

"D" (R)

55

Subdivisions  
of

T. 20, N., R. 5, E.

by

Lewis Wolfley

No. 561

BOOK 561

561

4-671

FIELD NOTES

GENERAL LAND OFFICE.

*Indexed Book 562*

56

Township 28N R. 5E

6	5	494	643	2	1			
		87	65					
7	114	8	85	9	63	10	11	12
114		12		93	61			
18	110	17	81	16	59	15	14	13
108		104		79	57			
19	104	20	77	21	57	22	23	24
102		100		75				
30	98	29	73	28	27	26	25	
96		94		71				
31	92	32	68	33	34	35	36	

Subdivisions T. 28 N., R. 5 E.

chs.

45.00 chs. Open park.

37.83 chs. Heavy timber - dense brush.

82.83 chs. Mountainous in character.

— " —  
 E on a random line bet. secs  
 15 and 22.

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

80.00 Intersect N & P. line 9 chs N  
 of cor. to secs. 14, 15, 22 and 23.

Thence I run

$N 84^{\circ} 56'$  St. on a true line bet.  
 secs. 15 and 22.

Level. Open park.

5.00 Cross Moggi road and trail  
 brs. E and N  $\frac{E}{N}$  and enter  
 dense cedar and juniper and  
 ascend gradually.

10.00 Level.

40.00 Set a juniper post 3 ft. long  
 3 in. sq. 24 in. in ground

Subdivisions T. 28, N., R. 5, E.  
cho

Go  $\frac{1}{4}$  sec. cor. bet. secs. 15  
 and 22, marked  $\frac{1}{4}$  P. 15 on  
 N face and P. 22 on S face,  
 from which.

A pinion 10 ins. in diam. Crs.  
 N  $45^{\circ}$  E. 45 lks. dist. marked  
 $\frac{1}{4}$  S. 10, B. T.

A pinion 10 ins. in diam. Crs.  
 S.  $50^{\circ} 45'$  W. 17 lks. dist. marked  
 $\frac{1}{4}$  P. 22, B. T.

60.00 Open park just north.

70.00 Descend gradually.

80.00 The cor. to secs. 15, 16, 21 and  
 22.

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

Formation volcanic lime.

Character mountainous.

5.00 Cho. open ground.

75.62 Cho. heavy timber - dense  
 brush.





66

Subdivisions T 28 N, R. 5 E.  
cho.

D. 36° E. 13 lks dist. marked  
1/4 P. 15, B. T. Marly level.  
80.00 Set a pinon post 3 ft. long  
4 ins. sq. 24 ins. in ground  
for cor. of secs. 9, 10, 15 and 16  
marked T. 28, N. P. 10, on N. E.  
R. 5, E. P. 15 on P. E.

P. 16 on P. N. and P. 9 on  
N. N. faces, with 4 grooves  
on P and 3 on E edges;  
from which a cedar 30 ins.  
in diam. Crs. N 27° 15' N. 12 lks.  
dist. marked, T. 28, N, R. 5, E.

P. 9, B. T. A pinon 9 ins. in diam  
Crs. S. 63° 45' N. 17 lks. dist.  
marked T. 28, N, R. 5, E. P. 16, B. T.

A pinon 6 ins. in diam. Crs.  
N 74° 45' E. 71 lks. dist. marked  
T. 28, N, R. 5, E. P. 10, B. T.

A pinon 12 ins. in diam. Crs.

Subdivisions T. 28 N., R. 5 E.  
Chs.

S.  $49^{\circ}30'$  E. 12 lks. dist. marked.

T. 28 N., R. 5 E. S. 15, B. T.

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

Formation volcanic lime.

Character mountainous

81.48 Chs. Heavy timber-dense brush.

81.48 Chs Mountainous in character.

S.  $89^{\circ}56'$  E. on a random line

bet. secs. 10 and 15.

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

80.00 Intersect Mand. S. line 14 lks.

Ref. cor. to secs. 10, 11, 14 and 15.

Thence I run

S.  $89^{\circ}58'$  W. on a true line

bet. secs. 10 and 15.

Descend gradually.

Dense cedars & juniper, scattering pines.

2.00 Descend rapidly - Rocky.

5.50 Cross wash course N of  $\frac{1}{2}$  Level.



- 9.00 Ascend gradually.
- 15.50 Cross road brs. N and S <sup>by</sup>.
- 20.00 Level.
- 25.00 Descend gradually.
- 29.00 Cross draw course, S <sup>by</sup> and ascend gradually.
- 35.00 Level - Leave scattering pines and continue dense cedar & pinon.
- 40.00 Set a limestone 16 x 10 x 7 ins.  $\frac{2}{3}$  in ground for  $\frac{1}{4}$  sec. cor. bet. secs. 10 and 15 marked  $\frac{1}{4}$  on N. face, from which a pinon 8 ins. in diam. brs. N  $53^{\circ}15'E$ . 43 lks. dist. marked  $\frac{1}{4}$  S. 10, B.T., a pinon 6 ins. in diam. brs. S.  $43^{\circ}St$ . 27 lks. dist. marked  $\frac{1}{4}$  S. 15, B.T. Level
- 53.00 Open park.
- 56.00 Dense cedar and pinon.
- 77.00 Nearly level.



80.00 The cor. of secs. 9, 10, 15 and 16.

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

Formation volcanic lime.  
Character Mountainous.

3.00 Chs. Open ground.

77.70 Chs. Heavy timber - dense brush.

80.70 Chs. Mountainous in character.

———— " —————

N<sup>o</sup> 02 St. bet. secs. 9 and 10. Nearly  
level - Dense cedar and juniper.

2.00 Ascend gradually.

20.00 Level.

40.00 Set a limestone 30 x 20 x 12 ins.  
 $\frac{3}{4}$  in ground for  $\frac{1}{4}$  sec. cor. bet.  
secs. 9 and 10 marked  $\frac{1}{4}$  P. on  
St. face; from which

A juniper 8 ins. in diam. Crs.

N 48° 15' E. 37 lbs. dist. marked

$\frac{1}{4}$  P. 10, B.T. A cedar 8 ins. in

diam. Crs. N 61° St. 30 lbs. dist.

marked  $\frac{1}{4}$  p. 9, B.T.

Ascend gradually.

62.00 Level.

80.00 Set a pine post 2 ft. long 4 ins. sq. 24 ins. in ground for cor. of secs. 3, 4, 9 and 10, marked.

T. 28, N., P. 9, on N. E.

R. 5, E., P. 10, on S. E.

P. 9 on S. St. and P. 4 on N. W. faces with 5 notches on P and 3 notches on E edges from which.

A pinion 7 ins. in diam. Crs. N 43° 30' E 5 lks. dist. marked.

T. 28, N., R. 5, E., P. 3, B.T.

A pinion 10 ins. in diam. Crs. P. 41° E. 42 lks. dist. marked.

T. 28, N., R. 5, E., P. 10, B.T.

A pinion 12 ins. in diam. Crs. N 28° 30' W. 26 lks. dist. marked.

T. 28, N., R. 5, E., P. 4, B.T.

a pinon 10 ins. in diam. Trs.  $S 65^{\circ} 30'$  W. 55 lks.  
 dist. marked T. 28, N., P. 5, E. S. 9. B. 7.

Set 3 - rate.

Formation volcanic lime.

Character mountainous.

81.95 Chs. Heavy timber - dense brush.

81.95 Chs. Mountainous in character.

————— " —————

$N 89^{\circ} 58'$  E on a random line.

bet. secs. 3 and 10.

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

80.00 Intersect N and P line 5 lks. N  
 of cor. to secs. 2, 3, 10 and 11.

Thence Run

West on a true line bet. secs.

3 and 10. Level - Heavy pines.

1.00 Enter open draw course  $S \frac{34}{4}$ .

17.10 Cross road bet. N and  $P \frac{34}{4}$ .

22.00 Dense cedar, pinon and pine. Rocky.

40.00 Set a line stone  $24 \times 12 \times 10$  ins.  $\frac{3}{4}$   
 in ground for  $\frac{1}{4}$  sec. cor. bet.  
 secs. 3 and 10, marked  $\frac{1}{4}$  P. on N.

face; from which a cedar 12 ins.  
in diam. br. S.  $16^{\circ}45'$  N. 50 lbs.  
dist. marked  $\frac{1}{4}$  S. 10, B.T.

A pine 8 ins in diam. br.  $73^{\circ}$   
 $30'$  E. 59 lbs. dist. marked  $\frac{1}{4}$  S. 3, B.T.  
Descend gradually - Rocky.

- 48.00 Enter open draw, course,  $2\frac{1}{4}$  ly.  
52.50 Heavy pine timber just North.  
65.00 Enter dense cedar, pinon and pine.  
80.00 The cor. to secs. 3, 4, 9 and 10.

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

Formation volcanic line.

Character mountainous

25.50 Chs. open ground.

55.59 Chs. heavy timber - dense brush.

81.09 Chs. Mountainous in character.

————— " —————

$N0^{\circ}02'$  N. on a true line bet.  
secs. 3 and 4.

8.90 Dense cedar and pinon level.



- 16.90 Dense cedar, junon, scattering  
pine and ascend gradually.
- 27.90 Nearly level along N. slope.
- 40.00 Set a limestone  $16 \times 10 \times 6$  ins  $\frac{2}{3}$   
in ground for  $\frac{1}{4}$  sec. cor. bet. secs.  
3 and 4, marked  $\frac{1}{4}$  S on N. face,  
from which a pine 15 ins. in  
diam. Crs. S.  $49^{\circ} 15'$  E. 23 lbs dist.  
marked  $\frac{1}{4}$  S. 3, B. T. A pine 20  
ins. in diam. Crs. N  $80^{\circ} 45'$  W. 19  
lbs. dist. marked  $\frac{1}{4}$  S. 4, B. T.  
Nearly level along N. slope.
- 79.90 Intersect  $7^{\text{th}}$  Standard Parallel  
N, 10.35 chs. W. of. P. C. to secs. 33<sup>3</sup>/<sub>4</sub>  
34. T. 29 N., R. 5. E., which is a  
stone firmly set in the ground  
and witnessed as described  
by the Surveyor General.  
At 10.35 chs. west of The Stan-  
dard cor. to secs. 33 and 34.

set a limestone  $18 \times 14 \times 5$  ins.  $\frac{2}{3}$   
 in the ground for closing cor.  
 to secs. 3 and 4 marked C. C.  
 on S. with 3 grooves on E  
 and N faces, from which  
 a pine 22 ins. in diam. brs. S.  
 $32^{\circ} 15' N. 169$  lks. dist. marked  
 T. 28, N., R. 5, E., S. 4, B. T.

A pine 8 ins. in diam brs.  
 S.  $53^{\circ} 15' E. 53$  lks. dist. marked  
 T. 28, N., R. 5, E., S. 3, B. T.

Decl  $4^{\text{th}}$  rate.

Formation volcanic lime.

Character mountainous.

82.54 Chs. Heavy timber - dense brush.

82.54 Chs. Mountainous in character.

10.40 Chs. Connecting lines.

Sept. 14<sup>th</sup> at 12 ~~N.~~ N. C. m. t. I  
 lay off  $3^{\circ} 23' N.$  on decl. arc.

and find the lat. to be  $35^{\circ} 48' 30.7''$  N. at 1 L. h. m. t. with lat. at  $35^{\circ} 48' 30.7''$  N., I lay off  $3^{\circ} 22'$  N. on decl. arc and determine the true meridian with the solar at the cor. of secs. 4, 5, 32 and 33. T. 27 and 28, N. R. 5, E. Thence I run

$N 0^{\circ} 03' 00''$  St. bet. secs. 32 and 33.

Descend gradually.

Dense cedar and fir.

10.00 Ascend gradually.

40.00 Set a pin on post 3 ft. long. 3 ins. sq. 24 ins. in ground for  $\frac{1}{4}$  sec. cor. bet. secs. 32 and 33 marked  $\frac{1}{4}$  p. 32 on St. face and p. 33 on E. face, from which a pinon 10 ins. in diam. Crs.  $N 86^{\circ}$  St. 90 lks. dist. marked  $\frac{1}{4}$  p. 32, B.T., a pinon 7 ins. in diam.



Cor.  $\beta$ .  $30^{\circ}30'$  E. 23 lks. dist. marked  $\frac{1}{4}$   $\beta$ . 33, B. T.

Nearly level.

80.00 Set a limestone  $22 \times 10 \times 8$  ins.  $\frac{3}{4}$  in ground for cor. of secs. 28, 29, 32 and 35, marked with 1 notch on  $\beta$ . and 4 notches on E. edges, from which a pinon 8 ins. in diam. Cor.  $\beta$ .  $65^{\circ}30'$  N. 109 lks. dist. marked T. 28, N. R. 5, E.,  $\beta$ . 32, B. T., a pinon 18 ins. in diam. Cor.  $\beta$ .  $37^{\circ}$  E. 57 lks. dist. marked T. 28, N. R. 5, E.  $\beta$ . 33, B. T. a pinon 7 ins. in diam. marked T. 28, N. R. 5, E.,  $\beta$ . 28, B. T. A pinon 8 ins. in diam. Cor. N.  $74^{\circ}30'$  N. 105 lks. dist. marked T. 28, N. R. 5, E.  $\beta$ . 29, B. T. Soil rocky and worth less.

84.49 Chs. Heavy timber - dense brush.

84.49 Chs. Maintenance in character.



$P. 89^{\circ} 59' E$  on a random line  
bet. secs. 28 and 33.

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

80.20 Intersect N and S. line 6 lks.

N of cor to secs. 27, 28, 33 and 34.

Thence from

$N 89^{\circ} 56' W$  on a true line bet.  
secs. 28 and 33.

Ascend gradually - Rocky.

Open ground.

2.00 Enter dense cedar and juniper,  
fir swept standing and fallen  
and scattering live cedar and juniper.

6.00 Level.

17.00 Enter dense live cedar and juniper.

22.00 Descend gradually - Rocky.

23.00 Open park - scattering cedar and juniper.

25.70 Cross old stage road Flagstaff to  
Grand Canon and ascend  
gradually.

40.10 Set a pinion post Eft. long  
 3 ins. sq. 24 ins. in ground for  
 $\frac{1}{4}$  sec. cor. bet. secs. 28 and 33  
 marked  $\frac{1}{4}$  p. 28 on N. face and  
 p. 33 on S. face from which  
 A pinion 8 ins. in diam. brs.  
 S.  $1^{\circ}15'$  N. 185 lks. dist. marked  
 $\frac{1}{4}$  p. 33, B.T., A pinion 10 ins.  
 in diam. brs. N  $79^{\circ}30'$  N. 320 lks.  
 dist. marked  $\frac{1}{4}$  p. 28, B.T.  
 Ascend gradually.

42.00 Dense cedar and pinion.

45.00 Open park just North.

74.00 Level - Rocky.

80.20 The cor. of secs. 28, 29, 32<sup>nd</sup> and 33  
 Soil 4<sup>th</sup> rate.

Formation volcanic lime.

Character mountainous.

21.00 Chs. open ground.

64.25 Chs. Heavy timber,

Dense brush.

85.25 Chs. Maintainence in character.

No 03 St. bet. secs. 28 and 29.

Level - Rocky.

Dense cedar and juniper.

- 57.00 Descend gradually.
- 10.00 Cross draw course  $\rho$  and  
over rolling ground
- 17.00 Descend gradually.
- 34.00 Enter open park.
- 40.00 Set a pin on post 3 ft. long, 3 ins.  
sq. with marked stone 24 ins.  
in ground for  $\frac{1}{4}$  sec. cor. bet.  
secs. 28 and 29, marked  $\frac{1}{4} \rho$ .  
29 on N face and  $\rho$  28 on E.  
face; Dug pits 18 x 18 x 12 ins.  
N and S. of post 3 ft. dist. and  
raised a mound of earth  $3\frac{1}{2}$   
ft. base  $1\frac{1}{2}$  ft. high O of cor.

- 43.00 Cross old stage road Flagstaff  
to Grand Canyon and ascend  
gradually.
- 44.00 Enter dense cedar and juniper.
- 51.00 Level.
- 57.00 Descend gradually.
- 65.00 Enter open park.
- 73.00 Cross Moqui road and trail  
brs. E. and St. <sup>by</sup>.
- 80.00 Set a juniper post 3 ft long, 4  
ins. sq. 24 ins. in ground for  
cor. to secs. 20, 21, 28 and 29.  
marked T. 28, N., S. 21 on N. E.  
R. 5; E, S. 28 on S. E. S. 29 on  
S. St. and S. 20 on N. St. Faces  
with 2 notches on S. and 4  
on E. edges; from which a  
juniper 8 ins. in diam. brs.  
N 9° W. 317. lks. dist. marked  
T. 28, N., R. 5, E, S. 20, B. T.



A pinon & mis. in diam. tree.  
 N.  $14^{\circ}15'$  E. 208 lks. dist. marked  
 T. 28, N. R. 5, E. S. 21, B. T.  
 No other trees within limits.  
 Soil 4<sup>th</sup> rate.  
 Formation volcanic line.  
 Character mountainous.  
 25.00 Chs. open ground.  
 60.25 Chs. heavy timber, dense brush.  
 85.25 Chs. Mountainous in character.

————— " —————  
 S.  $89^{\circ}56'$  E. on a random line  
 bet. secs. 21 and 28.

40.00 Set a temporary  $\frac{1}{4}$  sec. cor.  
 80.00 Intersect N and S. line 9 lks.  
 S. of cor. to secs. 21, 22, 27 and  
 28. Thence I run  
 on a true line  
 West, bet. secs. 21 and 28.  
 Open ground - nearly level.  
 16.00 Enter dense cedar and pinon

- and ascend rapidly.
- 17.00 Ascend gradually.
- 18.00 Top of low ridge bet.  $N^{\frac{1}{2}W}$  and  $N^{\frac{1}{2}E}$ .
- 27.00 Enter dense fir swept cedar and pines.
- 32.00 Enter open park.
- 40.00 Set a limestone  $17 \times 12 \times 6$  ins.  $\frac{2}{3}$  mi ground for  $\frac{1}{4}$  sec. cor. bet. secs. 21 and 28 marked  $\frac{1}{4}$  S. on N face, and dug pits  $18 \times 18 \times 12$  ins. E and W of stone 3 ft. dist. and raised a md. of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high N of cor.
- 77.75 Cross trail course  $E^{\frac{1}{2}N}$  and  $N^{\frac{1}{2}E}$ . Ascend gradually.
- 80.00 The cor. to secs. 20, 21, 28<sup>29</sup> and 29. Soil 3<sup>rd</sup> rate. Formation volcanic lime, character mammillous.

64.00 Chs. open ground.

16.00 Chs. Heavy timber, dense brush.

80.00 Chs. Mountainous in character.

————— " —————

N<sup>o</sup> 03' St. Sect. secs. 20 and 21.

Ascend gradually. Rocky -  
Open park.

2.00 Enter dense cedar and pinion.  
fir swept, standing <sup>and</sup> fallen  
Rocky.

8.00 Descend gradually.

20.00 Enter open park - scattering  
pines to north.

40.00 Set a pinion post 3 ft. long. 3 in.  
sq. 24 ins. in ground for  $\frac{1}{4}$  sec.  
cor. Sect. secs. 20 and 21, mark-  
ed  $\frac{1}{4}$  S. 20, on N. face and S.  
21 on E face; from which  
a pin on 10 ins. in diam. Cro. S.  
24° 15' E. 274 lks. dist. marked  $\frac{1}{4}$  S.

20, B.T.

No other trees in limits.

- 61.00 Enter dense cedar and piñon standing and fallen fir swept.
- 65.00 Dense live cedar piñon and pine.
- 70.00 Open park.
- 80.00 Set a piñon pest 3 ft. long, 4 ins. sq. with a marked stone in a md. of stone for cor. of secs. 16, 17, 20 and 21. marked T. 28, N., S. 16 on N. E. R. 5, E. S. 21 on S. E. S. 20 on S. St. and S. 17 on N. St. faces with 3 notches on S. and 4 on E. edges. Pits impracticable. Soil 4<sup>th</sup> rate. Formation volcanic lime. Character mountainous.
- 53.00 Chs. open ground.



29.74 Chs. Heavy timber, dense brush.

82.74 Chs. Mountainous in character.

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 Run a random line bet. secs.  
 16 and 21.

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

80.00 Intersect N and S. line 9 lks.

N of cor. to secs. 15, 16, 21 and 22.

Thence from

N  $89^{\circ}56'$  P. on a true line bet.  
 secs. 16 and 21.

Descend rapidly. Rocky.

Dense cedar and fir on.

10.00 Descend gradually.

16.20 Cross trail bet. N  $\frac{1}{4}$  and S  $\frac{1}{4}$ .

22.00 Cross draw course S  $\frac{1}{4}$  and level.

25.00 Ascend rapidly.

27.00 Descend gradually - Rocky.

34.00 Level.

40.00 Set a pin on post. 2 ft. long.

3 ins. sq. 24 ins. in ground  
 for  $\frac{1}{4}$  sec. cor. bet. secs. 16  
 and 21 marked  $\frac{1}{4}$  P. 16. on  
 N. face and P. 21 on S. face.  
 from which a pinion 8 ins.  
 in diam. brs. N  $12^{\circ} 45'$  Pt. 88  
 lks. dist. marked  $\frac{1}{4}$  P. 16, B.T.  
 A pinion 6 ins. in diam. brs.  
 P.  $69^{\circ} 45'$  E. 77 lks. dist.  
 marked  $\frac{1}{4}$  P. 21, B.T. Level.

52.00 Enter dense cedar and  
 pinion pine swept, <sup>standing</sup> and fallen.

74.00 Open park.

77.50 Descend rapidly.

80.00 The cor. to secs. 16, 17, 20 $\frac{3}{4}$  and 21.  
 Soil 4<sup>th</sup> rate.

Formation volcanic lime.

6.00 Chs. Open ground.

75.65 Chs. Heavy timber, dense brush.

81.65 Chs. Mountainous in character.

Sept. 15, 12  $\text{P.M. l.m.t.}$  Day off  
 $3^{\circ}00'N.$ , on decl. arc, and find  
 the lat. to be  $35^{\circ}46'46.1''N.$   
 at  $1 \text{ h. l.m.t.}$  with lat. at  $35^{\circ}$   
 $46'46.1''N.$ , and  $2^{\circ}59'N.$  on  
 decl. arc I determine the  
 true meridian with the  
 solar at the cor. to secs.  
 16, 17, 20 and 21.

Thence I run

$N0^{\circ}03'W.$  bet. secs. 16 and 17

Open park and ascend gradually.

40.00 Set a limestone  $16 \times 10 \times 7$  ins.

$\frac{2}{3}$  in ground for  $\frac{1}{4}$  sec. cor.

bet. secs. 16 and 17, marked

$\frac{1}{4}$  S. on N. face. Dig pits

$18 \times 18 \times 12$  ins. N and S. of  
 stone 3 ft. dist. and raised  
 a md. of earth  $3\frac{1}{2}$  ft. base

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

51.00 Enter dense cedar, pine and scattering firs.

60.00 Ascend gradually. Rocky.

80.00 Set a limestone  $18 \times 12 \times 5$  ins.  
 $\frac{2}{3}$  in ground for cor. of secs.  
 8, 9, 16 and 17, marked with  
 4 grooves on S and E. edges  
 from which.

A pinon 8 ins. in diam. Crs.  
 $P. 61^{\circ} N. 135$  lks. dist. marked  
 T. 28, N., R. 5, E. S. 17, B. T.

A pinon 8 ins. in diam. Crs. N.  
 $34^{\circ} 15' N. 129$  lks. dist. marked  
 T. 28, N., R. 5, E. S. 8, B. T.

A pinon 6 ins. in diam. Crs.  
 $N 24^{\circ} 30' E. 130$  lks. dist. mark-  
 ed T. 28, N., R. 5, E., S. 9, B. T.

A pine 20 ins. in diam. Crs. S.  
 $82^{\circ} 30' E. 127$  lks. dist. marked.  
 T. 28, N., R. 5, E., S. 16, B. T.



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

Formation volcanic lime.

Character mountainous.

51.00 Chs. Open ground.

84.21 Chs. Heavy timber-dense brush.

85.21 Chs. Mountainous in character

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$\rho 89^{\circ} 56' E$ . on a random  
line bet. secs. 9 and 16.

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

80.00 Intersect N and S. line 14 lks.

S. of cor. to secs. 9, 10, 15 and 16.

Thence I run.

$\rho 89^{\circ} 58' W$  on a true line  
bet. secs. 9 and 16.

Nearly level.

A dense cedar, juniper & pines.

10.00 Descend gradually - Rocky.

15.00 Cross draw course  $\rho 27^{\circ} 45'$   
and nearly level - Rocky.

- 31.00 Descend rapidly - Rocky.
- 38.00 Level - Rocky.
- 40.00 Set a limestone  $30 \times 10 \times 6$  ins.  
 $\frac{3}{4}$  in ground for  $\frac{1}{4}$  sec. cor. Set  
 secs. 9 and 16 marked  $\frac{1}{4}$   $\beta$  on  
 N. face from which a pine  
<sup>8' high in diam.</sup>  $69^{\circ} 30' E$  135 lbs. dist. marked  
<sup>2.5.9.13.17</sup>  
 a pine 10 ins. in diam.  $\beta$  S.  
 $76^{\circ} 45' E$ . 257 lbs. dist. marked  
 $\frac{1}{4}$   $\beta$ . 16, B.T. Cross draw course  
 $\beta$  <sup>ly</sup> and nearly level.
- 43.50 Ascend gradually - Rocky.
- 50.00 Ascend rapidly - Rocky.
- 52.00 Level - Rocky.
- 57.00 Descend rapidly - Rocky.
- 68.00 Cross draw  $\beta$  <sup>ly</sup> - Rocky. and  
 ascend gradually.
- 80.00 The cor. to secs. 8, 9, 16 and 17.  
 Soil 4<sup>th</sup> rate.  
 Formation volcanic lime.  
 Character mountainous.

83.92 Chs. Heavy Timber, dense brush.

83.92 Chs. Mountainous in character.

————— " —————

N 0° 03' Pt. bet. secs. 8 and 9.

Ascend gradually.

Dense cedar, juniper - Scattering pines.

25.00 Ascend gradually - Rocky.

40.00 Set a pin on post 3 ft. long, 3  
ins. sq. 24 ins. in ground for  
 $\frac{1}{4}$  sec. cor. bet. secs. 8 and 9  
marked  $\frac{1}{4}$  P. 8 on N. face and

P. 9 on E. face, from which  
a pin on 14 ins. in diam. Trs.

P. 70° 15' E. 11 lks. dist. marked

$\frac{1}{4}$  P. 9, B.T.,

A pin on 5 ins. in diam. Trs.

P. 61° N. 25 lks. dist. marked

$\frac{1}{4}$  P. 8, B.T. Ascend grad-  
ually.

45.00 Level and enter heavy pines.

65.00 Ascend gradually.

72.00 Log house Crs. N. 5° E. dist.

80.00 Set a pine post 3 ft. long, 4  
ins. sq. 24 ins. in ground for  
cor. to secs. 4, 5, 8 and 9. mark-  
ed T. 28, N., D. 4 on N. E.

R. 5 E. D. 9 on D. E.

D. 8 on D. N. and D. 5 on N. N.  
with 5 notches on D. and 4  
on E. edges, from which a  
pine 9 ins. in diam. Crs. D. 26°  
N. 17 lbs. dist. marked T. 28, N.,  
R. 5 E., D. 8, B. T.

A pine 15 ins. in diam. Crs.  
D. 32° 30' E. 62 lbs. dist. marked  
T. 28, N., R. 5 E., D. 9, B. T.

A pine 8 ins. in diam. Crs. N.  
17° 30' E. 112 lbs. dist. mark-  
ed T. 28, N., R. 5 E., D. 4, B. T.

A pine 10 ins. in diam. Crs.



N.  $50^{\circ}$  W. 94 lbs. dist. marked.  
 T. 28 N., R. 5 E. S. 5 B. T.  
 Same log Louse Crs. S.  $35^{\circ}$  30' W.  
 about 10 Chs. dist.

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

Formation volcanic lime.

Character mountainous.

83.21 Chs. Heavy timber - dense brush.

83.21 Chs. Mountainous in character.

————— " —————

$N 89^{\circ} 5' 8''$  E on a random line  
 bet. secs. 4 and 9.

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

80.00 Intersect N and S line 5 lbs.

N of cor. to secs. 3, 4, 9 and 10.

Thence I run

West on a true line bet. secs.  
 4 and 9.

Level - Rocky.

Dense cedar and fir.

- 11.00 Cross trail <sup>by</sup> ~~to~~ N. E. <sup>by</sup> and P. W. <sup>by</sup>  
and descend gradually. - Rocky.
- 40.00 Set a limestone 22x14x10 ins.  
 $\frac{3}{4}$  in ground for  $\frac{1}{4}$  sec. cor.  
bet. secs. 4 and 9 marked  $\frac{1}{4}$   
P on N face; from which  
a pinon 10 ins. in diam. <sup>by</sup> ~~to~~  
N  $110^{\circ} 45'$  W. 10 lbs. dist. marked  
 $\frac{1}{4}$  P. 4, B.T.
- A pinon 6 ins. in diam. <sup>by</sup> ~~to~~  
P.  $18^{\circ} 45'$  E. 42 lbs. dist. mark-  
ed  $\frac{1}{4}$  P. 9, B.T.
- Descend gradually. - Rocky.
- 42.00 Descend abruptly.
- 45.00 Descend gradually and  
enter open park.
- 49.00 Cross wash course P. W. <sup>by</sup>  
and enter heavy pines and  
ascend abruptly over lime  
ledges.

- 50.00 Level.
- 61.00 Descend gradually.
- 62.00 Descend rapidly - Rocky.
- 65.00 Descend gradually.
- 66.00 Cross, draw course southerly and ascend gradually.
- 75.00 Level
- 80.00 The cor. to secs. 4, 5, 8 and 9.  
 Rail 4 th rate.
- 4.00 Chs. open ground.
- 76.52 Chs. heavy timber - dense brush.
- 80.52 Chs. Mountainous in character.
- " "
- N0°03' St. on a true line bet.  
 secs. 4 and 5.
- 27.90 Leave heavy fines.
- 40.00 Set a limestone 17x10x7 ins.  $\frac{2}{3}$   
 in ground for  $\frac{1}{4}$  sec. cor. bet.  
 secs. 4 and 5 marked  $\frac{1}{4}$  on  
 St. face, from which.

A pine 9 ins. in diam. Crs. S  
 44° 30' N. 19 lks. dist. marked  
 $\frac{1}{4}$  S 5, B.T.

A pine 12 ins. in diam. Crs. S  
 83° 15' E. 30 lks. dist. marked  
 $\frac{1}{4}$  S 4, B.T.

Descend gradually - Rocky.

47.90 Descend gradually - Rocky.

67.90 Dense fir swept pinon, cedar  
 and pine. Dense live buck brush.

73.00 Cross road Crs. N. W. and S. E.  
 and nearly level - Rocky.

77.90 Cross wash course S to <sup>leg</sup> and  
 ascend gradually and enter  
 heavy pines, leave cedar and pinon.

79.90 Intersect 7<sup>th</sup> Standard Parallel  
 N. 10.45 Chs. N. of the S. C. to secs.  
 32 and 33 which is a stone  
 firmly set in the ground and  
 witnessed as described by the



Surveyor General.

At 10.45-Chs. St. of S. C. to secs.

32 and 33. Set a limestone 16 x  
14 x 7 ins.  $\frac{2}{3}$  in ground for  
closing cor. to secs. 4<sup>th</sup> & 5<sup>th</sup>, marked  
C. C. on S with 4 grooves on E.  
and 2 grooves on St. face from  
which a cedar 12 ins. in diam.

Cr. S 61° 30' E. 121 lks. dist. marked  
T. 28, N. R. 5, E. S. 4, B. T.

A pinion 12 ins. in diam. Cr. S.  
49° St. 191 lks. dist. marked  
T. 28, N. R. 5, E. S. 5, B. T.

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

Formation volcanic lime.

Character mountainous.

83.57 Chs. Heavy timber-dense brush.

83.51 Chs. Mountainous in  
character.

10.45 Chs. connecting line.

N<sup>00</sup>°03' St. bet. secs. 31 and 32.

Ascend gently.

Dense cedar and juniper.

11.50 Open draw course S<sup>72</sup>W<sup>4</sup> and ascend gradually.

13.75 Dense cedar and juniper.

22.00 Level.

28.00 Ascend gradually and open draw just. St. course S<sup>72</sup>W<sup>4</sup>.

40.00 Hit a limestone 25 X 12 X 5 ins.

$\frac{3}{4}$  in ground for  $\frac{1}{4}$  sec. cor.

bet. secs. 31 and 32 marked

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

A cedar 10 ins. in diam. bro. N<sup>30</sup>°

45' St. 143 lks. dist. marked

$\frac{1}{4}$  S. 31, B.T.

A juniper 6 ins. in diam bro. N

49° E. 6 lks. dist. marked  $\frac{1}{4}$

S. 32 B.T.

Ascend gradually.

- 50.00 Open draw course D. by
- 53.00 Dense cedar and juniper.
- 80.00 Set a limestone  $18 \times 12 \times 5$  ins.  
 $\frac{2}{3}$  in ground for cor. of secs.  
 29, 30, 31 and 32, marked with  
 1 groove on S and 5 on E  
 edges; from which a pinion  
 8 ins. in diam. Crs.  $N 57^{\circ} 30' E$ .  
 50 lks. dist. marked. T. 28, N., R.  
 5 E. S. 29, B. T.
- A cedar 10 ins. in diam. Crs.  
 $S 80^{\circ} 45' N$ . 65 lks. dist. marked  
 T. 28, N., R. 5 E, S. 31, B. T.
- A pinion 7 ins. in diam. Crs.  
 $S 76^{\circ} E$ . 23 lks. dist. marked  
 T. 28, N., R. 5 E, S. 32, B. T.
- A pinion 8 ins. in diam. Crs.  $N$   
 $62^{\circ} 45' N$ . 73 lks. dist. marked  
 T. 28, N., R. 5 E, S. 30, B. T.
- Soil @  $\frac{2}{3}$  rate.

Formation volcanic lime.  
 Character mountainous.  
 5.25 Chs. Open ground.  
 78.35 Chs. Heavy timber. dense brush  
 83.60 Chs. Mountainous in  
 character.

Sept. 16 at 12. m. lmt. I set off  
 $2^{\circ}37'N.$  on decl. arc. and find  
 the lat. to be  $35^{\circ}45'01.5''N.$  at 1 l.  
 lmt. with lat. at  $35^{\circ}45'01.5''N.$   
 I set off  $2^{\circ}36'N.$  on decl. arc.  
 and determine the true mer-  
 idian with the solar at the  
 cor. to secs 29, 30, 31 and 32.

Thence I run

S.  $89^{\circ}59'E$  on a random  
 line bet. secs. 29 and 32.

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



- 79.90 Intersect N and S. line at cor. to  
secs. 28, 29, 32 and 33.  
Thence I run  
N 89° 5' 9" W on a true line  
bet. secs. 29 and 32.  
Nearly level - Rocky.  
Dense cedar and juniper.
- 10.00 Level - Rocky.
- 29.50 Cross trail bet. N.E. and S.W. <sup>by</sup>  
and descend gently.
- 33.70 Cross trail course N.E. and  
S.W. <sup>by</sup> and level.
- 39.90 Set a limestone 16 x 12 x 8 ins.  
 $\frac{2}{3}$  in ground for  $\frac{1}{4}$  sec. cor.  
bet. secs. 29 and 32 marked  
 $\frac{1}{4}$  S. on N face, from which  
a pin on 10 ins. in diam. bet. N  
73° 30' W. 35 lks. dist. marked  $\frac{1}{4}$  S. & B.  
A pin on 6 ins. in diam. bet. S. 23° 45' E.  
37 lks. dist. marked  $\frac{1}{4}$  S. 32, B. N.

- Ascend gradually.
- 44.00 Level.
- 50.00 Descend gently - Rocky.
- 70.00 Level.
- 79.90 The cor. to secs. 29, 30, 31 and 32.  
 Soil 4<sup>th</sup> rate.  
 Formation volcanic lime.  
 character mountainous.
- 80.62 Chs. Heavy timber - dense brush.
- 80.62 Chs. Mountainous in character.
- " "
- 789°59' N. on a random line  
 bet. secs. 30 and 31.
- 40.00 Set a temporary  $\frac{1}{4}$  sec. cor.
- 78.25 Intersect N. bdy. of  $\frac{1}{4}$  T. at. cor.  
 to secs. 25, 30, 31 and 36.  
 Thence I run.
- 789°59' E. on a true line  
 bet. secs. 30 and 31.  
 Ascend gradually.

Dense cedar and pinion.

4.00 Level.

18.00 Ascend gradually.

38.25 Set a limestone  $16 \times 10 \times 6$  ins.

$\frac{2}{3}$  in ground for  $\frac{1}{4}$  sec. cor.

Set. secs. 30 and 31 marked

$\frac{1}{4}$  p. on N face; from which.

A pinion 7 ins. in diam. Crs.

P.  $76^{\circ}15'$  N. 64 lks. dist. mark-

ed  $\frac{1}{4}$  p. 31, B.T.

A pinion 10 ins. in diam. Crs.

N  $39^{\circ}30'$  W. 68 lks. dist. marked

$\frac{1}{4}$  p. 30, B.T.

Ascend gently.

75.00 Level.

78.25 The cor. to secs. 29, 30, 31<sup>2d</sup> and 32.

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

Formation volcanic lime.

Character - mantainous.

79.57 Chs. 1 heavy timber - dense  
brush.

79.57 Chs. Mountainous in  
character.

————— " —————  
No. 03' N. bet. secs. 29 and 30.  
Ascend gently.

Dense cedar and juniper.

16.00 Descend rapidly.

40.00 Set a limestone 18 x 14 x 6 ins.

$\frac{2}{3}$  in ground for  $\frac{1}{4}$  sec. cor.

bet. secs. 29 and 30 marked

$\frac{1}{4}$  P. on N face, from which  
a juniper 7 ins. in diam. Grs.

N 63° 30' W. 54 lks. dist mark-  
ed  $\frac{1}{4}$  S. 30, B.T.

A juniper 8 ins. in diam. Grs.

P. 41° 15' E. 17 lks. dist. marked  
 $\frac{1}{4}$  S. 29 B.T. and ascend <sup>along</sup>  
rocky ~~N~~ slopes.



- 61.00 Open park and descend gradually.
- 69.00 Dense cedar and juniper and low lime ridge.
- 76.00 Open park-level.
- 80.00 Set a limestone  $20 \times 10 \times 8$  ins.  $\frac{3}{4}$  in ground for cor. to secs. 19, 20, 29 and 30, marked with 2 notches on N. and S, notches on E edges. Dig pits  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a wd. of earth 4 ft. base 2 ft. high N of cor. Soil 4<sup>th</sup> rate.

Formation pel canic lime.

Character mountainous.

12.00 Chs. Open ground

68.71 Chs. Heavy timber-dense brush.

80.71 Chs. Mountainous in character.

D.  $89^{\circ}59'E$ . on a random  
line bet. secs 20 and 29.

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

86.10 Intersect N and D. line 8 lbs  
D. of cor to secs. 20, 21, 28 and  
29.

Thence I run.

D.  $89^{\circ}58'N$ . on a true line bet.  
secs. 20 and 29.

Nearly level.

Open ground.

5.00 Dense cedar and pinon, fire  
swept, standing and fallen.

14.00 Level.

29.00 Descend gradually.

40.0.5 Set a limestone  $20 \times 8 \times 6$   
ins.  $\frac{3}{4}$  in ground for  $\frac{1}{4}$  sec.  
cor. bet. secs. 20 and 29.

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

a pine 10 ins. in diam. Crs. S. 70° E. 91  
 chs. dist. marked  $\frac{1}{4}$  S. 29. B. T.  
 W. pmon 8 ins. in diam. Crs.

N 38° 15' E. 31 lks. dist.

marked  $\frac{1}{4}$  S. 20. B. T.

Descend rapidly - Rocky.

43.00 Level and enter open park.

43.90 Cross old stage road Flag -  
 staff to Grand Cañon Crs. N.W.  
 and S. E<sup>ly</sup>. Old Moqui stage  
 station about 10 chs. S. E<sup>ly</sup>  
 along road.

52.00 Dense cedar, pmon and pines  
 and descend gradually.

65.00 Open park just north.

76.00 Level and enter open park.

80.10 The cor. to secs. 19, 20, 29<sup>rd</sup> and 30.  
 Soil 4<sup>th</sup> rate.

Formation volcanic lime.

Character, mountainous.

18.00 chs. open ground.

63.32 chs. Heavy timber -

dense brush.

81.32 Cho. Mountainous in character

————— " —————

N 89° 59' St. on a ran down  
line bet. secs. 19 and 30.

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

78.10 Intersect St. Edy. of Twp. 7  
lbs. N of cor. to secs. 19, 24, 25  
and 30.

Thence I run.

N 89° 58' E. on a true line  
bet. secs. 19 and 30.

Open park and ascending  
gently.

2.00 Dense cedar and prion.

14.00 Open park.

38.10 Set a limestone 16 X 10 X 5  
ins.  $\frac{2}{3}$  in ground for  $\frac{1}{4}$  sec.  
cor. bet. secs. 19 and 30,  
marked  $\frac{1}{4}$  S. on N. face.



Dug pits 18x18x12 ins. End  
 Q. of stone 3 ft. dist. and  
 raised a md. of earth  $3\frac{1}{2}$   
 ft. base,  $1\frac{1}{2}$  ft. high N of  
 cor.

57.00 Enter dense cedar, juniper and  
 pine and ascend gradually  
 Rocky.

75.00 Open park.

78.10 The cor. to secs. 19, 20, 29 and 30.  
 Soil 4<sup>th</sup> rate.

Formation volcanic lime.

Character mountainous.

48.10 Chs. Open ground.

30.00 Chs. Heavy timber - dense  
 brush.

78.10 Chs. Mountainous in  
 character.

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Sept. 17<sup>th</sup> at 7 A.M. l.m.t. I set  
 off  $2^{\circ} 21' 7''$  on decl<sup>n</sup> arc and  
 $95^{\circ} 45' 53.8''$  N. on lat. arc  
 and determine the true mer-  
 idian with the solar at the  
 cor. to secs. 19, 20, 29, and 30.

Thence I run

$N 0^{\circ} 03' 0''$  W. bet. secs. 19 and 20  
 Level.

Open park

12.25 Cross Moggi road and  
 trail bet. E-ly and W-ly.

13.00 Dense cedar and pinon  
 fire swept standing and  
 fallen and ascend grad-  
 ually - Rocky.

27.00 Open park.

31.00 Dense cedar and pinon.

40.00 Set a limestone  $14 \times 10 \times 5$  ins.  
 $\frac{2}{3}$  in ground for  $\frac{1}{4}$  sec. cor.

bet. secs. 19 and 20 marked  
 $\frac{1}{4}$  P. on N face; from which  
 a cedar 10 ins. in diam. brs. N  
 $32^{\circ}45'$  W. 33 lks. dist. marked  
 $\frac{1}{4}$  S. 19, B. T. A pine 14 ins. in  
 diam. brs. N  $71^{\circ}30'$  E. 47 lks. dist.  
 marked  $\frac{1}{4}$  S. 20, B. T.

Level.

45.00 Ascend gradually - Rocky.

80.00 Set a limestone  $18 \times 14 \times 5$  ins.

$\frac{2}{3}$  in ground for cor. of secs.  
 17, 18, 19 and 20, marked  
 with 3 grooves on S and 5  
 on E. edges; from which  
 a pinon 10 ins. in diam. brs.  
 N  $81^{\circ}15'$  W. 65 lks. dist. marked  
 T. 28, N, R. 5, E. S. 18, B. T.

A pinon 14 ins. in diam. brs.  
 N  $0^{\circ}15'$  E. 71 lks. dist. marked  
 T. 28, N, R. 5, E. S. 17, B. T.

A pinon 10 ins in diam. Crs.  
 S. 22° W. 107 lks. dist. marked  
 T. 28, N., R. 5, E., S. 19, B. T.

A pinon 6 ins. in diam. Crs.  
 S. 53° 15' E. 67 lks. dist. marked  
 T. 28, N., R. 5, E., S. 20, B. T.

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

Formation volcanic lime.

Character mountainous.

17.00 Chs. Open ground.

66.90 Chs. Heavy timber and  
 dense brush.

83.90 Chs. Mountainous in  
 character.

————— " —————  
 N 89° 58' E. on a random line  
 bet. secs. 17 and 20.

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

80.10 Intersect N and S. line at cor.  
 to secs. 16, 17, 20 and 21.



Thence I run

S.  $89^{\circ}58'$  W. on a true line  
bet. secs. 17 and 20.

Rolling ground and open  
park.

- 17.00 Enter dense cedar and pinon,  
and pine - Level.
- 24.00 Descend rapidly.
- 27.00 Enter open draw, course  $S^{\frac{1}{2}}W$  - Level
- 29.50 Cross old stage road Flagstaff  
to Grand Canon brs.  $N^{\frac{1}{2}}W$  and  $S^{\frac{1}{2}}W$ .
- 33.00 Ascend rapidly and enter  
dense cedar and pinon.
- 34.00 Descend gradually.
- 40.05 Set a pinon post 3ft. long, 3  
ins. sq. 24 ins. in ground for  $\frac{1}{4}$   
sec. cor. bet. secs. 17 and 20.  
marked  $\frac{1}{4}$  S. 17 on N. face and  
S. 20, on S. face, from which  
a pinon 5 ins. in diam. brs.  $N50^{\circ}$

45' N. 21 lks. dist. marked  $\frac{1}{4}$   
 S. 17, B. T., A pinon 7 ins. in  
 diam. Crs. S.  $13^{\circ} 15'$  N. 36 lks.  
 dist. marked  $\frac{1}{4}$  S. 20, B. T.  
 Descend gradually.

70.00 Enter open draw and descend  
 gradually, course S  $\frac{1}{2}$  E.

74.00 Dense cedar, pinon and scatter  
 ing pine - level.

80.10 The cor. to secs. 17, 18, 19 and 20  
 Soil 3<sup>rd</sup> rate.

Formation volcanic lime.  
 Character mountainous.

27.00 Chs. open ground.

53.67 Chs. Heavy timber, dense  
 brush.

80.67 Chs. Mountainous character

~~~~~ " ~~~~~

S.  $89^{\circ} 58'$  N. on a random  
 line bet. secs. 18 and 19.

- 40.00 Set a temporary  $\frac{1}{4}$  sec. cor.
- 78.10 Intersect N. bdy. of Twp. at cor.  
to secs. 13, 18, 19 and 24.  
Thence I run  
N  $89^{\circ}58'$  E. on a true line bet.  
secs. 18 and 19.  
Ascend gradually - Rolling  
ground - Dense cedar and juniper.
- 25.00 Ascend gradually.
- 34.50 Open draw course  $\rho$   $\frac{1}{4}$   $\rho$ .
- 37.75 Cross trail bet. N and  $\rho$   $\frac{1}{4}$   $\rho$ .
- 38.00 Dense cedar and juniper.
- 38.10 Set a pinion post 8 ft. long, 3  
ins.  $\rho$ . 24 ins. in ground for  
 $\frac{1}{4}$  sec. cor. bet. secs. 18 and 19  
marked  $\frac{1}{4}$   $\rho$ . 18 on N face and  
 $\rho$ . 19 on  $\rho$  face, from which,  
A pinion 8 ins. in diam. bet.  $\rho$ .  $59^{\circ}$   
 $45'$  N. 36 lbs. dist. marked  $\frac{1}{4}$   $\rho$ .  
19, B. T., A pinion 8 ins. in diam.



N 22° 30' E. 127 lks. dist. marked  
 1/4 P. 18, B. T. ascend gradually.  
 40.00 Level.

78.10 The cor. to secs. 17, 18, 19 and 20.  
 Soil 4<sup>th</sup> rate.

Formation volcanic lime.

Character mountainous.

3.50 Chs. Open ground.

76.23 Chs. Heavy timber - dense brush.

79.73 Chs. Mountainous character.

————— " —————

N 0° 05' W. bet. secs. 17 and 18.

Ascend gradually.

Dense cedar and fir.

40.00 Set a limestone 20 x 12 x 5 ins.  
 3/4 in ground for 1/4 sec. cor. bet.  
 secs. 17 and 18 marked 1/4 P. on  
 W. face; from which, a finion  
 6 ins. in diam. Crs. S. 74° 15' E.  
 56 lks. dist. marked 1/4 P. 17, B. T.



A pin on 12 ins. in diam. Crs.  $S 47^{\circ} N.$   
 56 lks. dist. marked  $\frac{1}{4} P. 18, B. T.$   
 Ascend gradually.

54.00 Level and dense cedar, juniper,  
 and scattering pines.

65.00 Ascend gradually.

69.00 Open park.

75.00 Dense cedar, juniper, scattering pines.

80.00 Set a limestone  $24 \times 16 \times 12$  ins.

$\frac{3}{4}$  in ground for cor. of secs.

7, 8, 17 and 18 marked with 4  
 grooves on  $\beta$  and 5 on  $\epsilon$  edges;  
 from which a pin on 5 ins. in  
 diam. Crs.  $S. 64^{\circ} 30' N. 45$  lks. dist.  
 marked  $T. 28, N. R. 5, E. P. 18, B. T.$   
 A pin on 7 ins. in diam. Crs.  $S 43^{\circ} 15'$   
 $E. 93$  lks. dist. marked  $T. 28, N., R. 5,$   
 $E. S 17, B. T.$ , A pin on 8 ins in  
 diam. Crs.  $N. 25^{\circ} N. 41$  lks. dist.  
 marked  $T. 28, N., R. 5, E. S 7, B. T.$

A pinion 8 ins. in diam. Co.  
 N 71° E. 85 lks. dist. marked  
 T. 28, N., R. 5 - E. S 8, B. T.  
 Soil 3<sup>rd</sup> rate.

Formation volcanic lime.  
 Character mountainous.

6.00 Chs. open ground.

77.76 Chs. Heavy timber - dense brush.

83.76 Chs. Mountainous character.

————— " —————  
 N 89° 58' E. on a random line  
 bet. secs. 8 and 17.

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

74.90 Intersect N and S line 6 lks.

N of cor. to secs. 8, 9, 16 and 17.

Thence I run.

N 89° 59' N. bet. secs. 8 and  
 17 on a true line

Descend gradually.

Dense cedar, pinion and pine.

- 14.00 Open draw course  $S. 21^{\circ} E.$
- 17.00 Dense cedar, pinon and pine and slightly rolling.
- 30.00 Level.
- 36.00 Descend rapidly.
- 39.95 Set a limestone  $16 \times 10 \times 5$  ins.  $\frac{2}{3}$  in ground for  $\frac{1}{4}$  sec. cor. bet. sec. 8 and 17 marked  $\frac{1}{4}$  S. on N face. from which a pine 12 ins. in diam. brs.  $S. 69^{\circ} E.$  77 lks. dist. marked  $\frac{1}{4}$   $S. 17^{\circ} B. T.$  A pine 14 ins. in diam. brs.  $N 86^{\circ} E.$  56 lks. dist. marked  $\frac{1}{4}$   $S. 8^{\circ} B. T.$  Descend rapidly.
- 42.50 Enter open draw course  $S. 21^{\circ} E.$
- 46.10 Cross old stage road bet. Flagstaff and Grand Cañon brs.  $N$  and  $S.$
- 47.00 Ascend rapidly over lime ledge and enter dense cedar and pinon.



60.00 Rolling ground.

63.00 Level.

79.90 The cor. to secs. 7, 8, 17<sup>th</sup> and 18.

Soil 5<sup>th</sup> rate.

Formation volcanic line.

Character mountainous.

7.50 Chs. Open ground.

73.73 Chs. Heavy timber, dense  
brush.

81.23 Chs. Mountainous Character

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$S. 89^{\circ} 58' W.$  on a random line  
bet. secs. 7 and 18.

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

78.06 Intersect Pt. bdy. 7 lbs. p. of  
cor. to secs. 7, 12, 13 and 18.

Thence I run.

$S 89^{\circ} 59' E.$  on a true line bet.  
secs. 7 and 18, Level.

Dense cedar and firson.



- 8.00 Descend gradually.
- 21.50 Rolling ground.
- 28.00 Descend gradually.
- 38.06 Set a limestone  $17 \times 10 \times 5$  ins.  
 $\frac{2}{3}$  in ground for  $\frac{1}{4}$  sec. cor. Let.  
 sec. 7 and 18, marked  $\frac{1}{4}$  S on N  
 face, from which a pinon 8 in  
 in diam. br.  $N 13^\circ E$ . 111 lks. dist.  
 marked  $\frac{1}{4}$  S, B.T., a pinon 14 ins.  
 in diam. br.  $S. 39^\circ 15' E$ . 75 lks.  
 dist. marked  $\frac{1}{4}$  S, B.T.  
 Descend gradually - Rocky.
- 54.50 Cross draw course  $S^{\frac{1}{2}} E$  and cross  
 trail br. N and  $S^{\frac{1}{2}} E$ . - Level
- 72.00 Descend gradually.
- 78.06 Intersect cor. of sec. 7, 8, 17 & 18.  
 Soil 4<sup>th</sup> rate.  
 Formation volcanic lime.  
 Character mountainous.
- 79.92 Chs. Heavy timber, dense

Brush. 79.92 Cho. mountain-  
ous character.

Sept, 18<sup>th</sup> at 7 A.M. l.m.t. I set  
off  $35^{\circ}47'38.4''$  N on lat. arc and  
 $1^{\circ}57'$  N. on dec<sup>e</sup> arc and deter-  
mine the true meridian with  
the solar at the cor. to secs. 7, 8,  
17 and 18. Thence I run  
 $71^{\circ}3'$  N. bet. secs. 7 and 8.  
Ascend gradually. Dense  
cedar, juniper and pine.

16.00 Heavy pine.

37.00 Ascend gradually.

40.00 Get a limestone  $16 \times 13 \times 5$  ins.

$\frac{2}{3}$  in ground for  $\frac{1}{4}$  sec. cor. bet.  
secs. 7 and 8 marked  $\frac{1}{4}$  S. on

N. face, from which a pine  
18 ins. in diam. br. p.  $52^{\circ}45'$  N.  
132 lks. dist. marked  $\frac{1}{4}$  S 7, B 7