7 S. line 14  
 lks. top cor to sec 23, 24, 25, 26

Thence I run:

S 89° 54' W on a true  
 line bet sec 23 & 26

With same Va

40.11 Set a lava stone 20 x 15 x 6  
 ins 15 ins in the ground  
 for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$  on  
 N face, and raised a row  
 of stone along side

It's impractical

SO. 22 The cor to sec 22, 23, 26, 27.  
 Land rolling <sup>100 yds</sup> and <sup>40 yds</sup> mountainous  
 Soil stony. 4" rate  
 Fair grass

---

P. 2, S. R. 3, E.

chs

At bet secs 22 & 23  
 Va 19' 10' East

Over flats

40.00 Set a lava stone 13x9x8  
 ins 10 ins in the ground for  
 $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$  on N.  
 face and raised a md of  
 stone along side

Pits impracticable

80.00 Set a lava stone 16x8x7 ins  
 11 ins in the ground for  
 cor to secs 14, 15, 22, 23.

marked with 3 notches on S  
 and 2 notches on E edge  
 and raised a md of stone  
 along side

Pits impracticable

Sand level & rolling  
 Good grass

T. L. / S. R. 31 E,  
chs

On a random line bet  
secs 14 & 23

Qa 19° 10' East

Over level flat

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

79.74 Intersect N & S line 14 lks

South of cor to secs 15, 14, 23, 24

Then I run

S. 89° 54' W on a true line  
bet secs 14 & 23. With same N

39.87 Set a lava stone 12 x 12 x 7 ins

8 ins in the ground for  $\frac{1}{4}$

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

and raised a md of stone

along side. Pit impractical

79.74 Then to secs 14, 15, 22, 23

Land rolling

Soil 3" 7" rate

Good grass



22 SPR 10

cha

N. bet secs 14 & 15

(Ca 130/18' East

4000

Set a lava stone 13x2x6 ins  
9 ins in the ground for  $\frac{1}{4}$   
sec cor marked  $\frac{1}{4}$  on N  
face and raised a mid of  
stone along side

Pit impracticable

8008

Set a lava stone 28x12x10  
ins 21 ins in the ground  
for cor to sec 10-11-14-15.

marked with 4 notches on S  
and 2 notches on E edge  
and raised a mid of stone  
along side. Pit impracticable

Land rolling

Soil 3' rat

Good grass

T 2 / S R 91 E  
Chs.

Evon a random line bet  
secs 11 & 14.

$N 130^{\circ} 10' E$

4000 Set temporary  $\frac{1}{4}$  sec. cor.  
7920 Intersect - N & S line 2' dks  
So. of cor. to secs 11, 12, 13, 14

Thence I run.

$S 89^{\circ} 57' W$  on a true line  
bet secs 11 & 14. With same  $N 130^{\circ}$

39.85 Set a lava stone  $20 \times 10 \times 7$  ins  
15 ins in the ground for  $\frac{1}{4}$   
sec. cor. marked  $\frac{1}{4}$  on N face  
and raised a md. of  
stone along side.

Pits impracticable

7920 The cor to secs 10, 11, 14, 15.  
Land rolling  
So. is  $9'' \times 4''$  rate  
Good grass

T. D. S. R. 3. 1. E.

chs

North Ref. sec. 10711

Na 130 12' E

40.00 Set a lava stone 15x7x7  
ins 10 ins in the ground  
for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$   
on N face, and raised  
a md of stn along side  
Pits impracticable

80.00 Set a lava stone 16x12x7  
ins 11 ins in the ground for  
cor to sec 2, 3, 7, 8, 11, marked  
with 5 notches on S, and 2  
notches on E edges, and  
raised a md of stn along  
side. Pits impracticable  
Sand rolling  
Soil 3"  $\frac{1}{4}$ " rat  
Good grass



T. 21 S. R. 91 E.

Chs

E. on a random line bet  
secs 2 & 11Qa  $13^{\circ} 20' E$ 4000 Set temporary  $\frac{1}{4}$  sec cor80.12 Intersect N & S line 12 lbs  
of cor to secs 1, 2, 11, 12Thence  $\odot$  run.SP  $90^{\circ} 55'$  W on a true  
line bet secs 2 & 11With same  $\odot$ .40.06 Set a lava stone  $13 \times 2 \times 2$  ins  
pins in the ground for  $\frac{1}{4}$   
sec cor marked  $\frac{1}{4}$  on N. face  
and raised a mud of stone  
alongside. Pits impractical.

80.12 The cor to secs 2, 3, 10, 11

Sand rolling

Soil B "VH" rate

Good grass

T. 21 S. R. 31 E.

chs

North on a true line  
bet secs 2 & 3

$26^{\circ} 12' 41''$  E

4000 Set a lava stone  $12 \times 11 \times 9$   
ins. 8 ins in the ground  
for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$   
on N. face, and raised a  
md of stn alongside  
Pits impracticable

8036 Intersect the 4" Standard  
Parallel South, S. 90 chs.  
West of Standard  $\frac{1}{4}$  sec  
cor. on South boundary  
of sec 34, which is a  
post 3 ~~in~~ square marked  
S.C.  $\frac{1}{4}$  S on N face, with  
Pit  $18 \times 18 \times 12$  ins E & W of  
post  $5\frac{1}{2}$  ft. dist and a  
md of earth  $1\frac{1}{2}$  ft high  
 $3\frac{1}{2}$  ft base around post

T. 21 S. R. 31 E.  
 chs

At point of intersection  
 set a post 4 ft long 4 ins  
 square 12 ins in the  
 ground for closing con.  
 to secs 2 & 3, marked  
 C.C. T 21 S. R 31 E on S  
 S. 2 on E. and  
 S. 3 on W. faces. with 2  
 notches on E and 4 notches  
 on W. faces. and raised  
 a mud of stone 2 ft high  
 4 1/2 ft base around post.  
 Land rolling  
 Soil 5" & 4" rate  
 Good grass

December 1 1883

from the con to secs 3, 4 & 33, 34  
 on the south By of Th. previously  
 set by me.

Arun.



T. J. S. R. S. I. E.

Ch

North by sec 33 & 34  
 N.  $13^{\circ} 15' - E.$

Over rolling land

40.00

Set a lava stone  $14 \times 9 \times 7$   
 ins 9 ins in the ground for  
 the sec cor marked  $\frac{1}{4}$  on W  
 face, and raised a md  
 of stone along side.

Pits impracticable

80.00

Set a lava stone  $15 \times 6 \times 3$   
 ins 10 ins in the ground for  
 cor to sec 27 & 28 + 33, 34  
 marked with 1 notch on S  
 and 3 notches on 2 edges  
 and raised a md of stone  
 along side.

Pits impracticable

Land rolling

Soil 3' 7 1/2" rate

Thin grass

T. Q. S. R. 31. E.

cks

On a random line  
bet secs 27 & 34

$N 130^{\circ} 18'$  East

24.00 Enters mountainous land

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

St. 16 Intersect  $N 4$  line 16 cks  
S. of cor to secs 26, 27, 34, 35

Thence I run

$S 89^{\circ} 53'$  W. on a true line  
bet secs 27 & 34

With same  $N 4$

40.08 Set a lava stone  $14 \times 9 \times 8$  ins

drives in the ground for  $\frac{1}{4}$   
sec. cor. marked 40 on N. face

and raised @ end of stone  
along side. Pit impracticable

St. 16 The cor. to secs. 27, 28, 33, 34

Land <sup>24 cks</sup> rolling & <sup>36 cks</sup> mountainous  
Soil  $S 13^{\circ} 44'$  rate

Good grass

T. 21 S. R. 31 E.

Ch

North bet secs 21 & 22  
Co 19° 12' E

40.00 Set a lava stone 12x12x12 ins  
11 ins in the ground for 1/4  
sec cor marked 1/4 on W  
face and raised @ mid of  
stone along side,

Pts impracticable

80.00 Set a lava stone 24x12x8  
ins. 18 ins in the ground  
for cor to secs 15-16-21-22  
marked with 3 notches  
on S and E edges and  
raised @ mid of stone  
along side

Pts impracticable

Land slightly rolling

Sai 3" & 4" rate

Good grass



T. Q. 1 S. R. 31 E.

Sh

E on a random line  
bet secs 15 & 22

N 13° 12' E

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

S. 16. Intersect N of S line, 13-cks

N. of cor to secs 14, 15, 22, 23

Thence I run,

N. 89° 54' W on a true line

bet secs 13 & 22,

With same N 9

40.08 Set a lead stone 13x12x12 ins

pins in the ground for  $\frac{1}{4}$  sec  
cor. marked  $\frac{1}{4}$  on N. face and  
raised a end of stone

along side. It's impractical

S. 16. The cor to secs 15, 16, 21, 22.

Land slightly rolling.

Soil 3" + 4" rot

Good grass

T. 21 S. R. 31 E.

Ch

North bet sec 15 & 16  
Co 13° 12' E

Ascend gradually  
4000 Set a lava stone 16x13x13  
ins in the ground for  
4 sec cor marked 4 on W fac,  
and raised a md of stone  
along side.

Pit impracticable

8000 Set a lava stone 12x12x8 ins  
8 ins in the ground for cor  
to sec 9, 10, 15, 16, marked  
with 4 notches on S and  
3 notches on E edges, and  
raised a md of stone along  
side. Pit impracticable  
Land Rolling  
bi stone 9 7/8 rate  
Good grass

Q1 SRB12

cha

E. on a random line bet  
secs 10 & 15

W<sub>a</sub> 12° 48' E

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

61.00 Round Hill 15 cha North

W. 16 Intersect N.W.S. line 26 lks  
So of cor to sec 10, 11, 14, 15

Thence I run.

S 89° 49' W on a true line  
bet secs 10 & 15

With same W<sub>a</sub>

40.08 Set a lava stone 12x12x5 ins  
11 ins in the ground for  $\frac{1}{4}$  sec  
cor marked  $\frac{1}{4}$  on N face, and  
raised a ind of stone along  
side. Pits impracticable

80.16 The cor to sec 9, 10, 15, 16

Land rolling & hilly  
So's 37  $\frac{1}{4}$ " rate

Good grass



T. L. S. R. 31 E,  
Ch

North bet sec 9 & 10  
Va 12° 48' E

- Over broken Malpais land
- 4000 Seta lana stone 20x10x2 ins  
15 ins in the ground for  $\frac{1}{4}$   
sec cor. marked  $\frac{1}{4}$  on W face  
and raised a md of stone  
along side. Pit impracticable
- 7600 Descend into valley land, bear  
E & W.
- 8000 Seta lana stone 15x12x9 ins  
10 ins in the ground for cor  
to sec. 9' 4' 9' 10, marked  
with 5 notches on S and 3  
notches on E edges, and  
raised a md of stone along  
side. Pit impracticable  
Sand rolling, surface covered  
with broken Malpais rocks  
Soil 4" rat  
Good grass

T. 21 S. R. 31 E.

Chs

E. on a random line bet  
secs 3 & 10

W<sub>a</sub> 12° 41' E

40.00 Set temporary 1/4 sec cor.

79.90 Intersect N. S. line 22 chs

S. of cor to secs 2-3-10-11

Thence I run

S 89° 51' W on a true line

bet secs 3 & 10,

With same W<sub>a</sub>

39.95 Set a lava stone 13x12x12 ins

9 ins in the ground for 1/4

sec cor, marked 1/4 on N. face

and raised a row of stone

along side

It is impracticable

79.90 The cor to secs 3-4-9-10

Land rolling

Soil 3" & 1/2 rate

Good grass

T 21 S. R. 31 E

chs

on a true line  
North, bet sec 3 & 4  
Co 12° 41' E

6.00 Leave Malpais land  
bears N.E. & S. W.

33.00 Enter dry wash co. East

36.00 Leave same. on E. side

40.00 Set a post 3 ft long 3 in  
square, with marked stone  
12 ins in the ground for  
4 sec cor marked 1/4 S on  
N. face. dug pits 15x15x12  
ins N & S. of post, 5 1/2 ft  
dist. and raised a mound  
of earth 1 1/2 ft high 3 1/2  
ft base around post.

From which

A spring bears N 58°  
30' W. 26.78 chs dist

50.48 Intersect 4" Standard  
Parallel South 3.50 chs



T. 21 S. R. 31 E.

shs

West of the Standard  
 $\frac{1}{4}$  sec cor on S. By of sec  
 33. Which is a post 3  
 ins square, marked  
 S.C.  $\frac{1}{4}$  S on N face with  
 pits 18X18X12 ins E & W,  
 of post 5 $\frac{1}{2}$  ft dist, and  
 a mud of earth 1 $\frac{1}{2}$  ft high  
 3 $\frac{1}{2}$  ft base around post.  
 At point of intersection  
 Set post 4 ft long 4 ins  
 square with marked  
 Stone 12 ins in the ground  
 for closing cor to sec  
 34, marked:  
 C.C. T 21 S. R. 31 E. on S  
 S 3 on E and  
 S 4 on W faces with 3  
 notches on E & W faces,  
 dug pits 18X18X12 ins

T2/SR310

cds

S.E. & W. of post,  $5\frac{1}{2}$   
 ft diam. and raised a  
 rim of earth 2 ft high  
 $4\frac{1}{2}$  ft base around post.  
 Land rolling  
 Soil 3" red  
 Good grass

December 2 1883

35

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

T. 21 S. R. 31 E.

chs

No. 960

From the cor. to sec. 28  
 4.5-32.33 on S. By  
 of J. previously set  
 by me. I run

North bet. sec. 32 & 33

Co.  $13^{\circ} 12'$  East.

Along West slope of lava hill

15.00 Highest point on West slope  
 and descend

32.00 Leave foot of lava hill  
 bear N. E. & S. W.

40.00 Set a lava stone  $12 \times 12 \times 8$   
 11 ins in the ground for  $\frac{1}{4}$   
 sec cor marked  $\frac{1}{4}$  on W face  
 and raised @ mid of stone  
 along side

P. to impractical

80.00 Set a lava stone  $12 \times 12 \times 10$   
 ins 11 ins in in the ground  
 for cor @ sec 28, 29, 32, 33



T21 SR. 31 E

cha

marked with 1 notch  
on S. and 4 notches on  
E. edges. and raised  
a mid of stone along side  
Pits impracticable.

Land <sup>3 1/2 chs</sup> mountainous remainder  
and rolling  
Soil 3" & 4" rate  
Good grass

E on a random line  
bet secs. 28 & 33

20 130 12' E

40.00  
79.78

Set temporary 1/4 sec cor  
Intersect V & S line 14. lbs cor  
to secs 27-28. 33' 34,

N 89° 54' W thence I run

20 on a true line bet sec

T. Q. 1 S. R. 31 E.

aka

39.89 28793, with same No.  
Set a lava stone  $12 \times 12 \times 8$   
ins. 11 ins in the ground  
for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$  on  
N face. and raised a mud  
of stone along side.

Pits impracticable

29.78 The cor to sec. 28-29. 32-33

Land slightly rolling  
Set  $3 \times 4$ " hat

Good grass

North bet sec 28 & 29

N $\frac{1}{2}$  130 12' E

Over broken ground

40.00 Set a lava stone  $20 \times 12 \times 10$   
ins 15 ins in the ground  
for  $\frac{1}{4}$  sec cor, marked  $\frac{1}{4}$  on

Q, R, S, T, U, V, W, X, Y, Z

chs

Space and raised a  
mid. of stone along side  
Pits impracticable

8000

Seto lava stone 17X16X1.  
inst 11 ins in the ground for  
con to sec. 20-21-28-29  
marked with 2 notches  
on S and 4 notches on  
Edges, and raised a  
mid of stone along side  
Pits impracticable  
Land rolling & broken  
Soil 3" & 4" rat  
Good grass

Con a random line  
bet sec 21 & 28  
No 130/2, E



# Q1 S R S I E

the

40.00 Set temporary 1/4 sec. cor.  
 N. 12 Intersect N & S line 30  
 lbs N. of cor to sec 21, 22,  
 27, 28. Thence I run  
 N 89° 47' W on a true line  
 bet sec 21 & 28.

With same N &  
 40.06 Set a lava stone, 10x10x9  
 ins, 11 ins in the ground for  
 1/4 sec cor marked 1/4 on N  
 face, and raised a mid  
 of stone alongside.  
 Pits impracticable  
 land level and rolling  
 Soil 3" & 1/4" rat  
 Good grass.

N bet sec 20 & 21  
 @ 130° 12' E

T. 21 S. R. 31 E.

Ch<sub>2</sub>

4000

Set a lava stone 15x10x9  
ins 10 ins in the ground for  
1/4 sec. cor. marked 1/4 on W  
face, and raised a row of  
stone along side.

Pits impracticable

8000

Set a lava stone 13x12x7 ins  
9 ins in the ground for  
cor to sec's 16-17, 20, 21  
marked with 3 notches  
on S, and 4 notches on E  
edges, and raised a row  
of stone along side.

Pits impracticable  
Land nearly level  
Soil 3 "44" rot  
Good grass

T. S. R. 31 E.

Ch

Co on a random line  
bet secs 16 & 21

Q 13° 12' E

4008 Set temporary  $\frac{1}{4}$  sec. cor.  
80.16 Intersect T S line 24 ch  
North of cor to secs 15-16-21-22  
Thence S run.

N 89° 58' W on a true line  
bet secs 16 & 21.

With same Q.

80.18 Set a lava stone 25 X 12 X 12 ins  
15 ins in the ground for  $\frac{1}{4}$  sec  
cor marked 4 on N face and  
raised a md of stone along  
sid. Pts impracticable

80.16 The cor to secs 16-17-20-21  
Land slightly rolling  
Soil 3<sup>rd</sup> & 4<sup>th</sup> "rat"  
Good grass



Q1, S, R, 3, 1, E,

ds

North bet sec 16 & 17  
 Va 190 12' East

40.00 Set a lava stone 15x10x8 ins  
 18 ins in the ground for 1/4  
 sec cor. marked 1/4 on W  
 face, and raised a mid  
 of stone along side

Pits impracticable

57.00 Square flat, least NW, SE

80.00 Set a lava stone 16x8x5 ins  
 11 ins in the ground for cor  
 to sec 18, 9, 16, 17. Marked  
 with 4 notches on S & E  
 edges, and raised a  
 mid of stone along side

Pits impracticable

Land level & rolling  
 Soil 3' 7 1/2' rate  
 Good grass

T. 21 S. R. 31 E.

Chs

On a random line  
bet secs 9 & 16

N $\alpha$  13 $^{\circ}$  28' E

4008 Set temporary 1/4 sec cor  
7982 Intersect N & S line. 14. S.  
cor to secs 9, 10, 13 & 16.

Thence I run,

S. 89 $^{\circ}$  3' 40" true line bet  
secs 9 & 16. With same N $\alpha$

3991 Set a laro stw 14x8x8  
ins 9 ins in the ground on  
1/4 sec cor marked 4 on N face  
and raised a mt of stw  
along aid. Pits impracticable

7982 The cor to secs 8, 9, 16, 17  
Land slightly rolling  
Soil 9" & 4" rate  
Good grass

T. 21 S. R. 31 E.

Chs

North bet sec 8 & 9

R. 30 1/2 E

4.00

Set a lava stone  $18 \times 12 \times 7$  ins

9 ins in the ground for 1/4  
sec cor, marked 1/4 on W face  
dig pit  $18 \times 18 \times 12$  ins

Set top of stone  $5 \frac{1}{2}$  ft dia  
and raised a mud of  
earth  $1 \frac{1}{2}$  ft high  $3 \frac{1}{2}$   
ft base along side

144.00

ascend ridge bet E & W,

69.00

Top of same base N. & S. W.  
and descend

80.00

Set a lava stone  $15 \times 15 \times 8$  ins

11 ins in the ground for cor  
to sec 4, 5, 8 & 9, marked  
with 5 notches on S and  
4 notches on E edges

and raised a mud of  
ston, along side.



T 21 S, R, 31 E,  
Chs

Pit impracticable  
Sand rolling  
and mountainous  
Soil 3" rate  
Good grass

---

E on a random line  
between 4 & 9  
N 12° 41' E

Ascend Hill by N, E, & S, W  
3400 Top of same bears N 14° E  
S 16° W. and descend  
4000 Set temporary base  
cor.

8040 Intersect N 4 S line 17 lks  
N of cor to secs 3, 4, 9, 10  
Thence I run

T21SR31E,

Ch

N. 89° 53' W. on a true line  
bet secs 4 & 9

With same Va

40 20

Set a lava stone, 15x8x7 ins  
18 ins in the ground for  
1/4 sec cor marked 4 on  
N. fac. and raised a  
rod of stone along side  
Pit's impracticable

80, 40

The cor to secs 4, 5, 8, 9  
Land is Mountainous  
Soil 3" & 4" rat  
Grass good

North on a true line bet  
secs 4 & 5.

Va 12° 41' E

81, 00

Cross rocky arroyo. 20

T21SR312

chs

lks wide co. E, and  
 leave malpais

40.00 Set lava stone 10x10x8  
 ins. 7 ins in the ground for  
 1/4 sec cor marked 4 on W  
 face, and raised a md  
 of stone along side.

Pits impracticable.

64.00 Water, 2 chs. W.

80.57 Intersect 1/4" Standard  
 parallel. South 3.20 chs  
 West of standard 1/4 sec  
 cor on South By. of sec  
 32. which is a post  
 3 ins square, marked  
 S.C. 1/4" S on N face, with  
 pits 18x18x12 ins E + W  
 of post 5 1/2 ft dia  
 and a md of earth  
 12 ft high 3 1/2 ft base



T. L. S. R. S. E.  
dx

around post.  
 at point of intersec-  
 tion set a sand stone  
 20x15x8 ins 15 ins in the  
 ground for closing  
 cor to secs 4 & 5, marked  
 C.C. with 4 notches on  
 E and 2 notches on W  
 edges. dug pit 18x18x12  
 ins S. E. & W of stone 5 1/2  
 ft dist and raised a  
 mound of earth 2 ft high  
 4 1/2 ft base along side.  
 Land in this mountainous. *Ternacordia*  
 Soil <sup>yellow</sup> 3' rate  
 Good grass

December 3<sup>rd</sup> 1883

T. 21 S. R. 31 E.

chk

From the cor to sec 31 & 32 on S. By of T. previous by set by me.

I run

N. bet secs 31 & 32  
2a 13° 12' E

Along West side of crater

12.00 Leave crater and descend

36.00 Leave foot of same, bears N. E. & S. W.

40.00 Set a lava stone 16x13x7 ins 11 ins in the ground for 1/4 sec cor & marked 1/4 on W. face. and raised a md of ston. along side. Pits impracticable

80.00 Set a lava stone 17x12x5 ins 11 ins in the ground for cor to sec 29-30-31-32. marked with notch on S and 5-

T. 21 S. R. 31 E.

Ch<sub>2</sub>

notches on E edges. dud  
 pits 18x18x12 ins in  
 each sec 5 $\frac{1}{2}$  ft dist and  
 raised a md of earth  
 2 ft high  $4\frac{1}{2}$  ft base  
 along side

Land. 36 ch<sub>2</sub> mountainous. 44 ch<sub>2</sub>

<sup>rolling</sup> soil 3" 7 $\frac{1}{2}$ " rat  
 good grass

E on a random line bet  
 secs 29 & 32

N 13° 15' E

31.00 cross dry arroyo S 2 ch<sub>2</sub>  
 mid. Course. S.

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

79.76 intersect V & S line 18 ch<sub>2</sub>  
 S. of cor to secs. 28, 29, 32, 35



T21 S R31 E

chs

Thence I run  
S  $89^{\circ} 52'$  W on a true  
line bet secs 29 & 32

With same Va.

39.88 Set a lava stone  $12 \times 12 \times 7$  ins  
8 ins in the ground for  $\frac{1}{4}$   
secs cor marked  $\frac{1}{4}$  on N face  
dug pits  $10 \times 18 \times 12$  ins E & W  
of stone 52 ft dia and  
raised a mt of earth  $1\frac{1}{2}$  ft  
high  $3\frac{1}{2}$  ft base along side

79.76 The cor to secs 29-30-31-32  
Land rolling  
Soil 3" rate  
Good grass

W on a random line  
bet secs 30 & 31.  
Va  $130^{\circ} 15'$  E

T21 S.R. 31 E.

Ch

4000 Set temporary  $\frac{1}{4}$  sec cor  
 78.20 Intersect West By of T<sub>p</sub>.  
 15 lka S. of cor & secs  
 25-30. 31-36. previously  
 set by one. Thence

I run  
 S89°54'E. on a true  
 line bet secs 30 & 31.

With same No.

38.20 Set a lava stone 18x10x8 ins  
 12 ins in the ground for  
 $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$  on  
 N face and raised a  
 mid of stone alongside  
 P<sub>1</sub> impracticable

78.20 The cor & secs 29. 30. 31-32  
 Land rolling  
 Soil 3" rat

T. S. R. S. E.

cha

N. bet secos 29 & 30  
Va 13.12' E

40.00 Set a lava stone 18x12x7 ins  
12 ins in the ground for  
1/4 sec cor marked 1/4 on N  
face, and raised a mid of  
stone along side.

Pts impracticable

43.00 Ascend ridge bet. E. & N.

52.00 Top of same and descend

63.00 Foot of same, bet. E. & W.

80.00 Set a lava stone 20x10x7 ins  
15 ins in the ground for  
cor to secos 19, 20, 29 & 30  
marked with 2 notches  
on S. and 5 notches on  
E edges, and raised a mid of  
stone along side.

Pts impracticable

Land Hilly & rolling



721 S. R. 31 E.

Ch

Set 3"  $\frac{1}{4}$ " rat  
good grass

On a random line  
bet. sec. 20 & 29

N 13' 5" E

1300 Cross over 15'  $\frac{1}{4}$ " wide  
course S 15° E

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

79.90 Intersect N. P. S. line 20'  $\frac{1}{4}$ "  
S. of cor. to sec. 20 & 21 & 28 & 29

Thence I run  
S 89° 51' W. on a true line  
bet. sec. 20 & 29

With same N 6

39.95 Set a lava stone 13 x 12 x 8  
ins. 9 ins. in the ground  
for  $\frac{1}{4}$ " sec. cor. marked

T21 S R 31 E.

chq

$\frac{1}{4}$  on N face and raised  
a md. of stony along side  
Pits impracticable.

79.90 The cor to secs 19.28.29.30

Land rolling and rocky

Soil 5" & 11" rate

Some grass

W. on a random line by  
sec 19 & 30.

N 130 S' E

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

78.94 Intersect W. By of T<sub>2</sub>.

28 lks S. of cor to secs

19.24.25.30, previously

set by m. Thence

I run

S 89° 48' E on a true line

T21 S. R. 31 E.

cha

bet secs 19730

With same Va

38.94 Set a lava stone  $19 \times 12 \times 8$  ins  
 15 ins in the ground for  
 $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on  
 N. face and raised a end  
 of stone alongside.

Pits impracticable

78.34 The cor to secs 19.20.29.30

Land rolling  
 Soil  $\frac{1}{4}$ " red  
 Some grass

North bet secs. 19720.

Va  $13^{\circ}$   $0^{\circ}$  E

18.14 Cross arroyo 30 lks mid  
 course S. E.



## T 21 S. R. 31 E.

chs

- 41.00 Set a lava stone  $19 \times 12 \times 7$  ins.  $1\frac{1}{2}$  ins in the ground for  $\frac{1}{4}$  sec car. marked  $\frac{1}{4}$  on N face, and raised a md of stone along side  
Ditz impracticable
- 71.00 Ascend hill base N.W. & S.E.  
80.00 Top of low hill. Set a lava stone  $24 \times 10 \times 7$  ins  $1\frac{1}{2}$  ins in the ground for car to sec 17. 18. 19. 20. marked with 3 notches on S. and 5 notches on E edges. and raised a md of stone along side  
Ditz impracticable  
Land selling  
Pail 3'  $\frac{1}{2}$   $\frac{1}{2}$  rate  
Some grass

# T. L. S. R. S. E.

As

E. on a random line  
bet sec. 17 & 20

Qa 19° 8' E

Descend

12.00 Leane Hill bears N. 7 S.

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

79.76 Intersect N 7 S line 32 S of  
cor to sec. 16. 17. 20. 21

Thence Drum. 889° 46'

W. on a true line bet  
sec. 17 & 21. With same Qa

39.88 Set a malpais stone 15x14x9  
ins 10 ins in the ground

for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$   
on N. fac. and raised  
a md of stone along side.  
Pts impracticable

79.76 The cor to sec. 17. 18. 19. 20

Land rolling  
Soil 3" & 4" hat  
Same grass

T. 21 S. R. 31 E,  
Chs

W. on a random line bet  
secs. 18 & 19

Wa  $13^{\circ} 8' E$

Over broken land

46.000 Set temporary  $\frac{1}{4}$  sec cor.  
78.94 Intersect Pt. By of T<sub>p</sub> 18  
lks S of cor to secs. 19 & 18  
19.24. previously set by  
me. Francis Drum  
S  $89^{\circ} 52' E$  on a true line  
bet secs 18 & 19.

With same wa.

38.94 Set a lava stone 19x1x8  
ins 14 ins in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$   
on N face and raised a mid  
of stone alongside.

Pits impracticable

78.94 The cor to secs 17, 18, 19, 20  
Land broken and rolling



T21 S. R. 31 E.

cha

Sail 3"  $\frac{7}{8}$ " rate  
 Good grass

North bet sec 17 & 18  
 T21 12° 41' E

5.00 Ascend lava cone, bears  
 N.W. & S. E.

20.00 Top of same, and along  
 W. edge of crater, crater  
 & cha. East

40.00 Set a lava stone 12" x 12" x 10  
 ins 9 ins in the ground  
 for  $\frac{1}{4}$  sec cor. marked  $\frac{1}{4}$   
 on W. face, and raised a  
 md of stone along side  
 Pits impracticable

T 21 S. A. 31 E.

chs

Thence descend <sup>slaps, bears</sup> N.E. & S.W.  
 54.00 Foot of cone here N.E. & S.W.  
 80.00 Set a lava stone, 15x14x8 ins  
 10 ins in the ground for con  
 to secs. 7, 8, 17, 18, marked  
 with 4 notches on S and  
 5 notches on E edges, and  
 raised a md of stone  
 along side.  
 Pits impracticable  
 Land broken  
 Soil stony 4" rate  
 good grass

Con a random line bet  
 secs 8 & 17

Na 19° S. E  
 Over rolling land

T. Q. I. S. R. 31 E.

Ch

- 4000 Temporary  $\frac{1}{4}$  sec. cor,  
 79.82 Intersect  $\frac{1}{4}$  S line 26 lks  
 N of cor to secs 8-9, 16-17  
 Thence I run  
 N  $89^{\circ} 49'$  W. on a true  
 line bet secs 8-17  
 With same  $\frac{1}{4}$   
 39.91 Set a lava stone  $12 \times 10 \times 9$   
 ins 8 ins in the ground  
 for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$   
 on N fact. and raised  
 a md of stone alongside  
 Pts impracticable  
 79.82 The cor to secs 7-8, 17-18  
 Land rolling  
 Set  $3''$  &  $\frac{1}{2}''$  rate  
 good grass

December 4<sup>th</sup> 1883



T. 21 S. R. 31 E.  
chs

W. on a random line  
bet secs. 7 & 8

Ba  $13^{\circ} 0' E$

Over rolling land

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

78.40 Intersect W. By of Tp. 20  
lks S. of cor to secs. 7 & 12

13.18. previously set by  
me. Thence I run  
 $S 89^{\circ} 51' E$  and a true line  
bet secs. 7 & 8

With same Ba.

38.40 Set a lava stone  $19 \times 12 \times 8$   
ins. 9 ins in the ground  
for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$   
on N face and raised a  
rod of stone along side  
Pits impracticable

78.40 The cor to secs 7 & 12. 18  
Land rolling

T. 21 S. R. 31 E.

Ch

Said 3" x 4" rat  
 Good grass

---

Net sec 7 & 8  
 Va 12° 41' E

40.00 Seta lava stone 12x10x10  
 ins 8 ins in the ground  
 for 1/4 sec. cor. marked  
 1/4 on N face and raised  
 a md of stone along side  
 pits impractical

77.00 Leane lava ~~for cor. in line~~ Va 12° 41' E

80.00 Seta lava stone 16x12x8  
 ins 11 ins in the ground  
 for cor to sec 5, 6, 7, 8  
 marked with 5 notches  
 on S & E edges and  
 raised a md of stone

P21 S. R. 31 E.

Ch

along side  
 Ditch impracticable  
 Land rolling  
 Sap 3" rate  
 Good grass

E on a random line  
 bet secs 5 & 8  
 $N_{61} 13^{\circ} 0' E$

- 40.00 Set temporary  $\frac{1}{4}$  sec. cor.  
 57.00 Enter land area N.E. & S.W.  
 80.18 Intersect N & S line 42 lks  
 Sap cor to secs 4, 5, 7 & 9  
 Thence I run  
 $S 89^{\circ} 42' W$  on a true  
 line bet secs 5 & 8.  
 (With same  $N_{61}$ )  
 40.09 Set a land ston, 18x10x10



T. 21 S. R. 3. 1 E.

cha

ins 9 ins in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  with face  
and raised a mid of  
stone along side

Pits impracticable

S. 18 The cor to secs 5. 6. 7. 8.

Land rolling

Soil 3" & 4" Crato

Good grass

W. on a random line  
bet secs 6 & 7.

Co. 13° S. E

1900 Enter lava line NW, & S. E.

4000 Set temporary  $\frac{1}{4}$  section

7852 Intersect W. By, of T. 21

24 lbs S. of cor to secs

1. 6. 7. 12. previously set

T. 21 S. R. 91 E,

Chs

by me. Thence

I run

S 89° 50' E on a true  
line bet sec 9 & 17

With same 1/4

38.52. Set a lava stone, 17x12x8 ins  
11 ins in the ground on  
1/4 sec cor marked 1/4 on  
N. face, and raised a  
rod of stone along side  
Pit impracticable

78.52 Thence to sec. 5-6-7-8

Land rolling  
Soil 3' 4" H. Vato  
good. Grass

T21 S.R. 31 E.

ch<sub>2</sub>

North on a true line  
bet sec<sub>2</sub> 5 & 6  
CA 12° 41' E

- 40.00 Set a lava stone 18x18x7  
ins 7 ins in the ground  
for  $\frac{1}{4}$  sec cor. marked  $\frac{1}{4}$   
on N. face. dug pits  
18x18x12 ins N & S of  
stone. 5 $\frac{1}{2}$  ft dist and  
raised a mt of earth  
 $\frac{1}{2}$  ft high 3 $\frac{1}{2}$  ft base  
along side
- 52.50 Old trail. hrs NW & S.E.
- 66.60 cross arroyo 30 lks wide  
ca 8.
- 80.42 Intersect 4" Standard  
Parallel South. P. 30  
ch<sub>2</sub> West of Standard  
 $\frac{1}{4}$  sec cor. on S. by Sec  
31. which is a granite



T. 21 S. R. 31 E

rock 10x10x8 ins. firmly  
set in the ground. marked  
S.C.  $\frac{1}{4}$  on N. face, with  
Pits 18x18x12 ins E & W  
of stone, 5 $\frac{1}{2}$  ft dist and  
a md of earth 1 $\frac{1}{2}$  ft high  
3 $\frac{1}{2}$  ft base along side

At point of intersection  
Set a lava stone 12x8x8 ins  
8 ins in the ground for  
closing cor to sec 5 & 6  
marked C.C. with 5 notches  
on E and 1 notch on W  
edges. dug pits 18x18x12  
ins. S, E, & W. of stone  
5 $\frac{1}{2}$  ft dist and raised  
a md of earth 2 ft high  
4 $\frac{1}{2}$  ft base along side,  
Land level  
Said 3" rate  
good grass.

I carefully examined  
the adjustments of my  
solar instrument today  
particularly the lat-  
itude and reversing  
apparatus and found  
them correct.

December 5 1883

## General Description

Nearly the whole of this  
Tp is covered with a  
very old flow of lava  
which has broken up into  
small rocks, making it  
bad for grazing purposes  
also rendering progress very  
difficult.

There are several lava  
cones standing in various  
parts of the Tp. that gives it  
a rather broken appearance.  
The cor to see's 2.3. 34 <sup>and 35</sup>  
on the South Big of Tp  
sets in a crater about  
six hundred feet deep  
<sup>and</sup> from sixty to eighty ch's  
in width, the walls are  
very abrupt & broken, and  
on the whole is a very wild  
looking place. Here



A Gittlett (the applicant for survey) has a spring and ranch in the N.E. 1/4 of sec 5. There is also another spring in N.E. 1/4 of sec. 4.

The soil ranges from 2<sup>nd</sup> to 4<sup>th</sup> class. Grass very good.

For final oaths see Book, No. 10.

## U. S. Surveyor General's Office,

Tucson, Arizona, Mar. 19, 1884.

The foregoing Field Notes of the Survey of the

Subdivision lines of  
Township 21 South  
Range 31 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-  
ted by Walter Benoit

Deputy Surveyor, under his contract of the 1st

day of October, 1883 having been

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

are hereby approved

Royce Johnson  
Surveyor General.