

11  
1592

BOOK 1592

4-671

FIELD NOTES  
GENERAL LAND OFFICE.

*E. & W. boundaries*

*of*

*T. 6 S. R. 27 E.*

*E. & S. boundaries*

*of*

*T. 6 S. R. 28 E.*

1592

## Field Notes.

of the Survey of  
East and West Boundaries of  
Township 6 South. Range 27. E.  
and East and South Boundaries of  
Township 6. South. Range 28. E.  
of the.

Principal Base And Meridian  
in the

Territory of Arizona.

Alfred L. Treppel.

U. S. Deputy Surveyor.

As Surveyed by

Philip Loutzen Compassman  
under Contract No 29

dated June 17. 1893.

Survey Commenced Nov. 28. 1895.

Survey Completed Dec. 12. 1895

FIRST STANDARD.

1	15	6
	+	
12	13	7
	+	
13	11	18
	+	
24	9	19
	+	
25	6	30
	+	
36	4	31

T. 6. S. R. 27. E.

West Body T 6 S R 27 E  
 Page 1

East Body T 6 S R 27 E  
 Page 18

Index for } BOOK 1591  
 } BOOK 1592

PARALLEL, SOUTH.

1	32.	6							1	66.	6
	+									+	
12	31.	7							12	64.	7
	+									+	
13	28.	18.							13	62.	18.
	+									+	
24	26.	19							24	60.	19.
	+									+	
25	23.	30.							25	58.	30
	+									+	
36	21.	31	32	33	34	35	36	56.	31		
	┌ 36 + 40 + 43 + 46 + 49 + 51 ─┐										
	6	5	4	3	2	1					

T. 6. S. R. 28. E.

Index

T. 6. S. R. 28. E.

South Body Page 36  
 East " " 54.



## West. Boundary of

November 28, 1895. At the  
Cor. of Tps. 6<sup>th</sup> & 7. S. R. 26<sup>th</sup> & 27 E. Latitude  $32^{\circ} 52' N$ . Longitude  $109.36' W$   
At 2<sup>h</sup> 43<sup>m</sup> a.m. L.M. I  
by my watch. which is  
Correct. I observe Polaris  
at its Western Elongation  
in accordance with manual  
instructions. and mark a  
point on the line thus  
determined. on a plug  
driven in the ground 5.00  
chs. N. 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  
mark the true meridian  
thus determined. by cutting

T. 6. S. R. 27. E.

a Small groove in a Stone  
firmly set in the ground  
5.00 cts. N. of the Corner.

At 8<sup>h</sup> 0<sup>m</sup> a. m. L. M. T. I set  
off  $32^{\circ} 52'$  on the lat. arc.  
 $21^{\circ} 21'$  S. on the decl. arc  
and mark a point in the  
true meridian, determined  
by the Solar, by a cross on  
the Stone already set this  
morning this mark falls

0.3 ins. E of the true merid-  
ian Established by the  
Polaris observation. -

therefore I consider the  
adjustments of the transit  
satisfactory. -

The magnetic bearing of  
the true meridian at

West. Boundary of

$7^{\text{h}} 30^{\text{m}}$  a.m.  $^{\text{L.M.}}$  is  $N 12^{\circ} 34' W$   
 the angle thus determined  
 reduced by the table on  
 page 100. gives the mean  
 Mag. decl.  $12^{\circ} 32' E$  and

I find the corner of  
 Sps. 6<sup>th</sup> and 7. S. Rs. 26<sup>th</sup> and 27. E.  
 obliterated. But I find  
 the original witness tree  
 viz. A Mesquite 12 ins. diam  
 bears  $N 62^{\circ} \frac{1}{2} W$  114 lbs. dist  
 as described by the Surveyor  
 General. —

I reestablish this Cor.  
 in its exact original  
 position by setting a  
 granite Stone  $20 \times 8 \times 8$  ins  
 15 ins. in the ground. for  
 Cor of Sps. 6. 8 7. S. Rs. 26 & 27



T. 6. S. R. 27. E.

E, marked

T. 6. S. on N.E. R. 27 E. on S.E.

T. 7. S. on S.W. and R. 26 E on N.W. faces.

with 6 notches on each edge

dig pits  $24 \times 24 \times 18$  ins. on each

line N.E. &amp; W. 4 ft. and S. of Stone

8 ft. dist. and raise a mound

of earth 5 ft. base,  $2\frac{1}{2}$  ft.

high. S. of Cor. -

The only original bearing tree

standing, is a Mesquite 12

ins. diam. bears  $N 62\frac{1}{2}^{\circ} W$ 

114 lks. dist. marked

T. 6. S. R. 26. E. S. 36. B. S.

No others, within limits.

Thence I run,

North bet. Secs. 31<sup>and</sup> 36.Ta.  $12^{\circ} 32' E.$ 

over level and gently rolling



West Boundary of

Chains Mesa land, and through scrub  
mesquite, grease wood  
undergrowth etc.

40.00 Set a Malpais Stone 15x8x7 ins.,  
10 ins., in the ground, for 1/4  
Sec. Cor., marked 1/4 on W.

face, and raise a mound  
of Stone 2 ft. base, 1 1/2 ft. high,  
W. of Cor. pits impracticable

61.85 Dry Wash, 12 lks. wide, flows S.W.

65.93 Dry Wash, 10 lks. wide, flows W.S.W.

66.80 Dry Wash, 8 lks. wide, flows W.S.W.

71.00 Begin ascent W. slope mesa

75.70 Top, trans. E. & W. descend

76.40 Bottom, trans. E & W, ascend

78.60 Top, and descend

79.20 Bottom, trans. E. & W., ascend

80.00 Set a Malpais Stone 16x12x10  
ins. 11 ins. in the ground. for.

## T. 6. S. R. 27. E.

Chains Cor. of Secs. 25, 30, 31 & 36. Marked  
 T. 6. S. on N.E.  
 R. 27 E. on S.E. and  
 R 26 E on N.W.

faces, with 1 notch  
 on S. and 5 notches, on N. edges,  
 and raise a mound of Stone,  
 2 ft. base, 1 1/2 ft. high, W. of Cor.

Pits impracticable.

Land level <sup>and</sup> rolling.

Soil, gravelly, 3<sup>d</sup> rate

No timber. Scrub mesquite

+ Greasewood, ocotillo undergrowth

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North bet. Sec. 25 & 30.

over rolling land ascend

1.00 Top of slope & descend

2.60 Bottom, cross E. & W. ascend

## West. Boundary of

chs.	
3.25	Top. + descend
6.80	Enter bottom, bears. E. & W.
7.00	Dry wash, 15 lks. wide, flows W.
7.50	ascend
16.00	Top, Enter mesa bears. E. & W.
19.00	leave mesa descend, bears. E. & W.
25.00	Enter Bottom
26.30	Dry Wash, 10 lks. wide, flows W.
27.00	Begin ascend
34.00	Top, bears. N.E. & S.W.
40.00	Set a malpais stone 12x8x7 ins., 8 ins., in the ground, for 1/4 Sec. Cor. marked 1/4 on W. face, dig pits 18x18x12 ins N. & S. of stone 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high. W. of Cor.
40.15	Trail, bears. N.E. & S.W.
45.88	Trail, bears. N.E. & S.W.



## I. G. S. R. 27. E.

chs.	
47.83	Trail, trans. N.E. + S.W.
55.00	Enter Scrub tesota, bears E. $\frac{2}{3}$ W.
58.00	Begin descent, trans. E. + W.
67.00	Enter Bottom
67.50	Dry wash, 40 lks. wide, flows. W.
68.00	ascend
70.00	Tap.
75.00	descend
76.30	Bottom
76.75	Dry Wash, 12 lks. wide flows, S.W.
77.00	ascend
78.00	Tap. + descend
78.40	Dry wash, 15 lks. wide, flows. S.W.
80.00	Set a malpais Stone 16x12x5 ins 10 ins. in the ground, for Cor. of Secs. 19, 24, 25 & 30. marked I. G. S. on N.E. R 27. E. on S.E. and R 26. E. on N.W.

## West. Boundary of

Chs.

faces, with 2 notches on S. and 4 notches on N. edges. and raise a mound of Stone 2 ft. base. 1 1/2 ft high W. of Cor. pits impracticable Land rolling.

Soil, gravelly loam; 2<sup>d</sup> rate scrub greasewood, tesota under growth. No timber.

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North bet. Secs. 19<sup>th</sup> & 2<sup>d</sup>  
over rolling land, through scattering greasewood and tesota under growth

- 6.46 Road to mine trans. E.N.E. + W.S.W.  
 9.85 Dry Wash, 10 eks. wide flows, W.S.W.  
 10.50 Dry Wash, 10 eks. wide flows, S.W.  
 35.00 Entire Scattering ocotillo

## T. 6. S. R. 27. E.

- chs.  
40.00 Set a Malpais Stone, 18x12x10 ins.  
12 ins., in the ground. for  $\frac{1}{4}$   
Sec. Cor., marked  $\frac{1}{4}$  on W. face,  
and raise a mound of Stone  
2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of Cor.  
Pits impracticable
- 50.90 Dry wash, 8 lks. wide, flows. S.E. then S.
- 53.90 Same Wash, 10 lks. wide, flows. Southly
- 59.20 Same Wash, 7 lks. wide, flows. S.S.W.
- 80.00 Set a Malpais Stone 18x8x6 ins.  
12 ins. in the ground. for Cor. of  
Secs. 13, 18, 19 & 24, marked  
T. 6. S. on N.E.  
R. 27. E. on S.E. and  
R. 26 E. on N.W.  
faces, with 3  
notches on N & S. edges, and  
raise a mound of Stone, 2 ft.  
base, 1 $\frac{1}{2}$  ft. high, W. of Cor.



## West. Boundary of

Chains Pits impracticable  
 Land rolling.  
 Soil. gravelly 2<sup>d</sup> rate  
 No. timber. greasewood  
 tesota & ocatillo undergrowth

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North bet. Secs. 13.<sup>rd</sup> & 18.

over rolling land, through  
 mesquite greasewood and  
 tesota undergrowth.

- 3.85 Dry Wash, 10 lks. wide, flows S.S.W.  
 7.73 Dry Wash, 10 lks. wide, flows. S.S.W.  
 14.10 Dry Wash, 8 lks. wide, flows. S.S.E  
 18.40 Dry Wash, 20 lks. wide, flows S.S.W.  
 27.32 Dry Wash, 12 lks. wide, flows S.S.W.  
 31.57 Trail, bears N.E. & S.W.  
 33.72 Dry wash, 12 lks. wide, flows. S.S.W.  
 34.30 Trail, bears N.E. & S.S.W.

## T. 6. S. R. 27. E.

- chs.  
35.83 Descend
- 38.58 Bottom
- 38.68 Dry wash, 15 lks. wide, flows. S.W.
- 39.90 Begin ascent.
- 40.00 Set a Malpais Stone 18x12x8 ins  
12 ins. in the ground, for  $\frac{1}{4}$   
Sec. Cor, marked  $\frac{1}{4}$  on W. face,  
and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W. of Cor.  
Pits impracticable
- 42.20 Top, trans. N.T.S.
- 43.00 Hill 400 ft. high, from E. 20 chs. dist
- 53.50 Gulch, flows. S.S.E.
- 80.00 Set a Malpais Stone 24x12x10 ins  
18 ins. in the ground. for Cor.  
of Secs. 7, 12, 13, & 18. marked  
T. 6. S. on N.E.  
R. 27. E. on S.E. and  
R. 26. E. on N.W.

## West. Boundary of

Chains

faces, with 4  
Notches on S. and 2 notches on  
N. edges, and raise a mound  
of stone, 2 ft. base, 1 1/2 ft. high  
W. of cor. It's impracticable  
Land rolling

Soil sandy & gravelly 2<sup>d</sup> & 3<sup>d</sup> rate  
No timber. Mesquite Palo Verde  
& greasewood mounding growth  
November 28, 1895.

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- North bet. Secs. 7<sup>th</sup> and 12.

Slight ascent

5.40 Top. descend

5.90 Bottom

6.60 Dry Wash, 100 lbs. wide, flows S.W.

7.10 ascend

8.30 Top. & descend

10.80 Gulch, 10 lbs. wide, flows S.W.



## T. 6. S. R. 27. E.

- Chs.  
13.84 Road, bears N.E. & S.W.  
40.00 Set a malpais Stone 18x12x12  
ins., 12 ins. in the ground, for  
1/4 Sec. Cor., marked 1/4 on  
N. face, and raise a mound  
of Stone 2 ft. base, 1 1/2 ft high,  
W. of Cor. Pits impracticable  
48.00 Enter Wagon Road, bears S.W.  
52.30 Leave Wagon Road, bears N.E., ascend  
69.70 Top of Mountain  
70.00 Begin descent on N.W. slope  
77.60 Bottom gulch, 10 lks. wide, flows S.W.  
77.80 Begin ascent.  
80.00 Set a malpais Stone 18x12x6 ins.  
12 ins., in the ground, for Cor.  
of Secs. 1, 6, 7, & 12., marked  
T. 6. S. on N.E.  
R. 27. E. on S.E. and  
R. 26. E. on N.W.

## West. Boundary of

Chain

faces, with 5  
notches on S. and 1 notch  
on N. edges, and raise a  
mound of stone, 2 ft. base  $1\frac{1}{2}$   
ft. high, W. of cor.

Pits impracticable.

A Cedar 5 in. diam. bears  
S  $86\frac{1}{2}^{\circ}$  W 160 lks dist. marked  
T. 6. S. R. 26 E S. 12. B. S.

No other trees within limits

Land Mountain

Soil, gravelly; 2<sup>d</sup> + 3<sup>d</sup> rate

No timber. Scattering grease  
wood and acotillo undergrowth  
Mountainous land 80. chs.

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North bet. Secs. 1<sup>st</sup> & 6.

ascend, over mountains

12.00 Top, bears. NNE. + SSW, descend

## T. 6. S. R. 27. E.

chs.	
14.00	Trail, trans. N.E. & S.W.
17.50	descend, trans. N.E. & S.W.
18.90	Bottom ascend
20.25	Top of ridge, trans. N.E. & S.W.
21.00	Begin descent
22.20	Bottom of Gulch, 20 lks. <sup>wide</sup> flows. S.S.W.
22.40	ascend
24.20	Mound of Stone, 10 lks. West
25.50	Top, & descend
28.50	Gulch, 50 lks. wide, flows. S.S.W.
40.00	Set a Malpais Stone, 26 x 24 x 12 ins., 19 ins. in the ground, for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and raise a mound of Stone 2 ft. base, $1\frac{1}{2}$ ft. high. W. of Cor. Pits impracticable Cuts and Shafts trans. East 10 chs. dist.
46.00	Leura gulch, 50 lks wide,



West. Body T. C. S. R. 27. E.

chs. flows from N.E.; abrupt rocky ascent

78.57 Intersection First Standard Parallel S. at 3.00 chs. East of Standard  $\frac{1}{4}$  Sec Cor. Sec. 36. At which point I set a Malpais Stone 18x10x5 ins., 12 ins. in the ground for Closing Cor. of Tps. C. S. R. 26<sup>th</sup> and 27. E. marked C.C. on S. with 6 grooves on S. E. and W. faces, and raise a Mound of Stone 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of Cor. Pits impracticable  
 Land Mountainous  
 Soil, Stony 4<sup>th</sup> rate  
 No timber. greasewood & ocotillo  
 Mountainous land 78.57 chs.  
 Nov. 29. 1895.

East. Pdy T. 6. S. R. 27. E.

December 5, 1895. At the Cor.  
of Tps. 6.<sup>m</sup> 7 S. R. 27.<sup>m</sup> 28 E.  
Latitude  $32^{\circ}52'N$ . Longitude  
 $109^{\circ}30'W$ . At  $2^h 15^m 30^s$  a. m.,  
by my watch which is correct  
by L. M. T., I observe Polaris  
at Western Elongation. in  
accordance with manual of  
instructions, and mark a point  
on the line thus determined  
on a plug driven in the ground  
5.00 chg N. of the Corner  
At  $7^h 30^m$  a. m. L. M. T. I lay  
off the azimuth of Polaris  
 $1^{\circ}29'5$  to the East, and  
mark the true meridian thus  
determined, by cutting a small  
groove, in a stone which  
I firmly set in the ground

East Boundary of  
 5.00 chs. N. of the Corner,  
 At 8<sup>h</sup> 0<sup>m</sup> a.m., l. m. S. I set  
 off  $32^{\circ}52'$  on the lat. arc,  
 $22^{\circ}20'$  S. on the decl. arc,  
 and marks a point in the true  
 meridian determined with the  
 Solar, by a cross on the Stone  
 already set this morning, 5.00  
 chs. N. of the Cor. this mark  
 falls 0.25 ins. E of the true  
 meridian established by the  
 Polaris observation.

The Solar apparatus thus defines  
 the meridian with sufficient  
 accuracy, therefore I conclude  
 the adjustments of the transit  
 are Satisfactory -

The magnetic bearing of the  
 true meridian at 7<sup>h</sup> 30<sup>m</sup> a.m.



T. 6 S. R. 27 E.

is  $N 12^{\circ} 34' W$ . The angle thus determined, reduced by the table on page 100. gives the mean mag. decl.  $12^{\circ} 32' East$ .

I begin at the Cor. of Tps. 6<sup>th</sup> and 7<sup>th</sup> S. R. 27<sup>th</sup> and 28<sup>th</sup> E. where I find faint trace of the old Cor. - I find one witness tree described by the Surveyor General, lying on the ground with marks ~~of the~~ ~~tree~~ ~~at~~ ~~the~~ ~~site~~. I re establish this Cor. in its original position by setting a Granite Stone  $24 \times 12 \times 10$  ins. 18 ins. in the ground, for Cor. of Tps. 6<sup>th</sup> and 7<sup>th</sup> S. R. 27<sup>th</sup> and 28<sup>th</sup> E. marked  
T. 6 S.            on N.E.  
R. 28 E.        on S.E.

## East. Boundary of

Chains. J. 7. S. on S.W.; and  
 R 27 E on N.W. faces, with  
 6 notches on on each edge  
 and raise a mound of Stone,  
 2 ft. base, 1 1/2 ft. high, S. of Cor.  
 Pits impracticable.

A Cottonwood 12 ins. diam. bears  
 S 44 1/2° W 129 lks. dist. Marked  
 J. 7. S. R. 27 E. S. 1. B. J.

Thence I run.

North, bet. Secs. 31. <sup>4d</sup> 36,

Pa. 12° 32' E.

over level land

8.85 Road, bears. E. N.E. & W.S.W.

9.48 Wire fence, bears. E. & W.

1.00 chs. west of line, a wire  
 fence runs. N. & S.

11.00 Enter plowed field

## T. C. S. R. 27. E.

chs.	
16.27	Ditch 6 lks. wide trans. E. <del>###</del>
19.00	leave plowed field
20.50	Leonidas Sanchez house, trans W. 3.00 chs. dist. ascend
21.06	Wire fence, trans. E. & W.
24.10	Top, Entre Mesa. trans. E & W.
40.00	Set a Malpais Stone 15x10x5 ins. 10 ins. in the ground. for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of Cor. - Site impracticable. -
56.00	Begin descent, trans E. & W.
58.80	Dry Wash, 14 lks. wide, flows W, ascend
61.20	Small ridge, trans. E. & W, descend
64.00	Dry Wash, 14 lks. wide, flows S.W.
80.00	Set a Malpais Stone 18x8x6 ins. 12 ins. in the ground. for Cor. of Secs. 25, 30, 31, and 36. marked



## East. Boundary of

Chains T. 6. S. on N.E.  
 R. 28. E. on S.E. and  
 R. 27. E. on N.W. faces,  
 with 1 notch on S.  
 and 5 notches on N edges, and  
 raise a mound of stone, 2 ft.  
 base, 1 1/2 ft. high, W. of Cor.  
 Pits impracticable  
 Land, nearly level  
 Soil, gravelly loam; 2<sup>d</sup> & 3<sup>d</sup> rate  
 No timber. Mesquite, Palo Verde  
 and arrowwood undergrowth

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North bet. Secs. 25<sup>th</sup> and 30.

- 2.60 Gulch, 100 lks. wide, flows W  
 6.30 Dry wash, 20 lks. wide, flows W  
 9.50 Trail, trans. W. N.W. + E. S.E.  
 16.00 Begin ascent, trans. E + W.

## I. C. S. R. 27. E.

chs. 24.00	Ridge, trans. E. & W., descend
29.32	Bottom; dry wash, 10 lks. wide, flows S. S. W., ascend.
40.00	Set a Malpais Stone 18x10x6 ins. 12 ins, in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of Cor. Pits impracticable.
45.00	Top.
49.00	Begin descent
54.00	Gulch, flows W.
55.85	Dry wash, 10 lks. wide, flows W, and ascend
55.95	Top. & descend
61.12	Bottom
61.70	Dry wash, 10 lks. wide, flows S. W. & ascend
62.65	Top, trans. N. E. & S. W., descend

## East. Boundary of.

- chs.
- 64.17 Dry wash, 12 lks. wide, flows. S.W.  
 & ascend
- 67.25 Tap, bears. S.S.W. & N.N.E; descend
- 74.35 Bottom.
- 75.40 Dry wash, 10 lks. wide, flows. S.W.
- 77.80 Recross, same, <sup>wash, 10 lks wide</sup> flows. S.S.E.
- 79.10 Recross same, <sup>wash 10 lks. wide</sup> flows. S.S.W.
- 79.50 Begin steep ascent, bears. S.W. & N.N.E.
- 80.00 Paint falls on steep bank,
- 80.50 Set a malpais Stone 20x9x4 ins.  
 15 ins, in the ground. for Witness  
 Cr. of Secs. 24, 19, 25, & 30, marked  
 W.C. J. 6 S. on N.E.  
 R 28 E. on S.E., and  
 R. 27 E. on N.W.  
 faces, with 2  
 Notches on S. and 4 notches on  
 N. edges; and raise a mound  
 of Stone 2 ft., base, 1 1/2 ft. high,



## T. 6. S. R. 27. E.

Chains	W. of Cor. Pits impracticable. Land Mountainous Soil, Stony; 4 <sup>th</sup> rate No timber; Palo Verde and ocotillo undergrowth Mountainous land. 80. chs.
	<hr/>
	North. lat. Secs. 19. <sup>3d</sup> 2 <sup>d</sup> , from true cor. point, over Mountainous land, ascend
32.50	Top of Ridge, bears S.S.W. + N.N.E, descend
40.00	Set a Malpais Stone 14x10x8 in 9 in, in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, <sup>and</sup> raise a mound of Stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of Cor. Pits impracticable.
42.82	Bottom
44.00	Dry wash, 15 ft. wide, flows S.S.W.
44.20	Begin ascent.

## East. Boundary of

chs.	
47.30	Top, trans. S.S.W. + N.N.E.
55.32	Trail, trans. N.E. + S.W.
55.73	Trail, trans. N.E. + S.W.
58.00	Begin descent, trans. N.E. + S.W.
63.15	Bottom
65.11	Dry Wash, 15 lks. wide, flows S.E.
65.30	ascend
72.80	Trail, trans. N.N.E. + S.S.W.
76.60	Trail, trans. N.N.E. + S.S.W.
80.00	Set a Malpais Stone 28x13x6 ins 21 ins. in the ground. for Cor. of Secs. 13, 18, 19 & 24., marked T. 6. S. on N.E. R. 28. E. on S.E. and R. 27 E. on N.W.

faces, with 3  
notches on N. + S. edges, and  
raise a mound of stone, 2 ft.  
base, 1/2 ft. high, W. of Cor.

T. 6. S. R. 27. E.

Chains. It's impracticable,  
 Land Mountainous  
 Soil, Stony, 4<sup>th</sup> rate.  
 No timber. Greasewood and  
 Ocotillo Undergrowth  
 Mountainous land. 80. Chs.

December 5, 1895.

Dec. 6. at 8<sup>h</sup> 0<sup>m</sup> a. m. I set off  
 32° 54' on the lat. arc, 22° 30'  
 S. on the decl. arc, and deter-  
 mine a true meridian with  
 the Solar, at the Cor. of Secs.  
 13, 18, 19 & 24.

Thence I run

North. bet. Secs. 13. and 18.

Pa. 12° 32' E.

Over mountainous land  
 ascend along W. Slope of mount-  
 ain



## East. Boundary of

chs.	
1.82	Trail, trans. N.E. & S.W.
16.00	Ridge, trans. E. & W.
17.61	Same, trail trans. N.W. & S.E.
18.97	Begin descent, into Cañon
31.90	Bottom of Cañon, with banks of water flows. S.W.
34.30	Dry wash, 75 lks. wide, flows. S.W.
35.10	Begin ascent.
39.50	Ridge, trans. E & W, descend
40.00	Set a Malpais Stone 28x5x5 ins, 21 ins. in the ground. for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$ on W. face, and raise a mound of Stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of Cor.
	Pits impracticable
45.90	Bottom, gulch 50 lks. wide, Dry wash, 8 lks. wide, flows. E. ascend
51.40	Trail, trans. N.E. & S.W.
65.17	Same trail, trans. N.W. & S.E.

## J. G. S. R. 27. E.

chs.  
 71.50 Tap. trans. E. & W.  
 76.25 Begin descent.  
 80.00 Set a malpais Stone 14x10x5 ins,  
 9 ins., in the ground. for Cor. of  
 Secs. 7, 12, 13 & 18. Marked  
 J. G. S. on N.E.  
 R. 28. E. on S.E. and  
 R. 27 E on N.W.  
 faces, with 4 notches  
 on S. and 2 notches on N. edges,  
 and raise a mound of Stone 2  
 ft. base, 1 1/2 ft. high, W. of Cor.  
 \* Pits impracticable  
 Land, Mountainous  
 Soil, Stony; 4 1/2 rate,  
 No timber.  
 Scattering greasewood & ocotillo.  
 Mountainous land, 80. chs.

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## East. Boundary of

Chains	North. lat. Secs. 7 <sup>th</sup> & 12.
	over Mountainous land; descend
12.90	Gulch, 50 lks. wide, flows E.
24.30	Bottom, Dry wash 30 lks. wide flows S.E. & ascend
40.00	Set a Malpais Stone, 12x10x6 ins, 8 ins, in the ground. for 1/4 sec. Cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of Cor. Pits impracticable. -
44.50	Top, trans. E. & W., descend
52.07	Dry wash 20 lks. wide, flows E., ascend
55.60	Top, trans. E. & W., descend.
58.35	Bottom, dry wash 20 lks. wide, flows S.E.; <sup>ascend</sup>
64.60	Top, trans. E. & W.
69.90	Begin descent.
76.35	Gulch, 25 lks. wide, flows E.
78.40	Dry wash, 25 lks. wide, flows E. <sup>ascend</sup>



## T. C. S. R. 27. E.

Chs.  
80.00 Set a malpais Stone 15. x 8 x 5 ins,  
10 ins. in the ground. for Cor. of  
Secs. 1, 6, 7, and 12, marked.

T. C. S. on N.E.

R. 28. E. on S.E. and

R. 27. E. on N.W.

faces, with 5 notches  
on S. and 1 notch on N. edges,  
and raise a mound of Stone 2  
ft. base, 1 1/2 ft. high, W. of Cor.

Pits impracticable.

Land Mountainous  
Soil, Stony, 4<sup>th</sup> rate  
No timber. Greasewood and  
sotillo undergrowth.

Mountainous land. 80. Chs.

---

North. lat. Secs. 1 and 6.

over Mountainous land, ascent

## East. Boundary of

chs.	
7.50	Tap, bears. E. & W.
10.20	Begin descent, bears. E. & W.
16.82	Bottom, dry wash 15 lks, wide flows. E; ascend
26.00	Tap, bears. S.E. & N.W.
26.50	Begin descent.
30.80	Enter bottom
31.10	Dry wash, 40 lks. wide, flows. S.E.
31.50	Begin ascent.
37.80	Tap, bears. E. & W.
40.00	Set a Malpais Stone 15x12x10 ins, 10 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, & raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. A mesquite 8 ins. diam, bears N80°E 75 lks. dist. marked $\frac{1}{4}$ S. B. S.

## T. 6. S. R. 27. E.

chs. 54.00	Begin descent.
60.65	Bottom, dry wash, 10 lks. wide, flows S.W., ascend.
78.60	Intersect First Standard Parallel S. at 20 lks. E. of Standard $\frac{1}{4}$ Sec. Cor. Sec. 36, where I set a malpais Stone 20x10x10 ins, 15 ins, in the ground for Closing Cor. of Tps. 6 S. R. S. 27 <sup>and</sup> 28. E.; marked C.C. T. 6. S. on S. R 27 E. on W. and R. 28 E. on E. faces, with 6 grooves on S. E. and W. faces. and raise a mound of Stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of Cor. Pits impracticable Land mountainous Soil, stony; 4 <sup>th</sup> rate.



East. Bdy T. 6 S. R. 27. E.

No timber. Greasewood and  
ocotilla undugrowth.  
Mountainous land. 78.60 chs.  
December 6, 1895.

BOUNDARIES. T. 6 S. R. 26 E.

Latitudes, Dep.<sup>ns</sup> & Closing errors.

LINE DESIGNA.	TRUE BEARING.	DISTANCE Chs.	LATITUDES.		DEPARTURES.	
			N. Chs.	S. Chs.	E. Chs.	W. Chs.
W. Bdy.	N 0° 11' E	477.77	477.77		1.53	
N. Bdy.	East	473.10			473.10	
E. Bdy.	South	478.57		478.57		
S. Bdy.	West.	79.50				79.50
" "	N 89° 23' W	79.56	.86			79.56
" "	West.	316.61				316.61
Convergency Totals			478.63	478.57	475.10	475.67
			478.57			475.10
	Error in lat.		.06	Error in dep.		57

South Bdy T. 6. S. R. 28. E.

December 9, 1895 at 8<sup>h</sup> 0<sup>m</sup> am,  
 I set off 32° 52' on the lat.  
 arc. 22° 48' S. on the decl. arc.  
 and determine a true meridian  
 with the Solar. at the Cor.  
 of Sps. 6. 2d 7. S. R. 27 X 28 E  
 as re-established by me,  
 and hereinafter described.  
 This meridian falls 0.1 mi E.  
 of the meridian, determined by  
 the Polaris observation on  
 Dec. 5, 1895. Therefore I  
 conclude that my instru-  
 ment is in good adjustment  
 Hence I run  
 E. on a true line bet. Secs. 6 X 31.  
 Va. 12° 32' E.

15.00 Through dense undergrowth  
 Right bank of Gila River

## South. Boundary of

Chains

bears. E. N. E. &amp; W. S. W.

Set a Malpais Stone 23x20x10  
ins. 16 ins. in the ground, for  
Meander Cor. of of fractl. Secs.  
6<sup>th</sup> & 31. marked M. C. on E.

with 1 groove on W. faces;

and raise a mound of

Stone 2 ft. base, 1 1/2 ft. high,

W. of Cor. Pits impracticably  
Very dense mesquite. road south

18.25

Left bank of Gila River

bears. E. N. E. & W. S. W.

21.71

Left. Bank of Gila River on  
firm ground.

Set. a Malpais Stone 18x8x6 ins

12 ins. in the ground, for

Meander Cor. of fractl. Secs.

6<sup>th</sup> & 31. marked m. c. on

W. and 5 grooves on E.

faces, and raise a mound



## T. 6. S. R. 28. E.

- Chains of Stone, 2 ft. base,  $1\frac{1}{2}$  ft. high E. of Cor. pits impracticable
- A Willow 24 ins. diam. bears N  $25^{\circ}$  E 25 lks. dist. marked T. 6. S. R. 28. E. S. 31. M. C. B. S.
- A Cottonwood 36 ins. diam. bears S  $46^{\circ}$  W 19.5 lks. dist. marked T. 7. S. R. 28. E. S. 6. M. C. B. S.
- 23.00 Road, bears E. N. E. + W. S. W.
- 29.87 Road, bears E. N. E. + W. S. W.
- 38.11 Set a malpais Stone, 15x8x5 ins. 10 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor. marked  $\frac{1}{4}$  on N. face; raise a mound of Stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of Cor. Pits impracticable. - 1.89 chs. allowance for convergence.
- A Willow 12 ins. diam., bears S  $52\frac{3}{4}^{\circ}$  W 123 lks. dist. marked  $\frac{1}{4}$  S. B. S.

## South Boundary of

- |        |                                                                                                                                                        |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains | A Jano 6 ins. diam. bears<br>N 57 3/4° E 70 lks. dist; <del>marked</del><br>1/4 S. B. J. -                                                             |
| 46.23  | Canal, 20 lks. wide, flows S.W.                                                                                                                        |
| 53.75  | Road, bears N.N.E. + S.S.W.                                                                                                                            |
| 56.00  | Southern Pacific Company's<br>Diamond drill, boring for<br>Coal. N. 5.00 chs. dist.                                                                    |
| 57.00  | Dry wash, 10 lks. wide, flows N.                                                                                                                       |
| 59.60  | Dry wash, 80 lks. wide, flows N by W, <sup>marked</sup>                                                                                                |
| 61.72  | Trail, bears N.W. + S.E.                                                                                                                               |
| 66.25  | Same trail, bears N.E. + S.W.                                                                                                                          |
| 70.35  | Tap & descent along S. slope mesa                                                                                                                      |
| 73.00  | Bottom, and ascend                                                                                                                                     |
| 76.30  | ascend more gradually                                                                                                                                  |
| 78.11  | Set a malpais Stone 22x8x8 ins.<br>16 ins. in the ground. for Cor.<br>of Secs. 31 <sup>and</sup> 32. 5. + 6. <del>marked</del><br>T. 6. S. or N.E. and |

## I. G. S. R. 28. E.

R 28 E. on S. E. face, and  
 T. 7 S. on S. W. face, with 1  
 notch on W. and 5 notches  
 on E. edges, and raise a mound  
 of stone 2 ft. base, 1 1/2 ft. high,  
 W. of cor. pits impracticable  
 Land, level. on West.

Mountains, on East  
 Soil, sandy loam & gravelly; <sup>1/2</sup> & <sup>2</sup> Rate  
 Timber. Cottonwood & willow  
 along Gila River. Dense  
 Arrowwood greasewood and  
 ocotillo. Undergrowth.

Mountains land as land covered  
 with dense undergrowth R 3. 51 Chs.

East, on a true line bet. Secs. 5 & 32  
 ascending along ridge, bears  
 W. N. W. & E. S. E.

12.55 Top of Ridge, bears W. N. W. & E. S. E. <sup>discont.</sup>

20.50 Bottom



## South Boundary of

- | chs.  |                                                                                                                                                                                                      |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20.97 | Dry wash, 12 lks. wide, flows S.W.                                                                                                                                                                   |
| 23.25 | ascend                                                                                                                                                                                               |
| 26.20 | Top & descend N. Slope of Point<br>bears N.W. & S.E.                                                                                                                                                 |
| 30.10 | Enter Bottom                                                                                                                                                                                         |
| 30.20 | Same wash, 12 lks. wide, flows<br>N.W.                                                                                                                                                               |
| 31.50 | ascend, S. Slope of mesa                                                                                                                                                                             |
| 37.00 | Top & descend S. Slope of mesa                                                                                                                                                                       |
| 40.00 | Set a malpais Stone 15x10x9<br>ins. 10 ins. in the ground for 1/4<br>Sec. Cor. marked 1/4 on N. face<br>and raise a mound of Stone<br>2 ft. base, 1 1/2 ft. high, N. of<br>Cor. if its impracticable |
| 46.60 | Bottom                                                                                                                                                                                               |
| 47.52 | Same dry wash, 12 lks. wide,<br>flows S.W.                                                                                                                                                           |
| 47.60 | ascend Slope of ridge, bears E. & W.                                                                                                                                                                 |

## I. G. S. R. 28. E.

- 50.15 Gulch, flows. N.
- 52.35 Gulch, flows. N.N.E.
- 57.00 Top. of ascent on slope  
57.75 descend
- 68.10 Bottom, wash 10 lks. wide, flows.  
S.; ascend point from N.E.S.
- 69.40 Top. & descend
- 71.00 Bottom
- 72.70 Dry wash, 14 lks. wide, flows  
S.W.
- 73.00 ascend point
- 75.00 Top, from N.E. to S.W.; descend
- 78.50 Bottom
- 78.98 Dry wash, 10 lks. <sup>wide</sup> flows, S.W.
- 79.08 ascend
- 80.00 Set a maelspan stone 16x8x7 ins.  
11 ins. in the ground. for Cor. of  
Secs. 4.5, 32 & 33, marked  
I. G. S. on N.E.

## South Boundary of

chairs R 28E. on S. E. and  
 T. 7S. on S.W. faces, with  
 2 notches on W. and 4 notches  
 on E. edges, and raise a  
 mound of stone 2 ft. base  
 1 1/2 ft. high W. of Cor.

Sits impracticable  
 Land, mountainous  
 Soil, stony, 3<sup>d</sup> & 4<sup>th</sup> rate  
<sup>no timber</sup>  
 Scattering greasewood and  
 ocotillo scrub growths.  
 Mountainous land 80. chs.

East on a true line bet. Secs. 4 & 33  
 over Mountainous land, ascend  
 .60 Top, across N. & S. descent  
 1.10 Bottom  
 1.45 Dry wash, 10 ft. wide, flows S.W.  
 3.20 Dry wash, 10 ft. wide, flows S.W.



## T. 6. S. R. 28. E.

chs.	
3.80	ascend
8.00	Top, trans. N.E. + S.W., descend
10.45	Bottom + ascend
12.20	Ridge, trans. S.S.W. + N.N.E., descend
13.25	Bottom + ascend
15.10	Ridge, trans. S.S.E. + N.N.W., descend
18.25	Bottom + ascend
21.05	Top, trans. NW + S.E., descend
25.00	Bottom + ascend
35.90	Top, trans. S.E. + N.W.
40.00	Set a malpais Stone 14x10x7 ins. 9 ins. in the ground, for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on N. face, and raise a mound of Stone 2 ft, base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable
44.00	descend, trans. N.W. + S.E.
46.90	Bottom + ascend
51.00	Top, trans. N.E. + S.W.

## South Boundary of

- chs.  
 63.00 Begin descent across N.E. to S.W.  
 68.27 Bottom, Dry wash, 10 lks. wide,  
 flows S.S.W. ascend  
 72.40 Top & descend  
 78.75 Gulch, 75 lks. wide, flows S.  
 80.00 Set a malpais stone 18x10x6 in.  
 12 ins. in the ground. for Cor. of  
 Secs. 3, 4, 33 & 34, marked  
 T. 6 N. on N.E.

R 28 E on S.E.

T. 7 S. on S.W. <sup>faces</sup> with 3 notches  
 on E. & W. edges, and raise  
 a mound of stone, 2 ft. base,  
 1/2 ft. high, W. of Cor.

Pits impracticable  
 Land, Mountainous

Soil, Stony, 3<sup>d</sup> rate

No. timber, greasewood & ocotillo  
 Mountainous land, 80. chs.

December, 9, 1895

## T. C. S. R. 28. E.

- Chains December 10. at 8<sup>h</sup> 30<sup>m</sup> a. m. l. m. T.  
 I set off  $32^{\circ}52'$  on the lat arc.  
 $22^{\circ}54'$  S on the decl. arc. and  
 determine a true meridian with  
 the Solar at the Cor. of Secs.  
 3. 4. 33 & 34. Sp. 6 & 7 S. R. 28 E.  
 Thence I run  
 E. on a true line, bet. Secs. 3 & 34  
 over mountainous land, descend  
 2.60 Bottom, Dry wash 8 lks, wide flows N. E.  
 3.80 Dry Wash, 10 lks. wide, flows S. W.  
 3.90 ascend S. Slope of ridge  
 7.00 Top & descend, trans. N by W & S. by E.  
 7.85 Bottom and ascend,  
 9.00 Top. trans. N. & S., descend  
 11.60 Enter bottom  
 12.20 Dry wash, 15 lks. wide, flows N.  
 12.47 ascend  
 15.00 Ridge trans. N. & S., descend.



## South Boundary of

chs. 15.97	Bottom + ascend
18.55	Top, trans. S.E. + N.W., descend
22.30	Bottom, dry wash, 8 lks. wide, flows S.E.
22.75	Dry wash, 10 lks. wide, flows S.W., <sup>ascend</sup>
26.30	Ridge, trans. N.T.S., descend
28.40	Gulch, flows E.S.E.
35.18	Bottom, dry wash, 10 lks. wide, flows S.W.
37.10	Begin ascent.
39.50	Top, trans. N.E. + S.W., descend
40.00	Set a Malpais Stone 15x9x5 ins, 10 ins, in the ground. for 1/4 Sec. Cor., marked 1/4 on N. face and raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of Cor. Pits impracticable
41.30	Bottom & ascend
43.00	Ridge, trans. S.S.W. + N.N.E., descend

## I. 6. S. R. 28. E.

chs. 45.38	Bottom & ascend
48.50	Top, trans. N.T.S. descend
53.38	Bottom & ascend
56.00	Top, trans. N.T.S., descend
60.64	Bottom, trans. S.W. & N.E., ascend
71.50	Top, trans. S.W. & N.E., descend
75.10	Bottom, trans. S.E. & N.W., ascend
77.80	Top, trans. N.T.S., descend
80.00	Set a Malpais Stone, 30x14x10 ins. 22 ins, in the ground. for Cor. of Secs. 2, 3, 34 and 35, marked I. 6. S. on N.E.
	R. 28 E. on S. E. and
	I. 7 S. on S.W. <sup>faces,</sup> with 4 notches on W. and 2 notches on E. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of Cor. Pits impracticable Land mountainous

## South Boundary of

chain Sail Stony 3<sup>d</sup> rate  
 Scattering greasewood & ocotillo  
 undergrowth. No timber  
 Mountainous land, 80. Chs.

---

E. on a true line bet. Secs. 2 & 35.  
 over Mountainous land, descend

- .75 Bottom, trans. N.T.S. ascend  
 2.50 Top, trans. N.T.S.; descend  
 4.95 Bottom, trans. N.T.S.; ascend  
 7.00 Top, trans. N.T.S.; descend  
 13.70 Gulch, flows. S.E.  
 24.30 Trail, trans. N.W. & S.E.  
 24.90 Gulch, flows. S.E.  
 31.00 Bottom, trans. N.T.S.  
 34.80 Dry wash, 18 lks wide, flows. S.  
 35.65 Begin ascent  
 40.00 Set a Malpais Stone 15x10x7 ins,  
 10 ins, in the ground, for 1/4



## T. 6. S. R. 28. E.

- Cham. Sec. Cor. Marked  $\frac{1}{4}$  on N. face,  
and raise a mound of Stone, 2  
ft. base,  $1\frac{1}{2}$  ft. high, N. of Cor.  
Ditch impracticable, ascend
- 40.50 Top, trans. N. & S.
- 47.50 Begin descent. trans. N. & S.
- 53.48 Bottom, trans. S. & N.W., ascend
- 56.70 Top, trans. S. & N.W.; descend
- 61.79 Trail, to Ash Springs, trans. N. & S.
- 65.25 Trail, to Ash Springs, trans. E. & W.
- 70.12 Trail, trans. E. & W.
- 75.60 Bottom
- 76.00 Dry wash, 14 lbs. wide, flows. S. E.
- 80.00 Set a Malpais Stone,  $24 \times 12 \times 12$  ins,  
18 ins. in the ground, for. Cor. of  
Secs. 1, 2, 35 & 36, marked  
T. 6. S. on N. E.
- R. 28 E. on S. E. and  
T. 7 S. on S. W. face, with

## South Boundary of

Chain 5 matches, on W. and 1 match  
on E. edges, and raise a mound  
of Stone 2 ft. base, 1 1/2 ft. high,  
W. of Cor. pits impracticable  
Land Mountainous  
Soil, Stony; 4<sup>th</sup> rate  
No timber. Scattering, grease  
wood & sotillo, fair grass  
Mountainous land, 80 chs.

---

E. on a true line bet. Dec. 14 36  
over Mountainous land

4.55 Dry wash, 8 lks. wide, flows S.W.  
4.65 Begin ascent  
7.50 Ridge, trans. N.E. & S.W., descend  
25.00 Enter bottom, trans. S.S.E. & N.N.W.  
26.75 Gulch, 2. chs wide, flows S.S.E.  
40.00 Set a malpais Stone 14x8x7 in  
9 ins. in the ground, for 1/4 Dec.

## T. 6. S. R. 28. E.

Chain's Cor., marked  $\frac{1}{4}$  on N. face, and  
raise a mound of Stone 2 ft.  
base,  $1\frac{1}{2}$  ft. high, N. of Cor.  
Pits impracticable

57.50 Begin gradual ascent.

66.45 Gulch, 30 lks. wide, flows S.

76.70 Gulch, 20 lks. wide, flows S.

80.00 Set a Malpais Stone,  $24 \times 20 \times 6$  ins  
18 ins, in the ground, for Cor. of  
Tps. 6<sup>th</sup> of S. R. 28. <sup>th</sup> and 29. E.  
Marked,

T. 6. S. on N.E.

R. 29 E. on S.E.

T. 7 S. on S.W. and

R. 28 E. on N.W., <sup>faces</sup> with 6

Notches on each edge, and  
raise a mound of Stone 2 ft,  
base,  $1\frac{1}{2}$  ft. high, S. of Cor.

Pits impracticable

Land, Mountainous



South Side T. 6. S. R. 28. E.

Chains Soil, Stony; 4<sup>1</sup>/<sub>2</sub> rate.  
 No timber. Scattering grease-wood & ocotillo undergrowth  
 Mountainous land 80. chn.  
 December 10, 1895.

BOUNDARIES T. 6. S. R. 27. E.

Latitudes, Departures, and Closing Errors.

LINE DESIGNATED	TRUE BEARING	DISTANCE	LATITUDES.		DEPARTURES.	
			N.	S.	E.	W.
W. B'dy.	NORTH	478.57	478.57			
N. B'dy.	EAST	477.20			477.20	
E. B'dy.	SOUTH	478.60		478.60		
S. B'dy.	WEST	477.50				477.50
Convergency	-----	-----	-----	-----	47	-----
Totals	-----	-----	478.57	478.60	477.67	477.50
				478.57	477.50	
Error in lat.	-----	-----	-----	.03	-----	-----
Error in Dep.	-----	-----	-----	-----	-----	.17

East. Bdy T. 6. S. R. 28. E.

December 11. At the Cor. of Tps. 6  
and 7. S. R. 28<sup>th</sup> 29 E. Latitude  
32° 52' N. Longitude 109° 23' W.  
At 1<sup>h</sup> 52<sup>m</sup> a.m., l. m. t., by my  
watch, which is correct. I  
observe Polaris at western  
elongation, in accordance with  
manual of instructions, and  
mark a point on the line  
thus determined on a plug  
driven in the ground 5.00 chs.  
N. of the Corner -

At 7<sup>h</sup> 30<sup>m</sup> a.m. l. m. t. I lay  
off the azimuth of Polaris  
1° 30' to the East, and mark  
the true meridian thus determined  
by cutting a small groove in  
a stone which I firmly set in  
the ground, 5.00 chs. N. of the Cor.

## East. Boundary of

At 8<sup>h</sup> 3<sup>m</sup> a.m. l. m t I set off  $32^{\circ}52'$  on the lat arc,  $22^{\circ}58'S.$  on the decl. arc. and mark a point in the true meridian determined by the Solar, by a cross on the Stone already set this morning 5.00 chs. N. of the corner - this mark falls .03 ins W. of the true meridian established by the Polaris observation. The solar apparatus thus defines the true meridian with sufficient accuracy. Therefore I conclude the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 7. a.m. is



A. B. S. R. 28. E.

N  $12^{\circ} 33' W$ . The angle thus determined reduced by the table on page 100 gives the mean mag. decl.  $12^{\circ} 31' E$

I begin at the Cor. of Sps. 6. <sup>and</sup> 7. S. R. 28 <sup>and</sup> 29 E. Just. established by me. and hereinbefore described. Thence I run.

North. bet. Secs. <sup>on E. side of</sup> 31 <sup>and</sup> 36.

Va.  $12^{\circ} 31' E$ .

over mountainous land, ascending

.70 Ridge, trans. E. & W., descend

2.61 Bottom, trans. S.W. & N.E., ascend

5.58 Top. & descend along W. Slope of Ridge.

13.35 Bottom, trans. E & W., ascend

20.50 Ridge, trans. E. & W., descend

22.20 Bottom, trans. E & W., ascend

25.40 Top, trans. E. & W., descend

35.10 Bottom, dry wash 15 lks. wide,

## East. Boundary of

Chains	flows. S. W.
37.00	Begin ascent. Malpais Ridge. E. + W.
40.00	Set a Malpais Stone 22x12x6 ins. 16 ins. in the ground, for $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4}$ on W. face, & raise a mound of Stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of Cor. Pits impracticable
57.00	Top. Malpais Ridge, bears E. + W. descend
66.85	Bottom, bears E + W, ascend
80.00	Top of Ridge, bears E + W. Set a Malpais Stone, 18x12x5 ins., 12 ins. in the ground. for Cor. of Secs. 25, 30, 31 & 36, Marked T. 6. S. on N. E. R 29 on S. E. and R. 28 on N. W. faces, with 1 match on S. and 5 matches

## I. G. S. R. 28. E.

chains on N. edges, and raise a mound  
 of Stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  
 W. of Cor. Pits impracticable.  
 Land Mountainous.  
 Soil, stony;  $4\frac{1}{2}$  rate.  
 No timber. Scattering greewood.  
 Mountainous land. 80. chains

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North. lat. Secs. 25<sup>th</sup> and 30.

over Mountainous land, descend

15.09 Bottom, trans. S.W. + N.E. ascend

30.70 Ridge, trans. S.W. + N.E. descend

40.00 Set a Malpais Stone 24x6x6 ins.

18 ins. in the ground. for  $\frac{1}{4}$  Sec.

Cor. marked  $\frac{1}{4}$  on W. face. and

raise a mound of Stone 2 ft.

base.  $1\frac{1}{2}$  ft. high W. of Cor.

Pits impracticable.

51.15 Bottom. + ascend



## East. Boundary of

- | chs.  |                                                                                                                                                                                                                                                                                                                        |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 53.00 | Top, & descend                                                                                                                                                                                                                                                                                                         |
| 57.68 | Bottom, & ascend gently                                                                                                                                                                                                                                                                                                |
| 59.00 | Top, trans. N.W. & S.E., descend                                                                                                                                                                                                                                                                                       |
| 63.78 | Bottom.                                                                                                                                                                                                                                                                                                                |
| 65.30 | Begin ascent.                                                                                                                                                                                                                                                                                                          |
| 66.00 | Top, trans. E. & W., descend                                                                                                                                                                                                                                                                                           |
| 69.00 | Bottom, Gulch, 1 chs. wide, flows<br>S.W., then ascend to ridge                                                                                                                                                                                                                                                        |
| 80.00 | A Malpais rock in place<br>36 x 18 ins., 12 ins., above ground<br>for Cor of Secs. 19, 24, 25 & 30,<br>Marked with Cross at exact<br>Cor. point, and<br>T. 6 S. on N.E.<br>R. 29 E on S.E.<br>R. 28 E. on N.W. of Cross, with<br>2 grooves on S. and 4 grooves<br>on N sides of Cross, and<br>raise a mound of stone 2 |

## T. 6. S. R. 28. E.

chain ft. base,  $1\frac{1}{2}$  ft. high, W. of Cor.  
 Pits impracticable  
 Land Mountainous  
 Soil, stony, 4<sup>th</sup> rate  
 No timber, scattering greasewood,  
 ocotillo and Palo Verde.  
 Mountainous land. 80. Chains.

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 North lat. Secs. 19<sup>th</sup> & 24.

over Mountainous land, ascend  
 35 Ridge, bears N.E. & S.W. descend  
 10.60 Bottom of Cañon, and trail;  
 Wash, 20 lbs. wide, flows S.W.  
 11.20 Ascend  
 18.05 Top, bears W.S.W. & E.N.E., descend  
 24.70 Bottom bears E.N.E. & W.S.W., ascend  
 40.00 Set a malpais stone 24 x 12 x 4 ins  
 18 ins, in the ground, for  $\frac{1}{4}$  Sec.  
 Cor., marked  $\frac{1}{4}$  on W. face,

East. bdy T. 6. S. R. 28. E.

Chains and raise a mound of Stone,  
2 ft. base, 1 1/2 ft. high, W. of Cor.  
Pits impracticable

47.00 Top, trans. N.W. + S.E., descend

55.00 Bottom <sup>of cañon</sup> trans. N.W. + S.E., ascend

64.10 Top, trans. N 80° W + S 80° E

64.50 Begin descent.

73.10 Bottom <sup>of cañon</sup> trans. E + W, ascend

76.60 Top, trans. E + W, descend

80.00 Cor. point falls on precipitous  
ground. I set Cor. 3 chs. South,  
set a Malpais Stone 15x8x7 ins,  
10 ins. in the ground, for witness  
Cor. of Secs. 13, 18, 19 & 24... marked  
N.C. on N.W.

T. 6. S. on N.E.

R. 29. E. on S.E. and

R. 28 E on N.W. faces, with  
3 notches on N. + S. edges, and



Concluded, Book 1591.