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Wolfley D.S.

1374

BOOK 1374

4-671

FIELD NOTES  
GENERAL LAND OFFICE.

Ac. 1374  
V



No. 1374

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BOOK 1374

Field Notes  
of the Survey of  
Fractional South Boundary  
T. 28 N. R. 4 E.

West Bdy T. 28 N. R. 4 E  
Fractional West Bdy T. 27 N. R. 4 E  
North Bdy T. 29 N. R. 4 E

Commencing Sept 20, 1900  
Ending Oct 3, 1900

For preliminary cath  
"B" Subs. T. 29 N



South Boundary T 28 N R 24 E Cont'd  
Chain

Soil 3<sup>rd</sup> Rate

Formation Volcanic Tuff

Character Mountainous

3 chs open ground

82.13 chs Heavy Timber dense brush

85.13 chs Mountainous in character.

"

N.  $89^{\circ}58'$  E. bet Secs 3 and 34

Nearly level - Rocky

Some Cedar and Pinon

24.50 Open draw - cr S<sup>ly</sup>

29.00 Ascend gradually

29.11 dense Cedar and Pinon

40.110 Set a limestone  $16 \times 10 \times 8$  ins

10 ins in grad for  $\frac{1}{4}$  Sec cor bet

Secs 3 and 4 on  $\frac{1}{4}$  S. on

N. face, from which.

A Pinon 9 ins dia brs N  $41^{\circ}$  E

86 like dist  $\frac{1}{4}$  S 34 R. T.

A Pinon 6 ins dia brs S.  $52^{\circ}16'$  N

South Boundary T. 28 N. R. 4 E. Cont'd  
Chains

17 lke dist mkd  $\frac{1}{4}$  S 3 W. I.

Ascend gradually - Rocky

80.00

Set a limestone  $22 \times 20 \times 8$  ins  
16 ins in grad for cor of Sec 2, 3,  
34 and 35, mkd with 4 notches  
on N and 2 notches on E edges,  
from which

A Pinon 9 ins dia br N  $45^{\circ}30'$  E  
62 lke dist mkd

T. 28 N. R. 4 E. S. 35 - W. I.

A Pinon 6 ins dia br S  $40^{\circ}45'$  E  
61 lke dist mkd

T. 27 N R 4 E S 2 W. I.

A Pinon 7 ins dia br S  $22^{\circ}45'$  N  
73 lke dist mkd

T. 27 N R 4 E S 3 W. I.

A Pinon 6 ins dia br N  $65^{\circ}45'$   
N. 23 lke dist mkd

T. 28 N R 4 E S 34 W. I.

Soil 4<sup>th</sup> Rate.

South Boundary 1 28 N R 4 E Cont'd  
chains

Formation Volcanic Lime  
Character Mountainous

4.50 chs Open grad

79.72 chs Heavy Timber <sup>with some brush</sup>

83.22 chs Mountainous in character

N.  $89^{\circ}58'$  E bet Secs 2 and 35

Descend gradually - Rocky  
Some Cedar and Pinon.

- 4.00 Ascend gently
- 10.00 Level
- 16.00 Descend gradually
- 20.50 Cross draw cr S<sup>ly</sup>  
Ascend gradually
- 25.00 Descend gently
- 33.00 Cross draw cr S<sup>ly</sup>  
Ascend gradually
- 40.00 Set a limestone 16 x 9 x 8 ins  
10 ins. in grad for  $\frac{1}{4}$  Sec Cor bet  
Secs 2 and 35 - marked  $\frac{1}{4}$  S on



South Boundary T 28 N R 4 E Contd  
chains

N face, from which

A Pinon 8 ins dia brs S 15° W

22 lks dist mtd  $\frac{1}{4}$  S. 2 B. T.

A Pinon 10 ins dia brs N 6° 15' W

60 lks dist mtd  $\frac{1}{4}$  S. 35° B. T.

descend gradually

46 00 Ascend gradually

53 00 Nearly Level

80 00 Set a Pinon post 3 ft long 4

ins @ of 24 ins in grof for cor

of Secs 1, 2, 30, 36, mtd

T. 28 N. S 36 on N.E. R. 4 E.

Sec 1 on S.E. <sup>T 27 N</sup> S 2 on S.W.

S 35 on N.W. face with 1

notch on E and 5 notches on W

edges; from which

A Pinon 10 ins dia brs N 44° W

71 lks dist mtd

T. 28 N R. 4 E. S 35 B. T.

A Pinon 12 ins dia brs S 09° 45' E

South Boundary T 28 N R 4 E Contol  
chains

84 lks dist mka

T. 27 N R 4 E. S 1 R. T.

A Pinon 8 ins dia br N 49° E

53 lks dist mka

T. 28 N R 4 E S 36 R. T.

A Cedar 14 ins dia br S 9° N

66 lks dist mka

T 27 N R 4 E S 2 R. T.

Soil 3<sup>rd</sup> Rate

Formation Volcanic Lime

Character Mountainous

83.56 lks Heavy Timber and dense brush

83.56 lks Mountainous in character

N 89° 58' E bet Secs 1 and 36

Level

dense Cedar and Pinon

10.00 Ascend gently

21.00 Open draw cr. S by

24.00 dense Cedar and Pinon



South Boundary 12<sup>th</sup> N R 4<sup>th</sup> E Cont.  
chains

40.00 Set a Sandstone 26 x 16 x 3 ins 20 ins  
in grad. for  $\frac{1}{4}$  Sec Cor bet Sec 1<sup>st</sup> and 3<sup>rd</sup>  
mkd  $\frac{1}{4}$  S on N. face; from which  
A Pinon 9 ins dia brs S 10° N 48  
lks dist mkd  $\frac{1}{4}$  S. 103 T.  
A Pinon 6 ins dia brs N 13° E 73  
lks dist mkd  $\frac{1}{4}$  S. 36 03 T.

Ascend gradually

51.00 Descend gently

60.00 Ascend gently

80.00 Intersect Cor T<sup>p</sup> 27 and 28 N.  
R<sup>o</sup> 4 and 5 E.

Soil B<sup>o</sup> Rate

Formation Volcanic Lime

Character Mountainous

3.00 chs open grad

78.21 chs Heavy Timber and Small Brush

81.21 chs Mountainous in Character.

South Boundary T. 28 N R 4 E Cont'd  
chains

General Description

Grass poor in Cedar and  
Piñon but fair in open ground.  
Land nearly level

The elevation is about 7000 ft.  
Volcanic lime has flooded over  
the ground and when cool broken  
into rough and jagged rocks

There is but little soil ex-  
cept in the low grounds and  
washes and it is volcanic  
ash and decayed vegetation-  
with water would be good  
in some portions.

Mineral signs poor

No water

Lewis Walfler  
U.S. Dept. Survey.

Great Boundary T 28 N R 4 E  
Chains

Sept 20 7 a.m. L.M.T. I set off  
35° 49' 23" N on lat arc 1° 11' N on

dec arc and determined true  
Meridian with the solar at the  
S.C. to T<sup>p</sup> 29 N R<sup>2</sup> 3 and 4 E.  
Thence I run

W 6.24 chs

Set a Pinon post 3 ft long 4 ins  
ap 24 ins in ground for closing  
cor of T<sup>p</sup> 28 N R<sup>2</sup> 3 and 4 E  
marked C C T 28 N on S.

R 4 E Sec 6 on E and R 3 Sec  
1 on W faces with 6 grooves  
on S.E. and W faces, from which  
A Pinon 7 ins dia br S 60° 45'

W 16 lks dist marked

T 28 N. R 3 E S 1 B. T.

A Pinon 6 ins dia br S 2° 30'

E 25 lks dist marked

T 28 N R 4 E S 6 B. T.



Weak Boundary T 28 N R 4 E Cont'd  
chains

Thence I run

S bet Sec 1 and 6

Dense Cedar and Piñon

Ascend gently

5.00 descend gently

40.00 Set a sandstone 18x10x6 ins

<sup>12</sup> pins in the ground for  $\frac{1}{4}$  sec

cor bet Sec 1 and 6 marked

$\frac{1}{4}$  S on W face, from which

A Piñon 6 ins dia bet S  $70^{\circ}30'$

E 30 lks dist marked  $\frac{1}{4}$  S.

6 B.T.

A Piñon 7 ins dia bet S  $15^{\circ}15'$

W 33 lks dist marked

$\frac{1}{4}$  S 1. B.T.

Level

46.00 Dense standing and fallen

Cedar and Piñon fire swept

Rocky

53.00 descend gently

West Boundary T 28 N R 4 E Cont'd  
chains

54.00 Old log corral

70.00 Cross draw cr S W by and  
Cross trail bre N E End S W by  
Dense live and dead and  
fire swept Cedar and Piñon

80.00 Set a limestone 20x10x8 ins  
15 ins in the ground for cor of  
Secs 1, 6, 7 and 12 marked  
with 1 notch on N and 5 notches  
on S. edges, from which

A Piñon 5 ins dia bre N 64°45'

N. 114 lks diet marked

T 28 N R 3 E S 1 B.T.

A Piñon 6 ins dia bre S 56°15'

N. 119 lks diet marked

T 28 N R 3 E S 12 B.T.

A Piñon 10 ins dia bre N 86°30'

E 179 lks diet marked

T 28 N R 4 E S 6 B.T.

A Cedar 10 ins dia bre S.E. 164 lks

West Boundary T 28 N R 4 E Cont'd  
chains

ditch marked

T 28 N R 4 E S 7 B 1.

Soil 4<sup>th</sup> Rate

Formation Volcanic Line

Character Mountainous

6.24<sup>ch</sup> connecting line - Dense  
Brush

86.80 chs Heavy Timber - Dense Brush

86.80 chs Mountainous in Character

"

S bet Secs 7 and 12

Dense Cedar and Pinon fire  
swept and Buck Brush

Nearly level - Rocky

10.00 Enter burnt dense cedar and  
Pinon standing and fallen

14.00 descend gently + Rocky

16.00 dense live cedar and Pinon

21.00 descend gradually

24.00 Cross draw or S Wly and



West Boundary 7 28 N R 4 E Cont'd  
chains

ascend gradually

28.00 descend gradually

40.00 Set a limestone 20 X 14 X 6 ins  
<sup>15</sup>/<sub>8</sub> ins in the ground for  $\frac{1}{4}$  Sec Cor

Set Secs 7 and 12 marked  
 $\frac{1}{4}$  S on N face; from which  
A Cedar 10 ins dia br S  $59^{\circ}$  W  
89 lks dist marked  $\frac{1}{4}$  S 12 R. T.

A Piñon 7 ins dia br S  $13^{\circ} 30'$  E.

162 lks dist marked  $\frac{1}{4}$  S 7 R. T.

Level

43.00 Enter dense burnt standing  
and fallen cedar and Piñon

58.00 descend gradually

67.50 Cross draw on N. E. and  
ascend gradually

80.00 Set a limestone 16 X 12 X 6 ins  
<sup>10</sup>/<sub>8</sub> ins in ground for Cor of Secs

7, 12, 13 and 18 marked with

2 notches on N and 4 notches on S edge

West Boundary T 26 N R 4 E. Crested  
chains

Long pits 18X15X12 ins in  
each sec 5 1/2 ft diet and  
raised a mound of earth 4  
ft base 2 ft high W of loc  
Soil H<sup>1/2</sup> Rate

Formation Volcanic Limestone  
Character Mountainous

82.51 Chs Heavy timber and  
dense brush

82.51 Chs Mountainous in character

S. bet Secs 13 and 18

Dense burnt standing and  
fallen Cedar and Pinon

Level - Rocky

- 3.00 Descend gradually  
13.00 Descend rapidly  
16.00 Scattering live cedar and  
Pinon among burnt  
17.00 Cross draw er W by

West Boundary T. 28 N. R. 4 E Cont'd  
chains

- 19.50 Cross trail br E 4 and W by  
24.00 Ascend gradually - Rocky  
40.00 Set a limestone 16 X 12 X 4 ins  
10 ins in ground for  $\frac{1}{4}$  sec cor bet  
Secs 13 and 18, marked  $\frac{1}{4}$  S. on W face  
Lug pits 18 X 18 X 12 ins N and S  
of stone 3 ft dia and raised a  
mound of earth 3  $\frac{1}{2}$  ft base  
and 1  $\frac{1}{2}$  ft high W. of cor.  
80.00 Set a limestone 16 X 12 X 6 ins  
11  
X ins in ground for cor of Secs  
13, 18, 19 and 24, marked with  
3 notches on N and 3 notches on  
S edge, from which  
A Pinon 6 ins dia br S 30° 30' W  
130 lbs dia marked  
T 28 N R 3 E. S 24 B.T.  
A Pinon 7 ins dia br S 62° 30' E  
172 lbs dia marked  
T 28 N R 4 E S 19 B.T.



West Boundary T 28 N R 4 E Cont'd  
chains.

A Pinon 7 ins dia br N  $73^{\circ}15'$  E  
213 lbs dia marked

T 28 N R 4 E S 15 B. T.

A Pinon 6 ins dia br N  $32^{\circ}15'$  W  
184 lbs dia marked

T 28 N R 3 E S 13 B. T.

Soil 4<sup>th</sup> Rate

Formation Volcanic Lime

Character Mountainous

86.99 chs Heavy Timber - Dense Brush

86.99 chs Mountainous in Character

S bet Decs 19 and 24

Nearly level - Rocky

Dense Cedar and Pinon

17.00 Descend gradually

26.00 Ascend gradually

Enter open draw cr SW by

28.00 Enter dense Cedar and Pinon

40.00 Set a limestone 14 X 12 X 8 ins

West Boundary T 28 N R 4 E Cont'd  
chains

9 ins in ground for  $\frac{1}{4}$  sec Cor bet  
Secs 19 and 24 marked  $\frac{1}{4}$  S on  
N. face, from which

A Pinon 12 ins dia bet N  $81^{\circ}$  E 330  
lks dist marked  $\frac{1}{4}$  S 19 R. T.

A Pinon 8 ins dia bet N  $19^{\circ}45'$  W  
64 lks dist marked  $\frac{1}{4}$  S 24 R. T.

Enter open draw cr Nly

45.00 Ascend gently

46.50 Enter dense cedar and Pinon

50.00 Level

80.00 Set a limestone  $18 \times 12 \times 6$  ins  $12$  ins  
in ground for Cor of Secs. 19, 24, 25,  
and 30 marked with 4 notches on

N and 2 notches on S., from which  
A Cedar 8 ins dia bet N  $25^{\circ}45'$  E  
96 lks dist marked

T 28 N R 4 E S 19 R. T.

A Pinon 10 ins dia bet S  $52^{\circ}45'$  E  
182 lks dist marked

West Boundary T 28 N R 4 E Cont'd  
Chairs

T 28 N R 4 E S 30 B. T.

A Pinon 7 ins dia brs S  $33^{\circ}15'W$   
250 lbs dia marked

T 28 N R 3 E S 25 B. T.

No other trees within limit.

Soil H<sup>1</sup> Rate

Formation Volcanic Lime  
Character Mountainous

8.50 chs open ground

80.72 chs Heavy timber - dense brush

89.22 chs Mountainous in character

S bet Secs 25 and 30  
dense Cedar and Pinon  
Level.

20.00 descend gradually

40 00 Set a limestone 16 x 12 x 10 ins

11 ins in ground for  $\frac{1}{4}$  Sec Cor bet  
Secs 25 and 30 marked  $\frac{1}{4}$  S  
on N face, from which



Great Boundary T 28 N R 4 E Cont'd  
chains

A Pinon 7 ins dia brs N  $79^{\circ}45'$  E  
144 lks dist marked  $\frac{1}{4}$  S 30 B. T.

A Pinon 6 ins dia brs N  $69^{\circ}15'$  W  
54 lks dist marked  $\frac{1}{4}$  S 25 B. T.

53.00 Descend gently Road E and N.

63.00 Descend gradually over Ely braker

76.00 Cross draw cr Wly and ascend  
rapidly

78.90 Level

80.00 Set a limestone 18 X 12 X 6 ins

12 ins in ground for Cor of Secs  
25, 30, 31 and 36 marked with

5 notches on the N and 1 notch on  
the S edge, from which

A Pinon 6 ins dia brs S  $12^{\circ}15'$  W  
29 lks dist marked

T 28 N R 3 E S 36 B. T.

A Pinon 10 ins dia brs S  $22^{\circ}$  E

31 lks dist marked

T 28 N R 4 E S 31 B. T.

Next Boundary T 28 N R 4 E Cont'd  
chains

A Pinon 8 ins dia br N 68° 45' W  
25 lks dist marked

T 28 N R 3 E S 25 B. T.

A Pinon 10 ins dia br N 11° E  
30 lks dist marked

T 28 N R 4 E. S 30 B. T.

Soil 4<sup>th</sup> Rate

Formation Volcanic Lime  
Character Mountainous

83.13 chs. Heavy Timber - Loose Brush

83.13 chs Mountainous in character.

"

A bet Secs 31 and 34

Loose Cedar and Pinon.

Level

3.00 Descend gradually

5.00 Cross draw or Nly Arc and rapidly

7.00 Level

12.00 Descend gradually

14.00 Descend rapidly into Moquin draw

West Boundary T. 28 N. R. 4 E. Cont'd  
chains

- 15.00 Open ground
- 17.50 Crossroad cr E<sup>ly</sup> and W<sup>ly</sup> and  
Crosswash cr W<sup>ly</sup>
- 18.50 Ascend abruptly
- 20.00 Ascend gently and enter  
dense Cedar and Pinon.
- 29.00 Descend gradually
- 33.00 Open draw cr W<sup>ly</sup>
- 35.00 Ascend gently and enter dense  
Cedar and Pinon.
- 40.00 Set a lunette 16 X 12 X 5 ins  
8 ins in ground for  $\frac{1}{4}$  Sec Cor  
bet Sec 31 and 36 marked  
 $\frac{1}{4}$  S. on N face, from which  
a Pinon 7 ins dia br S  $42^{\circ}30'$   
N 138 lks dist marked  
 $\frac{1}{4}$  S 36 B.T.  
A Pinon 8 ins dia br N  $44^{\circ}45'$   
E 92 lks dist marked  $\frac{1}{4}$  S. 31  
B.T.



West Boundary T. 28 N. R. 4 E. Cont'd  
chains

- Ascend gradually  
 49.00 Descend gently  
 55.00 Ascend gently  
 70.00 Ascend gently - Rocky  
 74.75 Level - Rocky  
 80.00 Set a limestone  $20 \times 12 \times 10$  ins  
 15 ins in ground for Cor of Tps  
 27 and 28 N R. 3 and 4 E,  
 marked with 6 notches on each  
 edge; from which  
 A Pin 10 ins dia bore N  $40^\circ$  E  
 28 lks dist marked  
 T 28 N R 4 E S 31 B. T.  
 A Pin 12 ins dia bore N  $42^\circ 45'$   
 N-106 lks dist marked  
 T 28 N R 3 E S 36 B. T.  
 A Pin 8 ins dia bore S  $71^\circ 15'$  W  
 68 lks dist marked  
 T 27 N R 3 E S 1 B. T.  
 A Pin 8 ins dia bore S  $37^\circ 45'$  E

West Boundary T. 28 N. R. 4 E. Cont'd  
chains

60 chs dirt marked

T 27 N R 4 E S 6 B. T.

Soil 4<sup>th</sup> Rate

Formation Volcanic Lime

Character Mountainous

7 chs open ground

77.92 chs Heavy Timber-Dense Brush

84.92 chs Mountainous in Character

### General Description

The grass is fair in the open ground and poor in the dense cedar and piñon.

The elevation is 7000 to 8000 ft Volcanic lime has flooded over the ground and when cool broken into rough and jagged rocks

There is but little soil except in the low grounds and washes and it is volcanic ash and

Great Boundary T 28 N R 4 E Corridors  
chains.

decayed vegetation, with rain  
it would be good in some  
portions

Boundaries of T. 28 N. R. 4 E,  
Departures and Closing Errors -

Line designated	True bearing	Distances	Side's Departures
7 <sup>th</sup> Standard Parallel N.	North	477.92	N. S. -E. W.
E. ldy. T. 28 N. R. 4 E,	North	480.00	477.92
N. ldy. T. 28 N. R. 4 E,	South	480.00	480.00
S. ldy. T. 28 N. R. 4 E,	N 89° 58' E	476.90	476.90
Courseway			0.52
Totals		480.29	478.48
Error in Lat.		480.00	476.90
			0.29 Error in dep. - 1.52

Sewing Machine  
W. S. J. J. J.



Next Boundary 1 27 N R H E.

From the cor to Tps 27 and 28 N  
Ra 3 and 4 E

I run

S bet Secs 1 and 6  
Lance Cedar and Pine

Descend gradually - Rocky

1.50 Descend rapidly - Rocky

4.50 Cross draw or W<sup>ly</sup> and  
around gradually along rocky  
W<sup>ly</sup> brake

23.00 Descend gradually - Rocky

30.50 Cross trail bet N<sup>ly</sup> and S<sup>ly</sup>

31.00 Cross wash or N<sup>ly</sup> and  
ascend rapidly

39.00 Descend gradually

40.00 Set a limestone 24 X 10 X 10 ins  
18 ins in ground for 1/4 Sec cor  
bet Secs 1 and 6 marked  
1/4 S on N face, from which  
a Pin 8 ins dia bet N 42° W

Next Boundary 1 27 N R 4 E Cont'd  
chains

125 lks dist marked  $\frac{1}{4}$  S 1 P. 1.

No other trees within limit  
and descend gradually to  
open draw cr N 4

41.00 Ascend draw

45.00 Leave draw - ascend rapidly  
and enter dense cedar and Pinon,

53.00 Descend gradually

57.00 Cross draw cr N 4 - ascend  
rapidly

61.00 Nearly level

80.00 Set a limestone 18 X 14 X 12 in.

12 ins in ground for Cor of Sec

1, 6, 7 and 12 marked with  
5 notches on S and 1 notch on

N. Edge, from which

A Pinon 7 ins dia br N  $66^{\circ}45'$

N. 70 lks dist marked

T 27 N R 3 E S 1 P. 1.

A Pinon 8 ins dia br S.  $28^{\circ}15'$

West Boundary T 27 N R 4 E. Cont'd

N. 93 lks dist marked

T 27 N. R 3 E. S. 12 B. T.

A Pinon 9 ins dia br N 6° E 72

lks dist marked

T 27 N. R. 4 E. S. 7 B. T.

A Pinon 12 ins dia br N 76° 45'

E 119 lks dist marked

T. 27 N. R 4 E. S. 6 B. T.

Soil 4<sup>th</sup> Rate

Formation Volcanic Tuff

Character Mountainous

5 che open ground

79.79 che Heavy timber - dense brush

84.79 che Mountainous in character.

Sept 22<sup>d</sup> " "

My instructions did not au-  
thorize me to run an exterior  
boundary to the S. of this  
Tp. Lewis Wolfey  
W. T. D. by Surveyor



North Boundary T 29 N R 4 E  
chains

Oct 3 at 7 a.m. l.m.t. I set off  
 $35^{\circ}54'36.5''$  N on lat arc and  $3^{\circ}52'$  S on

decl arc and determined the true  
 Meridian with the solar at the Cor  
 of Tps 29 and 30 N. R 4 and 5 E  
 Thence I run

It on a random line along the N  
 boundary of Tps 29 N R 4 E setting  
 temporary  $\frac{1}{4}$  Sec and Sec Corn at  
 intervals of 40 chs and at 479.90  
 chs intersect the N bdy 20 chs S  
 of Cor of Tps 29 and 30 N R 3 and  
 4 E which is a limestone  $24 \times 12 \times 10$   
 ins on top of a lime ledge marked  
 with 6 notches on each edge, from  
 which

A Pine 18 ins dia b'w N  $66^{\circ}10'$  E  
 36 chs dist marked

T. 30 N, R 4 E. S 31 B. T.

A Pine 14 ins dia b'w S  $74^{\circ}50'$  E

North Boundary T 29 N R 4 E Cont'd  
chains

54 lks dist marked

T. 29 N. R. 4 E. S 6 B. T.

A Pine 20 ins dia tree S  $53^{\circ}05'$  W

78 lks dist marked

T. 29 N. R. 3 E. S 1 B. T.

A Pine 18 ins dia tree N.  $86^{\circ}30'$  W

73 lks dist marked

T 30 N R 3 E. S 36 B. T.

The falling answers to a correlation

of  $0^{\circ}52'$  as the nearest minute to

$3\frac{1}{3}$  lks falling per mile, therefore

I run

S  $89^{\circ}58'$  E bet Dec 6 and 31

Descend abruptly - Rocky

Heavy Pines

3.50 Cross draw cr S W by and

ascend rapidly - Rocky

9.00 Ascend gradually

39.90 Set a limestone  $18 \times 14 \times 5$  ins 12 ins

in ground for  $\frac{1}{4}$  Sec Cor bet Dec 6 and 31

North Boundary T 29 N R 4 E Cont'd  
chains

- marked  $\frac{1}{4}$  S on N face. from which  
 A Pine 22 ins dia brs N  $66^{\circ}15'$  E  
 36 lbs dia marked  $\frac{1}{4}$  S. 31 B.T.
- A Pine 24 ins dia brs S  $15^{\circ}45'$  W.  
 60 lbs dia marked  $\frac{1}{4}$  S 6 B.T.
- Ascend gently - Rocky
- 66.30 Cross draw cr S. W. ly  
 Ascend gently over broken ground  
 covered with dense oak brush
- 72.00 Descend rapidly - Rocky
- 77.50 In a draw cr S W ly
- 79.90 Set a limestone  $16 \times 10 \times 5$  ins 10 ins  
 in ground for Cor Sec. 5, 6, 31<sup>29</sup> 32,  
 marked with 1 notch on W and 5  
 notches on E. edges from which  
 A Pine 22 ins dia brs N  $67^{\circ}15'$  E  
 57 lbs dia marked  
 T 30 N R 4 E S 32 B.T.
- A Pine 20 ins dia brs N  $48^{\circ}15'$  W  
 54 lbs dia marked 1



North Boundary 129 N. R 4 E Cont'd  
chains

T 30 N R 4 E S 31 B.T.

A Pine 18 in dia br S  $42^{\circ}30'$  E  
64 lbs dia<sup>2</sup> marked

T 29 N R 4 E S 35 B.T.

A Pine 24 in dia br S  $49^{\circ}$  W  
55 lbs dia<sup>2</sup> marked

T 29 N. R 4 E. S 6 B.T.

Soil H<sup>B</sup> Rate

Formation Volcanic Lime

Character Mountainous

81.18 lbs Heavy Timber<sup>and</sup> dense brush

81.18 Mountainous in character

S 89°58' E bet Secs 5 and 32

In draw cr S W ly - Heavy Pines and  
dense Oak brush  
Ascend gently

1.00 Ascend rapidly

10.50 Ascend gradually

15.00 Descend gradually

25.00 Cross draw cr S W ly and ascend

North Boundary T 29 N R 4 E. Cont'd  
chains

gently  
40.09 Set a limestone  $16 \times 8 \times 8$  ins 10 ins  
in ground for  $\frac{1}{4}$  Sec bet Sec 5 and  
32, marked  $\frac{1}{4}$  S on N face, from which  
A Pine 30 ins dia br N  $37^{\circ}30'$  E  
16 the dist marked  $\frac{1}{4}$  S 5 B.T.  
A Pine 20 ins dia br N  $66^{\circ}30'$  W  
39 the dist marked  $\frac{1}{4}$  S 32 B.T.

Acacia fruitly

65.00 Level

80.00 Set a limestone  $20 \times 14 \times 6$  ins 15 ins  
in ground for Cor of Secs 4, 5, 32, 33  
marked with 2 notches on N and  
4 notches on E edge, from which  
A Pine 6 ins dia br N  $25^{\circ}15'$  E  
193 the dist marked  
T 30 N. R 4 E. S 33 B.T.  
An Oak 10 ins dia br N  $12^{\circ}45'$  W  
45 the dist marked  
T 30 N R 4 E S 32 B.T.

North Boundary T 29 N R 4 E Cont'd  
Chains

A Pine 7 ins dia tree S 31° 45' E  
128 lks dist marked

T 29 N R 4 E S 4. 03. 1.

A Pine 9 ins dia tree S 87° W  
135 lks dist marked

T 29 N R 4 E. S 5. 03. 1.

Soil 4<sup>th</sup> Rate

Formation Volcanic Line

Character Mountainous

85.56 lbs Heavy Timber and dense brush

85.56 lbs Mountainous in character.

————— " —————  
S 89° 58' E bet Sec 4 and 33  
Level —————

Heavy Pine and dense Oak brush

26.00 Descend gradually

33.35 Cross Automobile road for Nly and Sly  
In a draw or Sly and ascend  
gradually

40.00 Set a line stone 30x8x8 ins



North Boundary T 29 N R 4 E Cont'd  
chains

- 23 ins in ground for  $\frac{1}{4}$  Sec Cor  
bet Secs 4 and 33 marked  
 $\frac{1}{4}$  S on N face, from which  
A Pine 32 ins dia brs N 46° W  
26 lke dist marked  $\frac{1}{4}$  S 33 R. P.  
A Pine 10 ins dia brs S 51° 45' W  
70 lke dist marked  $\frac{1}{4}$  S 4 R. P.  
and over rolling ground
- 44.00 Descend rapidly
- 46.50 Cross draw cr S by and ascend  
gradually
- 53.00 Ascend gently
- 62.00 Descend gently
- 67.00 Cross draw cr S by - ascend gradually
- 80 00 Set a limstone 14 X 12 X 8 ins  
9 ins in ground for Cor Secs 3, 4, 33  
and 34 marked with 3 notches  
on the W and E edges, from which  
A Pine 22 ins dia brs S 53° 30' W  
90 lke dist marked

North Boundary T 29 N R 4 E Cont'd  
chains

T. 29 N R 4 E S 4 B. 1.

A Pine 6 ins dia tree N 43° 45' E  
53 lbs dia marked

T 29 N R 4 E S 3 B. 1.

A Pine 8 ins dia tree N 43° 15' E  
10 lbs dia marked

T 30 N R 4 E S 34 B. 1.

A Pine 8 ins dia tree N 63° 45' N  
19 lbs dia marked

T 30 N R 4 E S 33 B. 1.

Soil 4<sup>th</sup> Rate

Formation Volcanic Lime

Character Mountainous

82.68 chs Heavy Timber - Dense Brush

82.68 chs Mountainous Character

~~~~~ " ~~~~~

S 89° 58' E. bet Secs 3 and 34

Heavy Pines - Dense Oak Brush

Ascend gently

28.00 Ascend Rapidly

North Boundary 129 N R 4 E Cont'd  
chains

30.00 Top of point br N<sup>ly</sup> and S<sup>ly</sup>  
Descend rapidly - Rocky

32.50 Cross draw cr S W<sup>ly</sup> and  
ascend rapidly

36.00 Ascend gently

40.00 Set a limestone 20 X 12 X 6 ins  
15 ins in ground for  $\frac{1}{4}$  Sec Cor

bet Secs 3 and 34 marked  
 $\frac{1}{4}$  S on N face, from which  
a Pine 8 ins dia br N 7° E

103 lka dist marked  $\frac{1}{4}$  S 34 R. 1.

a Pine 22 ins dia br S 28° W

43 lka dist marked  $\frac{1}{4}$  S 3 R. 1.

Level

46.00 Cross road br NE and S W<sup>ly</sup>  
Rolling

60.00 Descend rapidly - Rocky

63.00 Cross wash cr S<sup>ly</sup> and  
ascend rapidly - Rocky

67.00 Ascend gradually - Rocky



North Boundary T 29 N R 4 E Cont'd

Chains

7000 across gently

8000 Set a limestone 16x10x5 ins  
10 ins in ground for Cor of Secs  
2, 3, 34 and 35, marked with

4 notches on N and 2 notches  
on E edges, from which

A Pine 22 ins dia br N 45° W  
34 lbs dia marked

T 30 N R 4 E S 34 B.T.

A Pine 10 ins dia br S 32° 15' W  
90 lbs dia marked

T 29 N R 4 E S 3 B.T.

A Pine 30 ins dia br N 25° E  
112 lbs dia marked

T 30 N R 4 E S 35 B.T.

A Pine 22 ins dia br S 83° 15' E  
114 lbs dia marked -

T 29 N R 4 E S 2 B.T.

Soil 4<sup>th</sup> Rate

Formation Volcanic Lime

North Boundary 129 N R 4 E. Cont'd  
chains

Character mountainous

84.96 chs Heavy Timber - Dense Brush

84.96 chs Mountainous in Character

S 89° 58' E bet Sec 2 and 35  
Heavy Pines - Dense Oak Brush  
Ascend gently

6.00 Level

10.20 Cross Grand Cañon and Flagstaff  
Stage Road bet N<sup>ly</sup> and S<sup>ly</sup>

31.00 Descend gradually

34.00 Level

40.00 Set a limestone 16 X 12 X 4 ins

10 ins in ground for  $\frac{1}{4}$  Sec Cor

bet Sec 2 and 35 marked

$\frac{1}{4}$  S on N face, from which

a Pine 22 ins dia bet N 52° 30' W

78 like dit marked  $\frac{1}{4}$  S 35° D. I.

a Pine 22 ins dia bet S 57° E

82 like dit marked  $\frac{1}{4}$  S 2° D. I.

North Boundary T29R4E Cont'd  
chains

43.00 Arced gently

73.00 Level - Rocky

80.00 Set a sandstone 20X14X5 ins

15 ins in ground for cor of Secs

1, 2, 35 ~~and~~ 36. marked with

5 notches on N and 1 notch on

E edge, from which

A Pine 18 ins dia br N 15° W

59 lbs dia marked

T30N R4E S 35 B.T.

A Pine 20 ins dia br N 62° 30' E

72 lbs dia marked

T30N R4E S 36 B.T.

A Pine 20 ins dia br S 59° E

87 lbs dia marked

T29N R4E S 1 B.T.

A Pine 18 ins dia br S 40° W

136 lbs dia marked

T29N R4E S 2 B.T.

Soil  $4\frac{1}{2}$  Rati



North Boundary T 29 N R 4 E Cont'd  
chains

Formation Volcanic Lime  
Character Mountainous

85.14 chs. Heavy timber-dense brush

85.14 chs. Mountainous in character.

S 89°58' E bet Sec 1 and 26.

Heavy Pine-dense Oak Brush

Level-Rocky

12.25 Crossroad from Rec Horse Tank to  
Grand Cañon br. N<sup>ly</sup> and S<sup>ly</sup>

and ascend gently

20.00 Level-Rocky

22.00 Descend gradually along N<sup>ly</sup>  
slope-the rim of Grand Cañon  
plainly in view about 3 miles  
distant.

31.00 Ascend gently

37.00 Top of high ridge br NE<sup>ly</sup> & S<sup>ly</sup>  
and descend gradually

40.00 Set a limestone 20 X 14 X 14 ins

North Boundary T 29 N R 4 E Cont'd  
chains

15' ins in ground for  $\frac{1}{4}$  Sec Cor but  
Sec 1 and 36 marked  $\frac{1}{4}$  S on N  
face, from which

A Pine 14 ins dia bore N  $67^{\circ}15'$  W  
67 lks dist marked  $\frac{1}{4}$  S 36 B.T.

A Pine 20 ins dia bore S  $23^{\circ}$  W  
51 lks dist marked  $\frac{1}{4}$  S 1 B.T.

Descend abruptly - Rocky

48.60 Cross wash cr Nly

Ascend rapidly

54.00 Level-ridge running N to Co-  
conino Basin

57.00 Descend abruptly

67.75 Cross wash cr Nly and ascend  
rapidly

78.00 Enter dense Cedar and Piñon

80.00 The Cor of Tps 29 and 30 N. R 4  
and 6 E.

Soil 4<sup>th</sup> Rate

Formation Volcanic Lime

North Boundary 129 N R 4 E Cont'd  
chains

Character Mountainous

81.18 chs Heavy Timber - Dense Brush

81.18 chs Mountainous in Character

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General Description

Grass fair in the Pines but poor on the eastern prairie

The elevation at highest part about 9000 ft being several hundred feet higher than the rim of the Grand Cañon.

Volcanic lime and sandstone mixed have flooded over the ground and when cool broken into rough and jagged rocks.

There is but little soil.



Boundaries T. 29 N. R. 4 E.

Satitudes, departures and Closing Errors -

| Lines designated                       | True Bearing | Distance | Satitudes |        | Departures |               |
|----------------------------------------|--------------|----------|-----------|--------|------------|---------------|
|                                        |              |          | N.        | S.     | E.         | W.            |
| 7 <sup>th</sup> Standard Parallel (N.) | North -      | 480.00   |           |        |            | 480.00        |
| E. bdy. T. 29 N. R. 4 E.               | North        | 480.00   | 480.00    |        |            |               |
| N. bdy. T. 29 N. R. 4 E.               | Sacette      | 480.00   |           | 480.00 |            |               |
| N. bdy. T. 29 N. R. 4 E                | S 89° 58' E  | 479.90   |           | 0.20   | 479.90     |               |
| Convergence                            |              |          |           |        | 0.52       |               |
| Total                                  |              |          | 480.20    |        | 480.42     | 480.00        |
| Error in Lat.                          |              |          | 480.00    |        | 480.00     |               |
|                                        |              |          | 0.20      |        | 0.42       | Error in dep. |

Surveyed by  
W. J. Sawyer  
Sept. 1890

For final catho see Book "J"  
Subs. T. 27, N., R. 4, E.

## A P P R O V A L.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

Tucson, Arizona.

March 31, 1901.

The foregoing field notes of the survey of West & South Bdy's 28 N R 4 E,  
East W. Bdy 27 N R 4 E, and N Bdy of  
T. 29 N. R. 4 E  
 executed by Lewis Wolfley, D.S.  
 under his contract No. 72, dated June  
13, 1900, having been critically  
 examined, and the necessary corrections  
 and explanations made, the said field  
 notes, and the surveys they describe,  
 are hereby approved.

*George Christ*

U. S. Surveyor General for Arizona