

18.04

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BOOK 225

X

No 225

225

4-671

FIELD NOTES
GENERAL LAND OFFICE.

Subdivision
of
T16 N.R 14E.

No-225-

Field Notes
of the Survey of the
Subdivision Lines
of
Township No. 16 N Range No. 14 E
of the
Gila ^{and} Salt River Basins Meridian
in the
Territory of Arizona
as surveyed by
Philip Cortzen
U. S. Deputy Surveyor
Under his Contract No 27
Dated Feb. 10th 1893.
Survey commenced Jan 20th 1894
Survey completed May 19th 1894

(4-674.)

Township 16 N R. 14 E.

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Subdivisions T. 16 N. R. 14 E

Chains

At 12 M. Jan 20th 1894 at the cor to
Tps 15 x 16 N. Rs 14 & 15 E I take
an observation on the Sun and
find my instrument in perfect
adjustment.

Latitude $34^{\circ}44'N.$ Va. $13^{\circ}47'E$

I commence at the Cor to Secs 1, 2, 35
& 36, on the South boundary of the
Township, hereinbefore described.

Thence I run

$N. 0^{\circ}1'W.$ bet Secs 35 & 36

Va. $13^{\circ}49'E$

Across open country.

40.00 Set a post 3 ft long 3 ins square with
marked above 12 ins in the ground for
4 Sec Cor. marked $\frac{1}{4}$ S. on W side, dug
pits 18 x 18 x 12 ins N & S of post $5\frac{1}{2}$ ft
dist and raised a mound of earth
 $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base along with

Subdivision T. 16 N. R. 14 E.

Chains
 a Cedar 6" diam bears $489^{\circ}E$ 218 lbs dist
 marked $\frac{1}{4}$ S. B.S.
 a Pinion 6" diam bears $180^{\circ}\frac{3}{4}W$ 285
 lbs dist. marked $\frac{1}{4}$ S. B.S.

50.75 cross trail course E & W.

80.00 Set a limestone $16 \times 12 \times 4$ ins 11 ins
 in the ground for cor to Secs 25-26.

35 & 36 marked with 1 notch on S
 and E. edges, dug pits $18 \times 18 \times 12$ ins
 in each Sec 5 $\frac{1}{2}$ ft diam and raised
 a mound of stone ^{covered with earth} $1\frac{1}{2}$ ft high 2 ft
 base along side.

Land, level and rolling.

Soil 1st and 2^d rate

Timber, scattering Cedar

$S89^{\circ}58'E$ on a random line bet Secs 25 & 36
 W $13^{\circ}49'E$

Over rolling ground.

40.00 Set temporary $\frac{1}{4}$ Sec Cor.

79.89 Intersect the East boundary of the
 Tp. 7 lks S. of the cor to Secs 25-30-31

Subdivision T 16 N. R 14 E
Chans

436 hereintofore described

Thence I run

S. 89° 59' W. on a true line bet Secs 25 & 36

to. 13° 49' E

5.89 Draw 2 chs wide course N N W.

39.95 Set a limestone 15 x 9 x 7 ins in
the ground for $\frac{1}{4}$ Sec Cor marked $\frac{1}{4}$ on
N. face dug pits 18 x 18 x 12 ins E & W.
of stone 5 $\frac{1}{2}$ ft dia and raised a
mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base
along side.

79.89 The cor to Secs 25. 26. 35 & 36

Land rolling

Soil 2^d and 3^d rate

Timber none.

North 0° 1' W. bet Secs 25 & 26

to. 13° 48' E

Across open country

Subdivisions T. 16 N. R. 14 E

Chains

40.00 Set a limestone $15 \times 8 \times 8$ ins 10 ins
in the ground for $\frac{1}{4}$ Sec 6 or marked
 $\frac{1}{4}$ on W. face, dug pits $18 \times 18 \times 12$ ins
N & S of stone $5\frac{1}{2}$ ft diam and raised
a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
base along side

80.00 Set a limestone $14 \times 15 \times 5$ ins 10 ins
in the ground for cor to Secs 23. 24.
25 & 26 marked with 2 notches on
S. and 1 notch on E edges dug pits
 $18 \times 18 \times 12$ ins in each Sec. $5\frac{1}{2}$ ft
diam. and raised a mound of
earth 2 ft high $4\frac{1}{2}$ ft base along side
Land level and rolling
Soil 1st and 2^d rate
Timber none.

Subdivision T. 16. N. R. 14 E.

Charris

N. $89^{\circ}59'6$ on a random line bet Secs 24 & 25Va. $13^{\circ}47' E$

Over rolling ground.

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

80.00 Intersect the East boundary of the Township

10 lks S. of the cor to Secs 19. 24. 25 & 30
hereinbefore described

Thence from

S. $89^{\circ}55' W$ on a true line bet Secs 24 & 25Va. $13^{\circ}47' E$ 40.00 Set a limestone $14 \times 12 \times 3$ ins 10 ins in
the ground for $\frac{1}{4}$ Sec cor marked $\frac{1}{4}$ on
N. face dug pits $18 \times 18 \times 12$ ins E & W
of stone $5\frac{1}{2}$ ft dist. and raised a
mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ feet
long side.

48.00 Trail bears N N W.

80.00 The cor to Secs 23. 24. 25. & 26

Land rolling

Subdivisions T. 16. N. R. 14 E

Chassis

Soil 2^d rate

Timber none.

N. 0° 1' W. bet Secs 23 & 24

Pa 13° 48' E

Over rolling land

40.00 Set a limestone 15 x 8 x 5 ins 10 ins
in the ground for $\frac{1}{4}$ Sec Cor marked
 $\frac{1}{4}$ on W. face dug pits 18 x 18 x 12 ins
N & S. of stone 5 $\frac{1}{2}$ ft dist and
raised a mound of earth 1 $\frac{1}{2}$ ft high
3 $\frac{1}{2}$ ft base along side.

80.00 Set a limestone 14 x 12 x 12 ins
10 ins in the ground for Cor to Secs
13. 14. 23 & 24 marked with 3 notches
on S and 1 notch on E edges, dug
pits 18 x 18 x 12 ins in each Sec. 5 $\frac{1}{2}$
ft dist and raised a mound of
earth 2 ft high 4 $\frac{1}{2}$ ft base along side.

Subdivisions T. 16 N. R. 14 E

Chains

Land rolling
Soil 2^d rate
Timber, none.

Jan 20th 1894

N 89° 55' E on a random line bet Secs 13 & 24
Va 13° 49' E

Over rolling ground.

40.00 Set temporary 1/4 Sec Cor.

79.93 Intersect E boundary of the township
5 1/2 mls S of the cor to Secs 13. 18. 19 & 24
hereinbefore described

Thence S run

S. 89° 53' W on a true line bet Secs 13 & 24
Va. 13° 49' E

39.97 Set a limestone 15 x 10 x 4 ins 10 ins
in the ground for 1/4 Sec Cor. marked
1/4 on N. face and raised a mound
of stone 1 1/2 ft high 2 ft base along side
Pits impracticable.

Subdivision T. 16 N. R. 14 E.

Chains

79.93

The cor to Secs 13. 14. 23 & 24

Land rolling

Soil 2^d and 3^d rates

Timber none.

N. 0° 11' W. bet Secs 13 & 14

Va. 13° 49' E

Over partly level ground

40.00

Set a limestone 14 x 12 x 4 ins 10 ins
in the ground for $\frac{1}{4}$ Sec cor marker $\frac{1}{4}$ on W. face, dog pits 18 x 18 x 12 ins
E. & W. of stone 5 $\frac{1}{2}$ ft dist and raised
a mound of stone 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft
base along side. Pits impracticable

80.00.

Set a limestone 15 x 12 x 4 ins 10 ins
in the ground for cor to Secs 11. 12.

13 & 14. marked with 4 notches on

S and 1 notch on E. edges from which
a cedar 6 ins diam bears N 74° E 210 lks
dist. marked. T. 16 N. R. 14 E. S. 12. B.T.
a cedar 10 ins diam bears N 16 $\frac{1}{2}$ ° E 286 lks
marked T. 16 N. R. 14 E. S. 13. B.T.

Subdivisions T. 16 N. R. 14 E.

Chems
 a Cedar 4 ins diam. burs $S 34^{\circ} 20'$
 485 lks dist. marked T. 16 N. R. 14 E.
 S. 14 B. J.
 a Cedar 5 ins diam. bears $N 80^{\circ} W$
 76 lks dist. marked T. 16 N. R. 14 E.
 S. 11. B. J.
 Land gently rolling
 Soil 2nd & 3rd rate
 Timber; scattering cedar

N. 89° 53 E on a random line bet Secs 12 & 13
 Va. $13^{\circ} 49' E$

Over rolling ground.

- 41.00 Set temporary $\frac{1}{4}$ Sec Cor.
- 79.89 I intersect the East boundary of the Township 9 lks N. of the cor to Secs 7. 12. 13 & 18 hereintofore described
 Thence I run
 N 89° 57 W. on a true line bet Secs 12 & 13
 Va. $13^{\circ} 49' E$
- 39.95 Set a limestone $20 \times 8 \times 4$ ins 15 ins in the ground for $\frac{1}{4}$ Sec Cor marked $\frac{1}{4}$ cor. N. face and raised a mound of stones $1\frac{1}{2}$ ft high 2 ft long along side

Subdivisions T. 16 N. R. 14 E

Chains

Pits impracticable

79-89 The cor to Secs 11. 12. 13 & 14

Land rolling

Soil 2^d & 3^d rate

Timber, none.

N. 0° 1' W. bet Secs 11 & 12.

Pa. 13° 47' E

Over broken ground.

38.00 Edge of Clear Creek Run which
 bears E. but is so rough and precipitous
 that I set a limestone 15 x 12 x 4 in
 10 in in the ground for witness cor
 to 1/4 Sec Cor. marked W.C. 1/4 on
 W. face

from which

A cedar 12 in. diam bears N. 65° 30' E 13

The dist marked WC 1/4 S.B.F.

A cedar 6 in diam bears S. 10° 30' E. 98

Subdivisions T. 16 N. R. 14 E.

Chambers

the dist. marked W.C. $\frac{1}{4}$ S.B.F.

I now send a flag across to the nearest accessible point on the line bet Secs 11 & 12 then run a base line 9 chs E. from Witness corner whence the flag bears N. $76^{\circ}53'W$. which gives for distance across cotang \times base

$$\begin{array}{r} \log \cotang \quad 0.51783 \\ \log \text{ base} \quad 0.95424 \\ \hline 1.47207 = 29.65 \text{ chs} \end{array}$$

or the whole distance from Sec Cor 11.12
13 & 14 will be $38 \times 29.65 = 67.65$ chs

67.65 North bank of Clear Creek Cañon

80.00 Set a limestone $15 \times 10 \times 6$ ins 10 ins in the ground for Cor to Secs 1. 2. 11 & 12 marked with 5 notches on S. and 1 notch on E. edges dug pits $18 \times 18 \times 12$ ins in each Sec $5\frac{1}{2}$ ft dist and raised a mound of earth $1\frac{1}{2}$

Subdivisions T. 16 N. R. 14 E

Chains.

ft high $3\frac{1}{2}$ ft base along side.
 Land very rough and broken
 Soil 4th rate
 Timber a few cedar trees.

S. $89^{\circ}57'E$ a random line bet Sec 1 & 12
 Va $13^{\circ}47'E$

Over rolling ground.

40.00 Set temporary $\frac{1}{4}$ Sec Cor. as
 rocks farther clear creek becomes
 impassable I run an offset
 N $0^{\circ}4'W$. 4.34 chs and then continue
 on offset line S. $89^{\circ}57'E$ to
 79.98 where I intersect the East boundary
 of the township 10th S. of the W. C.
 to sec 1. 6. 7 & 12 here is before
 described

Thence I run

S. $89^{\circ}59'W$. on offset line bet Sec 1 & 12

Subdivisions T. 6. N. R. 14 E.

Chances

Tr. $13^{\circ}47'E$

39.99 I run an offset $S. 0^{\circ}2'E$ 4.34 chs
 at which point I set a limestone $20 \times 16 \times 5$ ins 15 ins in the ground for
³⁹ $\frac{1}{4}$ Sec cor. marked $\frac{1}{4}$ on N face
 and raised a mound of about $1\frac{1}{2}$
 ft high 2 ft base along side. Pits
 impracticable.

Fence continue on true line
 $S. 89^{\circ}59'W$.

79.98 The cor to Secs 1, 2, 11 & 12.

Land rolling

Soil 2^d rate

Timber none.

$N. 0^{\circ}1'W$ on a true line bet Secs 1 & 2.

Tr. $13^{\circ}47'E$

Over rolling ground.

40.00 Set a limestone $15 \times 10 \times 5$ ins 10 ins

Subdivisions T. 16 N. R. 14 E.

Charris

in the ground for $\frac{1}{4}$ Sec corner
 $\frac{1}{4}$ on W. face dug pits $18 \times 18 \times 12$ in
 N & S. of stone $5\frac{1}{2}$ ft diam and
 raised a mound of earth $1\frac{1}{2}$ ft
 high $3\frac{1}{2}$ ft base along side.

109.25 Cross trail bears NE & SW.

138.75 Intersect the Fourth Standard
 Parallel North 8.46 chs West of
 the Standard Cor. to Secs 35 & 36
 Tps 17 N. R. 14 & 15 E where I set
 a Limestone $18 \times 10 \times 3$ in 12 in
 in the ground for closing cor.
 to Secs 1 & 2. marked with 1 notch
 on E and 5 notches on W face.
 dug pits $18 \times 18 \times 12$ in S. E & W.
 of stone $5\frac{1}{2}$ ft diam. and raised
 a mound of earth 2 ft high $4\frac{1}{2}$ ft
 base along side.

Subdivisions T. 16 N. R. 14 E.

Chains

Land rolling.
Soil 2^d rate
Timber none.

From the cor to secs 2, 3, 34 & 35 on
the South boundary of the township
hereinbefore described

From
N. 0° 11' W. bet Secs 34 & 35
Va. 13° 48' E

Over rolling ground.

- 40.00 Set a limestone 16 x 12 x 4 ins 11 ins
in the ground for $\frac{1}{4}$ Sec cor.
marked $\frac{1}{4}$ on W. face and raised
a mound of stone 1 $\frac{1}{2}$ ft high 2 ft
base along side. Pits impracticable.
- 80.00 Set a limestone 16 x 8 x 8 ins 11 ins
in the ground for cor to Secs 26, 27
34 & 35. marked with 1 notch on S.

Subdivisions T. 16. N. R. 14 E.

Chain

and 2 notches on E edges dug pits
18X18X12 ins in each sec 5 1/2 ft
dist. and raised a mound of earth
2 ft high 4 1/2 ft base along side.

Land rolling

Soil 1st and 2^d rate

Timber none.

S. 89° 58' E on a random line bet. Sec 26 & 35

Va. 13° 48' E

Over gently rolling ground.

40.00 Set temporary 1/4 Sec cor.

79.85 Intersect N & S line 8 lks N. of
the cor to Secs 25, 26, 35 & 36.

Thence I run

N. 89° 55' W. on a true line bet. Sec 26 & 35

Va. 13° 48' E

25.00 Enter scattering timber.

39.93 Set a limestone 15X8X3 ins 10 ins

Subdivisions T. 16 N. R. 14 E

Chambers

in the ground for $\frac{1}{4}$ Sec Cor. marked
 $\frac{1}{4}$ on N. face from which
 A cedar tree 16 ins. diam bears N. $1^{\circ}30'$
 E. 93 lks dist. marked $\frac{1}{4}$ S B F.
 A cedar 8 ins diam bears S. $56^{\circ}30'$ W.
 146 lks dist. marked $\frac{1}{4}$ S B F.

42.00 Leave scattering timber
 79.85 The cor to Secs 26. 27. 34 & 35
 Land level and rolling
 Soil 1st and 2^d rate
 Timber, scattering cedar 17 lks.
 Jan. 22. 1894

N. $0^{\circ}1'$ W. bet Secs 26 & 27
 W. $13^{\circ}48'$ E

Across open country.

40.00 Set a sandstone $20 \times 6 \times 4$ ins 15 ins
 in the ground for $\frac{1}{4}$ Sec Cor marked
 $\frac{1}{4}$ on N. face dug pits $18 \times 18 \times 12$ ins
 N & S. of stone $5\frac{1}{2}$ ft dist and raised

Subdivisions T. 16 N. R. 14 E.

Chanis.

a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
base along side

80.00 Set a limestone $15 \times 10 \times 4$ ins 10 ins
in the ground for Cor to Secs 22-23
26 & 27 marked with 2 notches on
S and E. edges

from which.

A cedar 14 ins diam bears N $70^{\circ} 30' W$
54 lbs dist marked T. 16 N. R. 14 E. S. 22 B.T.

A cedar 15 ins diam bears S. $20^{\circ} W$. 56 lbs
dist. marked T. 16 N. R. 14 E. S. 27 B.T.

A cedar 14 ins diam bears S. $73^{\circ} E$ 48 lbs
dist. marked T. 16 N. R. 14 E. S. 26 B.T.

A cedar 12 ins. diam bears N. $39^{\circ} 30' E$ 132
lbs dist. marked T. 16 N. R. 14 E. S. 23 B.T.

Land rolling

Soil 3^d rate

Timber, scattering cedar

Subdivision T. 16 N. R. 14 E.

Chain

S. $89^{\circ}55'6''$ on a random line bet Secs 23 & 26Pa. $13^{\circ}48'8''$

Over changing ground.

40.00 Set temporary $\frac{1}{4}$ Sec cor.79.78 Intersect N & S line 11 lbs S of the
cor to secs 23. 24. 25 & 26

Thence I run

West on a true line bet Secs 23 & 26

Pa. $13^{\circ}48'8''$

38.00 Enter scattering timber.

39.89 Set a limestone $15 \times 10 \times 6$ vis 10 vis in
the ground for $\frac{1}{4}$ Sec cor marked $\frac{1}{4}$ on
N. face and raised a mound of
stone $1\frac{1}{2}$ ft high 2 ft base stone side
Pits impracticable.

42.00 Cross trail bears N W.

50.00 Leave scattering timber.

79.78 The cor to Secs 22. 23. 26 & 27.
Land rolling and level.

Subdivisions T. 16 N. R. 14 E

Chains.

Soil 2^d rate

Timber, scattering, pines & cedars 20%

N. 0' W. bet Secs 22 & 23

Va. $13^{\circ} 49' 6''$

Over rolling ground.

30.00 Enter sparse timber

40.00 Set a limestone $14 \times 14 \times 8$ ins 10 ins
in the ground for $\frac{1}{4}$ Sec Cor marked
 $\frac{1}{4}$ on W face and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base along side
Cts, impracticable

From which

A pinion 9 ins. diam bears S. 10° E133 lbs dist. marked $\frac{1}{4}$ S. B. T.A pinion 4" diam bears N 8° W. 26 lbs
dist marked $\frac{1}{4}$ S. B. T.

50.00 Leave scattering timber.

80.00 Set a limestone $24 \times 12 \times 4$ ins 18 ins
in the ground for Cor to Secs 14-15.

Subdivision T. 16 N. R. 14 E.

Chains

22 & 23 marked with 3 notches on S and
2 notches on E. edges and raised a
mound of stone 1 1/2 ft high 2 ft base
along side. Pits impracticable.

Land rolling.

Soil 2^d rate

Timber, scattering pinon & cedar 20 chs.

Custom as a random line bet Secs 14 & 23

Pa. $13^{\circ}49'E$

Start over rolling ground

40.00 Set temporary 1/4 Sec bar

79.93 Intersect N & S. line 5/8ths N. of
the cor to secs 13. 14. 23 & 24

Thence I run

N. $89^{\circ}58'W$. on a true line bet Secs 14 & 23Pa. $13^{\circ}49'E$

16.00 Enter scattering timber

25.45 Wash rocks, course N.

38.00 Leave scattering timber

Subdivision T. 16 N. R. 14 E.

Chairs.

- 39.97 Set a limestone 14 X 12 X 4 in 10 in
in the ground for $\frac{1}{4}$ Sec Cor marked
 $\frac{1}{4}$ on N face from which
a Cedar 10" diam bis N 21° E. 168 lks
dist. marked $\frac{1}{4}$ S. B. T.
a cedar 6" diam bis S 85° 30' W
197 lks dist marked $\frac{1}{4}$ S. B. T.
47.00 Cross gulch 2 chs with corner N.
55.20 Wash course N. E
79.93 The cor to secs 14. 15. 22 & 23.

Land rolling and broken

Soil 2^d rate and worthless.

Timber, scattering cedar and pinon
22 chs.

N. 0° 1' W. bet. Secs 14 & 15.

Va. 13° 45' E

Over rough ground.

- 31.40. Edge of Clear Creek Canon bears E &
W. and being nearly impassable
I mark a limestone in place

Subdivision T. 16 N. R. 14 E.

Chasms

3 x 2 ft and 2 ins above ground
with x at exact cor point and W.C.
1/4 on W. face for Witness cor. to 1/4
Sec cor. and raised a mound of
stone 1 1/2 ft high 2 ft base alongside
Pits impracticable

I now send a flag across Clear Creek
Canyon to an accessible point on the
line bet Secs 14 & 15. I then run a
base line 4 chs E. to a point where
flag bears N 21° 30' W. which gives for
distance across canyon x base

$$\begin{array}{r} \log \tan \theta \quad 10.40460 \\ \log \text{base} \quad \underline{0.60206} \\ \hline 1.00666 = 10.15 \text{ chs} \end{array}$$

the whole distance from cor to opposite
bank of Clear Creek Canyon will there-
fore be 31.40 + 10.15 chs making

41.55 North side of Clear Creek canyon

80.00 Set a limestone 18 x 16 x 6 ins 12 ins

Subdivision T. 16 N. R. 14 E.

Chain.

in the ground for Cor to Sec 10-11.
 14 & 15 marked with 4 notches on
 S. and 2 notches on E edges dry pits
 18 x 18 x 12 ins in each sec 5' $\frac{1}{2}$ ft dia
 and raised a mound of earth 2 ft
 high 4' $\frac{1}{2}$ ft base along side
 Land rolling broken
 Soil 2^d rate and worthless.
 Timber none.

S. 89° 58' E on a random line bet Sec 11 & 14
 Va. 13° 49' E

Over gently rolling ground.

40.00 Set temporary $\frac{1}{4}$ Sec Cor.

At 60.60 chs I cannot chain across
 Clear Creek Canon therefore send
 a flag across on the line, then
 run a base line 3 chs to a point
 whence flag bears S. 76° 24' E which

Subdivisions T. 16 N. R. 14 E.

Chains

gives for distance across canyon base.

log tang 0.61632

log base 0.47712

 $1.09344 = 12.40 \text{ chs.}$

for width of canon

79.78 Intersect N & S line 7 lks S. of the
cros to Secs 11. 12. 13 & 14

Thence I run

S. $89^{\circ}59'$ W. on a true line bet Secs 11 & 14Va. $13^{\circ}49' E$

7.00 Edge of Clear Creek Canon towards N.

19.40 West bank of Clear Creek Canon.

39.89 Set a limestone $15 \times 10 \times 8$ ins 10 ins in
the ground for $\frac{1}{4}$ Sec cor. marked
 $\frac{1}{4}$ cor N. face dug pits $18 \times 18 \times 12$ ins
E & W. of stone $5 \frac{1}{2}$ ft diam and
raised a mound of earth $\frac{1}{2}$ ft
high $3 \frac{1}{2}$ ft base along side.79.78 The cor to Secs 10. 11. 14 & 15
Land rolling and broken

Subdivisions T. 16 N. R. 14 E.

Chemis.

Soil 2^d rateTimber, scattering cedar and
cactus brush 79-78 lbs.

N. 0° 1' W. bet Secs 10 & 11

Pa. 13° 50' E

Over rolling ground.

40.00 Set a sandstone 16 X 12 X 4 in's 11 in's
in the ground for $\frac{1}{4}$ Sec Cor marked
 $\frac{1}{4}$ on W. face dug pits 18 X 18 X 12 in's
N & S of stone 5 $\frac{1}{2}$ ft dist and
raised a mound of earth 1 $\frac{1}{2}$ ft
high 3 $\frac{1}{2}$ ft base along side

80.00 Set a limestone 18 X 14 X 12 in's 12 in's
in the ground for Cor to Secs 2, 3,
10 & 11 marked with 5 notches on S.
and 2 notches on E. edges dug pits
18 X 18 X 12 in's in each sec 5 $\frac{1}{2}$ ft

Subdivisions T. 16 N. R. 14 E.

Chewis

dist. and raised a mound of earth
2 ft high $4\frac{1}{2}$ ft base along side.

Land rolling.

Soil 2^d rate

Timber, scattering cedar 80 chs.

N. $89^{\circ}59'$ E on a random line bet Secs 2 & 11

Va. $13^{\circ}50'$ E

Over rolling ground.

40.00 Set temporary $\frac{1}{4}$ Sec box.

79.80 Intersect N & S. line of the N. of
the box to Secs 1, 2, 11 & 12

Thence run

N. $89^{\circ}57'$ W. in a true line bet Secs 2 & 11

Va. $13^{\circ}50'$ E

39.90 Set a limestone $16 \times 12 \times 4$ ins 11 ins in
the ground for $\frac{1}{4}$ Sec box. marked $\frac{1}{4}$
on N. face, dug pits $18 \times 18 \times 12$ ins E & W

Subdivisions T. 16 N. R. 14 E

Chains.

of stone $5\frac{1}{2}$ ft dist. and raised a mound
of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base along a d^r
79.80 The cor to secs 2, 3, 10 & 11

Land rolling.

Soil 2^d rate

No timber.

N. 0° 1' W. on a true line bet Secs 2 & 3.

Pa. $13^{\circ} 51' E$

Over rolling ground.

35.50 Cross trail bears N E.

40.00 Set a limestone $16 \times 14 \times 4$ ins 11 ins in
the ground for $\frac{1}{4}$ Sec cor. marked
 $\frac{1}{4}$ on W. face, dug pits $18 \times 18 \times 12$ ins
N & S of stone $5\frac{1}{2}$ ft dist. and raised
a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
base along a d^r.

138.73 Intersect the Fourth Standard
Parallel North 7.54 chs West of the

Subdivisions T6 N. R. 14 E.

Chains

Standard bar to Secs 34 & 35 T₆ N. R. 14 & 15 E. where I set a lime stone 17 x 10 x 3 ins 12 ins in the ground for closing bar to Secs 2 & 3 marked with 2 notches on E and 4 notches on W face, dug pits 18 x 18 x 12 ins S. E & W. of stone 5 1/2 ft dist and raised a mound of earth 2 ft high 4 1/2 ft base along side
Land rolling.

Soil 2nd rate

Timber none.

Jan. 23. 1894

From the cor. to secs 3. 4. 33 & 34, on the south boundary of the township, hereinbefore described

From

N. 0° 2' W. bet Secs 33 & 34

Pa. 13° 50' E

Subdivisions T. 16 N. R. 14 E.

Chains

Through timber

40.00 Set a limestone 16 X 15 X 3 ins 11 ins
in the ground for 1/4 Sec Cor marked
1/4 on W. face

from which

A pinon 5 ins diam bears N. 13° 30' E.

89 lks dist. marked 1/4 S.B.T.

A cedar 12 ins diam bears S. 41° 30' W.

50 lks dist. marked 1/4 S.B.T.

80.00 Set a limestone 15 X 10 X 10 ins 10 ins
in the ground for cor to Secs 27, 28,

33 & 34. marked with notch on S.

and 3 notches on E edges from which

A Cedar 12 ins diam bears N 32° E 165 lks
dist. marked S. 16 N. R. 14 E. S. 27 B. T.

A Cedar 12 ins diam S 83° E 283 lks dist
marked S. 16 N. R. 14 E. S. 34 B. T.

A Cedar 16 ins diam S 50 1/2° W 197 lks dist.
marked S. 16 N. R. 14 E. S. 33 B. T.

A Cedar 6 ins diam bears N 12° W 200 lks dist
marked S. 16 N. R. 14 E. S. 28 B. T.

Land rolling.

Soil 2^d and 3^d rate

Timber, cedar and pinon 80 chs.

Subdivisions T. 16 N. R. 14 E

Chamis

S. 89° 58' E on a ran down line bet Secs 27 & 34

Pa. 13° 49' E

Over rolling ground.

40.00 Set temporary 1/4 Sec Cor.

79.91 Intersect N & S line 11 Mts S. of
the cor to Secs 26, 27, 34 & 35

Thence I run

S. 89° 57' W. on a true line bet Secs 27 & 34

Pa. 13° 49' E

35.00 Enter scattering timber.

39.96 Set a post 3 ft long 3 ins square with
marked stone 12 ins in the ground
for 1/4 Sec Cor. marked 1/4 S on N.
face

from which

A cedar 10 ins diam bears N. 59° W. 28 Mts
dist. marked 1/4 S.B.T.

A cedar 15 ins. diam bears S. 18° E 24 Mts
dist marked 1/4 S.B.T.

Subdivisions T. 16 N. R. 14 E.

Chains

79.91 The cor to Secs 27, 28, 33 & 34

Land rolling

Soil 2^d rate

Timber, scattering cedar and pinon 47.91 chs

N. 0° 2' W. bet Secs 27 & 28

Va 13° 49' E

Over rolling ground.

40.00 Set a limestone 15x10x4 ins. 10 ins.

in the ground for $\frac{1}{4}$ Sec low marked $\frac{1}{4}$ on W. face from which

a cedar 16" diam brs. S 16° E

110 lbs dist. marked $\frac{1}{4}$ S. B. 5

a Pinon 10" diam brs. S 21° W

65 lbs dist. marked $\frac{1}{4}$ S. B. 5

56.00 Bank of gully and descend

59.00 Center of bottom and trail corner

S. W. Ascend

61.40 North bank of gully.

80.00 Set a sandstone 15x10x4 ins 10 ins

Subdivisions T. 16 N. R. 14 E.

Chains

in the ground for cor to secos 21. 22
27 & 28. marked with 2 notches on S
and 3 notches on E. edges and raised
a mound of about $1\frac{1}{2}$ ft high 2 ft
base along side. Pits & impracticable.
A pinus 10" diam brs 880 42 W 130 lbs dist
marked T. 16 N. R. 14 E S. 28. B. 5.
Land rolling. a cedar 6" diam brs
7133 20 79 lbs dist
Soil 3^d rate marked S. 16 N. R. 14 E
S. 21 B. 5.
Timber none.

N. $89^{\circ}57'E$ on a random line bet Secs 22 & 27

Va. $13^{\circ}49'E$

Over rolling ground.

40.00 Set temporary $\frac{1}{4}$ section.

79.78 Intersect. N & S line 8 ths S. of the
cor to Secs 22. 23. 26 & 27

Hence I run

S. $89^{\circ}54'W$ on a true line bet Secs 22 & 27

Va. $13^{\circ}49'E$

39.89 Set a limestone $14 \times 10 \times 8$ in 10 in

Subdivision J. T. N. R. 14 E.

Chains

in the ground for $\frac{1}{4}$ Sec Cor marked
 $\frac{1}{4}$ on N. face and raised a mound
 of stone 1 $\frac{1}{2}$ ft high 2 ft base along side
 Pits unpracticable

From which

A cedar 15 ins diam bears S. 58° E 204 $\frac{1}{2}$
 dist. marked $\frac{1}{4}$ S. B. F.

No other bearing trees within limits

79-78 The cor to Secs 21, 22, 27 & 28.

Land rolling.

Sail 2^d rate

Timber, a few scattering cedar trees.

N. 0° 2' W bet Secs 21 & 22

Pa 13° 48' E

Over broken ground

40.00 Set a limestone 15 X 8 X 8 ins 10 ins in
 the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$
 on W. face and raised a mound

Subdivision T. 16 N. R. 14 E.

Chanis

of stone $1\frac{1}{2}$ ft high 2 ft base along side
Pits impracticable.

63.00 Descend into gulch course N.W.

65.00 Leave gulch

78.40. Edge of Clear Creek course N. The bank
being very steep I establish a witness
cor at this point by marking a lime
stone in place 4x1 ft and 4 ft above
ground N. E for witness cor to Secs
^{marked}
15. 16. 21 & 22 with 3 notches on S and
E edges and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base along side.
Land rough and broken
Soil 2^d and 3^d rate
Timber scattering cedar

N. $89^{\circ} 54' E$ on a random line bet Secs 15 & 22
from cor. point

Va. $13^{\circ} 49' E$

Over rolling ground

Subdivisions T. 16 N. R. 14 E.

Chaisco

- 40.00 Set temporary $\frac{1}{4}$ Sec cor.
- 79.97 Intersect N & S line 16ths N. of the
cor to Secs 14. 15. 22 & 23
Thence I run
N. $89^{\circ}59'$ W. on a true line bet Secs 15 & 22.
Ta. $13^{\circ}49'E$
- 39.99 Set a limestone $20 \times 12 \times 4$ ins 15 ins
in the ground for $\frac{1}{4}$ Sec cor. marked $\frac{1}{4}$
on N. face and raised a mound of
stone $1\frac{1}{2}$ ft high 2 ft base alongside
It is impracticable. Cañon.
- 78.00 Edge of Clear Creek ^{Cañon} bears E & W
and descend
- 80.00 The ^{pt} cor to Secs 15. 16. 21 & 22.
Land nothing 78chs.
Soil 2^d and 3^d rate
Timber none.

Subdivisions T. 16 N. R. 14 E.

Chains

N. 0° 2' W. bet Secs 15 & 16

Va 13° 49' E

Over very rough and broken ground.

The Canon of Clear Creek being
impracticable for chaining I send
a flag across to the nearest practicable
point on the line bet Secs 15 & 16

I then run a base line 20 chs from
the Witness Cor. to Secs 15-16-21 & 22

to a point whence flag bears N. 78° 46'

W. which gives for distance across

along x base

$$\log \cotang = 0.46880$$

$$\log \text{ base} = 1.30103$$

$$\hline 1.76983 = 58.87 \text{ chs}$$

The whole distance from cor to Secs 15-

16-21 & 22 will therefore be 58.87 - 1.60 chs

making

57.27 Where I mark a Limestone boulder

in place 8 x 10 x 12 ft above ground

for Witness Cor. to 1/4 Sec Cor W-C

and X at exact corner points

Subdivision T. 16 N. R. 14 E.

Chains

with 4 on W. face and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base along side.

Pits impracticable

80.00 Set a limestone $15 \times 14 \times 1\frac{1}{4}$ ins 10 ins in
the ground for cor to Secs 9, 10, 15 & 16
marked with 4 notches on S. and
3 notches on E. edges, dug pits 18×18
 $\times 12$ ins in each Sec. $5\frac{1}{2}$ ft diam and
raised a mound of earth 2 ft high
 $4\frac{1}{2}$ ft base along side.

~~No bearing trees within limits.~~

Land rough and broken 57.27 chs
believe, rolling, 22.73 chs.

Soil, worthless and 3^d rate
Timber a few cedar trees.

S. $89^{\circ} 59' E$. on a random line bet Secs 10 & 15

Va. $13^{\circ} 51' E$

Over very rough ground.

Subdivisions T. 16 N. R. 14 E.

Chains.

The ground along the line being too rough for good chaining I run an offset $N 89^{\circ} 58' W$. 20 chs thence I run $S 89^{\circ} 59' E$ ^{on offset line} Va. $13^{\circ} 51' E$

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

79.83 Intersect N & S line 20 chs 3 chs N of the cor to Secs 10, 11, 14 & 15 Thence I run $S 00^{\circ} 1' E$ 20 chs to cor to Secs 10, 11, 14 & 15. Thence I run

$N 89^{\circ} 58' W$ on a true line bet Secs 10 & 15
Va. $13^{\circ} 51' E$.

7.80 Enter cañon ⁵⁷ course South

20.00 leave cañon

35.00 Reenter cañon course E. S. E

39.92 ~~Make an offset 20 chs S. where~~
I mark a limestone boulder 4×7
 $\times 2$ ft above ground with X at exact corner point and $\frac{1}{4}$ on N. face for $\frac{1}{4}$ Sec cor. and raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base along side. It is impracticable. I now set

Subdivisions T. 16 N. R. 14 E.

Whereas

off 20 chs N. ^{0° 2' W} again and continue
N. 89° 58' W. on offset line

62.00 Leave Canon. 20 chains South

79.83 Run an offset South ^{0° 2' E} 20 chs to
cor of Secs 9, 10, 15 & 16.

Land very rough and broken
Soil 4th rate and worthless
Timber, very sparse.

N. 0° 2' W. bet Secs 9 & 10

Pa. 13° 50' E

Over rolling ground

20.40 Trail course N.E.

28.00 Draw and trail N.E. course.

34.50 Cross trail course N.E.

40.00 Set a limestone 16 x 10 x 3 ins 4 ins
in the ground for 1/4 Sec cor marked
1/4 on W. face

from which

Subdivisions T. 16 N. R. 14 E.

Chains

1 cedar 16 ins diam bears N. 35° 30' W.
48 lbs dist. marked $\frac{1}{4}$ S. B. T.

1 cedar 15 ins diam bears S. 36° E. 146 lbs
dist marked $\frac{1}{4}$ S. B. T.

80.00 Set a sandstone 18 x 16 x 3 ins 12 ins
in the ground for cor to Secs 3, 4, 9
& 10 marked with 5 notches on S and
3 notches on E. edges, dug pits 18 x 18
x 12 ins in each Sec 5 $\frac{1}{2}$ ft. dist and
raised a mound of earth 2 ft high
4 $\frac{1}{2}$ ft bear along side
~~No bearing trees within bounds.~~

Land rolling

Soil 2^d rate

Timber, scattering juniper & cedar.

80 chs.

Jan. 24. 1894

Subdivision T. 16 N. R. 14 E.

Chain no.

S $89^{\circ}58'E$ on a random line bet Secs 3 & 10Dc. $13^{\circ}51'E$

Over rolling ground.

40.00 Set temporary $\frac{1}{4}$ Sec. cor79.79 Intersect N & S. line 10 Wks N of
the cor to Secs 2. 3. 10 & 11

Thence I run

N. $89^{\circ}54'W$. on a true line bet Secs 3 & 10Dc. $13^{\circ}50'E$ 39.89 Set a sandstone $18 \times 18 \times 5$ ins 12 ins
in the ground for $\frac{1}{4}$ Sec cor marked
 $\frac{1}{4}$ on N. face, dug pits $18 \times 18 \times 12$ ins
E & W. of stone $5\frac{1}{2}$ ft dist and raised
a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
base along side~~to be set in the ground~~

79.79 The cor to Secs 3. 4. 9 & 10

Land rolling.

Soil 2^d rate

Subdivisions T. 16 N. R. 14 E.

Chambers

Timber. a few trees.

N. 0° 2' W on a true line bet Secs 33 & 34

Va. 13° 50' E.

Over rolling ground.

5.45 Cross trail bears N E.

5.65 Cross trail bears N E.

40.00 Set a limestone 14 x 12 x 6 in 10 in
in the ground for $\frac{1}{4}$ Sec Cor. marked
 $\frac{1}{4}$ in W face, dug pits 18 x 18 x 12 in
N & S. of stone 5 $\frac{1}{2}$ ft dia and raised
a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft
base along side.

52.00 Cross trail bears N E.

140.50 Intersect the Fourth Standard
Parallel North 6.44 chs West of
the Standard Cor. to Secs 33 & 34
Tps 17 N R. 14 E. where I set a
Volcanic stone 14 x 10 x 8 in 12 in

Subdivision T. 16 N. R. 14 E.

Chairs

in the ground for closing box to Secs
3 & 4 marked C.C. with 3 notches
on E and W. faces, dug pits 18 x 18
x 12 ins S. E. & W. of at one 5 1/2 ft
dial and raised a mound of
earth 2 ft high 4 1/2 ft base along side
~~No trees within limits.~~

Land rolling.

Soil 2^d rate

Timber, none.

Jan. 25. 1894

From the cor to Secs 4, 5, 32 & 33 on
the South boundary of the township
heretofore described

S. 1/4

No. 2' W bet Secs 32 & 33.

Va 13° 49' E

Through timber

40.00 Set a limestone 14 x 10 x 4 ins 10 ins

Subdivisions T. 16 N. R. 14 E.

Chains.

in the ground for $\frac{1}{4}$ Sec box. marked
 $\frac{1}{4}$ on W. face

from which

A cedar 30 ins. diam bears S. 65° W. 40 lbs
 dist. marked $\frac{1}{4}$ S.B.T.

A pinon 8 ins. diam bears N. $41^{\circ} 30'$ E.
 18 lbs dist. marked $\frac{1}{4}$ S.B.T.

80.00 Set a limestone $16 \times 14 \times 8$ ins 11 ins in
 the ground for box to Secs 28. 29. 32 &
 33 marked with 1 notch on S. and
 4 notches on E edges

from which

A cedar 14 ins. diam bears N. $12^{\circ} 30'$ W
 158 lbs dist. marked T. 16 N. R. 14 E S. 29 B.T.

A cedar 15 ins. diam bears N 39° E. 105 lbs
 dist. marked T. 16 N. R. 14 E S. 28 B.T.

A cedar 15 ins. diam bears S. $69^{\circ} 30'$ E 110 lbs
 dist. marked T. 16 N. R. 14 E S. 33 B.T.

A cedar 20 ins diam bears S. 26° W. 160 lbs

Subdivision T. 16 N. R. 14 E

Chains

dist marked T. 16 N. R. 14 E S. 32 B.S.

Land rolling.

Soil 2^d rate.

Timber, cedar and pinon 80 Cho.

~~Beautifully timbered land 80 Cho~~

S. 89° 58' E on a random line bet Secs 28 & 33

Va 13° 49' E

Over rolling ground.

40.00 Set temporary $\frac{1}{4}$ Sec Cor.79.86 Intersect N.E. line of the S. of the
cor to Secs 27, 28, 33 & 34

Thence I run

S. 89° 59' W. on a true line bet Secs 28 & 33

Va. 13° 49' E

39.93 Set a limestone 18 x 11 x 5 ins 12 ins
in the ground for $\frac{1}{4}$ Sec Cor. marked
 $\frac{1}{4}$ on N. face; dug pits 18 x 18 x 12 ins
E & W. of stone 5 $\frac{1}{2}$ ft dist and
raised a mound of earth 1 $\frac{1}{2}$ ft

Subdivisions T. 16 N. R. 14 E.

Chains.

high 3 1/2 ft base at ridge end.

76.50 Cross road bears NW

79.86 The cor to Secs 28, 29, 32 & 33.

Land rolling.

Soil 2^d and 3^d ratesTimber ^{very} scattering cedar

N. 0° 2' W. bet Secs 28 & 29

Dip. 13° 49' E

Over rolling ground.

3.50 Cross road course NW.

5.00 Descend into draw.

12.50 Bottom where I cross to old course NW

13.75 Ascend.

25.00 Top of mesa.

40.00 Set a li. monument 18 x 16 x 12 in's 12 in's
in the ground for 1/4 Sec Cor marked
1/4 on W. face

from which

Subdivisions T. 16 N. R. 14 E.

Charuo

A cedar 20 ins diam bears N 49° W
116 lbs dist. marked $\frac{1}{4}$ S. B. T.

A pinon 8 ins diam bears S. 15° 30' E
69 lbs dist. marked $\frac{1}{4}$ S. B. T.

80.00 Set a limestone 15 x 10 x 4 ins 10 ins
in the ground for cor to Secs 20-21
28 & 29 marked with 2 notches on
S. and 4 notches on E edges and
raised a mound of stone $1\frac{1}{2}$ ft
high 2 ft base along side. This is
practicable

from which

A cedar 12 ins diam bears N. 44° W.
104 lbs dist. marked T. 16 N. R. 14 E. S. 20 B. T.

No other bearing trees within limits.

Land rolling.

Soil 2^d rate

Timber, Cedar and pinon 40 cho
heavily timbered land 40 cho

Subdivision T. 16 N. R. 14 E.

Chains

At 12 M. May 15 1894 I took an observation on the sun and find my instrument in perfect adjustment
 Latitude $34^{\circ}46'N.$ $Pa.$ $13^{\circ}50'E.$

$N. 89^{\circ}59'E.$ on a random line bet Secs 21 & 28
 $Pa.$ $13^{\circ}50'E.$

Over rolling ground

- 40.00 Set temporary $\frac{1}{4}$ Sec cor.
- 79.87 Intersect N & S line 11 lks S. of the cor to Secs 21. 22. 27 & 28
 Thence I run
 $S. 89^{\circ}54'W.$ on a true line bet Secs 21 & 28
 $Pa.$ $13^{\circ}50'E.$
- 17.87 Descend into canon course N.E.
- 22.37 Bottom and trail course N.E. Ascend
- 24.87 Top of bank of canon.
- 39.94 Set a limestone $18 \times 10 \times 3$ ins 12 ins in

Subdivision T. 16 N. R. 14 E.

Chasms

the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$
 on N. face, dug pits 18 X 18 X 12 ins in
 each Sec 5 $\frac{1}{2}$ ft dist. and raised a
 mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base
 along side.

~~No bearing trees within limestone~~

79.87 The cor to Secs 20, 21, 28 & 29.

Land rolling

Soil 2^d and 3^d rate

Timber, scattering cedar

N. 0° 2' W. bet Secs 20 & 21

N. 13° 50' E

Over broken ground.

40.00 Set a limestone 16 X 14 X 6 ins 11 ins in
 the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$
 on W face

from which

A cedar 15 ins diam bears S. 61° 30' W.

Subdivisions T. 16 N. R. 14 E

Chains.

39 lks dist. marked $\frac{1}{4}$ S. B. T.

No other bearing trees within limits

47.50. Edge of Clear Creek Canon bears $E 86^\circ$

The canon here forms a descent of about 400 ft and chaining became impossible. I therefore send a flag across to nearest accessible point on the line bet Secs 20 & 21 I then run a base line along South bank of canon 15 chs to a point where flag bears $N 19^\circ 26' E$. which gives for distance across canyon \times base

by tangent	0.45230
by base	1.17609

 $1.62839 = 42.50 \text{ chs.}$

The whole distance from Edge of Canon on South bank will therefore be 47.50×42.50 making

90.00 Where I mark the bluff of the bank with \times at exact corner point for

Subdivisions T. 16 N. R. 14 E.
Chains.

Witness Cor of Secs 16. 17. 20 & 21
W. C. with 3 notches on S and
4 notches on E edges and raised
a mound of atoms $1\frac{1}{2}$ ft high 2 ft
base along side. Pits in prairie
land, first rolling then rough
and broken

Soil 3^d rate and worthless.

Timber, scattering cedars

N. $89^{\circ} 54' 6''$ on offset line bet Secs
16 & 21

Pa. $13^{\circ} 50' E$

Over rough ground from the
Witness cor to Secs 16. 17. 20 & 21.

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

74.80 Make an offset S. $0^{\circ} 4'$ E 11.60 chs thence
continue on offset line edge of Clear Cr.

79.82 Intersect N & S line 8 $\frac{1}{4}$ Sec S. of the

For remainder of notes see
Book # 232.

BOOK 225