

2.

BOOK 1450

No. 1450

1450

*Exteriors*

4-671

**FIELD NOTES**

GENERAL LAND OFFICE.

North boundary Sp. 22 N. R. 7. E.

East . . . . . 23 N. R. 7. E.

Resurvey

West boundary Sp. 23 N. R. 7. E.

4-674.

Township *23 N.*, R. *7 E.*

BOOK 1450

<i>86</i>	6	5	4	3	2	1	<i>110</i>
<i>89</i>	7	8	9	10	11	12	<i>113</i>
<i>93</i>	18	17	16	15	14	13	<i>116</i>
<i>96</i>	19	20	21	22	23	24	<i>120</i>
<i>101</i>	30	29	28	27	26	25	<i>124</i>
<i>105</i>	31	32	33	34	35	36	<i>128</i>
<i>72</i>		<i>75x</i>			<i>x 66</i>		<i>69</i>

7919b5m4-03

Fractional N. Bdy of BOOK 1450 65  
T. 22 N. R. 7 East - Contd.

<sup>see 1440</sup>  
3 ft. base alongside, from  
which

A fir 14 ins. diam. bears  
N.  $83^{\circ}11'$  E. 36 lks. dist.

marked T. 23 N. R. 7 E. S.  
35 B.G.

A fir 14 ins. diam. bears  
S.  $41^{\circ}16'$  E. 32 lks. dist.

marked T. 22 N. R. 7 E. S.  
2 B.G.

A fir 12 ins. diam. bears  
S.  $2^{\circ}19'$  W. 15 lks. dist.

marked T. 22 N. R. 7 E. S.  
3 B.G.

A fir 12 ins. diam.  
bears N.  $48^{\circ}28'$  W. 15 lks.  
dist. marked T. 23 N. R.  
7 E. S. 34 B.G.

Land mountainous.

Fractional N. Bdy. of T. 22.

Chains. Soil stony 3rd. rate,  
 Timber fir, spruce,  
 balsam and pine.  
 Mountainous or heavily  
 timbered land. 80 chs.

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East on a true line  
 bet. secs. 2 and 35  
 Var.  $15^{\circ} 06' E$ .

Over mountainous land  
 covered with scattering  
 timber and a dense  
 undergrowth.

Descend 400 ft.

8.00 Foot of descent in bed  
 ravine course S. E.

Ascend 500 ft.

38.00 Top ascent on mountain  
 ridge bears N and S.



## N. R. 7 East - contd

Chains Descend 700 ft.

39.52 A fir 12 ins. diam. on line. I mark with 2 notches on E. and W. sides.

40.00 Set a sandstone 19 1/2 x 11 ins. 15 ins. in the ground for 1/4 sec. cov. marked 1/4 on N. face and raised a mound of stone 2 ft. high 3 ft.

base alongside from which  
A fir 12 ins. diam. bears  
W. 48 lks. dist. marked 1/4  
A. B. P.

A fir 18 ins. diam. bears  
A. 13° 23' W. 38 lks. dist.  
marked 1/4 S. B. I.

80.00 A point 100 ft. below last.

# Fractional N. Bdy of T. 22

timbered land.

Descend 150 ft. to  
10.00 Foot of descent in bed  
ravine course A. E.

Ascend 150 ft. to  
17.00 Top ascent on ridge  
bears  $A. 81^{\circ}$  and  $A. 31^{\circ} E.$

Descend 300 ft.  
40.00 Set a sandstone  $18 \times 16 \times 14$   
ins.  $12$  ins. in the ground  
for  $1/4$  sec. cor. marked  $1/4$   
on N. face and raised  
a mound of stone 2 ft.  
high 3 ft. base along-  
side, from which

A pine 36 ins. diam.  
brs.  $A. 39^{\circ} 54' E. 46$  lbs.  
dist. marked  $1/4$  A. B. T.

A pine 34 ins. in diam.

## N.R. 7 East = contd.

Chains bears N.  $83^{\circ}38'$  W. 105 lks.  
 dist. marked 114 A. B. P.

57.00 Foot of descent in bed  
 ravine courses S. E.

Ascend 100 ft. to

74.00 Top ascent thence over  
 rolling land to

80.00 The cor to Tps. 22 and  
 23 N.R. 7 and 8 E.

Land mountainous.

Soil stony 3rd. rate.

Timber, pine and fir.

Mountainous or heavily  
 timbered land. 80 chs.

August 8 1894.

From the cor to Tps. 22  
 and 23 N. R's 6 and 7 E.  
 which is a post firmly

Fractional N. Bdy of T. 22

Chains. Set and properly marked and witnessed as described in the field notes furnished by the Surveyor General.

I run

<sup>on a true line</sup>  
East, bet Secs. 6 and 31

Var  $15^{\circ} 06' E$ .

Over mountainous heavily timbered land

Ascend 400 ft. over W. slope of Agassiz Peak.

At a point equal in distance less convergence to the corresponding half mile on S. boundary

58.97 Set a Malpais stone



## N.R. 7 East - contd.

Chains 18+16+14 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft high, 3 ft. base along side from which

A fir 6 ins. diam. bears  $A. 7^{\circ} 50' E. 5$  lks. dist. marked 1/4 P. B.G.

A fir 8 ins. diam bears  $N. 81^{\circ} 12' W. 13$  lks. dist. marked 1/4 P. B.G.

A point on W. slope of mountain about 3000 ft. above last. sec. cor.

78.97 Set a malpais stone 18+16+16 ins. 12 ins. in the ground for cor to

# Fractional N. Bdy of S. 22

Chains. Secs. 5, 6, 31 and 32

marked with 5 notches  
<sup>1 notch on</sup>  
 on W. edges, from  
 which

a fir 12 ins diam. bears  
 N.  $42^{\circ} 27'$  E. 41 lks. dist.  
 marked S. 23 N. R. 7 E. 1  
 34 B.T.

a fir 9 ins. diam. brs.  
 A.  $60^{\circ} 12'$  E. 27 lks. dist.  
 marked S. 22 N. R. 7 E.  
 A. 5 B.T.

A fir 12 ins diam. brs.  
 A.  $87^{\circ} 34'$  W. 63 lks. dist.  
 marked S. 22 N. R. 7 E.  
 A. 6 B.T.

A pine 16 ins. diam.  
 bears. N.  $46^{\circ} 11'$  W. 62  
 lks. dist. marked S. 23

## N.R. 7 East - contd

Chains N.R. 7 E. A. 31 B.S.

E Land mountainous  
Soil stony 3<sup>rd</sup> rate.

Timber aspen, pine, fir,  
spruce and balsam.

Mountainous or heavily  
timbered land. 78.97 chs.

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~~an a true line~~  
East, but Decs. 5 and 32  
Var  $15^{\circ} 06' E$ .

Over mountainous heavily  
timbered land.

5.00 Leave heavily timbered  
land enter barren  
land to mountain.

34.00 Top of mountain about  
2 chains north of apex  
of Agassiz Peak,  
Descend 500 ft. over

## Fractional N. Bdy. of T. 22

Chains. N.E. slope of mountain to

40.00

Set a granite stone  
20+10 x 10 ins. 15 ins. in  
loose rock on shelving  
E. side of mountain  
marked '14 on N. face  
and raised a mound  
of stone 3 ft. high 4 ft  
base alongside.

Pits impracticable

I can extend this  
line no further on  
account of deep  
canons and perpen-  
dicular walls of rock.  
Land mountainous  
Soil rocky 4<sup>th</sup> rate.  
Timber scrubby spruce  
Mountainous land



N. R. 7 East - cont'd

Chains. 40 chains.

August 9, 1894

Lines designated.	True bearing
W. boundary.	North
N. bdy. sec. 6	East
E. bdy. sec. 6	S. $0^{\circ} 3' E.$
N. bdy. sec. 8	East
N. bdy. sec. 9.	N. $89^{\circ} 56' E.$
W. bdy. sec. 3.	N. $0^{\circ} 18' W.$
N. bdy. secs. 1, 2, and 3.	East.
E. bdy. secs. 1, 12, 13 + 24	South
S. bdy. sec. 24	West.
W. bdy. secs. 25 + 36	South
S. bdy. Secs. 34, 35	West.
S. bdy. Secs. 32 and 33	S. $89^{\circ} 59' W.$
S. bdy. sec. 31	West.
Convergency	

Error

Latitudes, departures and closing errors. 79.

Dist.	Latitudes		Departures	
	N.	S.	E.	W.
480.00	480.00			
78.97			78.97	
80.10		80.10	.07	
80.38			80.38	
80.06	.99		80.06	
86.24	86.24			45
240.00			240.00	
326.06		326.06		
80.37				80.37
160.00		160.00		
160.00				160.00
160.07		.05		160.07
79.49				79.49
			.52	
Totals	566.33	566.21	479.99	480.38
	566.21			479.99
in lat.	.12	Error in dep.		.39

### General Description

This township is situated on the S. slope of the San Francisco mountain Pass.

The whole township is covered with fine bodies of pine spruce, fir and balsam together with a dense undergrowth of aspen in many parts.

There are several settlers in the Tp. engaged in farming and sheep raising.

There are several springs of fresh water and excellent grass grows over the entire Tp.

Charles E. Perkins

Compassman and  
U.S. Deputy Surveyor



Field Notes  
of the Survey of the  
East Exterior Boundary  
and of the resurvey of the  
West Exterior Boundary  
and of the retracement of the  
North Exterior Boundary of  
Twp. No. 23 N.R. 7 E. of the  
G. & S. R. Base and Meridian in the  
Territory of Arizona  
as surveyed by  
Francis W. Cury  
U.S. Deputy Surveyor.  
Charles E. Perkins.  
Compassman & U. S. Dep. Surv.  
Under his contract No. 31.  
Dated June 21 1894

Survey commenced Aug. 9 1894.  
Survey completed Aug 11<sup>th</sup> 1894.

## Resurvey of the West Exterior

Survey commenced  
Aug. 9, 1894. with a W. &  
L. E. Gurley solar  
transit.

By a preliminary  
examination of the W.  
boundary of the town-  
ship, I find that all or  
nearly all evidences  
of the original corners  
have been obliterated  
by a forest fire  
several years ago (1883)  
therefore I am obliged  
to resurvey it.

At the cor. to Tps. 22  
and 23 N. R's 6 and 7  
E. I verify the adjust-  
ments of my instru-

Bdy. Ips. 23 N. R. 7 East.

ment and find them correct. I set off  $15^{\circ} 43'$  on the decl. arc. and at 12 h. 5 m. p. m. l. m. t. observe the sun on the meridian, the resulting latitude is  $35^{\circ} 18' N.$  the true lat. nearly.

At 2 h. p. m. l. m. t. I set off  $35^{\circ} 18' N.$  on the lat. arc.  $15^{\circ} 41' N.$  on the decl. arc. and determine a true meridian with the solar; the resulting mean variation is  $15^{\circ} 06' E.$

From the cor. to  
Ips. 22+23. N R 6 and 7 E.

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## Resurvey of the West Exterior

Chains I run

North on a random line  
bet said ranges

Var  $15^{\circ} 06' E$ .

I set temporary half  
mils and mils corners  
at each 40 and 80 chains  
and found the town-  
ship line to be 6 miles  
long and the alignment  
correct.

August 9<sup>th</sup> 1894.

From the cor to Tps.  
23 and 24 N. Rs. 6 and 7 E.

I run

South on a true line  
bet secs. 1 and 6

Var.  $15^{\circ} 06' E$ .



Bdy. Twp. 23 N. R. 7 E - Contd

Chains. Over rolling heavily timbered land.

1.11 Pine 16 ins. diam on line I mark with 2 notches on N. and S. sides.

40.00 Set a malpais stone 16x14x10 ins, 11 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face and raised a mound of stone 2 ft. high 3 ft. base along-side, from which

A pine 18 ins. diam. bears N.  $33^{\circ}12'$  E. 47 lks dist. marked  $\frac{1}{4}$  S. B. J.

A pine 20 ins. diam bears S.  $39^{\circ}22'$  W. 110 lks. dist. marked  $\frac{1}{4}$  S. B. J.

## Resurvey of the West Exterior

## Chains.

57.00 Ascena 200 ft. to.

80.00 Set a Sandstone

17x16x16 ins. 12 ins. in the  
ground for cov to secs  
1, 6, 7 and 12 marked  
with 1 notch on N. and 5  
notches on S. edges from  
which

A fir 30 ins. diam.  
brs. N.  $15^{\circ} 26'$  E. 106 lks.  
dist marked T. 23 N.R.  
7 E. 6 B.G.

A fir 16 ins. diam. bears  
S  $28^{\circ} 31'$  E. 140 lks. dist  
marked T. 23 N.R. 7 E. 1  
7 B.G.

A pine 21 ins. diam.  
bears S.  $44^{\circ} 13'$  W. 123 lks.

Bdy. Twp. 23 N. R. 7 E - Contd.

dist. marked T. 23 N. R. 6  
E. S. 12 B. 1.

A pine 30 ins diam  
bears N.  $46^{\circ} 48'$  W. 23 lks  
dist. marked T. 23 N. R.  
6 E. S. 1 B. 1.

Land rolling and mount-  
ainous.

Soil stony 3<sup>rd</sup> rate.

Timber, pine, fir and  
aspen.

Mountainous or heavily  
timbered land 80 chains.

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South on a true line bet.  
secs. 7 and 12.

Var.  $15^{\circ} 06'$  E.

Over mountainous heavily  
timbered land.

## Resurvey of the West Exterior

Chains. Ascend 100 ft. to

4.00 Top ascent on mountain ridge bears E. and W.

Descend 300 ft. to

27.00 Foot of descent in bed ravine 25 ft. deep course N. 80° W.

Ascend 500 ft.

40.00 A mound of stone partially leveled.

Set a sandstone 18x16x16 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face and raised a mound of stone 2 ft.

high 3 ft. base alongside from which

A spruce 10 ins. diam. bears A. 82° 46' W. 34 lbs.



Bdy. Twp. 23 N. R. 7 E - contd

Chains dist. marked  $\frac{1}{4}$  S. B. I.

A spruce 14 ins. diam.  
bears S.  $4^{\circ} 29' W$ . 17 lks.  
dist. marked  $\frac{1}{4}$  S. B. I.

42.00 Top ascent on E. side of  
mountain peak about  
7 chains E. and 150 ft.  
below apex.

Descend 300 ft. over S. E.  
slope of mountain.

53.00 Ravine 23 ft. deep  
course S.  $40^{\circ} W$ .

A point 300 ft. below  
top of last ascent.

80.00 Set a sandstone  $24 \times 20 \times$   
18 ins. 18 ins. in the  
ground for cor to Secs.  
7, 12, 13 and 18 marked  
with 2 notches on N.

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## Resurvey of the West Exterior

Chains and 4 notches on P.  
edges, from which

A pine 21 ins. diam.  
bears N.  $23^{\circ} 22'$  E. 112 lks.  
dist marked T. 23 N. R.  
7 E. A. 7 B. G.

A pine 20 ins. diam.  
bears A.  $75^{\circ} 03'$  E. 31 lks.  
dist marked T. 23 N. R.  
7 E. A. 18 B. G.

A pine 40 ins. diam.  
bears S.  $44^{\circ} 33'$  W. 69 lks.  
dist. marked T. 23 N. R. 6 E.  
A. 13 B. G.

A pine 18 ins. diam.  
bears N.  $27^{\circ} 17'$  W. 88 lks.  
dist marked T. 23 N. R.  
6 E. A. 12 B. G.

Land mountainous.

Bdy. Twp. 23 N. R. 7 E - Contd

Chains Soil stony <sup>3</sup> rd. rate.

Timber, pine, fir, spruce,  
aspens and maple.

Mountainous or heavily  
timbered land. 80 chs.

South on a true line  
bet. secs. 13 and 18.

Var.  $15^{\circ} 06' E$ .

Over mountainous  
heavily timbered land.

Descend 100 ft.

9.00 Leave heavily timbered  
land enter open park.

Ascend gradually  
13.00 Old well about 1 chain  
E. of line

15.20 Wood road bears E. and W.

40.00 A point about 200 ft.

## Resurvey of the West Exterior

Chains above last sec. cor.

A flat sandstone in place I marked with a cross (X) at exact point for  $\frac{1}{4}$  sec. cor. with  $\frac{1}{4}$  on W. of cross and raised a mound of stone  $1\frac{1}{2}$  ft. high 3 ft. base alongside from which

A pine 14 ins. diam bro  
W. 97 lks. dist. marked  $\frac{1}{4}$ D.  
B.F.

No other trees within limits

53.00 Enter heavily timbered land with dense undergrowth.

8000 A point 300 ft. above last sec. cor.

80.00 An aspen 10 ins. diam.



Bdy. Sp. 23 N. R. 7 E - contour

Chains. I marked

T. 23 N. S. 18 on N. E.

R. 7 E. S. 19 on S. E.

R. 6 E. S. 24 on S. W.

S. 13 on N. W. faces with  
3 notches on N. and S.  
sides, and raised a  
mound of stone 3 ft. high  
4 ft. base around tree,  
from which

An aspen 6 ins. diam.  
bears N.  $37^{\circ} 05'$  E. 16 lks.  
dist. marked T. 23 N. R.  
7 E. S. 18 B. J.

An aspen 10 ins. diam  
bears S.  $46^{\circ} 11'$  E. 11 lks.  
dist. marked T. 23 N. R.  
7 E. S. 19 B. J.

An aspen 6 ins. diam.

## Resurvey of the West Exterior

Chains bears S.  $23^{\circ}12'$  W. 10 lks. dist  
 marked T. 23 N.R. 6 E. A.  
 24 B.G.

An aspen 6 ins. diam.  
 bears N.  $53^{\circ}04'$  W. 72 lks.  
 dist. marked T. 23 N.R.  
 6 E. S. 13 B.G.

Land mountainous.

Soil stony 2<sup>nd</sup> and 3<sup>rd</sup>  
 rate.

Timber, pine, fir, spruce,  
 aspen and maple, dense  
 undergrowth of spruce  
 and aspen.

mountainous or heavily  
 timbered land 80 chs.

South on a true line  
 bet secs. 19 and 24

Bdy. Sp 23 N.R. 7 E - contd.

Chains, Var.  $15^{\circ} 06' E$ .

Over mountainous heavily timbered land.

Ascending along N.W. base of San Francisco Peak.

36.00 Ravine 50 ft. deep.  
course N.  $74^{\circ} W$ .

40.00 A point 301 ft. above  
last sec. cor.

Set a granite stone  
 $18 \times 16 \times 8$  ins.  $12$  ins. in  
the ground for  $\frac{1}{4}$   
sec. cor. marked  $\frac{1}{4}$  on W.  
face and raised a  
mound of stone 2 ft.  
high 3 ft. base along-  
side from which  
A fir 16 ins. diam.

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## Resurvey of the West Exterior

- Chains bears S.  $81^{\circ}32'$  E. 20 lks.  
 dist. marked  $1/4$  S. B. G.
- A fir 18 ins diam.  
 bears S.  $73^{\circ}50'$  E. 26 lks.  
 dist. marked  $1/4$  S. B. G.
- 51.00 Top ascent about  
 500 ft. above last sec.  
 cor. on ridge bears  
 S. and N. W. thence  
 along top of ridge.
- 60.00 Leaves ridge, bears N.  
 & S. E., and descend  
 100 ft.
- 62.00 Foot descent in bet  
 ravine 20 ft. deep, course  
 N.  $83^{\circ}$  W. and ascend  
 200 ft. to
- 70.00 Top of ascent on  
 broad ridge bears E.



Bdy Sp. 23 N. R. 7 E - contd.

Chains and D. W.; thence over  
top of ridge to

74.00 Descend 40 ft. to

80.00 Set a granite stone  
19x18x16 ins. 15 ins in  
the ground for cor to  
secs 19+24x25 and 30  
marked with 4 notches  
on N. and 2 notches on  
S. edges, aug pit  
18x18x12 ins. in each  
sec. 5 1/2 ft. dist. and  
raised a mound of  
earth 3 ft. high 5 1/2 ft.  
base alongside from  
which

A fir 18 ins diam.  
bears N. 42° 26' E. 86  
lks. dist. marked S. 23

## Resurvey of the West Exterior

Chains. N. R. 7 E. S. 19 B. J.

A fir 14 ins. diam.  
 bears S.  $39^{\circ}26'$  E. 14 lks  
 dist. marked J. 73 A.  
 R. 7 E. S. 30 B. J.

A fir 20 ins. diam.  
 bears S.  $16^{\circ}42'$  W. 28 lks  
 dist. marked J. 73 N. R.  
 6 E. S. 25 B. J.

A fir 6 ins. diam. bears  
 N.  $52^{\circ}16'$  W. 24 lks. dist.  
 marked J. 73 R. 6 E. S.  
 24 B. J.

Land mountainous  
 Soil stony 2<sup>nd</sup> and 3<sup>rd</sup> rate.  
 Timber, pine, fir, spruce,  
 aspen and maple,  
 with dense undergrowth  
 of aspen and fir.

Bdy. Tp. 23 N. R. 7 E = Contd

Chains, Mountainous or heavily  
timbered land, 80 chs.

South on a true line  
bet secs. 25 and 30

Var.  $15^{\circ} 06$

Over mountainous  
heavily timbered  
land. Ascend along W.  
base of San Francisco  
Peak, about 800 ft.

31.00 Top of ascent, on broad  
ridge, bears N. W.

Thence over top of ridge.

40.00 Set a sandstone  $20 \times 18 \times 18$   
ins. 15 ins. in the  
ground for  $1/4$  sec. cor.  
marker  $1/4$  on W. face  
and raised a mound

## Resurvey of the West Exterior

Chains of stone, 2 ft. high 3 ft.  
base alongside,  
from which

A fir 16 ins. diam.  
bears  $S. 89^{\circ} 18' E. 14$  lks.  
dist marked  $\frac{1}{4} \text{ D.}$

B. J.

An aspen 10 ins.  
diam. bears  $N. 38^{\circ}$   
 $03' W. 16$  lks. dist  
marked  $\frac{1}{4} \text{ D. B. J.}$

41.00 Descend 400 ft. to

61.00 Foot descent in bed  
ravine, 10 ft. deep  
course W.

Ascend 60 ft.

64.30 Top ascent on ridge  
bears E. and W.

Descend 150 ft.



Body. Twp. 23 N. R. 7 E - cont'd

Chains.

80.00 Foot descent, A small mound of stone.  
 Set a sandstone  $21 \times 14 \times 10$  ins. 16 ins. in the ground for cor. to Secs. 25, 30, 31 and 36 marked with 5 notches on N. and 1 notch on S. edges, dug pits  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound of stone covered with earth 3 ft. high 5 ft. base along side, from which  
 A fir 6 ins diam. bears N.  $50^\circ$  E. 67 lks dist. marked T. 23 N. R.

1884.

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## Resurvey of the West Exterior

Chains 7 E. A. 30 B. J.

An aspen 6 ins. diam.  
bears  $\Delta$ .  $61^{\circ} 18' E$ . 40 lks.  
dist. marked T. 73 N. R.  
7 E.  $\Delta$ . 31 B. J.

An aspen 6 ins diam.  
bears  $\Delta$ .  $52^{\circ} 50' W$ . 23 lks.  
dist. marked T. 73 N. R.  
6 E.  $\Delta$ . 36 B. J.

An aspen 6 ins. diam.  
bears  $\Delta$ .  $63^{\circ} 53' W$ . 36  
lks. dist. marked T. 73  
N. R. 6 E.  $\Delta$ . 45 B. J.

Land mountainous.

Soil stony 3<sup>rd</sup> rate.

Timber pine, fir,  
spruce and aspen  
dense undergrowth  
of aspen and fir.

Bdy. Tp 23 N. R. 7 E - Contd.

Chains, mountainous or heavily  
timbered land. 80 chains

South on a true line  
bet sec. 31 and 36.

Var  $15^{\circ} 06' E$ .

Over mountainous  
heavily timbered land.  
Along W. base of San  
Francisco Peak and  
Agassiz Peak.

3.00 Ravine 12 ft. deep course  
W.

Ascend 300 ft.

40.00 A stone firmly set and  
properly marked and  
witnessed as described  
in the field notes  
furnished by the

## Survey of E. Exterior Boundary

Chauss. Surveyor General

5550 Ravine 40 ft. deep  
course W.

8000 Top ascent on ridge  
bears E. and W.

The cov. to Tps. 22 and  
23 N. R's 6 and 7 E.

Land mountainous.

Soil stony 3<sup>rd</sup> rate.

Timber pine fir  
and aspen, dense  
undergrowth of  
aspen and fir.

August 10<sup>th</sup> 1894.

At the cov. to Tps.

22 and 23 N. R's 7 and 8.

E. I verify the adjust.

ments of my instrument



of T. 23 N. R. 7 E =

chains, and find them correct.

At 6.40 a.m. l.m.t. I set off  $35^{\circ} 18' N$  on the lat. arc.  $15^{\circ} 12'$  on the decl. arc; and <sup>determining</sup> a true meridian with the solar, the resulting va. of the needle is  $15^{\circ} 06' E$ .

Thence I run North on a random line bet. said ranges; I set temporary half mile and mile corners at each 40 and 80 chs and find the township line to be 5 miles 72 chains and 8 links long, and the falling to be 5.69 chains E of cor.

## Survey of E. Exterior Boundary

Chains to Tps. 23 and 24 N. Rs. 7 and 8 E. which is a post firmly set and properly marked and witnessed as described in the field notes furnished by the Surveyor General; In accordance with my special instructions I obliterate all marks which refer to surveys on the S. and at the point of intersection of my random line. Set a malpais stone  $18 \times 16 \times 12$  ins. 13 ins. <sup>closing</sup> in the ground for cor. to Tps. 23 N. Ranges

of T. 23 N. R. 7 E - contd.

Chains 7 and 8 E marked c.c.  
<sup>with 6 notches on E. E + N.</sup>  
 on D. face and raised  
 a mound of stone 2  
 ft. high 3 ft. base  
 alongside from  
 which

A pinon 17 ins. diam  
 bears S.  $30^{\circ}$  E. 139 lks.  
 dist. marked T. 23 N. R.  
 8 E. A. 6 B.S.

A pinon 6 ins diam  
 brs. S.  $16^{\circ} 34'$  E. 99 lks  
 dist. marked T. 23  
 N. R. 8 E. A. 6 B.S.

A pinon 6 ins diam.  
 bears S.  $8^{\circ} 33'$  W. 133 lks  
 dist. marked T. 23 N. R.  
 7 E. A. 1 B.S.

A pinon 8 ins diam.

## Survey of E. Exterior Boundary

Chains. bears S.  $40^{\circ}27'W$ . 90 lks  
 dist. marked T. 33 N.

R. 7 E. S. 1 B. 9.

Thence I run  
 South on a true  
 line bet secs. 1 and 6  
 Var.  $15^{\circ}06'E$ .

Over rolling land  
 through scattering  
 brush

12.73 Road from Grand  
 canon to Flagstaff  
 bears N.  $40^{\circ}W$ . and S.  
 $40^{\circ}E$ .

39.08 Set a malpais stone  
 $21 \times 20 \times 18$  ins. 15 ins.  
 in the ground for  $\frac{1}{4}$   
 sec. cor. marked  $\frac{1}{4}$  on  
 W. face and raised



of T. 23 N. R. 7 E - contd.

Chamis a mound of stone 3 ft. high 3 ft. base along side, from which

A pinon 8 ins. diam bears N.  $89^{\circ} 38'$  W. 80 lks, dist. marked  $\frac{1}{4}$  S. R. &.

A pinon 6 ins. diam, bears N.  $2^{\circ} 20'$  E. 67 lks. dist. marked  $\frac{1}{4}$  S. R. &.

7208 A malpais rock in place  $2 \times 3 \times 1$  ft. above ground, I marked with a cross (X) at exact point for cor. to sees 1, 6, 7 and 12 with 1 notch on N. and 5 notches on S. edges, and raised a mound

## Survey of E. Exterior Boundary

Chains of stone 2 ft. high 3 ft. base alongside from which

A pinon 8 ins diam bears N.  $22^{\circ} 46'$  E. 39 lks. dist marked T. 23 N.R. & E. A. C. B. S.

A pinon 16 ins. diam. bears N.  $35^{\circ} 54'$  E. 211 lks. dist marked T. 23 N.R. & E. A. C. B. S.

No other trees within limits.

Land rolling

Soil stony 3rd rate

No timber cedar and juniper brush.

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South on a true line

of T. 23 N. R. 7 E - Contd.

Chains bet sec. 4 and 12

Var.  $15^{\circ} 06' E$ .

Over rolling land.

28.00 Ascend 150 ft. Enter scattering timber

36.00 Top ascent; thence over rolling land

40.00 Set a granite stone  $19 \times 18 \times 17$  ins. 15 ins in the ground for  $\frac{1}{4}$

Sec. cor. marked  $\frac{1}{4}$  on W. face and raised a mound of stone 2 ft. high 3 ft. base alongside from which

A pinon 10 ins. diam bears  $N. 28^{\circ} 16' E. 148$

lks. dist marked  $\frac{1}{4}$

A. B. J.

## Survey of E. Exterior Boundary

Chains. A pinon 16 ins. diam  
 bears S.  $61^{\circ}03'$  E. 160 lks  
 dist. marked  $\frac{1}{4}$  S.  
 B.S.

57.00 Descend 150 ft. to

62.55 Foot of descent in  
 bed ravine 40 ft. deep  
 course N.  $70'$  E.

Ascend 40 ft. to

64.00 Top ascent on S. E.  
 bank of ravine

Thence over rolling land

80.00 Set a volcanic stone  
 $19 \times 18 \times 17$  ins. 15 ins. in  
 the ground for cor  
 to Secs. 7, 12, 13 and  
 18 marked with 2  
 notches on N. and 4  
 notches on S. edges



of Sp. 23 N. R. 7 E. - Contd.

Chains dug pits 18x18x12 ins.  
in each sec. 5 1/2 ft. dist.  
and raised a mound  
of stone covered with  
earth 3 ft. high 6 ft. base  
alongside from which

A pine 32 ins. diam  
bears S. 43° 28' E. 181  
lks. dist. marked T. 73  
N. R. 8 E. S. 7 B.S.

A pine 24 ins. diam  
bears S. 23° 00' E. 145 lks  
dist. marked T. 73 N. R.  
8 E. S. 18 B.S.

A pine 20 ins. diam.  
bears S. 43° 48' W. 229  
lks. dist. marked T. 73  
N. R. 7 E. S. 13 B.S.

A pine 30 ins. diam.

## Survey of E. Exterior Bound-

Chains. bears N.  $34^{\circ} 34' W$ ,  
 229 lks. dist. marked  
 T. 73 N. R. 7 E. S. 17  
 B.S.

Land rolling and  
 broken.

Soil stony 3<sup>rd</sup> rate.  
 Timber, pine, cedar  
 and pinon brush.

South on a true line  
 bet sec. 13 and 18

Var  $15^{\circ} 06' E$ .

Over rolling land  
 through timber.

17.00 Ascend 150 ft. to  
 26.69 Top ridge bears  
 E. and N. Enter  
 heavily timbered

any of T 23 N. R. 7 E - Contd.

Chains land.

Descend 60 ft.

37.00 Foot descent in bed  
ravine 4 ft. deep  
course E.

Thence over rolling  
land.

40.00 Set a pinion post of  
ins. square 4 ft. long  
with marked stone  
12 ins in the ground  
for 1/4 sec. cor. marked  
1/4 on W. face, dug pits  
N. + S. of stone 5 1/2 ft.  
dist and raised a  
mound of earth 3 ft.  
high 5 ft. base around  
foot, from which  
a pine 24 ins diam

## Survey of E. Exterior Boundary

Chains bears N.  $31^{\circ}52'$  E. 27

lks. dist. marked  $\frac{1}{4}$

A. B. J.

A pine 20 ins. diam.

bears S.  $74^{\circ}06'$  E. 40

lks. dist. marked  $\frac{1}{4}$

A. B. J.

46.20 Road bears N.  $75^{\circ}$  W.  
and S.  $75^{\circ}$  E.

59.55 Wash 30 ft. deep  
course E.

80.00 Set a granite stone  
20 x 20 x 18 ins. 15 ins.  
in the ground for  
cor. to secs. 13, 15, 19  
and 24, marked with  
3 notches on N. and S.  
edges, and raised a  
mound of stone 2 ft.



of Sp. 23 N.R. 7 E - contd.

Chains high, 3 ft. base along-  
side from which

A pine 20 ins. diam.  
bears N. 44° 08' E. 47  
lks. dist. marked T. 73  
N.R. 8 E. S. 18 B.T.

A pine 24 ins. diam  
bear S. 46° 46' E. 78 lks.  
dist. marked T. 23 N.  
R. 8 E. S. 19 B.T.

A pine 36 ins. diam.  
bears S. 48° 26' W. 60 lks  
dist. marked T. 23 N.R.  
7 E. S. 24 B.T.

A pine 40 ins. diam.  
bears N. 40° 39' W. 103  
lks. dist. marked T. 73  
N.R. 7 E. S. 13 B.T.

Land rolling

## Survey of E. Exterior Boundary

Chains. Soil gravelly 2<sup>nd</sup> rate  
 Timber pine  
 Heavily timbered  
 land 53.31 chains.

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South on a true  
 line bet secs. 19 and 24  
 Var.  $15^{\circ} 06' E$ .

Over rolling heavily  
 timbered land

- 2.06 Ravine 6 ft deep course E.  
 17.00 Ravine 20 ft. deep course E.  
 19.70 Ravine 20 ft. deep course E.  
 39.55 Ravine 15 ft. deep course E.  
 40.00 Set a granite stone  
 19x18x18 ins. 15 ins. in  
 the ground for  $1/4$  sec. cor.  
 marked  $1/4$  on W. face  
 and raised a mound

of Tp. 23 N. R. 7 E - Contd.

chains of stone 2 ft. high 3 ft. base, alongside, from which

A pine 16 ins. diam. bears N.  $75^{\circ}33'$  E. 40 lks. dist. marked 1/4 S. B.T.

A pine 18 ins. diam. bears N.  $65^{\circ}37'$  W. 45 lks. dist. marked 1/4 S. B.T.

50.00 Ravine 15 ft. deep, course E.

52.69 Road bears E. and W.

59.00 Ravine 30 ft. deep E.

61.00 Descent 150 ft.

63.00 Foot descent in bed ravine 15 ft. deep, course E.

Note: - A log cabin bears N. W.

# Survey of E. Exterior Boundary

## Chains.

71.00 Ascend 150 ft. to  
 Top ascent and  
 descend 100 ft. to  
 79.79 Foot descent in bed  
 ravine 40 ft. deep course  
 E.

80.00 Ascend 20 ft. to  
 A flat granite rock  
 in place I marked  
 with a cross (X) at exact  
 point for cor. to secs.  
 19, 24, 25 and 30, with 4  
 notches on N. and 2  
 notches on S of cross,  
 and raised a mound  
 of stone 2 ft. high 3 ft.  
 base alongside  
 from which



of T. 23 N.R. 7 E. - contd.

Chains a pine 28 ins diam.  
bears N.  $80^{\circ} 26'$  E. 100 lks.  
dist. marked T. 23 N.R.  
8 E. A. 19 B.S.

A pine 22 ins. diam.  
bears S.  $48^{\circ} 11'$  E. 140 lks.  
dist. marked T. 23 N.R.  
8 E. A. 30 B.S.

A pine 16 ins diam.  
bears S.  $85^{\circ} 57'$  W. 63  
lks. dist. marked T. 23  
N.R. 7 E. A. 25 B.S.

A pine 18 ins diam.  
bears N.  $16^{\circ} 09'$  W. 102  
lks. dist. marked T. 23  
N.R. 7 E. A. 24 B.S.

Land rolling and broken  
Soil stony <sup>3rd</sup> rate.  
Timber pine and fir.

Survey of E. Exterior Boundary

Chains. Heavily timbered land.  
80 chains.

South on a true line  
bet secs. 25 and 30  
Var.  $15^{\circ}06' E.$

Over broken mount-  
ainous heavily  
timbered land.  
Ascend 150 ft.

4.00 Top ascent on ridge  
bears E. and W.

Descend 80 ft. to

7.00 Foot descent in bed  
ravine 10 ft. deep course  
E.

Ascend 100 ft. to

17.00 Top ascent on ridge  
bears E. and W.

of T. 23 N. R. 7 E - levants.

Chains Descend 80 ft. to.

26.55 Foot descent in bed  
ravine 10 ft. deep course  
E.

Ascend 100 ft. to

40.00 Top ascent on ridge  
bears E. and W.

Set a malpais stone 18 x  
16 x 16 ins. 12 ins. in the  
ground for  $\frac{1}{4}$  sec. cor.  
marked  $\frac{1}{4}$  on W. face  
and raised a mound  
of stone 2 ft. high 3 ft.  
base alongside, from  
which

a pine 14 ins. diam  
bears S.  $33^{\circ} 47'$  E

72 lbs. dist. marked  
 $\frac{1}{4}$  A. T. G.

## Survey of E. Exterior Boundary

Chains. A pine 12 ins. diam.  
 bears S.  $81^{\circ} 31' W.$  91 lks.  
 dist marked  $\frac{1}{4}$  S. B.S.  
 Descend 55 ft.

73.15 A pine 10 ins. diam.  
 on line I mark  
 with 2 notches on N.  
 and S. sides

80.00 A point 40 ft below  
 last sec. cor.

Set a malpais stone  
 $20 \times 19 \times 12$  ins. 15 ins.  
 in the ground for  
 cor to secs. 25, 30, 31  
 and 36 marked  
 with 5 notches on N.  
 and 1 notch on S.  
 edges, dug pits  
 $18 \times 18 \times 12$  ins. in



of T 23 N. R. 7 E - contd.

Chains each sec.  $5\frac{1}{2}$  ft. dist.  
and raised a mound of  
stone covered with earth  
3 ft. high 6 ft. base  
alongside, from which

A pine 37 ins. diam.  
bears N.  $36^{\circ}42'$  E. 71 lks  
dist marked T. 23  
N. R. 8 E. A. 30 B. 1.

A pine 20 ins. diam.  
bears S.  $52^{\circ}39'$  E. 107  
lks. dist marked T.  
23 A. R. 8 E. A. 31 B. 1.

A pine 8 ins. diam.  
bears S.  $9^{\circ}37'$  W.  
105 lks. dist. marked  
T. 23 N. R. 7 E. A. 36  
B. 1.

A pine 10 ins. diam.

128 Survey of E. Exterior Boundary  
of Tp. 23 N. R. 7 E. - Continued

Chains bears N.  $77^{\circ} 33'$  W.  
85 lks. dist. marked

T. 23 N. R. 7 E. S.

25 B.G.

Land mountainous  
and rolling.

Soil stony & rat.

Timber pine

Heavily timbered  
land 80 chains.

South on a true line  
bet. secs. 31 and 36

Var.  $15^{\circ} 06'$  E.

Over mountainous  
heavily timbered  
land.

3.85 Ravine 10 ft. deep  
course E.