

"A"
177

G. H.

Frac. East Bdy. T. 29 N R 5 East

West bdy. of T. 29 N. R. 5 East.

East Bdy. T. 28 N R 5 East

Deputy Wolfley

1376

BOOK 1376

4-671

FIELD NOTES
GENERAL LAND OFFICE.

No. 1376 BOOK 1376



For preliminary catho see
Book "B" Subs. T. 29 N., R. 4 E

Prepared - by HK.
Jan. 19-1901.

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East Dry T 29 N R 5 E - 3
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No. 1376

BOOK 1376

1

Field Notes

of the Survey of the
West and Fractional East Boundary
Township No. 29 North, Range No. 5 East,
The East, West and South Boundary of
Township No. 28 North, Range No. 5 East;
South ~~side~~ ^{and West} ~~side~~ ^{side} of
T. 27 N., R. 5 E.; South and West
side of T. 28 N., R. 4 E., West side
of T. 27 N., R. 4 E.; and the North
side of T. 29 N., R. 4 E.

of the

Gila and Salt River Bone and Hindian
Arizona Territory -

Surveyed by

Sam Walfley U.S. Supt. Surveyor
Under Contract No. 72. Dated June 5th 1900.
Survey Commenced August 5th 1900
Survey Completed October 20th 1900.

Names and duties of Assistants
 Ed. Nelson - Chairman
 B. F. Walker - Chairman
 E. O. Rouns - Master & Woundedman
 J. M. Bower - Woundedman
 Jas a. Pierce - Axeman
 D. C. Douglas - Axeman
 John Marks - Axeman
 J. L. Carter - Flapman
 - Index -

1 31 6
 12 28 7
 13 26 18
 24 23 19
 25 21 30
 36 18 31

J. 29 N. R. 5 E.

13 14 18
 24 11 19
 25 9 30
 36.6.31

7th Standard Section

7th Standard Par. N.

1-52-66
 |
 12-55-7
 |
 13-57-18
 |
 24-55-19 T. 28 N. R. 5 E.
 |
 25-60-30
 |
 36-62-31 32 33 34 35 36-47-31
 --- 77-75-72-70-68-66
 6 5 4 3 2 1

South ldy 228. N. R. 6 E. L 50-32
 6 5

East and West ldy 27 N. R. 5 E.

N. ldy 1-87-6 — E ldy 1-85-6

7th Standard Par. N.

1-105-6
 |
 12-107-7
 |
 13-109-18 T. 28 N. R. 4 E.
 |
 24-111-19
 |
 25-113-30
 |
 36-115-31 32 33 34 35 36
 --- 71-93-94-97-99-101
 6 5 4 3 2 1

West ldy 27 N. R. 4 E.
 1-120-6

North ldy 29 N. R. 4 E.
 31
 124-126-128-130-133-135
 6 5 4 3 2 1

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East boundary of T. 29 N. R. 5 E.

Survey commenced August 4th and executed with a John Roach - Burt Solar Compass reading to single minutes only on all the Verniers -

The instrument was examined on the Mendocino at Tucson, found correct, and was approved by the Surveyor General July - 1900.

On arriving in the field and before beginning work, I thoroughly examined and tested all of its parts, and thus to further test the same, on August 4th 1900 at 12 o'clock M. L.M.T. at the Standard Cor. to Tpo 29 N. R. 5 and 6 E. with declination $17^{\circ}14'$ N. The latitude taken was $36^{\circ}12'$ N. and at 4^h 1. M.T. with lat $36^{\circ}12'$ Dec.

35° 49'

35° 49' 23" N.

East boundary of T_p 29 N. R. 5 E -

17° 12' N. Va. 14° 15' E. I established a Meridian and marked a point 5 Chs dist. by setting a Steel pin firmly in the ground.

At 10 h. 40 M. l. m. t. I observed Polaris, with a Gurly Telescopic attachment to the Solar Compass and in accordance with the Manual of Instructions, and marked the point with a Steel pin set firmly in the ground.

At 8 A.M. l. m. t. August 5th with Lat. ^{35° 49' 23" N.} ~~36° 17'~~ and Decⁿ 17° 01' on their respective arcs. I found the true Meridian so taken to be identical with that taken on the 14th.

I then lay off the Azimuth of Polaris 1° 31' West and

5
 East boundary of Tp 29 N. R. 5 East

found the difference between it and the true Meridian previously established, to be too small to be read on the Verniers. I therefore conclude that my instrument is correctly adjusted -

It had taken from July 10 to August 5th 1900, to bring the men from Phoenix and the Supplies from Williams and Water from nearly 30 miles South - so as to be ready without danger of suffering from want of provisions or the means of keeping up the water supply, the haul of the water averaging over 35 miles - and it being over 60 miles to the

East boundary T. 29 N. R. 5 E. Cont^d

Chains

Master Notary or other
 Official - I therefore swear
 in my assistants - and
 at 12 M. L. M. T. with decl
 at $16^{\circ}58'N$ I again take lat.
 at $35^{\circ}49'25''N$ at the same
 S. C. to T. 29 N. R. 5 & 6 E.

and at 1 Ch. L. M. T. with
 decl at $16^{\circ}57'N$ lat $36^{\circ}49'23''N$
 $14^{\circ}15'E$ - from said Cor.

Which is a stone firmly
 set, marked and witnessed
 as described by the Surveyor
 Journal.

From N. bet Secs 31 and 36
 dense Cedar and Piñon
 gradually ascending

3100 Top and gradually descending

3400 descend rapidly and enter
 open ground.

East boundary T. 29 N. R. 5 E. Cont^d
Chains -

- 3900 Level -
- 4000 Set a Piñon Post 3 ft. long 3 ins. sq. with marked stone 24 ins. in the ground, for $\frac{1}{4}$ Sec. Cor. bet. Secs. 31 and 36, Marked $\frac{1}{4}$ S. 36 on W. face - and S. 31 on E. face deep pits 18x18x12ⁱⁿ 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. W. of Cor.
- 4600 ascend over an abrupt limestone ridge, and enter dense Cedar Pines and piñons - Ridge bet. Nos. 5.
- 5100 Top of W. end and descend rapidly along rocky W. slope.
- 7600 Bottom and ascend gradually.
- 7950 Top and along ridge -
- 8000 Set a Piñon post 3 ft long 4 ins. sq. 24 ins. in the ground

East boundary T29 N. R5 E. Cont^d
Chains

for Cor. to Sigs 25, 30, 31 and
36. Marked

T. 29 N. S. 30 on N. E.

R. 6 E. S. 31 on S. E

S. 36 on O. W. and

R. 5 E. S. 25 on N. W. faces

with 5 notches on N. and 2

notches on S. edges, from which

a Cedar, 16 ins. dia. brs N. $67^{\circ}30' E$

67 lbs dist. Marked T. 29 N.

R. 6 E. S. 30 B. T.

a Piñon, 14 ins dia. brs. N. $48^{\circ}15' W$
32 lbs dist.

Marked T. 29 N. R 6 E. S 25. B. T.

a Cedar 10 ins. dia brs. S. $67^{\circ}30' W$.

75 lbs dist. Marked T 29 N. R

5 E. S. 36 B. T.

a Piñon 6 ins. dia. brs S. $50^{\circ}30' E$

78 lbs dist. Marked T. 29 N. R.

6 E. S. 31 B. T.

Soil 4 feet $N\frac{1}{2}$ Rocky

East boundary T. 29 N. R. 5 E. Cor. ^{5-d}

Chains - Volcanic line - and
 Mountainous in Character
 12 Chs open ground
 68 Chs Dense Cedar Piñon and Piñon
 2 Chs 62 ft. ^{total} Dense Cedar Piñon and Piñon
 70.62 Chs - Dense Cedar, Piñon and piñon -
 82 Chs 82 lbs Mountainous -

N. Sect Secs. 25 and 30.
 along Ridge

Dense Cedar and Piñon

40.00 Set a Piñon post 3 ft. long
 3 ins. sq. 24 ins. in the ground for
 1/4 Sec. Cor. Sect Secs 25 and 30.

Marked $\frac{1}{4}$ S. 25 on W. face and
 S. 30 on E. face: from which
 a Piñon 10 in. dia. brs. S. 75° W. 47 lbs
 dist. Marked $\frac{1}{4}$ S. 25. B.T.

a Cedar 6 in dia. brs. S. 41° E. 24 lbs
 dist. Marked $\frac{1}{4}$ S. 30. B.T.

East boundary T. 29 N. R. 5 E. Cor. 2^d

Chairs

50.00 Descend along E. Slope -

65.00 descend dense Cedar and Piñon and
Enter Heavy Pine timber and
Continue along rocky E. Slope -

77.00 dense brush standing and fallen
trees - Scattering Pines.

80.00 Set a pine post 3 ft. long 4 in.
dg. 24 ins. in the ground for
Cor to Secs. 19-24-25 and 30.

Marked - T. 29 N. S. 19 on N. E.

R. 6 E. S. 30 on S. E.

S. 25 on S. W.

R. 5 E. S. 24 on N W faces.

with 4 notches on N and 2 on

S. edges. from which

A Pine 14 ins. dia. hrs. S. 15° 30' W. 290 lbs
dist. Marked T. 29 N. R. 5 E. S. 25. B.T.

A. Pine 20 ins. dia hrs S. 9° 15' E. 320 lbs
dist. Marked T. 29 N. R. 6 E. S. 30. B.T.

A Pine 20 ins. dia. hrs. N 66° 45' E. 273 lbs

East boundary T. 29 N. R. 5 E. Cont^d

Chains dist. Marked T. 29 N. R. 5 E. S. 19 B.T.
 A Pine 20 ins. dia. br. N. 64⁵ W. 206 lks
 dist. Marked T. 29 N. R. 5 E. S. 24 B.T.
 Soil 4 rate rocky and
 Volcanic in formation and
 Mountainous in Character.
 50.00 Chains Heavy timber and dense brush
 11.60 Chains to R.T.s Heavy timber and dense brush
 91.60 Chains Mountainous - Dense
 brush and heavy timber -

August 6. at 7 h. I set off
^{35° 57' N.}
~~36° 44'~~ on lat. arc and 16° 47' N.
 on decl. arc at the Cor. of
 Secs. 19-24-25 and 30 - With
 the true Meridian so established
 I run. N. bet. Secs 19 and 24
 Descending gradually -
 Enter Heavy Pines -
 Cross an old road br N. 25 S. 100°

4.00
 6.50

East boundary T. 29 N. R. 5 E. Cont^d

Chains

- 7.50 Cross a Wash Cr. S. Ely. and ascend along Nly slope of a rough line ridge.
- 16.00 Everett's Log house bro N. about 4.00 chs dist
- 23.00 Dry Tank, enclosed with log fence about 5 chs. N.
- 38.00 Top of ascent and level, Enter dense Cedar & Piñon.
- 40.00 A Cedar Post 3 ft long 3 ins sq. 24 ins in the ground for $\frac{1}{4}$ S. Cor. bet bees. 19 and 24 Marked $\frac{1}{4}$ S. 24 on W. face and S. 19 on an E face. From which a Piñon 10 ins. dia. bro S. 87° 15' W. 47 lbs dist. Marked $\frac{1}{4}$ S. 24 P.T.
- A Cedar 16 ins. dia. bro S. 39° 45' E. 24 lbs dist. Marked $\frac{1}{4}$ S. 19. P.T.
- 59.00 Ascend gradually
- 63.00 Level

East boundary T. 29 N. R. 5 E. Cont^d

Chains

8000

Set a Cedar post 3 ft. long
4 ins dia. 24 ins in the ground
for Cor. of Secs. 13-18-19 and 24
Marked - T. 29 N. ~~R. 5 E.~~ S. 18. on N. E.
R. 6 E. D. 19 on D. E.

D. 24 on S. W. and
R. 5 E. S. 13 on N. W. faces
with 3 notches on the N. and S.
edges: from which
A Cedar 12 ins. dia. hrs. S. $56^{\circ}45'W$
100 lbs dist. Marked.

T. 29 N. R. 5 E. S. 24. B. T.
A Piñon 8 ins. dia. hrs. S. $24^{\circ}E$. 42 lbs
dist - marked.

T. 29 N. R. 6 E. S. 19 B. T.
A Cedar. 16 ins. dia. hrs. N. $76^{\circ}15'E$.
138 lbs dist. Marked

T. 29 N. R. 6 E. S. 18 B. T.
A Piñon 12 ins. dia. hrs. N. $41^{\circ}W$. 13
lbs dist. Marked

East boundary T. 29 N. R. 5 E. Cor. -
Chairs

T. 29 N. R. 5 E. S. 13 B.T.

Soil 4th rate

Formation Volcanic lime.

Mountainous in Character -

83.64 Acs. Dense brush and heavy timber

83.64 Acs. Mountainous -

N. bet Secs 13 and 18.

Sixty

Dense Cedar and Piñon

5.80 Cross old brush fence from E.W.

23.00 Dense standing and fallen timber

Scattering Cedar and Piñon

34.00 Dense ^{brush} standing and fallen timber

40.00 Set a piñon post 3 ft. long 3 ins. -
sq. with marked stone, 2 1/2 ins in
the ground for 1/4 Sec. Cor.

bet Secs. 13 and 18. Marked

1/4 S. 13 on N. face and S. 18

on E. face deep pits 18 x

East boundary T. 29 N. R. 5 E. Cont'd
Chains

18 x 12 ins N. and S. of post
3 ft. dist and raised a
Mound of earth 3 1/2 ft. base
1 1/2 ft. high W. of Cor.

45.00 Descend gradually

50.00 Descend abruptly over lime
rocks, and enter dense Cedar
grove and brush. along
rocky Ely slopes

50.00 Set a Lime Stone 30 x 14 x 8
22 ins in the ground for Cor. of
Secs. 7-12-13 and 18 with
4 notches on the S. and 2 on
the N. edges, from which
a Pinon 8 ins in dia. br. S 22° 45' E.
22 lbs dist. Marked
T. 29 N. R. 6 E. S. 18 B. T.
A Cedar 12" in dia. br. N. 63° 15' E.
24 lbs dist. Marked
T. 29 N. R. 6 E. S. 7. B. T.

East boundary T. 29 N. R. 5 E. Cont^d
Chains

A Piñon 7 ins. dia. brs. N. 42° 30' W.

20 lbs dist; Marked

T. 29 N. R. 5 E. S. 12. B. T.

A Cedar 10 ins. dia. brs S. 40° W.

52 lbs dist - Marked

T. 29 N. R. 5 E. S. 13. B. T.

Soil 4 rate - rocky

Formation Volcanic lime

S. 18 Chs. Dense brush and heavy
timber -

S. 18. Chew Mountains.

General description

The soil is volcanic ash
and decayed vegetation and
except in the washes is only
a few inches thick. In most
places the broken volcanic
lime stones projecting through
it - Grass is fairly good.

East boundary T₁ 29 N. R. 5 E. Cont^d

The entire Country appears to have been flooded with the volcanic lime flowing over it and breaking up as it cooled. The elevation is from 8000 to 9000 feet at or near the rim to the upper Coconino Basin -

In the Northern portion forest fires have killed large tracts, leaving the trees to fall as they decay. The fire must have been several years ago - so many of the trees have fallen, making the Chaining very difficult through their branches -

The Northern portion descending to Coconino Basin is very rough and mountainous ^{Scenic} ^{Highly} ^{interesting} ^{with} ^{its} ^{scenery} -

West boundary of T. 29 N. R. 5 E.

Chains.

August 10th near the S.C. to Acres

31 and 32 T. 29 N. R. 5 E.
at the 5 h. with ~~36~~^{35° 49' 23" N} on lat.

arc and 15° 30' N. on decl^e
arc - I establish a true Meri-
dian and set a steel pin
firmly in the ground at
4 chs dist. and

Sept 11th at 7 am. l.m. T. with
~~36~~^{35° 49' 23" N} on lat. arc and 15° 20' N.

on decl arc the instrument
gives the identical Meridian;

and at 8 am. at the S.C.

to T. 29 N. R. 4 and 5 E. with
~~36~~^{35° 49' 23"} on lat. arc and 15° 19' N.

on decl. arc. I establish the
true Meridian. Hence

I run N. bet. Acres 31 and 36
from the S.C. to T. 29 N. R. 4 and 5 E.
which is a stone, witnessed as

West boundary T29 N. R5 E. Cont^d
Chains

as described by the Surveyor
General.

Ascending gradually - Weby-
Dune Cedar, Piñon, Pine and
Buck Brush.

11.00 Descend into draw

16.00 Cross Wash Cr. S. Ely and
ascend gradually

46.00 Hit a limestone $17 \times 12 \times 12$ ins.
 $\frac{1}{2}$ ins in the ground, for $\frac{1}{4}$ sec
Cor. Marked $\frac{1}{4}$ S. on N. face
from which.

A Cedar 8 ins. dia. br. N $69^{\circ}30'$ W. 72
lks. dist - Marked $\frac{1}{4}$ S. 36 B.T.

A Pine 30 ins. dia. br. S $39^{\circ}30'$ E. 85
lks. dist. Marked $\frac{1}{4}$ S. 31 - B.T.

Level -

46.00 Descend gradually and leave
the Buck Brush - Enter heavy Pines

59.00 Cross Wash Cr. S. Ely and ascend gradually

West boundary T. 29 N. R. 5 E. Cont^d

Chains

64.00 Cross Grand Cañon and Flag

Staff road, hrs N.W. + S. Ely.

50.00 Set a limestone $18 \times 10 \times 7$ in -
¹²
 + 10 ins in the ground for Cor.

of Secs 25-30-31 and 36 -
 Marked with 5 Notches on N. and

1 notch on S. edges: from which
 a Pine 18 ins. dia. hrs. N. 230° W.

34 lbs dist. Marked -

T. 29 N. R. 4 E. S. 25 B.T.

A Pine 22 ins. dia. hrs. N. 440° E.

59 lbs dist: Marked

T. 29 N. R. 5 E. S. 30. B.T.

A Pine 20 ins. dia. hrs. S. 64° E.

75 lbs. dist: Marked

T. 29 N. R. 5 E. S. 31. B.T.

A Pine 18 ins dia. hrs S. 515° W.

90 lbs dist: Marked

T. 29 N. R. 4 E. S. 36. B.T.

Soil, just in Markers. 2nd rate

West boundary I. 29 N. R. 5 E. Cont^d
Chains

Soil 4th rate, and rocky, outside
of Rockies - Volcanic and Mountainous
The formation is volcanic and Mountainous
84.15 Chs. dense brush and ^{heavy} timber
84.15 Chs. Mountainous in Character.

N. lat. Secs. 25 and 30.

Ascending gradually

Heavy Pine Timber - Dense Cedar
and Birch - and Oak Brush -

11.50 Top and rolling and
Heavy Pine Timber

31.60 on old road to Red Horse
Tank Cms. E. N. W.

35.00 Cross Wash Cr S. E. and
ascend gradually

4000 Set a Limestone 30 x 8 x 7 ins
15 ins. in the ground for $\frac{1}{4}$
²⁰
_{3/4} feet. Secs 25 and 30
See Cor. marked $\frac{1}{4}$ S. on N.
face; from which

West boundary T. 29 N. R. 5 E. Cont =
Chains

A Pine 16 ins. dia. lvs. S. 53° 15' E.
18 lbs dist. Marked

T. 29 N. R. 5 E. S. 30. B.T.

A Pine 20 ins. dia. lvs. N. 40° 30' W.
57 lbs dist. Marked.

T. 29 N. R. 4 E. S. 25 - B.T.

and continue to ascend gradually

55.00 Cross an old road lvs. E and N

65.10 Cross an old road lvs E and N

70.00 A large number of trees sawed
down and felled off - old
work -

80.00 Set a Pine Stone 20 x 14 x 7 ins

¹⁵
10 ins in the ground, for Cor.

of Secs. 19-24-25 and 30

Marked with 4 holes on N.

and 2 on S. edge, from which

A Pine 14 ins. dia. lvs N. 73° W. 40

lbs dist. Marked

T. 29 N. R. 4 E. S. 24 B.T.

West boundary T. 29 N. R. 5 E. Cont-
Chains

A Pine 14 ins. dia. lvs S. 48° E.

66 lbs dist - Marked

T. 29 N. R. 5 E. S. 30. B.P.

A Pine 16 ins. dia. lvs. S. $21^{\circ}45'$ W.

127 lbs dist - Marked

T. 29 N. R. 5 E. S. 25. B.P.

A Pine 22 ins. dia. lvs. N. 41° E.

80 lbs. dist - Marked

T. 29 N. R. 5 E. S. 19. B.P.

Soil 4 rate rocky

Formation Volcanic fine

Mountainous in Character

8388 chs. Heavy timber - ^{brush} sum, Cedar

and Piñon

8388 chs Mountainous in Character.

N. Sect Secs. 19 and 24

ascending gradually

Heavy Pine timber - sum oak and

No. 1376

BOOK 1376

24

Next boundary of T29N, R5E, Cor²
Chains

after break

- 6.00 Rolling ground
- 40.00 Set a Pine post 3 ft long 3 in
sq. 24 ins in the ground for
1/4 Sec. Cor. bet Secs 19 and 24.
Marked 1/4 S. 24 on W. face and
S. 19 on E. face, from which
A Pine 18 ins. dia. bro. N. 71° 15' E,
130 lts dist. Marked -
1/4 S. 19 B.T.
- A Pine 22 ins. dia. bro. N. 70° 30' W.
112 lts. dist. - Marked
1/4 S. 24 B.T.
- 50.00 Dense Cedar, Piñon and Madroñero
- 66.00 Heavy Pines and descend rapidly
- 74.50 Cross Wash Cr S. Ely and ascend
rapidly
- 80.00 Set a limestone 18x12x10 in -
¹²
18 ins in the ground, for Cor. of
Secs. 13-18-19 and 24. Marked

West boundary 729 N. R. 5 E. Cont-
chains

With 3 notches on N. and S. edges
from Whiele

A Pine 24 ins. dia. brs. S. $73^{\circ}45'$ N.

11 lks. dist. - Marked

T. 29 N. R. 4 E. S. 24 B.T.

A Pine 24 ins. dia. brs. S. $28^{\circ}30'$ E.

66 lks. dist. - Marked -

T. 29 N. R. 5 E. S. 19. B.T.

A Pine 12 ins. dia. brs. N. $60^{\circ}35'$ W.

86 lks. dist. - Marked

T. 29 N. R. 4 E. S. 13 B.T.

A Pine 18 ins. dia. brs. N. $68^{\circ}45'$ E.

195 lks. dist. - Marked.

T. 29 N. R. 5 E. S. 18 B.T.

Soil 4 vots - rocky

Formation Volcanic Lime

Character Mountainous

8600 lks. Near Pines and Deer Creek and
Pine -

8600 lks. Mountainous in Character

West Boundary 729 N. R. 5 E. Cont^d
Chains

N. bet. Secs. 13 and 18

Ascending gradually

Many Pines ^{timbers} - Duce Cedar, Piñon
and Oak Mush-

4000 Set a Limestone 16x10x6 in.
Pins in the ground, for 7/4 Sec.

Cor. bet Secs. 13 and 18 Marked

1/4 S. on N. face, from which
A Pine 20 ins. in dia. br. N. 21° W

46 lbs. dist. - Marked

1/4 S. 13 B. T.

A Pine 20 ins. dia. br. N. 83° E.

114 lbs. dist. - Marked

1/4 S. 18 B. T. and

descend gradually

4700 Cross Made Cr. NW, and

ascend gradually - rolling ground

6200 Cross old road to S. E. corner, enter

Many Pines

5000 Set a Limestone 22x12x8 in

That boundary T. 29 N. R. 5 E. Cont^d
Chains

15
+ 12 ins in the ground for Cor. of
Secs. 7-12-13 and 18. Marked
with 2 notches on N. and 4
notches on S. Edges, from which
A Pine 20 ins. dia. brs. N. 62° 30' E.

74 lbs. diet - Marked
T. 29 N. R. 5 E. S. 7 B. P.
A Pine 20 ins. dia. brs. N. 69° 30' W.

96 lbs. diet. Marked -
T. 29 N. R. 4 E. S. 12. B. P.
A Pine 22 ins. dia. brs. S. 40° 30' E.

100 lbs. diet - Marked -
T. 29 N. R. 5 E. S. 18. B. P.
A Pine 18 ins. dia. brs. S. 5° 15' W.

32 lbs. diet - Marked
T. 29 N. R. 4 E. S. 13 - B. P.
Some Oak Brush

Heavy Pine, Cedar + Piñon timber
Soil 4 rate - rocky
Formation Volcanic lime

Next boundary S. 29 N. R 5 E. Cont^d
Chains

Mountainous in Character

84.62 Chs Heavy timber and some Oak

84.62 Chs Mountainous in Character

N. bet Secs 7 and 12 -
Heavy Pine and some Oak
Ascending gradually

16.00 Descend gradually along Ely
Slopes to Upper Coconino Basin

21.30 Cross Draw Cr Ely and ascend
gradually along Ely Slopes

30.00 Some Ely Slopes and ascend
gradually. Enter Cedar & Pine

40.00 Set a Limestone 16 x 10 x 6 ins -
8 ins in the ground, for $\frac{1}{4}$ Sec.

Cor. bet. Secs, 7 and 12

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

from which -

A Pine 16 ins. dia. br. N. 62° E.

52 Chs. Marked -

West boundary T. 29 N., R. 5 E. Cont^d
Chaus

1/4 S. 7 B.T.

A Cedar 18 ins. dia. brs. N. $47^{\circ}15' W.$

78 lbs. dist. Marked -

1/4 S. 12 B.T.

and continue to ascend gradually

45.00 Level - about 9000 ft. elevation

54.00 descend gradually

69.00 descend abruptly over rough
rocky breaks -

72.00 Cross rocky Wash Cr. Ely

75.50 Cross rocky Wash Cr. S. Ely

and ascend abruptly

78.00 ascend gradually

80.00 Set a Limestone 18 x 14 x 6 in

10 ins in the ground, for Cor.

of Secs 1-6-7 and 12

Marked with 5 notches on S. and

1 on N. edges - from which

A Pine 8 ins. dia. brs. S. $19^{\circ} W$

47 lbs dist - Marked -

West boundary T₂₉N. R₅E. Cont^d
Chains

T₂₉N. R₄E. S. 12. B.T. us.

A Piñon 7 ins. dia. brs. S. 29°45' E. br

28 lks. dist. - marked - 30

T₂₉N. R₅E. S. 7 B.T.

No other trees large enough
to mark within limits -

This Co. is on the Eastern point
of a rocky ridge overlooking
Upper Colorado Basin - Natl.

82.05 Chains ^{timber} Near Piñon Cedar and
Piñon and dense brush 30

82.05 Chr Mountains in Character

Soil 4 rate rocky

Formation Volcanic

Character Mountains -

~~October 10 - 2 h. l.m. T. with~~

~~38°16' N. on lat. and~~

~~8°57' S. on decl. and I estab-~~

~~lish a true meridian and~~ E.

Next boundary T. 29 N. R. 5 E. Cont^d
chains

N. cut Secs 1 and 6.

On E. front of rocky ridge
Dense Cedar and Piñon, and
Bouse Under Creek -

0.80 Descend abruptly over rough
rocky ground.

11.00 Cross Nash Cr. Ely. ascend,
abruptly

20.50 Top rocky ridge bet E & W

24.00 Descend abruptly

33.50 Cross rocky Nash Cr Ely and
ascend abruptly

42.00 Set a Red sandstone 20x10x8 ins.
¹⁵
to ins in the ground for 1/4 sec.

Cor. cut, Secs. 1 and 6. Marked
1/4 S. on N. face, from which
a Piñon 7 ins. dia. bet. N. 5° 30' E.

22 lbs dist. marked -
1/4 S. 6 B.T.

a Piñon 10 ins. dia. bet. S. 49° W.

West boundary T. 29 N. R. 5 E. Contd.

Chairs

53 lbs dirt. Marked
1/4 S. 1 B.T.

and ascend rapidly

42.50 Top of ridge less. E. W. and
descend abruptly

51.25 Cross Wash Cr. Ely and
ascend abruptly -

64.00 Heavy Pines

67.00 Level and along broken
Ely Slopes

76.00 Descend abruptly over rocky
ground -

80.00 Set a Sincostone 18x12x6 in
12
Pines in the ground for Cor
of Tps. 29 and 30 N. Rs. 4 and 5 E.
Marked with 6 notches on each
edge, from which -
A Pinon 6 in. dia. br. N. 69° 30' N.
20 lbs dirt. Marked
T. 30 N. R. 4 E. S. 36. B.T.

Next boundary T. 29 N. R. 5 E. Cont^d
Chain

A Pinon 5 ins. dia. bro S. $43^{\circ}15'N$

8 lks dist - Marked

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

A Pinon 10 ins. dia. bro N. $73^{\circ}E$.

85 lks dist - Marked

T. 30 N. R. 5 E. S. 31 B.T.

A Pinon 6 ins. dia. bro S. $24^{\circ}30'E$.

25 lks. dist. Marked

T. 29 N. R. 5 E. S. 6 B.T.

Soil 4 rate rocky

Formation Volcanic fine

Character Mountainous

82.13 chs Near Cedar ^{timber} Pinon

and dense Under Brush

82.13. Chs Mountainous in Character

My instruction did not rather
reg^d me to run an exterior
boundary on the north of this
T. N. on the E. N. of T. 29 N. R. 6 E.

West boundary T. 29 N. R. 5 E. Corral
Chains

General Description

The Soil is Volcanic ash with decayed Vegetation mixed in it, and, except in the Washes, is but a few inches thick - In most places Volcanic lime stones projects through it - as having originally been flooded over, and on cooling broken into jagged fragments -

The northern portion of the line is along the rough breaks to the N. side of the Upper Caonino Basin.

The elevation varies from about 8000 to 9000 feet.

Grass is fairly good and would be better but for the scattered dunes.

over
Washes
see opp. page

is.
lev
30
es
Nash
lets
E.

E.

East boundary T 28 N. R 5 E.

Chains

Beginning at the D.C. to Sp. 29 N.
R. 5, and 6 E. Which is a stone
firmly set, marked and wit-
nessed, as described by the
Surveyors journal - Some Cedar and Piñon -

At 1 h. l. m. T. August 28th
with 35° 49' N. on lat. arc and
and 9° 41' N. on decl arc. I
lay off a true meridian from
which I turn and run W.

10.40 Chs. along the Standard
and set a Piñon post 3 ft long
4 ins. dia. 24 ins in the ground.

For Closing Cor. of Sp. 28 N.

R. 5 and 6 E. Marked
C.C. T. 28 N. on S.

R. 6 E. S. 6 on E. and

R. 5 E. S. 1 on W. faces

with 6 poles on S. E. and W.
faces - from which

Aug 27. I this day arrived in
D. C. along with and John M. M. &
as witnesses.

East boundary T 28 N. R 5 E. Cont^d
Chairs

A Piñon 8 ins. dia. brs S. $57^{\circ}30' W.$

32 lbs. dist. Marked.

T. 28 N. R 5 E. S. 1. B.T.

A Piñon 10 ins. dia. brs S. $31^{\circ} E.$

44 lbs. dist. Marked.

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

Thruer I run

S. bet. Secs 1 and 6

Descending gradually

thru Cedar and Piñon

10.80 Cross Trail brs NW. & SE. and

enter open level "Pook"

40.00 Set a Piñon post 3 ft long 3

ins sq. 24 ins in the ground

with marked stone. for $\frac{1}{4}$ Sec.

Cor. bet Secs 1 and 6. Marked

$\frac{1}{4}$ S. 1 on N. face and S. 6 on

E. face. dug pits 18x18x12

ins. N. and S. of post 3 ft.

dist. and raised a mound E.

E. at boundary T. 28 N. R. 5 E. Cont^d
Chains

of earth, $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high
N. of Cor.

- 57.50 Cross old road into E. & W.
64.50 Arced gradually over rocky ground -
77.00 Leave Open Park, enter dense

Oaks and Piñons

8000 Set a fire stone $24 \times 18 \times 6$ in. - ¹⁸/₁₆

ins in the ground, for Cor. of
Dics 1-6-7 and 12. Marked
with 1 notch on N. and 5 notches

on S. edges; from which
a Piñon 18 ins. dia. less, N. 27° W.

37 lbs dirt marked

T. 28 N. R. 5 E. S. 1. B. P.

a Piñon 16 ins. dia. less, S. 34° E.

56 lbs. dirt. Marked

T. 28 N. R. 6 E. S. 7. B. P.

a Piñon 8 ins. dia. less, N. $14^\circ 45'$ E.

49 lbs. dirt. Marked

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

a Piñon 14 ins. dia. less, S. $50^\circ 15'$ W.

East boundary T. 28 N. R. 5 E. Cont^d

Chains

53 Chs. dist. - Marked

T. 28 N. R. 5 E. S. 12 N. T.

Soil in Park pt. rate 66.20

13.50 Chs. 4 rates - rocky

Formation Volcanic lime

Character Mountainous

1040 Chs. Connecting line - Dense
Cedar and Piñon.

82.71 Chs. Mountainous in Character

13.50 Dense Cedar and Piñon

66.20 Open Park -

S. Sect. 7 and 12

Descent gradually over rolling
ground -

Heavy Cedar and Piñon

40.00

Set a Piñon post 3 ft. long

3 ins. sq. 24 ins. in the ground

for 1/4 Sec. Cor. Sect 7 and 12

Marked 1/4 S. 12 on N. face and

East boundary 7.28 N. R. 5 E. Cent^d
chains.

5.70 on E. face; from which
a Pinon 6 ins. dia. brs. S. 43° 15' E.

7 lbs. diet marked
1/4 S. 7. B.T.

A. Pinon 8 ins. dia. brs. N. 56° W.

38 lbs. diet. Marked

1/4 S. 12. B.T.

58.00 ^{ascend gradually} Enter Open Park

60.75 Cross road brs NW and S. Ely

63.50 Leave "Park" - enter Heavy Cedar as Pinon
and ascend gradually

80.00 Set a line stone 18 x 10 x 8 ins ¹² to ins

in the ground for Cor of Secs.

7-12-13 and 18. Marked with 4

notches on S. and 2 notches on N.

pages; from which -

A Pinon 8 ins. dia. brs. N. 52° 15' E.

42 lbs. diet - marked

7.28 N. R. 6 E. S. 7. B.T.

a Pinon 8 ins. dia. brs. N. 59° 45' N.

East boundary T. 28 N. R. 5 E. Cont. 4

Chains

52 lks. dist. - Marked

T. 28 N. R. 5 E. S. 12. B.S.

A Pinon 6 in. dia. hrs. S. 14° 15' W.

30 lks. dist. - Marked

T. 28 N. R. 5 E. S. 13. B.T.

A Cedar 12 in. dia. hrs. S. 36° E.

56 lks. dist. - Marked

T. 28 N. R. 6 E. S. 18. B.T.

Soil 4 rate - rocky -

Formation Volcanic

Character Mountainous

5.50 cls. Open "Park"

76.75 cls. Heavy timber and dense brush

82.25 cls. Mountainous in character

~~Sept~~ 5. bet. Decs 13 and 18.

Descend gradually

Heavy Cedar and Pinon

40.00 bet a Pinon post 3 ft. long 3 in.

Sp. 24 in. in the ground for E.

East boundary T. 28 N. R. 5 E. Cont^d

Chains

 $\frac{1}{4}$ Sec Cor. bet Secs 13 and 18Marked - $\frac{1}{4}$ S. 13 on W. and
S. 18 on E. faces - from which
a Piñon 6 ins. dia. hrs. S. $34^{\circ}15'W$.

15 lbs. dist - Marked

 $\frac{1}{4}$ S. 13, B. T.a Piñon 8 ins. dia. hrs. S. $83^{\circ}30'E$.

20 lbs. dist Marked -

 $\frac{1}{4}$ S. 18, B. T.56.00 descend gradually
descend rapidly along Nly

Slopes of rough lime breaks

64.50 ascend Ely slope gradually

68.50 descend gradually

70.00 Set a Piñon post 3 ft. long 4 ins. dia.

24 ins in the ground, ~~with~~ ~~marked~~~~stone~~, for Cor. of Secs. 13, 18

19 and 24 Marked

T. 28 N. S. 18 on N. E.

R. 6 E. S. 19 on S. E.

S. 24 on S. W. and

East boundary T 28 N. R. 5-E. Cont⁺

Chains

R 5 E. S. 13 on N.W. faces is.
With 3 notches on N. and S. edges
from which

A Piñon 8 ins. dia. hrs. N 17° 30' E.
17 lbs dist - Marked

T. 28 N. R. 6 E. S. 18. B, T.

A Piñon 6 ins. dia. hrs. S. 12° 15' E.
39 lbs. dist - marked -

T. 28 N. R. 6 E. S. 19. B, T.

A Piñon 7 ins. dia. hrs S. 20° 45' W.
51 lbs dist - marked

T. 28 N. R. 5 E. S. 24. B, T.

A Piñon 6 ins. dia. hrs. N. 80° 30' W.
24 lbs dist - marked

T. 28 N. R. 5 E. S. 13. B, T.

Soil. Rocky and worthless

Formation Volcanic lime

Character Mountainous

S. 66 Ches Heavy timber dense brush

S. 66 Mountainous in Character

East boundary T. 28 N. R. 5 E. Cont^d

Chairs

August 29th 12 m. l.m.t. with
 decl $9^{\circ}20'N$. I take lat $35^{\circ}46'$
 and at 1 h. l.m.t. with lat $36^{\circ}10'N$
 and decl $9^{\circ}19'N$. I lay off the
 true Meridian and thence I run
 S. bet Secs. 19 and 24

Descending gradually
 Near Cedar and Piñon

4000 Set a Piñon post 3 ft long 3 ins. sq.
 24 ins in the ground, for $\frac{1}{4}$ Sec.

Cor. bet Secs 19 and 24 marked
 $\frac{1}{4}$ S. 24 on W. face and S. 19
 on E. face, from which
 a Piñon 6 ins. dia. lies S. $31^{\circ}20'$ E.

23 lbs dist. - marked
 $\frac{1}{4}$ S. 19. B.T.

A Piñon 8 ins. dia. lies N $37^{\circ}30'$ W.
 31 lbs. dist. - marked
 $\frac{1}{4}$ S. 24 B.T.

5600 Extending Eastward is a large open Park

East boundary T. 28 N. R. 5 E. Cont^d

Chains

80.00

Site a Piñon post. 3 ft long 4 ins.

09. 24 ins in the ground for
Cor. of Secs 19-24-25 and 30

Marked -

T. 28 N. R. 5 E. 19 on N.E.

R. 6 E. S. 30 on S.E.

S. 25 on S.W. and

R. 5 E. S. 24 on N.W. faces

with 2 notches on id and 4 notches

on an N edge; from which

a Cedar 24 ins. dia. bears N. 44° 30' E.

212 lbs. dist. - marked

T. 28 N. R. 6 E. S. 19. B. T.

a Piñon 8 ins. dia. bears S. 73° W -

123 lbs. dist. - Marked

T. 28 N. R. 5 E. S. 25. B. T.

a Piñon 9 ins. dia. bears N. 23° 15' W.

24 lbs. - marked

T. 28 N. R. 5 E. S. 24. B. T.

a Piñon 12 ins. dia. bears S. 60° 30' E.

East boundary T. 28 N., R. 5 E., Cont'd
Chains

75 Chs. dist - marked -

T. 28 N., R. 5 E., S. 30, B. 7.

Soil 3 rates - rocky

Formation Volcanic Lime

Character Mountainous

84.88 Chs Heavy timber - dense brush

84.88 Chs Mountainous in Character

————— " —————

S. Sect Secs. 25 and 30

Decid gradually

Dense Cedar and Piñon also

Bur oak trees standing and fallen

Large Open "Park" just East -

2400 Leave Cedar, Piñon and Bur oak timber

Enter Open "Park"

3800 Leave Open Park - enter Heavy Cedar
and Piñon timber and brush

4000 Set a Piñon post 3 ft long 3 ins

d - 24 ins in the ground for

1/4 Sec. Cor. bet Secs. 25 and 30

East boundary T. 28 N. R. 5 E. Cor. 4

Chairs

Marked $\frac{1}{4}$ S. 25 on N. face and
S. 30 on E. face; from which
a Pinon 12 ins. dia. brs. N. 26° 30' E.

22 lbs. dist. Marked

$\frac{1}{4}$ S. 30. B. T.

A Pinon 10 ins. dia. brs. S. 29° 30' W.

77 links dist. Marked

$\frac{1}{4}$ S. 25. B. T.

5000 Set a limestone 16 x 12 x 6 in. - ¹² 8 ins

in the ground - for Cor. of Secs
25-30-31 and 36. Marked

with 5 notches on N. and 1 notch
on S. edges; from which -
a Pinon 8 ins. dia. brs. S. 39° 45' E.

13 lbs. dist. Marked

T. 28 N. R. 6 E. S. 31 B. T.

A Pinon 10 ins. dia. brs. S. 70° W.

47 lbs. dist. Marked

T. 28 N. R. 5 E. S. 36. B. T.

A Pinon 12 ins. dia. brs. N. 46° W.

East boundary T. 28 N. R. 5 E. Cont.

70 lks. dist. Marked

T. 28 N. R. 5 E. S. 25. B. T.

A Piñon 7 ins. dia. hrs. N. 55° 45' E.

38 lks dist. Marked

T. 28 N. R. 6 E. S. 30. B. T.

Soil rocky - 4 rats -

Formation Volcanic Lime

Character Mountainous

14.00. Chs Open Park.

68, 67 chs. Many timber since brush

82, 67 chs Mountainous in Character

"

S. bet. Decs 31 and 36 -

Descending gradually

Bruce Cedar and Piñon

5.50 Descend rapidly

7.50 Level and open ground

10.40 Cross road hrs. NW & S. Ely

13.00 Ascend rapidly rocky and
enter Bruce Cedar and Piñon

A P P R O V A L.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

Tucson, Arizona.

March 1, 1901.

The foregoing field notes of the survey of East ^{and west} Bdy. T. 29 N. R. 5 E.
East Boundary 28 N. R. 5 E.
 executed by Lewis Canfield D.
 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