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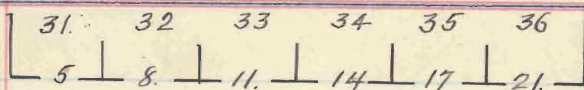
FIELD NOTES  
GENERAL LAND OFFICE.

*1<sup>st</sup> Standard  
Parallel South  
— through —  
R's 26, 27, 28 & 29*

Field Notes.  
of the Survey of the  
First Standard Parallel  
South.  
Through  
Ranges 26, 27, 28, and 29, East  
of the  
Principal Base and Meridian,  
in the  
Territory of Arizona.  
Alfred L. Trippel,  
U.S. Deputy Surveyor,  
as surveyed by  
Philip Courtzen Comparison  
under Contract No. 29,  
dated June 17, 1893.  
Survey Commenced, <sup>Nov.</sup> 18, 1895.  
Survey Completed, Nov. 26, 1895.

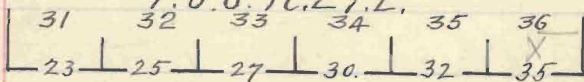
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T. 5. S. R. 26. E.



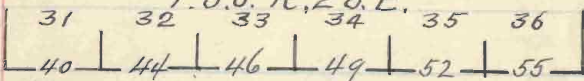
1st. Standard Par. S.

T. 5. S. R. 27. E.



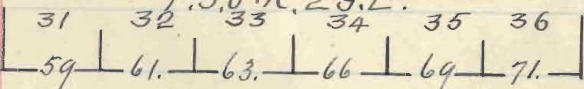
1st. Standard Par. S.

T. 5. S. R. 28. E.



1st. Standard Par. S.

T. 5. S. R. 29. E.



1st. Standard Par. S.

First Standard South.

Range 26 E	5
" 27 E	23
" 28 E	40
" 29 E	59

## First Standard Parallel

I begin at the closing  
Corner of townships 6 S.  
ranges 25<sup>and</sup> 26 East  
which is a stone 13 X 12  
X 10 ins. above ground,  
firmly set, properly mar-  
ked and witnessed, as  
described by the Sur-  
veyor General.

At this point, in Lat.  
 $32^{\circ}57'$  N. Lon.  $109^{\circ}42'$   
W. November 18, 1895,  
at 3<sup>h</sup> 23<sup>m</sup> a.m. by my  
watch, which is correct,  
by local mean time  
I observe Polaris at its  
Western elongation, in  
accordance with instruct-  
ions in the manual

South, through Range 26. East.

and mark the line thus determined, by a tack driven in a wooden plug set in the ground, five chains north of the corner.

At 7<sup>h</sup> 30<sup>m</sup> a.m. I lay off the azimuth of Polaris  $1^{\circ} 29.5'$  to the East, and I mark the true Meridian thus determined, by cutting a mark on a stone firmly set in the ground, East of the point established at 3. 23<sup>m</sup> a.m. this morning. The magnetic bearing of said true meridian is  $N 12^{\circ} 34' W$ , which reduced by the table on

## First Standard Parallel South.

page 100. of the Manual gives the mean magnetic declination  $12^{\circ} 32'$  East, At.  $8^{\text{h}} 0^{\text{m}}$  a. m. l. m. t. I set off  $32^{\circ} 57'$  on the lat. arc.  $19^{\circ} 17'$  on the decl. arc, and mark a point in the true meridian, determined with the Solar, by a Cross, on the Stone, already set 5.00 chs. N. of this Corner; this mark falls 0.2 ins. west of the true meridian established by the Polaris observation. The Solar apparatus by this observation, practically agrees with the meridian

## Through Range 26. East.

chs. established by the Polaris observation: therefore I conclude the adjustments of my instrument are satisfactory. —

Thence I run  
East on S. bdy. Sec. 36.  
Va.  $12^{\circ} 32' E.$

over rolling land.

- 11.15 Dry wash, 10 lks. wide,  
flows South
- 20.17 Dry wash, 40 lks. wide,  
flows S. S. W.
- 30.10 Standard Cor. of Tps. 5  
S. R. 25. and 26. East.  
a stone  $5 \times 8 \times 7$  ins. above  
ground, firmly set, properly  
marked and witnessed, as.

## First Standard Parallel South

Chains described by the Surveyor  
General.

---

East. on S. bdy Sec. 31.

Va.  $12^{\circ}32'E$ .

over broken land

- |       |   |
|-------|---|
| 4.80  | Begin ascent.   |
| 8.00  | Top, of ridge, trans. N.T.S.  |
| 9.00  | Begin descent.  |
| 15.00 | Enter bottom, trans. N.T.S.   |
| 16.05 | Dry wash, 10 lbs. wide,<br>flows South  |
| 21.25 | Dry wash, 12 lbs. wide,<br>flows S.   |
| 26.50 | Begin ascent  |
| 39.50 | Top. of ascent, trans. N.T.S.   |
| 40.00 | Set a malpais Stone $15 \times 12$<br>$\times 5$ ins., 10 ins. in the ground,<br>for Standard $\frac{1}{4}$ Sec. Cor. |



## Through Range 26. East

chain marked L.C.  $\frac{1}{4}$  on N. face; <sup>and</sup>  
 raise a mound of stone, 2 ft.  
 base,  $1\frac{1}{2}$  ft. high, N. of Cor.  
 Pits impracticable.

This point was determined by two  
 sets of chainmen; difference is 22' lks

Position of Middle point

By 1<sup>st</sup> set. 40.06 chs.

By 2<sup>d</sup> set. 39.94 chs.

the mean of which is 40 chs.  
 as above stated.

- 43.00 Begin descent.  
 50.70 Enter bottom.  
 55.50 Gulch, 15 lks. wide, flows S.  
 56.00 Begin ascent.  
 57.26 Top, trans. N. & S.  
 63.50 abrupt ascent.  
 71.50 Top of abrupt ascent,  
 trans. N. & S., descend

## First Standard Parallel South

- chains  
78.30 Dry wash, 10 lks. wide,  
flows S., ascual
- 78.90 Bank of wash, trans. N. & S.  
Difference between measurement  
of 80.00 chs. by two sets of  
Chamisso is 13 lks.
- Position of Middle Point  
By 1<sup>st</sup> set. 79.93 $\frac{1}{2}$  chs.  
By 2<sup>d</sup> set. 50.06 $\frac{1}{2}$  chs.  
The mean of which is
- 80.00 Set a Malpais Stone 18x8  
x5 ins, 12 ins, in the ground  
for Standard Cor. of Secs. 31. ( $\frac{1}{4}$ )  
32, marked S.C. on N. <sup>face</sup> with  
1 groove on W. and 5 grooves  
on E. faces, and raise a  
mound of stone, 2 ft. base,  
1 $\frac{1}{2}$  ft. high, N. of Cor.  
Pits impracticable.

## Through Range 26. East.

Chains Land Mountainous.

Soil, gravelly & stony; 2<sup>d</sup> & 3<sup>d</sup> rate  
No timber. Scattering undergrowth  
Mountainous land sq. chains.

East. on S. bdy. Sec. 32.

ascend.

5.25 Top. of ridge, trans. N. &amp; S. descend

9.60 Enter bottom, trans. N.E. &amp; S.W.

13.72 Dry wash., 20 lks. wide,  
flows S.W.

16.18 Trail, trans. N.E. &amp; S.W.

17.00 Begin ascent.

20.00 Top. of ridge, trans. N.E. & S.W.  
descend

28.00 Enter bottom

28.50 Dry wash, 15 lks. wide,  
flows, S.W. ascend

30.00 Top, trans. N. &amp; S., descend

Difference between measurements

## First Standard Parallel South

Chains of 40.00 chs. by two sets of  
chainmen is 6 lks.

position of middle point

By 1<sup>st</sup> Set. 40.03 chs.

By 2<sup>d</sup> Set. 39.97 chs.

the mean of which is

40.00

Set a marble Stone 15x10x5  
ins. 10 ins in the ground for  
Standard 1/4 Sec. Cor., marked  
S. Corner N. face; and raise a  
mound of stone 2 ft. base, 1 1/2  
ft. high. N. of Cor. -

Pits impracticable -

48.70

Dry wash, 13 lks. wide,  
flows. S.W.

51.68

Descend to Cañon, bears. N.E. + S.W.

53.26

Bottom

61.80

Dry wash, 60 lks. wide,  
flows. S.W.; ascend

## Through Range 26. East.

chs.  
64.10 Tap, from N.E. + S.W; descend

75.10 Dry wash, 11 lks. wide,  
flows S.W. ascend

Difference between measurements  
of 80.00 chs. by 2 sets of chain  
men. is 10 lks., position of middle point.

By 1<sup>st</sup> set 80.05 chs.

By 2<sup>d</sup> set. 79.95 chs.

The mean of which is

80.00 Set a Malpais Stone 18x9x5  
ins., 12 ins. in the ground for

Standard Sec. Cor. <sup>of Sec. 32. + 33</sup> marked  
S.C. on N., with 2 grooves  
on W. and 4 grooves on  
E. faces, and raise a mound  
of stone, 2 ft. base, 1 1/2  
ft. high, N. of Cor.

Pits impracticable  
Land, Mountainous.

## First Standard Parallel South

Chains. Soil, gravelly & stony; 3<sup>d</sup> & 4<sup>th</sup> Natl  
No. Standard. Scrub grease-  
wood and ocotilla undergrowth  
Mountainous land 80. chains.

East on S. Fly. Sec. 33.

over Mountainous land, ascend

1.56 Trail, bears N.E. & S.W.

10.10 Bank, bears N.W. & S.W. descend

10.45 foot of bank

11.70 Dry wash, 20 lks. wide,  
flows S.S.E., ascend

14.75 ridge, bears N.N.E. & S.W. descend

17.80 Enter bottom.

17.90 Dry wash, 12 lks. wide,  
flows S.W.; ascend.

31.50 Ridge, bears N.E. & S.W.; descend

38.70 Enter bottom

38.90 Dry wash, 20 lks. wide,  
flows S.W.; ascend

## Through Range 26. East.

chain Difference in measurements  
of 40.00 chs. by 2 sets of chain  
men is 4 lks, position  
of middle point,

By 1<sup>st</sup> set. 39.98 chs.

By 2<sup>d</sup> set. 40.02 chs.

the mean of which is

40.00 a Malpais Stone 6x3x3 in  
in place above ground. for  
standard  $\frac{1}{4}$  Sec. Cor. marked  
S.C.  $\frac{1}{4}$  on N. face, and  
raise a mound of stone  
2 ft. base,  $1\frac{1}{2}$  ft. high  
N. of Cor. fits impracticable.

47.90 Gulch, 10 lks. wide, flows S.W.

58.00 Top of ridge, trans. N.E. & S.W., descend

66.82 Dry wash, 8 lks. wide, flows  
S.W., & ascend

72.00 Ridge, trans. N.E. & S.W., descend

First Standard Parallel South  
chs.

77.39 Dry wash, 8 lks. wide, flows  
S.W., as usual

Difference, between Measurements  
of 80.00 chs.  
by 2 sets of chainmen is  
8 lks. portion of middle  
point,

By 1<sup>st</sup> set. 79.96 chs.

By 2<sup>nd</sup> set. 80.04 chs.

The mean of which is

80.00 Set a malpais stone 20x8x4  
ins., 15 ins., in the ground, for  
for Standard Cor. of Secs. 33 & 34,  
marked S.C. on N. face, with 3  
grooves on E & W. faces, and  
raise a mound of stone, 2  
ft. base, 1 1/2 ft. high, N. of Cor.

Pits impracticable.

Land, mountainous.

Soil, gravelly & stony, 3<sup>rd</sup> & 4<sup>th</sup> rate



## Through Range 26. East.

chains No. timber, undergrowth

scrub greasewood.

Mountainous land. 80. chains. -  
Nov. 18. 1895.

East on S. side Sec. 34

over mountainous land. ascend

5.00 Ridge, trans. N.E. &amp; S.W., descend

12.70 Dry wash, 10 lks. wide, flows  
S.W., and ascend

18.00 Ridge, trans. N.E. &amp; S.W., descend

24.30 Enter bottom

27.25 Dry wash, 18 lks. wide, flows  
S.W.

28.62 Road, trans. N.E. &amp; S.W.

29.00 ascend flat.

30.00 Enter flat, trans. N.E. &amp; S.W.

31.75 leave flat, &amp; descend

32.10 bottom. Dry wash, 10 lks. wide,  
flows southerly, ascend.Difference between measurements  
of 45.00 chs.

## First Standard Parallel South

- chains by two sets of chainmen  
is 12 lks. position of Middle point  
By 1<sup>st</sup> set. 40.06 chs.  
By 2<sup>d</sup> set. 39.94 chs;  
the mean of which is  
40.00 Set a Galpais Stone 12x10x5  
ins. 8 ins. in the ground - for  
Standard  $\frac{1}{4}$  Rec. Cor. marked  
S.C.  $\frac{1}{4}$  on N. face; and raise  
a mound of stone 2 ft. base,  
1 $\frac{1}{2}$  ft. high, N. of Cor.  
Pits impracticable
- 49.00 Ridge, trans. N.T.S.; descent to  
W. fork of Cottonwood Cañon
- 57.20 Enter bottom
- 57.45 Dry wash, 11 lks. wide, flows S.
- 57.80 Road, trans. N.T.S.
- 58.40 Shaft, trans. N. 20 lks. dist.
- 58.60 Begin ascent of ridge, bet.

## Through Range 26. East.

chain	E. and W. forks. of Cottonwood Cañon
59.00	Ridge, and entire mesa
71.63	Begin descent
74.00	Entire bottom
76.95	Dry wash 50 lks, wide flows, <sup>about</sup> N.W.
79.20	Top, entire mesa

Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks. partition of the middle point

By 1<sup>st</sup> set. 79.97 chs.

By 2<sup>d</sup> set. 80.03 chs.

the mean of which is

80.00 Set a malpais stone 24x9x 4 in 18 in. in the ground. for standard Cor. of Recs. 34<sup>th</sup> and 35. marked S.C. on N, with 4 grooves. on W. and 2 grooves. on E. faces, and raise a mound of Stone 2 ft.

## First Standard Parallel Abut

chain base,  $1\frac{1}{2}$  ft. high, N. of Cor.

Pits impracticable

A Mesquite 6 ins. diam., trans  
N $0^{\circ}30'E$ , 232 lks. dist; marked

S. 5. N. R. 26. E. S. 35. R. 1. -

Land, Mountainous.

Soil, gravelly & stony; 3<sup>d</sup> & 4<sup>th</sup> rate

No timber. undergrowth  
greasewood & ocotillo.

Note. From this Cor. Cottonwood  
Springs, is N. about  $\frac{1}{2}$  mile dist.  
Mountainous land 80. chains.

East on S. 6<sup>th</sup> S. 35.  
over mesa land

4.00 Begin descent.

4.60 Enter bottom

4.75 Dry wash, 14 lks. wide, flows.

S.W.; ascend

10.96 Trail, to mine trans. N.W. & S.E.

## Through Range 26. East.

chains 12.80	Shaft, 10 ft. deep, trans. S. 10 lks. dist.
15.00	Top of ridge, trans. N. & S.; Shaft. trans. S 31° W.; Shaft. trans. S 3¼° W.; Shaft. trans. S. 50 lks. dist.; old Furnace trans. S 21½° E; descend
20.75	Enter bottom
20.80	Road, trans. N. & S.
20.92	Dry wash, 10 lks. wide, flows. S. <sup>channel</sup>
24.02	Trail, trans. N. & S.
25.20	Shaft, trans. S. 75 lks. dist.
25.30	Top, enter mesa, trans. N. & S.
31.60	Begin descent.
32.20	Enter bottom trans. N. & S.
33.70	Dry wash, 18 lks. wide, flows. S. descend
39.92	Ridge, trans. N. & S.

Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point,

## First Standard Parallel South

- chains By 1<sup>st</sup> Set. 39.98 chs.  
 By 2<sup>d</sup> Set. 40.02 chs,  
 the mean of which is
- 40.00 Set a malpais stone 15x15x5 ins  
 10 ins. in the ground, for Stand-  
 ard 1/4 Sec. Cor., marked S.C.  
 1/4 on N. face; and raise a  
 mound of stone, 2 ft. base, 1 1/2  
 ft. high, N. of Cor.  
 Pits impracticable
- 41.00 Begin descent
- 42.00 Bottom & ascend, trans. N. & S.
- 49.60 Top trans, N. & S., descend
- 53.10 Bottom & ascend
- 53.70 Top, trans. N. & S., descend
- 54.30 Dry wash, 8 lks. wide, flows S.,  
 ascend
- 68.00 Ridge, trans. N. & S., descend
- 70.00 Enter bottom. ~~at~~
- 71.95 Dry wash, 10 lks. wide, flows S.,  
 ascend

## Through Range 26. East

chs.  
73.50 Ridge, trans. N. & S., descend  
74.30 Dry wash, 15 lks. wide, flows S.; <sup>ascend</sup>  
Difference between measurements  
of 80.00 chs. by two sets of chain  
men. is 10 lks. position of  
middle point.

By 1<sup>st</sup> set 80.05 chs.

By 2<sup>d</sup> set 79.95 chs.

The mean of which is,

80.00 Set a Malpais Stone 18x12x5 ins.  
12 ins. in the ground. for stand-  
ard Cor. of Secs. 35. <sup>2d</sup> and 36. mark  
S.C. on N. with 5 grooves on W.  
and 1 groove on E faces, and  
raise a mound of Stone 2 ft.  
base 1 1/2 ft. high, N. of Cor.

Pits impracticable.

Land, mountainous 80. chains.  
Soil, stony; 4<sup>th</sup> rate.

No timber, some grass.

## First Standard Parallel. South

chains	East. on S. Ely S. 36
21.00	over Mountainous land, ascending Gulch, flows S.W., then West, ascending
	Difference between measurements of 40.00 chs. by two sets of chainmen, is 10 lks. Position of middle point
	By 1 <sup>st</sup> set. 40.05 chs.
	By 2 <sup>d</sup> set. 39.95 chs.
	The mean of which is
40.00	Set a malpais Stone 24x10x8 ins 18 ins. in the ground. for. Stand and $\frac{1}{4}$ Sec Cor, marked S.C.
	$\frac{1}{4}$ on N. face, and raise a mound of Stone 7 ft. base, $1\frac{1}{2}$ ft. high, N. of Cor. -
55.50	Pits impracticable, ascending Top of Casimiro Peak
56.09	Begin descent.
	Difference between measurements



## Through Range 26. East.

chains of 80.00 chs, by two sets of chainmen is 10 lbs. portion of middle point.

By 1<sup>st</sup> set. 79.95 chs.

By 2<sup>d</sup> set. 80.05 chs.

the mean of which is

80.00 Set a Malpais Stone 15x9x8 in  
10 in. in the ground. for Stand-  
ard Cor. of Sp. 5. S. Rs. 26<sup>and</sup>  
27. E. Marked. -

S.C. 5 S. on N.

27 E on E and

26 E on W. faces, with 6 grooves  
on N. E<sup>and</sup> W. faces, and raise  
a mound of stone, 2 ft. base,  
1 1/2 ft. high, N. of Cor.

Pits impracticable.

Land, Mountainous. 80. chains.

Soil, Stony, 4<sup>th</sup> rate.

No timber; fair grass. Nov. 19/95

## First Standard Parallel South

Chains November 20. At 8<sup>h</sup> 0<sup>m</sup> a.m. l.m.t.,  
 I set off  $32^{\circ} 57'$  on the lat.  
 arc  $19^{\circ} 45'$  S. on the decl. arc.  
 and determine a true  
 meridian with the solar  
 at the Standard Cor. of  
 Sps. S. S. R.S. 26<sup>th</sup> and 27. East.  
 Thence I run  
 East, on S. bdy Sec. 31.  
 over Mountainous land  
 Descending along E. slope  
 of Casimiro mountain.  
 Difference between measurements  
 of 40. chs., by two sets of  
 chains is 14 lks.  
 Position of middle point  
 By 1<sup>st</sup> Set. 39.93 chs.  
 By 2<sup>d</sup> Set. 40.07 chs.  
 The mean of which is  
 40.00 Set a Malpais Stone, 20x5x6

## Through Range 27. East.

Chassis ins., 15 ins., in the ground  
for Standard  $\frac{1}{4}$  Sec. Cor., marked  
S.C.  $\frac{1}{4}$  on N. face, and  
raise a mound of stone, 2  
ft. base,  $1\frac{1}{2}$  ft. high, N. of Cor.  
Pits impracticable.

Descending

71.00 Gulch, 30 lks. wide, flows N.E.

Difference between measurements  
of 80. chs. by two sets of chain-  
men is 18 lks., position of  
middle point

By 1<sup>st</sup> set. 80.09 chs.

By 2<sup>d</sup> set. 79.91 chs.;

the mean of which is

80.00 Set a malpais stone  $18 \times 10 \times 7$   
ins., 12 ins., in the ground. for  
Standard Cor. of Secs. 31<sup>and</sup> 32,  
marked S.C. on N., with 1

## First Standard Parallel South

chains groove on W. and S. grooves  
on E. faces; and raise a mound  
of stone, 2 ft. base,  $1\frac{1}{2}$  ft.  
high, N. of Cor.

Pits impracticable.

Land, Mountainous

Soil, stony; 3<sup>d</sup> + 4<sup>th</sup> rate

Timber, a few scattering Cedars

Mountainous land 80. chains

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East. on S. bdy Sec. 32.  
over Mountainous land  
ascending.

23.30 Top of ascent, bears N. + S.

26.86 Begin descent, bears N. + S.

Difference between measurements  
of 40. chs., by two sets of  
chainmen is 18 lks.

Position of middle point

## Through Range 27. East.

- chain By 1<sup>st</sup> set. 80.09 chs.  
 By 2<sup>d</sup> set. 79.91 chs.  
 the mean of which is  
 40.00 Set a Malpais Stone 18x10x4  
 ins. 12 ins. in the ground, for  
 Standard  $\frac{1}{4}$  Sec. Cor., marked  
 S.C.  $\frac{1}{4}$  on N. face, and raise  
 a mound of Stone, 2 ft. base,  
 1 $\frac{1}{2}$  ft. high, N. of Cor.  
 Pits impracticable.  
 Descending
- 55.65 Dry wash, 9 lks. wide, flows  
 southerly, ascend.  
 Difference between measurements  
 of 80. chs. by two sets of chain  
 men, is 24 lks. - position  
 of middle point.  
 By 1<sup>st</sup> set. 79.88 chs.  
 By 2<sup>d</sup> set. 80.12 chs.

## First Standard Parallel South

chain The mean of which is  
 80.00 Set a malpais stone 18x10x6  
 ins., 12 ins. in the ground for  
 Standard Cor. of Secs. 32 & 33,  
 marked S.C. on N., with 2  
 grooves on W. and 4 grooves  
 on E. faces, and raise a mound  
 of stone, 2 ft. base, 1 1/2 ft.  
 high N. of Cor.

Pits impracticable.

Land, Mountainous,

Soil, Stony; 3<sup>d</sup> & 4<sup>th</sup> rate.

No timber. Ocotillo undergrowth.

Mountainous land. 80. chs.

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East on S. side Sec. 33.

over Mountainous land,

ascending from Gulch

3.90 Top, bears S.E. & N.W.; descend

## Through. Range 27. East.

chains Difference between measurements of 40. chs. by two sets of chain men. is 4 lks., position of middle point.

By 1<sup>st</sup> set. 39.98 chs.

By 2<sup>d</sup> set. 40.02 chs.

The mean of which is

40.00 Set a Malpais Stone 18x10x6 ins.

12 ins., in the ground, for Standard  $\frac{1}{4}$  Sec. Cor., marked S.C.

$\frac{1}{4}$  on N. face, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high. N. of Cor.

Pits impracticable.

Descending

72.08 Dry wash, 20 lks. wide, flows S.E. Bottom of descent

77.50 Dry wash, 12 lks. wide, flows S.W. ascend.

## First Standard Parallel South

chains Difference between measurements of 80. chs. is 12 lks. by two sets of chainmen. Position of middle point.

By 1<sup>st</sup> set. 79.94 chs.

By 2<sup>d</sup> set. 80.06 chs.

✓ 80.00 the mean of which is  
 Set a Malpais Stone 17x8x7 ins  
 12 ins. in the ground, for  
 Standard Cor. of Secs. 33<sup>rd</sup> & 34,  
 marked, S.C. on N. with 3  
 grooves on E<sup>nd</sup> & W. faces, and  
 raise a mound of stone, 2  
 ft. base, 1 1/2 ft. high, N. of cor.  
 Piti impracticable.

Land, Mountainous  
 Soil, Stony; 4<sup>th</sup> rate  
 No timber. greasewood brush  
 Mountainous land 80. chs.

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## Through Range 27. East.

chains	East. on S. bdy Sec. 34. over Mountains land, ascend
14.00	Top of ridge bears S.E. & N.W.; descend
33.00	Bottom & ascend
38.35	Ridge, bears S.E. & N.W.; descend
	Difference between measurements of 40. chs. by two sets of chain- men is 8 lks. Position of Middle point.
	By 1 <sup>st</sup> Set. 39.96 chs.
	By 2 <sup>d</sup> Set. 40.04 chs.
	The mean of which is
40.00	Set a Malpais Stone 18x10x10 ins. 12 ins. in the ground, for Stand and 1/4 Sec. Cor., marked S.C. 1/4 on N. face, and raise a mound of Stone, 2 ft. base 1 1/2 ft. high, N. of Cor. Pits impracticable.

# First Standard Parallel South

chain

40.25 Descend, more abruptly

73.10 Trail, trans. N.T.S.

Difference between measurements of 80. chs. by two sets of chainmen is 20 lks. position of middle point.

By 1<sup>st</sup> set. 79.90 chs.

By 2<sup>d</sup> set. 80.10 chs.

the mean of which is.

80.00 Set a Malpais Stone 13x10x8 ins 9 ins, in the ground. for Standard Cor. of Secs. 34. and 35.

Marked, S.C. on N. with 4 grooves on W. and 2 grooves on E. faces, and raise a mound of stone 2 ft. base, 1/2 ft. high, N. of Cor.

Pits impracticable.

Land, mountainous.

## Through Range 27. East.

chains Soil, gravelly & stony, 3<sup>d</sup> & 4<sup>th</sup> mate  
 No timber. Scattering grease  
 wood undergrowth  
 Mountainous land. 80. chs.  
 November 20. 1895.

East on S. side Sec. 35.

over mountainous land, descending

24.00 foot of descent.

27.22 Dry wash, 30 lks. wide, flows S.E.

28.90 Begin ascent.

Difference between measurements  
 of 40. chs. by two sets of chain-  
 men is 8 lks, position of  
 middle point.

By 1<sup>st</sup> set. 39.96 chs.

By 2<sup>d</sup> set. 40.04 chs.

the mean of which is

40.00 Set a porphyry stone 15x8x6

## First Standard Parallel South

chain vis. 10 vis. in the ground. for  
Standard  $\frac{1}{4}$  Sec Cor., marked  
S.C.  $\frac{1}{4}$  on N. face, and raise  
a mound of stone, 2 ft. base,  
 $1\frac{1}{2}$  ft. high, N. of Cor.

Pits impracticable

A Mesquite 10 vis. diam. bears  
N  $40^{\circ}$  E 88 lks. dist. marked  
S.C.  $\frac{1}{4}$  S. B. I. -

A Mesquite 4 vis. diam. bears  
N  $61^{\circ}$   $\frac{1}{4}$  W 127 lks. dist. marked,  
S.C.  $\frac{1}{4}$  S. B. I. -

41.70 Tap, bears N.E. & S.W. descend

45.40 Head of Gulch, flows S.W.

69.55 Entire bottom, bears N.E. & S.W.

70.10 Dry wash, 15 lks. wide, flows S.W. <sup>usual</sup>

78.20 Tap, bears N.N.E. & S.S.W., descend

Difference between measurements  
of 80. chs. by two sets of chain-

## Through Range 27 East

chains mean is 10 lks, position of  
Middle Point.

By 1<sup>st</sup> set. 79.95 chs.

By 2<sup>d</sup> set. 80.05 chs.

the mean of which is

80.00

Set a Malpais Stone, 15x10x8 in.

10 in, in the ground, for Stand-  
ard Cor. of Secs. 35<sup>th</sup> and 36<sup>th</sup>. Marked

S.C. on N. with 5 grooves on  
W. and 1 groove on E. faces.

and raise a mound of stone  
2 ft. base, 1 1/2 ft. high, N. of Cor.

Pits impracticable.

Land, Mountainous.

Soil, stony, 3<sup>d</sup> & 4<sup>th</sup> rate

No timber. Grease wood  
wonder growth.

Mountainous Land, 80. chs.

## First Standard Parallel South

- chains East on S. bdy Sec. 36.  
 over mountainous land, descending  
 6.15 Dry wash, 10 lks wide, flows S.E.  
 16.50 Begin ascent.  
 21.38 Trail, bears N.E.  
 23.40 Top, bears S.E. & N.W., descend  
 32.70 Bottom, dry wash 10 lks wide,  
 flows Southwly; & ascent  
 Difference between measurements  
 of 40. chs. by two sets of Chain-  
 men is 12 lks, position of  
 middle point  
 By 1<sup>st</sup> set. 40.06 chs.  
 By 2<sup>d</sup> set. 39.94 chs.  
 the mean of which is  
 40.00 Set a Malpais Stone 24x10x10 ins  
 18 ins. in the ground. for Stand-  
 ard 1/4 Sec. Cor., marked S.C. 1/4  
 on N. face, and raise a

## Through Range 27, East

chain	Mount of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of Cor. Pit's impracticable.
42.00	Ascend, trans. S.E. + N.W.
43.00	Descend, gradually to Basita Cañon
64.70	Ravine, trans. S. S.W.
75.40	Ravine, trans. S.
76.00	ascend Small ridge
79.00	Ridge, trans. N. + S. descend
	Difference between measurements of 80. chs., by two sets of chainmen, is 4 lbs., partition of middle point
	By 1 <sup>st</sup> set. 79.98 chs.
	By 2 <sup>d</sup> set. 80.02 chs.
	The mean of which is
80.00	Set a Malpais Stone 20 x 12 x 6 in., 15 in. in the ground for Standard Cor. of Tps. 5, S. R. 5.

1<sup>st</sup> Stand. Parallel S. thro' R. 27. E.

Chains 27<sup>th</sup> & 28<sup>th</sup> E. marked

S. C. 5. S. on N.

27. E. on W. end

28 E. on E faces. and raised

a mound of stone. 2 ft base

1 1/2 ft. high. N. of Cor.

Pits impracticable.

Land, Mountainous.

Sail, stormy, 3<sup>d</sup> & 4<sup>th</sup> rate

No timber. Scrub greasewood

Mountainous land. 80 chs.

November 21 1895.

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At the Standard Sp. Cor.

just established. in lat.

32° 57' N. Long. 109° 30' W.

November 22. at 3<sup>h</sup> 11<sup>20</sup> a.m.

by my watch which indicates

true l. m. t., I observe



1<sup>st</sup> Stand Parallel. S. thro' R. 28. E.

Polaris, at western elongation in accordance with instructions in the manual, and mark the line thus determined by a tack driven in a wooden plug set in the ground, five chains north of the corner.

At 7<sup>h</sup>30<sup>m</sup> a.m. I lay off the azimuth of Polaris  $1^{\circ}30'$  to the east, and mark the true meridian thus determined by cutting a mark on a stone firmly set in the ground, east of the point established this morning. The magnetic bearing of said true meridian is  $N 12^{\circ}34' W$ . which reduced by the table on page 100 of the manual, gives the mean

First Standard Parallel South

chains Magnetic declination.

$12^{\circ} 32'$  East.

At  $8^{\text{h}} 0^{\text{m}}$  a.m. I set off  $32^{\circ} 57'$  on the lat. arc,  $20^{\circ} 11'$  S on the decl. arc, and mark the true meridian determined with the Solar, by a cross on the Stone already set. 5 chs. 77 of this Cor., this mark falls 0.25 ins west of the true meridian established by the Polaris observation.

The Solar apparatus defines the true meridian sufficiently exact. therefore I conclude the adjustments of the instrument are satisfactory. Hence I run.

## Through Range 28. East.

chairs	East on S. side Sec. 31.
	over Mountainous land, descending
2.38	Bottom. Dry wash, 8 lks. wide, flows N., ascend
5.30	Ridge, trans. N. + S., descend
8.75	Bottom + ascend
25.78	Ridge, trans. N. + S., descend
29.80	Bottom. Ravine, trans. S., ascend
31.05	Ridge, trans. N. + S., descend
33.73	Bottom, Ravine trans. S., ascend
34.48	Ridge, trans. N. + S., descend
36.50	Entire bottom of <sup>cañon and</sup> Mesquite + Sycamore
	Difference between measurements of 37 chs. by two sets of chain- men, is 18 lks, position of middle point
	By 1 <sup>st</sup> set. 37.09 chs.
	By 2 <sup>d</sup> set. 36.91 chs.
	the mean of which is

## First. Standard Parallel South

chs.  
37.00

Set a malpais Stone 24x14x9  
ins. 18 ins. in the ground. for  
witness to Standard  $\frac{1}{4}$  Sec. Cor.  
marked W.C. S.C.  $\frac{1}{4}$  on N. face  
and raised a mound of stone  
2 ft. base.  $1\frac{1}{2}$  ft. high. N. of Cor.  
Pits impracticable

Here

A Sycamore 13 ins. diam. bears  
N  $19^{\circ}$  E 74 lks. dist. marked  
W.C. S.C.  $\frac{1}{4}$  S. B.T.

A mesquite 12 ins. diam. bears  
N  $12\frac{1}{2}^{\circ}$  W 91 lks. dist. marked  
W.C. S.C.  $\frac{1}{4}$  S. B.T.

37.11 Trail, bears E. S. E + W. N. W.

38.50 Bonita Creek, 150 lks. wide,  
flows E. S. E.

39.77 ascend from Bonita Creek, and  
leave mesquite and sycamore  
Difference between measurements  
of 40. chs. by two sets of Cham-

## Through Range 28. East.

chain men is 18 lks. position of  
middle point.

By 1<sup>st</sup> set. 40.09 chs.

By 2<sup>d</sup> set. 39.91 chs.

The mean of which is

40.00 This point falls on the steep  
bank of Bonita Cañon, the  
Witness, to this Cor. bears West  
3.00 chs. dist.

59.00 Ridge, bears E. S. E. + W. N. W., descend

66.50 Gula bottom

66.70 Dry wash, 50 lks. wide, floor, E. S. E.

67.00 leave bottom + ascend, bears N. + S.

Difference between measurements  
of 80. chs. by two sets of chain-  
men is 30 lks. position of  
middle point.

By 1<sup>st</sup> set. 80.15 chs.

By 2<sup>d</sup> set. 79.85 chs.

## First Standard Parallel South

chain the mean of which is  
80.00 a Malpais rock in place

30 x 15 ins. 16 ins. above ground,  
marked with a Cross at exnd  
for Standard Coy. of Rev. Sp. and 22  
Cor. painted with S.C. on N.  
and 1 groove on W. and 5  
grooves on E face; and raise  
a mound of stone 2 ft. base  
1 1/2 ft. high N. of Cor.

Rills impracticable.

Land, Mountainous

Soil, loam & stony, 1<sup>st</sup> & 4<sup>th</sup> rate

Timber, mesquite & Sycamore  
in Bonita Cañon -

Scrub greasewood undergrowth  
and Sotillo.

✓ Mountainous land 80chs.

November 22. Noon 1895.

## Through Range 28. East.

Chains East on S. 64y Sec. 32.

over mountainous land; ascending

1.45 Ridge, trans N.E. & S.

3.60 Trail, trans. S.E. & N.W.

5.00 Begin descent

10.44 Trail, trans. S.E. & N.W.

13.20 Bottom & ascend

14.00 Top, trans. S.E. & N.W.; descend

14.50 Bottom & ascend

29.00 Top of Ridge, trans. N.E. & S.; descend

35.85 Bottom & ascend ridges

Difference between measurements  
of 40. chs. by two sets of chain-  
men is 32. lks. Position of  
middle point

By 1<sup>st</sup> set. 40.16 chs.

By 2<sup>d</sup> set. 39.84 chs.

the mean of which is

40.00 Set a malpais Stone 14 X 11 X 8 ins.

## First Standard Parallel South

chain 9 in. in the ground, for Standard  $\frac{1}{4}$  Sec. Cor. marked S.C.  $\frac{1}{4}$  on N. face, and raise a mound of Stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of Cor. Pits impracticable

44.50 Top & descend, from N. & S.

50.65 Bottom & ascend, from N. & S.

67.00 Top of Ridge, from S. S. E. & N. N. W.; descend

75.45 Bottom & ascend, from S. S. E. & N. N. W.

Difference between measurements of 80. chs. by two sets of chainmen is 28 lks, position of middle point.

By 1<sup>st</sup> set. 80.14 chs.

By 2<sup>d</sup> set. 79.86 chs;

the mean of which is

80.00 Set a Malpais Stone 24x20x5 ins 18 ins. in the ground for Cor. of Secs. 32. and 33. marked S.C.



## Through Range 28 East

on N; with 2 grooves on W. and  
4 grooves on E. faces, and raise a  
mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft.  
high, N. of Cor. Piti impracticable  
Land, mountainous  
Soil, stony; 4 $\frac{1}{2}$  rate.

No timber. Mudugroot ocotilla  
and Palo Verde.

Mountainous land 80. chs.

East on S. bdy Sec. 33.

20.25 over Mountainous land, ascending  
Top of Ridge, ~~varr.~~ N.W. & S.E. descent  
Difference between measurements  
of 30. chs. by two sets of chain-  
men is 34 lts. Position of  
middle point

By 1<sup>st</sup> set. 29.83 chs.

By 2<sup>d</sup> set. 30.17 chs.

## First Standard Parallel South

chains the mean of which is  
 30.00 A Malpais rock in place, flush  
 with the ground. 5x3 ft. for  
 witness to Standard  $\frac{1}{4}$  Sec Cor  
 Marked with Cross, and W.C.  
 S.C.  $\frac{1}{4}$  N. of Cross, and raised  
 a mound of stone 2 ft. base  
 $1\frac{1}{2}$  ft. high N. of Cor.

39.65 Pits impracticable, descend  
 course South-Easterly  
 Battour of Cañon, 500 ft. deep  
 Difference between measurements  
 of 40. chs. by two sets of Chain-  
 men is 34 lks. Position of  
 middle point.

By 1<sup>st</sup> set. 39.83 chs.

By 2<sup>d</sup> set. 40.17 chs.

the mean of which is

40.00 Point, falls in Cañon the  
 Witness Cor., bears West. 10 chs.

## Through Range 28. East.

chs.	
43.00	Begin ascent.
52.00	Top, trans. S.E. + N.W.
56.60	Begin descent
63.00	Bottom of Ravine flows. S., ascend,
68.50	Top, trans. N. + S.
69.00	Begin descent, trans. S.S.W. + N.N.E.
	Difference between measurements of 80. chs. by two sets of chain- men is 18 lks, position of Middle point
	By 1 <sup>st</sup> set. 80.09 chs.
	By 2 <sup>d</sup> set. 79.91 chs., the mean of which is
80.00	Set a Malpais Stone 24x12x12 ins 18 ins, in the ground. for. Stand- ard Cor. of Secs. 33 <sup>rd</sup> & 34, marked S.C. on N, with 3 grooves on E & W. faces, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,

## First Standard Parallel South

Chain N. of Cr. Pitts impracticable  
 Land Mountainous.  
 Soil, Stony, 4<sup>th</sup> rate.  
 No timber, undergrowth  
 Scrub Palo Verde & ocotillo.  
 Mountainous land. 80. chs.  
 November 22. 1895.

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East. on S. fdy Sec. 34.

over Mountainous land, descend  
 .25 Bottom bars. N.N.E. & S.S.W., ascend  
 12.00 Top of Ridge, from N. & S. & descend  
 15.00 Descend abruptly into Cañon,  
 floor. S.S.E.

Difference between measurements  
 of 29. chs. by two sets of chain  
 men, is 36 lks., position of  
 Middle point.

By 1<sup>st</sup> Set. 29.18 chs.

## Through Range 28 East.

- chain By 2<sup>d</sup> Set. 28.82 chs;  
the mean of which is
- 29.00 Set a Malpais Stone 18x12x8 ins.  
12 ins. in the ground for witness  
to Standard  $\frac{1}{4}$  Sec. Cor. marked  
N.C. S.C.  $\frac{1}{4}$  on N. face, and  
raise a mound of Stone, 2 ft.  
base,  $1\frac{1}{2}$  ft. high, N. of Cor.  
Pits impracticable.
- 33.35 Battou of Cañon, flows S. S. E., 12  
lks. wide, 450 ft. deep, and  
ascend abruptly.  
Difference between measurements  
of 40. chs. by 2 sets of chainmen  
is 36 lks. position of Middle point  
By 1<sup>st</sup> Set. 40.18 chs.  
By 2<sup>d</sup> Set. 39.82 chs.  
the mean of which is
- 40.00 precipitous cliffs inaccessible  
for  $\frac{1}{4}$  Sec. Cor.

## First Standard Parallel South

chains Witness to this Standard  $\frac{1}{4}$

Sec Cor. bears, West. 11 chs. dist,

53.00 Top of ascent, bears S. S. E. + N. N. W.

59.00 Begin descent, bears N. + S.

70.57 Bottom of Ravine, bears N. + S., ascend

78.94 Top. 4d trail, bears N. + S.

Difference between measurements  
of 79 chs. By two sets of chain-  
men is 30 lks, position of  
middle point.

By 1<sup>st</sup> set. 79.15 chs.

By 2<sup>d</sup> set. 78.85 chs.

the mean of which is

79.00 Set a Malpais Stone 24x12x12

ins, 18 ins in the ground for  
witness to Standard Cor. of

Secs. 34 and 35, marked

W. C. S. C. on N. with 4

grooves on W. and 2 grooves.

## Through Range 28. East.

Chain on E. face, and raise a mound  
of Stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  
N. of Cor. Pitts impracticable <sup>around</sup>  
0.00 on side of deep Cañon; inaccessible  
for Standard Sec. Cor.

Land Mountainous

Soil. Stony. 4<sup>th</sup> rate

No timber. Greasewood & Deciduous

Mountainous land. 80. chs.

East, on S. Ely Sec. 35.

over Mountainous land, dead  
steep bank of Cañon, 650 ft. deep.

1.65 Trail, bears S.E. & N.W.

6.54 Same trail, bears N.E. & S.W.

9.65 Same trail, bears S.E. & N.W.

10.25 Bottom of Cañon, running water  
12 ft. wide, flows S.E.

Sycamore trees in bottom.

## First Standard Parallel South

- chs.
- 10.40 Trail, brass. S.E. + N.W., ascend
- 21.30 Trail, brass. N.N.E. + S.S.W.
- 22.40 Top, brass. N. + S., + descend
- 34.45 Bottom of Cañon, 400 ft. deep.  
Dry wash, 10 lks. wide, floors. S.
- 34.55 Begin ascent
- 40.00 Point on steep bank of Cañon,  
inaccessible for Standard  $\frac{1}{4}$  Sec. Cor.  
Difference between measurements  
of 45. chs. by two sets of chain-  
men is 50 lks., position of  
middle point  
By 1<sup>st</sup> set. 45.25 chs.  
By 2<sup>d</sup> set. 44.75 chs.,  
the mean of which is
- 45.00 A Malpais rock in place,  
8 x 6 ft. 2 ft. above ground  
for witness to Standard  $\frac{1}{4}$  Sec.  
Cor., marked W.C. S.C.  $\frac{1}{4}$  on



## Through Range 28. East.

- Chain N. face, and raise a mound of  
stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  
N. of Cor, Pits impracticable
- 45.30 Top, trans. N. & S. and descend
- 46.26 Trail, trans. S. E. & N. W.
- 54.52 Bottom of Cañon, 700 ft. deep,
- 55.54 Dry wash, 100 lks. wide flows, S. E.
- 56.65 Begin ascent perpendicular  
red sandstone cliffs
- 80.00 point inaccessible for the Cor.  
Difference between measurements  
of 91.40 chs. is 70 lks. By 2  
sets of chainmen; position of  
middle point  
By 1<sup>st</sup> set. 91.45 chs.  
By 2<sup>d</sup> set. 91.05 chs;  
the mean of which is  
91.40 Set a malpais Stone 16x16x12  
ins., 11 ins. in the ground, for witness

## First Standard Parallel South

Chs. to Standard Cor. of Secs. 35<sup>4th</sup> & 36, marked W.C.A.C. on N.; with 5 grooves on W. and 1 groove on E. faces, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of Cor.

Pits impracticable  
True Cor. paint, bears west.  
11.40 chs. dist.

Land, Mountainous

Soil. Stony 3<sup>d</sup> & 4<sup>th</sup> rate

Timber, Sycamore in Cañon.

Greasewood 2<sup>d</sup> & Catillo.

Mountainous land. 80. chs.

East. on S. Side Sec. 36.

over Mountainous land, ascending

11.40 Top of Black Ridge bears N.E.  
2<sup>d</sup> N.W., W.C. of Standard Cor.

## Through Range 28. East.

- Chs. of Secs. 35 & 36, descend  
 20.00 Bottom, and ascend along N. slope  
 of ridge  
 38.00 Top of ridge, trans. S.E. & N.W., descend  
 Difference between measurements  
 of 40 chs. by two sets of chain-  
 men is 38 lks., position of  
 middle point.  
 By 1<sup>st</sup> set. 40.19 chs.  
 By 2<sup>d</sup> set. 39.81 chs.,  
 the mean of which is  
 40.00 a Malpais rock in place  
 20x12 ins 12 ins above ground. for  
 standard  $\frac{1}{4}$  Sec. Cor. marked  
 S.C.  $\frac{1}{4}$  on N. face, and raise  
 a mound of stone, 2 ft. base,  $1\frac{1}{2}$   
 ft. high, N. of Cor. pile impracticable  
 44.75 Bottom. Dry wash, 20 lks. wide,  
 flows S.E.

## First Standard Parallel South

Chains	
45.80	Begin ascent.
52.50	Top, trans. S.S. E. + N.N.W., descent
77.50	Bottom, and Right bank of Gila River trans. N.T.S.
78.65	Left. bank of Gila River, trans N.T.S. and ascend steep bluff
	Difference between measurements of 80. chs, by two sets of Chain men is 58 lks. Position of middle point.
	By 1 <sup>st</sup> set. 80.29 chs.
	By 2 <sup>d</sup> set. 79.71. chs, the mean of which is
80.00	a Malpais rock in place, 18x12 ins, 6 ins. above ground, for Standard Cor of Pps. 5 S. Rs. 28 <sup>th</sup> & 29 <sup>E</sup> marked S.C. 5 S. on N 28.E. on W. and

## Through Range 28. East.

Chains 29. E on E faces, with 6 grooves  
on N. E & W faces, and raise  
a mound of stone, 2 ft. base,  
1½ ft. high, N. of Cor.

Rite impracticable.

Land, Mountainous.

Soil, stony; 4<sup>th</sup> rate.

Timber. Scattering Cedar

Mountainous, Land 80 chs.

November 23. 1895.

In running the First Standard Parallel South, through Ranges 26. 27<sup>th</sup> and 28. East, I have taken carefully solar observations, thereby running the same on the true curve of the parallel of latitude.

First Standard Parallel South  
Chains East on S. 6<sup>th</sup> Sec. 31.

over mountainous land; ascend  
Difference between measurements  
of 40. chs., by two sets of chain-  
men is 14 lks.; position of  
middle point.

By 1<sup>st</sup> set. 40.07 chs.

By 2<sup>d</sup> set. 39.93 chs.

the mean of which is

40.00 Set a Malpais Stone 30x24x8 in,

22 in. in the ground, for

Standard  $\frac{1}{4}$  Sec. Cor. marked

S.C.  $\frac{1}{4}$  on N. face, and raise

a mound of stone, 2 ft. base

1  $\frac{1}{2}$  ft. high, N. of Cor.

Pits impracticable

Thence  
East on 5<sup>th</sup> Sec.  
72-51 (E 1/2)

9.00

49.00

13.97

53.97

15.00

55.00

Top of Ridge, bears N. 8. S.; descend

Trail, bears N. E. & S. W.

Descend, abruptly

## through Range 29 East.

ch.  
<sup>22.65</sup>  
 62.65 Bottom, 10 lks. wide, bears N. & S. <sup>used</sup>

<sup>27.65</sup>  
 67.60 Top, bears N. & S.

Difference between measurements of 80. chs, by two sets of chainmen, is 24 lks.; position of middle point.

By 1<sup>st</sup> set. 80.12 chs.

By 2<sup>d</sup> set. 79.88 chs.

the mean of which is

<sup>40.00</sup>  
 80.00 Set a malpais Stone 24 x 15 x 6 ins. 18 ins. in the ground for. Stand and Cor. of Secs. 31<sup>st</sup> and 32<sup>nd</sup>, marked S.C. on N., with 1 groove on W. and 5 grooves on E. faces, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

- Pits impracticable  
 Land, mountainous  
 Soil, stony; 4<sup>th</sup> rate.

First Standard Par. S. thro' R. 29. East.

Chain Timber. Scattering Cedars  
 Mountainous land. 80. chs.

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East. on S. bdy Sec. 32.

over Mountainous land

6.45 Begin descent, trans. N.T.S.

10.10 Bottom; Dry wash 15 lks. wide,  
 flows North

10.25 ascend

25.50 Top of Ridge, trans. N.T.S. descend

30.00 Descend, abruptly, trans. N.T.S.

Difference between measurements  
 of 40. chs. by two sets of chain-  
 men is 8 lks., position of  
 middle point.

By 1<sup>st</sup> set. 40.04 chs.

By 2<sup>d</sup> set. 39.96 chs.

the mean of which is

40.00 Set a malpais Stone 14 x 10 x 8 ins