

Book V

Sub 1

W.R. Fitzgerald Deputy Surveyor.

T. *21 North*, R. *28 East*,

Gila & Salt River Meridian.

mapped,

No-409

FIELD NOTES

OF

BOOK 409

THE SUBDIVISION LINES OF

Township *21 N.*, Range *28 E.*,

G. & S.R. Meridian.

BY

W.R. Fitzgerald Deputy Surveyor.

Under his Contract of *July 17*, 188*2*.

Survey Commenced *Oct. 30*, 188*2*,

Survey Completed *Nov. 15*, 188*2*.

No-409

Platted,
Copied for Washington,
Copied for Register,

409

No - 409

W. R. Fitzgerald Deputy Surveyor.

T. 21 N., R. 28 E.,
G. & S. R., Meridian.

FIELD NOTES

OF

THE SUBDIVISION LINES OF

Township 21 N., Range 28 E.,
G. & S. R., Meridian.

BY

W. R. Fitzgerald, Deputy Surveyor.

Under his Contract of July 17, 1882,

Survey Commenced Oct. 30, 1882,

Survey Completed Nov. 12th 1882,

Platted,
Copied for Washington,
Copied for Register,

1A
BOOK 409

Township 21 North, Range 28 East,
Sidon and Salt River Basins Meridian.

| | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|
| 6 | 60 | 5 | 44 | 4 | 33 | 3 | 22 | 2 | 11 | 1 |
| 59 | | 58 | | 43 | | 32 | | 21 | | 10 |
| 7 | 57 | 8 | 42 | 9 | 31 | 10 | 20 | 11 | 9 | 12 |
| 56 | | 55 | | 41 | | 30 | | 19 | | 8 |
| 18 | 54 | 17 | 40 | 16 | 29 | 15 | 18 | 14 | 7 | 13 |
| 53 | | 52 | | 39 | | 28 | | 17 | | 6 |
| 19 | 51 | 20 | 38 | 21 | 27 | 22 | 16 | 23 | 5 | 24 |
| 50 | | 49 | | 37 | | 26 | | 15 | | 4 |
| 30 | 48 | 29 | 36 | 28 | 25 | 27 | 14 | 26 | 3 | 25 |
| 47 | | 46 | | 35 | | 24 | | 13 | | 2 |
| 31 | 45 | 32 | 34 | 33 | 23 | 34 | 12 | 35 | 1 | 36 |

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Township.....

Range.....

Meridian.

Township

No-409

Range

BOOK 409

B.

Meridian.

For preliminary notes
and description of instrument
see Book No. 10

Survey made with ~~Rath's~~ Patent
~~Improved~~ Solar Compass, made by
Otto Jannel of Cassel, Germany
in 1881.

Before commencing to subdivide,
this Sp., I made a change of 5 minutes
in the latitude arc of my compass
by subtracting same from the
reading previously given, and
at noon verified and corrected
same by observation on the sun.
I also further tested instrument
by reversing - and proceeded
to run as follows: -

1st Township

21 N.

Range

28 E.

Gila and Salt River Meridian.

Chains

Standard

of 1878, which is

From the corner to Sections 35, 36, ~~1 and 2~~ on the South boundary, a post,

4 ins. square, set firmly in the ground
marked S.C. T. 21 N. R. 28 E. on N. S. 36
on E. and S. 35 on W. faces, with 1 notch
on E. and 5 notches on W. edges, from which
A Cedar, 11 ins. dia., bears N. 36° E., 51 lks. dist.,
marked T. 21 N. R. 28 E. S. 36 B. J.

A Pine, 6 ins. dia., bears S. 54° E., 39 lks.
dist., marked T. 20 N. R. 28 E. S. 10 B. J.

A Cedar, 20 ins. dia., bears N. 20° W., 74 lks.
dist., marked T. 21 N. R. 28 E. S. 35 B. J.
From North bet. Secs. 35-36. Va. 14° 15' E.

Descend gradually.

40.00 Set post, 3 ft. long, 3 ins. dia., with marked
stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor.,
marked $\frac{1}{4}$ S. on N. face, 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 around post.

8.0.00 Set Sandstone, 12 x 12 x 9 ins., 8 ins. in
the ground, for Cor. to Secs. 25-26-35-36,
marked with 1 notch on S. & 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.
Lana rolling. Soil 2nd rate.
vegetation, *Bimchyrus*.

Township

21 N,

Range

28 E,

G. & S. R.

Meridian.

Chains

East, on a random line between Sections 25 and 36.

Variation

14° 22'

East.

Descend gradually,

19.00 Upper Emigrant Spring, bears North,
23.00 across Road, bears N. & S. in Wash, 20 lks,
wide, Course North,

40.00 Set temporary 1/4 sec. cor.

So. 24 Intersect C. P. of Tp. 12 lks South of
cor. to secs. 25-26 ~~25-30~~ ³⁵⁻³¹, which is a
post, with marked stone, set firmly in
the ground, and marked S. 27 N. S. 30
on N.E., R. 29 E. S. 31 on S.E., S. 36, R. 28 E.,
on S.W. and S. 25 on N.W. faces, with
notch on S. and 5 notches on N. edges,
pits, 18 x 18 x 12 ins. in each Sec., 5 1/2 ft.
dist, and mound of earth, 1 1/2 ft. high.
1 1/2 ft. base around post,

From this cor. run S. 89° 55' N, on a
true line bet. secs. 25-36. Ta. 14° 15' E.

40.12 Set post 3 ft. long, 3 ins. dia, with marked
stone, 12 ins. in the ground, for 1/4 sec. cor.
marked 1/4 S. on N. face, dug pits, 18 x 18 x 12 ins.
E. & W. of post, 5 1/2 ft. dist, and raised a mound
of earth 1 1/2 ft. high, 3 1/2 ft. base around post,

Upper Emigrant Spring bears N. 29 3/4° W.
Lower Emigrant Spring bears S. 25 1/2° W. S. 8 m. dist.
and Head & Spring bear S. 41 1/2° W. about 22.00 chs. dist.

So. 24 The cor. to secs. 25-26-35-36.

Land rolling.
Timber, Cedar.

Soil 2nd paley.
Vegetation, bunchgrass.

Township

21 N.,

Range

28 E.,

G. & S. R.,

Meridian.

Chains

North, between Sections 25 and 26.

Variation

14° 22'

East.

Descend gradually.

40.00 Set post, 3 ft. long, 3 ins. dia., with marked stone, 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on N. face, dug pits, 18 x 18 x 12 ins. N. & S. of post, 5 1/2 ft. dist., and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base around post.

71.00 Cross Road bears N.E. & S.W.

80.00 Set post, 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for Cor. to Secs. 23-24-25-26, marked S. 21 N. S. 24 on N.E., R. 28 E., S. 25 on S.E., S. 26 on S.W. and S. 23 on N.W. faces, with 2 notches on S. & 1 notch on E. edges, dug pits, 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth, 2 ft. high, 4 1/2 ft. base around post. Land rolling.

Soil 2nd class.

Timber, Cedar.

Vegetation, Bunchgrass.

Township

21 N₇

Range

28 E

G. & S. R. Meridian.

Chains

East, on a random line between Sections 24 and 25.

Variation

114° 22'

East.

Ascend gradually.

11.14 Cross Road, bears N. 60° E. & S. 60° W.

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

80.01 Intersect E. B. of Sp., 18 lks. S. of cor. to Secs.

19-24-25-30, a post, 4 ins. square, with
~~marked stone~~, set firmly in the ground,
 and marked S. 21° N. S. 19° on N. E., R. 24 E.,
 S. 30 on S. E., R. 28 E. S. 25 on S. W. and
 S. 24 on N. W. faces, with 4 notches on N.
 and 2 notches on S. edges, pits, 18 x 18
 x 12 ins. in each Sec., 5 $\frac{1}{2}$ ft. dist., and mound
 around 2 ft. high, 4 $\frac{1}{2}$ ft. base around post,
 from this cor. run S. 89° 52' W. on a true
 line bet. secs. 24-25. Pa. 14° 15' E.

40.01 Set post, 3 ft. long, 3 ins. dia. with marked
 stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor.,
 marked $\frac{1}{4}$ S. on N. face, dug pits, 18 x 18
 x 12 ins. E. & W. 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 around post.

80.01 The cor. to secs. 23-24-25-26.

Land rolling, Soil 2nd rate.

Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & S. R.

Meridian.

Chains

North, between Sections 23 and 24.

Variation $15^{\circ}22'$ East.

Descend gradually.

40.00 Set post, 3 ft. long, 3 ins. dia., with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Co., marked $\frac{1}{4}$ S. on N. face, dug pits, $18 \times 18 \times 12$ 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 around post.

80.00 Set post, 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for Co. to Secs. 13-14-23-24, marked S. 21 N. S. 13 on N.E., R. 28 E. S. 24 on S.E., S. 23 on S.W. and S. 14 on N.W. faces, with 3 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 2 ft. high, $4\frac{1}{2}$ ft. base around post.

Land rolling.
Soil 2nd rate.
Vegetation, bunchgrass.

Township

21 N.,

Range

28 E.,

G. & S. R. Meridian.

Chains

East, on a random line between Sections 13 and 24.

Variation

14° 22'

East.

Ascend gradually.

- 40.00 Set temporary $\frac{1}{4}$ sec. cor.
- 76.81 Cross Trail, bears N. 30° E. & S. 30° W.
- 79.98 Intersect E. B. of Sp., 10 lbs. N. of cor. to
secs. 13-18-19-24, which is a post, 4 ins.
square, with ~~marked stone~~, set firmly
in the ground and marked S. 21 N. S. 18
on N. E., R. 29 E. S. 19 on S. E., R. 28 E. S. 24 on
S. W. and S. 13 on N. W. faces, with 3 notches
on N. & S. edges, pits, 18 x 18 x 12 ins. in each
dig, 5 $\frac{1}{2}$ ft. dist. and earth mound 2 ft.
high, 4 $\frac{1}{2}$ ft. base around post.
From this corner, run N. 89° 56' W.,
on a true line bet. secs. 13-24. Va. 14° 15' E.
- 39.99 Set post, 3 ft. long, 3 in. dia., with marked
stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor.,
marked $\frac{1}{4}$ S. on N. face, dug pits,
18 x 18 x 12 ins. E. & W. 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 around post.
- 79.98 True cor. to secs. 13-14-23-24.
Land rolling, Soil 2nd rate,
Vegetation, Bluegrass.

Township

21 N.,

Range

28 E.,

G. & S. R.,

Meridian.

Chains

North, between Sections 13 and 14.

Variation

14° 22' East.

Descend,

- 3.70 Across Rio Puerco River, 100 yds. wide, runs
S. 44° W. and ascend,
- 22.90 Telegraph line, bears N. 63 $\frac{1}{4}$ ° E., & S. 63 $\frac{1}{4}$ ° W.
- 23.79 Atlantic & Pacific R.R. bears same.
- From this point Section House bears S. 64 $\frac{1}{2}$ ° W.
- 40.00 Set post, 3 ft. long, 3 ins. dia., with marked
stone, 12 ins. in the ground, for 1 $\frac{1}{4}$ Sec.
Co., marked 1 $\frac{1}{4}$ S. on W. face, dug
pits, 18 x 18 x 12 ins. N. & S. of post,
5 ft. dist, and raised a mound
of earth, 1 $\frac{1}{2}$ ft. high, 3 ft. base around
post.
- 80.00 Set Sandstone, 12 x 9 x 6 ins., 8 ins. in
the ground, for Co. to Secs. 11-12-13-14,
marked with 4 notches on S. and
1 notch on E. edges, dug pits, 18 x 18 x
12 ins. in each Sec., 5 ft. dist, and
raised a mound of earth, 2 ft. high,
4 ft. base alongside.
- Same mountainous,
Soil 3rd rate,
Timber, Cedar,
Vegetation, Bunchgrass.

Township

21 N.,

Range

28 E.,

G. & S. R.,

Meridian.

Chains

East, on a random line between Sections 12 and 13.

Variation

14° 22'

East.

Ascend

10.00 Top of Ridge, bears N. 70° E. & S. 10° W. & descend,

40.00 Set temporary $\frac{1}{4}$ sec. cor.74.60 Cross Atlantic and Pacific RR.
bears N. 52 $\frac{1}{4}$ ° E. & S. 52 $\frac{1}{4}$ ° W.

75.60 Telegraph line, bears same

80.14 Intersect C. B. of Sp., 28 lks. S. of cor. to Secs.

7-12-13-18, which is a Sandstone, 17x10x6 ins,

set firmly in the ground, and marked

with 2 notches on N. & 4 notches on S. edges,

pits, 18x18x12 ins, in each Sec. 5 $\frac{1}{2}$ ft. dist

from stone, with each mound 2 ft. high,

11 $\frac{1}{2}$ ft. base along side.

From this corner, run S. 59° 48' W. on

a true line bet. Secs. 12-13. To 114.58.

110.07 Set post, 3 ins. dia., 3 ft. long, with marked

stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. cor.,marked $\frac{1}{4}$ S. on N. face, dug pits, 18x18x12 ins, E. & W. of post, 5 $\frac{1}{2}$ ft. dist, andraised a mound of earth, 1 $\frac{1}{2}$ ft. high,3 $\frac{1}{2}$ ft. base around post.

80.14 The cor. to Secs. 11-12-13-14.

Land mountainous. Soil 3rd rate,

Timber, Cedar. Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & S. R. Meridian.

Chains

North, between Sections 11 and 12.

Variation $114^{\circ} 22'$ East.

Ascend.

12.60 Top of Ridge, bears N.E. & S.W. ad descend,

40.00 Set post, 3 ft. long, 3 ins. dia., with
marked stone, 12 ins. in the ground,
for 1/4 Sec. Cor., marked 1/4 S. on N. face,
dug pits, 18 x 18 x 12 ins. N. & S. of post,
5 1/2 ft. dist., and raised a mound
of earth, 1 1/2 ft. high, 3 1/2 ft. base around
post.

58.70 Cross low Sag and ascend,

80.00 Set post, 4 ft. long, 4 ins. square with
marked stone, 12 ins. in the ground,
for Cor. to Secs. 1-2-11-12, marked
S. 21 N. S. 1 on N.E., R. 28 E. S. 12 on S.E.,
S. 11 on S.W. and S. 2 on N.W. faces,
with 5 notches on S. and 1 notch on
E. edges, dug pits, 18 x 18 x 12 ins.,
in each Sec. 5 1/2 ft. dist., and raised
a mound of earth 2 ft. high, 4 1/2 ft.
base around post.Land mountainous, Soil 3rd rate,
Timber, cedar. Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & S. R.

Meridian.

Chains

East, on a random line between Sections 1 and 12.

Variation

14° 22'

East.

Descent.

40.00

Set temporary $\frac{1}{2}$ sec. cor.

79.93

Intersect C. P. of Tp, 5 lks. North of
cor. to secs. 1-6-7-12, which is a Sand
stone, 12x12x7 ins, set firmly in the
ground and marked with 1 notch on
N. and 5 notches on S. edges, pits,
18x18x12 ins. in each sec., 5 $\frac{1}{2}$ ft. dist
with earth mound 2 ft. high, 4 $\frac{1}{2}$ ft.
base alongside.

From this corner, run S. 89° 58' W,
on a true line bet. secs. 1-12,

Pa. 14° 15' E.

39.97

Set post, 3 ft. long, 3 in. dia., with
marked stone, 12 ins. in the ground,
for $\frac{1}{4}$ Sec. Cor, marked $\frac{1}{2}$ S. on N. face,
dug pits, 18x18x12 ins. E. & W. 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 around post.

79.93

The cor. to secs. 1-2-11-12.
Land mountainous. Soil 3rd rate.
Timber, Cedar. Vegetation, Birchgrass.

11 Township

21 N.

Range

28 E.

G. & S. R.

Meridian.

Chains

North, on a random line between Sections 1 and 2.

Variation

114° 22'

East.

Ascend.

40.00

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

79.74

Intersect N. P. of Sp., 31 lks. East of cor. to secs. 1-2-35-36, which is a post 11 ins. square, with mark set firmly in the ground, and marked

122 N. S. 36 on N.E., R. 28 E. S. 1 on S.E.

1.21 N. S. 2 on S. W. & S. 35 on N. W. faces, with 1 notch on E. and 5 notches on N. edges, pits, 18 x 18 x 12 ins. in each Sec. &

Earth m. 2 ft. high, $4\frac{1}{2}$ ft. base around post.

From this corner, run S. 13° E., on a true line bet. secs. 1-2. Va. 114° 22' E.,

39.74

Set post, 3 ft. long, 3 ins. dia., 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face, from which

A Cedar, 7 ins. dia., bears N. 40° E., 116 lks. dist., marked $\frac{1}{4}$ S. P. S. - No other tree within limits, dug pits, 18 x 18 x 12 ins.

N. & S. of post, $5\frac{1}{2}$ ft. dist., raised a mound of earth, $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base around post.

79.74

Land mountainous. Soil 3rd rate. Timber, Cedar, Vegetation, Pines, grass. Examined my instrument & ground, if correct, M. R. Fitzgerald, Oct. 30, 1852.

Township

21 N.

BOOK 409

Range

28 E.

12

G. & S. R. Meridian.

From the ^{Standard} Cor. to Secs. 34-35, on S. Rd. 4
 a post, 4 ins. square, with marked stone
 set firmly in the ground and marked S.C.
 S. 21 N., S. 28 E. on N., S. 35 on E.
 and S. 34 on W. faces, with 2
 notches on E. and 4 notches on W. edges, pits
 18x18x12 ins. N.E. & S.W. of post, 5 1/2 ft. dist, and
 each mound, 2 ft. high, 4 1/2 ft. base around
 post, Run 7100 ft. bet. Secs. 34-35.
 Pa. 14° 15' E.

Descend gradually.

40.00 Set post, 3 ft. long, 3 ins. dia, with marked
 stone 12 ins. in the ground, for 1/4 Sec. Cor.,
 marked 1/4 S. on W. face, dug pits, 18x18x12 ins.
 N. & S. of post, 5 1/2 ft. dist, and raised
 a mound of earth, 1 1/2 ft. high, 3 1/2 ft.
 base around post.

70.60 Cross Road, bears N.E. & S.W.

80.00 Set Sandstone 15x8x4 ins, 10 ins,
 in the ground, for Cor. to Secs. 26-27-34-35,
 marked with notch on S. and 2 notches
 on E. edges, dug pits, 18x18x12 ins. in
 each Sec., 5 1/2 ft. dist, & raised a
 mound of earth, 2 ft. high, 4 1/2 ft. base
 alongside.

Land rolling, Soil 2nd rate,
 Vegetation, Birchpass.

Township

21 N.

Range

28 E.

G. & S.R.

Meridian.

Chains

East, on a random line between Sections 26 and 35.

Variation

 $14^{\circ} 22'$

East.

Descend gradually.

- 8.47 Cross Road, bears N.E. & S.W. 1
 46.00 Set temporary $\frac{1}{4}$ Sec. Cor.
 79.96 Intersect N. & S. line, 31 lks. South
 of cor. to secs. 25-26-35-36, from
 which corner, run S. $89^{\circ} 47' N.$, on
 a true line bet. secs. 26-35.
 Va. $14^{\circ} 22' E.$
- 39.98 Set Sandstone, $15 \times 10 \times 4$ 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, $3 \frac{1}{2}$ ft. base alongside.
- 79.96 The cor. to secs. 26-27-34-35.
 Sand rolling.
 Soil 2nd rate.
 Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & S. R. Meridian.

Chains

North, between Sections 26 and 27.

Variation

14° 22'

East.

Descend gradually.

40.00

Set Sandstone, 15 x 8 x 6 ins. 10 ins. in the ground, for 1/4 Sec. Co. marked 1/4 on N. face, and raised a mound of stone alongside. Pits impracticable.

58.00

Enter Rio Puerco Valley, bear E. & W. and continue gradual descent.

80.00

Set post, 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for Co. to Secs. 22-23-26-27, marked S. 21 N. S. 23 on N. E., R. 28 E. S. 26 on S. E., S. 27 on S. W. and S. 22 on N. W. faces, with 2 notches on S. & E. edges, dug pits, 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dirt, and raised a mound of earth, 2 ft. high, 4 1/2 ft. bare around post.

Land rolling.

Soil 2nd & 3rd rate.

Timber, Cedar.

Vegetation, Bunchgrass.

Township

21 N,

Range

28 E;

G. & S. R., Meridian.

Chains

East, on a random line between Sections 23 and 26.

Variation

14° 22'

East.

Across valley.

40.00

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

79.83

Intersect N. & S. line, 12 lks. S. of cor. to Secs. 23-24-25-26, from which corner, run S. 89° 55' N., on a true line bet. Secs. 23-26, Va. 14° 22' E.

39.92

Set post, 3 ft. long, 3 ins. dia., with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face, dug pits, 18 x 18 x 12 ins. E. & W. 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. bare around post.

79.83

The cor. to Secs. 22-23-26-27. Land level.

Soil 2nd rate.
Vegetation, bunchgrass.

Township

21 N.

Range

28 E.

J. & S. R. Meridian.

Chains

North, between Sections 22 and 23.

Variation

14° 22' East.

Across Valley.

- 37.50 across Rio Puerco River, 100 yds. wide,
Course S. 70° W.
- 40.00 Set post, 3 ft. long, 3 ins. dia. with
marked stone 12 ins. in the ground,
for 1/4 Sec. Cn. marked 'S.' on N. face,
dug pits, 18 x 18 x 12 ins. N. &
S. of post, 5 1/2 ft. dist, and raised
a mound of earth, 1 1/2 ft. high,
3 1/2 ft. base around post.
- 62.50 Telegraph line, bears N. 63 1/4° E. & S. 63 1/4° W.
- 63.30 Atlantic & Pacific R.R., bears same.
- 80.00 Set post, 4 ft. long, 4 ins. square, with
marked stone, 12 ins. in the ground,
for Cn. to Secs. 14-15-22-23 marked
J. 21 N. S. 14 on N. E., R. 28 E. S. 23 on S. E.,
S. 22 on S. W. & S. 15 on N. W. faces,
with 3 notches on S. and 2 notches
on E. edges, dug pits, 18 x 18 x 12 ins.
in each Sec., 5 1/2 ft. dist, and
raised a mound of earth, 2 ft.
high, 4 1/2 ft. base around post.
Sand level. Soil 2nd rate.
Vegetation, Bunchgrass.

Township

21 N.,

Range

28 E.;

G & S. R.,

Meridian.

Chains

East, on a random line between Sections 14 and 23.

Variation

14° 22'

East.

Descend gradually.

- 10.00 Leave timber, bears N. & S. (S. 63 1/2° W.)
- 32.00 Atlantic & Pacific R.R., bears N. 63 1/4° E. & 1/2°
- 32.90 Telegraph line, bears same,
- 40.00 Set temporary 1/4 Sec. Cor.
- 77.60 Cross Rio Huerco River, 90 fms. wide
Course S. 53° W. and ascend gradually.
- 80.22 Intersect N. & S. line, 15 fms. S. of
cor. to secs. 13-14-23-24 from
which corner, run S. 89° 54' W.
on a true line bet. secs. 14-23.
Va. 14° 22' E.
- 40.11 Set Sandstone, 13x11x6 ins., 9 ins.
in the ground, for 1/4 Sec. Cor.,
marked 1/4 on N. face, dug pits,
18x18x12 ins. E. & W. of stone, 5 1/2 ft.
dist, and raised a mound of
earth, 1 1/2 ft. high, 3 1/2 ft. base
alongside.
- 80.22 The cor. to secs. 14-15-22-23.
Land rolling.
Soil 2nd rate.
Timber, Cedar.
Vegetation, bunchgrass.

Township

21 N;

Range

28 E;

G. & S. R.

Meridian.

Chains

North, between Sections 14 and 15.

Variation

14° 22'

East.

Ascend gradually,

40.00

Set post, 3 ft. long, 3 ins. dia., 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{2}$ S. on N. face,

from which

A Cedar, 4 ins. dia., bears N. 23° E., 20 lbs. dist., marked $\frac{1}{2}$ S. P. J.

No other tree within limits, dug pits, 18 x 18 x 12 ins. N. & S. of post, 5 ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, 3 ft. base around post.

80.00

Set post, 4 ft. long, 4 ins. square, 24 ins. in the ground, for Cor. to Secs. 10-11-14-15, marked S. 21 N. S. 11 on N. E., R. 28 E., S. 14 on S. E., S. 15 on S. W. and S. 10 on N. W. faces, with 4 notches on S. and 2 notches on E. edges, from which

A Cedar, 5 ins. dia., bears N. 30° E., 35 lbs. dist., marked S. 21 N. R. 28 E. S. 11 P. J.

A Cedar, 5 ins. dia., bears S. 24° E., 11 lbs. dist., marked S. 21 N. R. 28 E. S. 14 P. J.

A Cedar, 7 ins. dia., bears S. 18° W., 5 lbs. dist., marked S. 21 N. R. 28 E. S. 15 P. J.

A Cedar, 6 ins. dia., bears N. 63° W., 25 lbs. dist., marked S. 21 N. R. 28 E. S. 10 P. J.

Soil mountainous, Soil 3rd class, Timber, Cedar. Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & S. R. Meridian.

Chains

East, on a random line between Sections 11 and 14.

Variation

114° 22' East.

Ascend.

18.50 Top of Ridge, bears N. 20° E. & S. 20° W.
and descend,40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

41.05 Cross Wash, 20 fms. wide, Course S. & ascend,

74.88 Intersect N. & S. line, 19 fms. North
of cor. to sees. 11-12-13-14, from which
corner, run N. 89° 52' W., on a
true line bet. sees. 11-14.

Pa. 114° 22' E.

34.94 Set Sandstone, 13 x 10 x 9 ins., 9 ins.
in the ground, for $\frac{1}{4}$ Sec. Cor.,
marked $\frac{1}{4}$ on N. face, and raised
a mound of stone alongside.
It's impracticable.

74.88 The cor. to sees. 10-11-14-15,

Land mountainous.

Soil 3rd rate.

Timber, Cedar.

Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

20

G. & S. R.

Meridian.

Chains

North, between Sections 10 and 11.

Variation

14° 22'

East.

Ascend.

40.00 Set post, 3 ft. long, 3 ins. dia., with marked stone 12 ins. in the ground, foot Sec. Co. marked $\frac{1}{4}$ S. on N. face dug pits, 18 x 18 x 12 ins. N. & S. of post 5 ft. dist, and raised a mound of earth, 1 ft. high, 3 ft. base around post.

80.00 Set post, 4 ft. long, 4 ins. square, 2 ins. in the ground for Co. to Secs. 2-3-10-11, marked S. 21 N. S. 2 on N.E., R. 28 E. S. 11 on S.E., S. 10 on S.W. and S. 3 on N.W. faces, with 5 notches on S. and 2 notches on E. edges,

from which
A Cedar, 6 ins. dia., bears N. 24° E., 71 lks. dist, marked S. 21 N. R. 28 E. S. 2 B. S.

A Cedar, 5 ins. dia., bears S. 42° E., 60 lks. dist, marked S. 21 N. R. 28 E. S. 11 B. S.

A Cedar, 8 ins. dia., bears N. 50° W., 42 lks. dist, marked S. 21 N. R. 28 E. S. 3 B. S.

No other trees within limits dug pit 18 x 18 x 12 ins. in Sec. 10, 5 ft. dist & raised earth mound, 2 ft. high, 4 ft. base around post
Sand mountainous, Soil 3rd pale,
Timber, Cedar. Vegetation, Bunchgrass.

Township

21 N₇

BOOK 409

Range

28 E₁

G. & S. R.

Meridian.

Chains

East, on a random line between Sections 2 and 11.

Variation 14° 22' East.

Ascend;

40.00 Set temporary 1/4 sec. cor.
44.50 Top of Ridge, bears N. 20° E. & S. 20° W.

and descend,

80.26 Intersect N. & S. line, 28 lks. N. of
cor. to sees. 1-2-11-12, from which
cor. run N. 89° 48' W., on a true
line bet. sees. 2-11.
Ta. 14° 22' E.

40.13 Set Sandstone 13 x 9 x 7 ins., 9 ins in
the ground, for 1/4 Sec. Cor., marked
1/4 on N. face, from which
A cedar 8 ins. dia. bears N. 41° E., 122
lks. dist., marked 1/4 S. B. T.
No other tree within limits, dug pits,
18 x 18 x 12 ins. N & E. of stone, 3 1/4 ft. dist.,
and raised a mound of earth
1 1/2 ft. high, 3 1/2 ft. bare alongside.

80.26 The cor. to sees. 2-3-10-11.
Land mountainous,
Soil 3rd rate.
Timber, cedar.
Vegetation, bunchgrass.

Township

21 N.,

Range

28 E.,

G. & S. R.

Meridian.

Chains

North, on a random line between Sections 2 and 3.

Variation

14° 22'

East.

Ascend,

40.00

Set temporary 1/4 sec. cor.

79.73

Intersect N. P. of Tp., 12 lks. West of
 cor. to secs. 2-3-34-35, which is a post,
 4 ins. square, with marked stone set firmly
 in the ground and marked T. 22 N.
 S. 35 on N.E., R. 28 E. S. 2 on S.E., T. 21 N.
 S. 3 on S.W. and S. 34 on N.W. faces,
 with 2 notches on E. & 4 notches on W.
 edges, pits, 18x18x12 ins. in each Sec.
 5 1/2 ft. dist and bank mound, 2 ft. high
 4 1/2 ft. base around post,
 From this corner, run S. 5 W. on a
 true line bet. secs. 2-3.

Pa. 14° 22' E.

39.73

Set post, 3 ft. long, 3 ins. dia, with
 marked stone 12 ins. in the ground,
 for 1/4 Sec. Cor., marked 1/4 S. on W. face,
 dug pits, 18x18x12 ins. N. & S. of post,
 and raised a mound of earth, 1 1/2 ft.
 high, 3 1/2 ft. base around post.

79.73

The cor. to secs. 2-3-10-11.
 Land mountainous Soil 3rd rate,
 Timber, Cedar. Vegetation, Bunchgrass.

Township

21 N,

Range

28 E,

G. & S.R.

Meridian.

Chains

East, on a random line between Sections 27 and 34.

Variation 14° 22' East.

Descend gradually.

40.00

Set temporary 1/4 Sec. Cor.

80.15

Intersect N. & S. line, 28 lks. North of cor. to secs. 26-27-34-35, from which corner, run N. 89° 48' W., on a true line between secs. 27-34, Va. 14° 22' E.

40.08

Set Sandstone, 15 x 10 x 6 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins. E. & W. of stone, 5 1/2 ft. dist., and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base alongside.

80.15

The cor. to secs. 27-28-33-34. Land rolling, Soil 2nd rate, Timber, Cedar, Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & S. R.

Meridian.

Chains

North, between Sections 27 and 28.

Variation $14^{\circ} 22'$ East.

Descend gradually.

- 40.00 Set post, 3 ft. long, 3 ins. dia., 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face, from which
 A Cedar, 5 ins. dia., bears N. $20\frac{1}{2}^{\circ}$ E., 68 lbs. dist., marked $\frac{1}{4}$ S. B. S.
 No other tree within limits, dug pits, $18 \times 18 \times 12$ 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 around post.
- 68.00 Enter Rio Puerco Valley, bears E. 90.
- 80.00 Set post, 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for Cor. to Secs. 21-22-24-28, marked S. 21 N. S. 22 on N.E., R. 28 E. S. 24 on S.E., S. 28 on S.W. and S. 21 on N.W. faces, with 2 notches on S. and 3 notches 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 2 ft. high, $4\frac{1}{2}$ ft. base around post.
- Land rolling. Soil 2nd & 3rd rate.
 Timber, Cedar.
 Vegetation, Bunchgrass.

Township

BOOK 409
21 N, Range 28 E,

26

G. & S. R., Meridian.

52

Chains

East, on a random line between Sections 22 and 27.

Variation $14^{\circ}22'$ East.

Across Valley.

- 40.00 Set temporary $\frac{1}{4}$ Sec. cor.
- 79.96 Intersect N. & S. line, 41 lks. North
of cor. to secs. 22-23-26-27 from which
corner, run $N. 89^{\circ}42' W.$, on a
true line bet. secs. 22-27.
Va. $14^{\circ}22' E.$
- 39.98 Set post, 3 ft. long, 3 ins. dia., with
marked stone, 12 ins. in the ground,
for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4} S.$ on N. face,
dug pits, $18 \times 18 \times 12$ ins. E. & W. 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
around post.
- 79.96 The cor. to secs. 21-22-24-28.
Land level.
Soil 2nd rate,
Vegetation, Bunchgrass.

Township

21 N.,

Range

28 E.,

G. & S. R., Meridian.

Chains

North, between Sections 21 and 22.

Variation $14^{\circ} 22'$ East.

Across valley

24.00 Across Rio Puerco River, 150 lbs. wide,
Course $S. 61^{\circ} W.$ 40.00 Set post, 3 ft. long, 3 ins. dia., with
marked stone, 12 ins. in the ground,
for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face,
dug pits, $18 \times 18 \times 12$ 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
around post.43.50 Telegraph line bears $N. 74\frac{3}{4}^{\circ} E.$ & $S. 74\frac{3}{4}^{\circ} W.$

44.50 Cross Atlantic & Pacific R.R. bears same.

80.00 Set post, 4 ft. long, 4 ins. square, with
marked stone, 12 ins. in the ground,
for Cor. to Secs. 15-16-21-22, marked
 $S. 21^{\circ} N. S. 15$ on N.E., R. 28 E. S. 22 on S.E.,
S. 21 on S.W. and S. 16 on N.W. faces
with 3 notches on S. & 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,
2 ft. high, $4\frac{1}{2}$ ft. base around post.
Same level. Soil 2nd rate.
Vegetation, Bunchgrass.

Township

21 N.,

Range

28 E.,

G. & S. R. Meridian.

28

Chains

East, on a random line between Sections 15 and 22.

Variation

14° 22' East.

Along Valley.

40.00

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

79.83

Intersect N. & S. line, 20 lks. North of cor. to Secs. 14-15-22-23, from which corner, run N. 89° 51' W, on a true line bet. Secs. 15-22.

Va. 14° 22' E.

39.92

Set post, 3 ft. long, 3 ins. dia., with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face, dug pits, 18 x 18 x 12 ins. E. & W. 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 around post.

79.83

The cor. to Secs. 15-16-21-22.

Land level.

Soil 2nd rate.

Vegetation, Bunchgrass.

Township 21 N., Range 28 E.
G. & S.R. Meridian.

Chains North, between Sections 15 and 16.

Variation $14^{\circ}22'$ East.

Across Valley.

40.00 Set post, 3 ft. long, 3 ins. dia., with
marked stone, 12 ins. in the ground,
for $\frac{1}{4}$ Sec. Cor., marked 'N.S.' on N. face,
dug pits, $18 \times 18 \times 12$ 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 around post.

80.00 Set Sandstone $13 \times 9 \times 7$ ins., 9 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,
 $18 \times 18 \times 12$ ins. in each Sec., $5\frac{1}{2}$ ft. dist.,
and raised a mound of earth,
 $4\frac{1}{2}$ ft. base, 2 ft. high, alongside.
Sand level.

Soil 2nd rate.

Timber, Cedar.

Vegetation, Bunchgrass.

Chains

East, on a random line between Sections 10 and 15.

Variation

14° 22'

East.

Descent,

- 40.00 Set temporary $\frac{1}{4}$ sec. cor.
 73.50 Cross track, 10 lks. wide, Course S. W. Vascand,
 74.60 Top of Ridge, bears N. 10° E. & S. 10° W. & descend,
 79.10 Cross low Sag and ascend.
 80.09 Intersect N. & S. line, 8 lks. S. of
 cor. to sees. 10-11-14-15 from which
 corner, Run S. 89° 54' W., on
 a true line bet. sees. 10-15,
 Va. 14° 22' E.
- 40.05 Set Sandstone, 12 x 9 x 7 ins, 8 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. high, 3 $\frac{1}{2}$ ft. base
 alongside.
- 80.09 The corner to sees. 9-10-15-16.
 Lana montanus.
 Soil 2nd rate.
 Timber, Cedar
 Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & S. R. Meridian.

Chains

North, between Sections 9 and 10.

Variation

14° 22'

East.

Ascend.

34.10

Top of Ridge, bears N. 15° E. & S. 15° W. and descend.

37.20

Cross low Sag and ascend.

40.00

Set post, 3 ft. long, 3 in. dia., with marked stone 12 in. in the ground, for 1/4 Sec. Co., marked N. S. on N. face, dug pits, 18 x 18 x 12 ins. N. & S. of post, 5 1/2 ft. dist., and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base around post.

80.00

Set post, 4 ft. long, 4 in. square, with marked stone, 12 in. in the ground, for Co. to Secs. 3-4-9-10, marked S. 21° N. S. 30° N. E. R. 28° E. S. 10° on S. E. S. 90° S. W. and S. 40° on N. W. faces, with 5 notches on S. & 3 notches on E. edges, dug pits, 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth, 2 ft. high, 4 1/2 ft. base around post. Land mountainous. Soil 3rd rate. Timber, Cedar. Vegetation Bunchgrass.

Township

21 N.

Range

28 E.

S. & S.R.

Meridian.

Chains

East, on a random line between Sections 3 and 10.

Variation

14° 22'

East.

Ascend,

40.00

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

79.87

Intersect N. & S. line, 25 lks. South of cor. to secs. 2-3-10-11, from which corner, run S. 89° 49' W., on a true line bet. secs. 3-10.

Va. 14° 22' E.

39.94

Set post, 3 ft. long, 3 ins. dia., with marked stone 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face, dug pits, 18 x 18 x 12 ins. E. & W. 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 around post.

79.87

The cor. to secs. 3-4-9-10. Land mountainous.

Soil 3rd rate.

Timber, Cedar.

Vegetation, Bunchgrass.

Township

21 N,

Range

28 E,

G. & S. R.,

Meridian.

Chains

North, on a random line between Sections 3 and 4.

Variation $14^{\circ} 22'$ East.

Ascend.

40.00

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

80.12

Intersect N. P. of Tp., 26 lks. East of cor. to secs. 3-4-33-34 which is a post 4 ins. square with marked stone, set firmly in the ground & marked $\frac{1}{4}$ S. 22 N. $\frac{1}{4}$ S. 34 on N. E., R. 28 E. S. 3 on S. E., $\frac{1}{4}$ S. 21 N. S. 4 on S. W. & S. 33 on N. W. faces, with 3 notches on E. & W. edges, pits, $18 \times 18 \times 12$ ins. in each Sec., and mound of earth, 2 ft. high, 4 ft. base around post. From this corner run S. 11° E., on a true line between secs. 3-4,

Ra. $14^{\circ} 22'$ E.

40.12

Set post, 3 ft. long, 3 ins. dia., with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face, dug pits, $18 \times 18 \times 12$ 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 around post.

80.12

The cor. to secs. 3-4-9-10.

Land mountainous, Soil 3rd rate,
 Timber, Cedar, Vegetation Bunchgrass,
 N. K. Fitzgerald, Oct. 31, 1882,

Township

21 N,

Range

28 E,

G. & S. R. Meridian.

Chains

4 Standards on S. Bay of Sp. which is a
 from cor. to sections 32-33, a post,
 4 ins. square with marked stone set
 firmly in the ground & marked S.C.
 T. 21 N. R. 28 E. on N. S. 33 on
 E. and S. 32 on W. faces
 with 4 notches on E. & 2 notches on W. edges,
 pits, 18 x 18 x 12 ins. N.E. & W. of post, 5 ft.
 dist, and earth mound 2 ft. high,
 4 1/2 ft. base around post, sum
 north bet. secs. 32-33. Va. 14° 15' E,
 Ascend gradually.

40.00

Set post, 3 ft. long, 3 ins. dia, with
 marked stone, 12 ins. in the ground, for
 Sec. Co., marked 1/4 S. on W. face, dug
 pits, 18 x 18 x 12 ins. N. & S. of post,
 5 ft. dist, and raised a mound
 of earth, 1 ft. high, 3 ft. base
 around post.

80.00

Set post, 4 ft. long, 4 ins. square, with
 marked stone, 12 ins. in the ground
 for Cor. to Secs. 28-29-32-33, marked T. 21 N.
 S. 28 on N.E., R. 28 E. S. 33 on S.E., S. 32 on d. W.
 and S. 29 on N.W. faces, with notch on
 S. and 4 notches on E. edges, dug pits,
 18 x 18 x 12 ins. in each, Sec. 5 ft. dist,
 and raised an earth mound, 2 ft.
 high, 4 1/2 ft. base around post.
 Land hollow. Soil 2nd rate,
 Timber, Cedar. Vegetation, Birchgrass.

35
Township

21 N.,

Range

28 E.,

G. & S. R.

Meridian.

Chains

East, on a random line between Sections 28 and 33.

Variation

14° 22'

East.

Descend gradually.

40.00 Set temporary 1/4 Sec. Cr.

80.32 Intersect N. & S. line, 23 lks. South
of cor. to Secs. 27-28-33-34, from which
corner, run S. 89° 50' W., in a true
line between Secs. 28-33.

Va. 14° 22' E.

40.16 Set post, 3 ft. long, 3 in. dia., with
marked stone, 12 in. in the ground,
for 1/4 Sec. Cr. marked 1/4 S. on N.
face, dug pits, 18 x 18 x 12 in. E. & W.
of post, 5 1/2 ft. dist., and raised
a mound of earth, 1 1/2 ft. high,
3 1/2 ft. base around post.

80.32 The cor. to Secs. 28-29-32-33.

Land rolling.

Soil 2nd state.

Timber, Cedar.

Vegetation, Bunchgrass.

Township

21 N., Range 28 E.

G. & S. R., Meridian.

Chains

North, between Sections 28 and 29.

Variation

14° 22'

East.

Descend gradually.

- 9.80 Leave timber bears E. & W.
- 40.00 Set post, 3 ft. long, 3 ins. dia., with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face, dug pits, 18 x 18 x 12 ins., N. & S. of post, 5 ft. dist., and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base around post.
- 69.50 Across Rio Puerco River, 50 fms. wide, runs S. 70° W. and ascend.
- 80.00 Set post, 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for Cor. to Secs. 20-21-28-29, marked S. 21 on S., 21 on N.E., R. 28 E., S. 28 on S.E., S. 29 on S.W. and S. 20 on N.W. faces, with 2 notches on S. & 4 notches on E. edges, dug pits, 18 x 18 x 12 ins. in each Sec., 5 ft. dist., and raised a mound of earth, 2 ft. high, 4 1/2 ft. base around post.
- Land rolling. Soil 2nd rate.
 Timber Cedar. Vegetation, Bunchgrass

Township

BOOK 409
21 N, Range 28 E,
G. & S. R., Meridian.

Chains

East, on a random line between Sections 21 and 28.

Variation $14^{\circ}22'$ East.

Descend gradually,

21.50 across Rio Puerco River, 100 yds. wide,
runs S.W.40.00 Set temporary $\frac{1}{4}$ sec. cor.79.84 Intersect N. & S. line, 11 yds. South
of cor. to secs. 21-22-24-28, from
which corner, run S. $89^{\circ}55'N$,
on a true line bet. secs. 21-28,
Va. $14^{\circ}22'E$;39.92 Set post, 3 ft. long, 3 ins. dia., with
marked stone 42 ins. in the ground,
for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on
N. face, dug pits, $18 \times 18 \times 12$ ins. E. & W.
of post, $3\frac{1}{2}$ ft. dist., and raised
a mound of earth, $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft.
base around post,

79.84 The cor. to secs. 20-21-28-29.

Land rolling.

Soil 2nd rate.

Vegetation, Bunchgrass.

Chains

North, between Sections 20 and 21.

Variation

114° 22'

East.

Over rolling land.

25.75

Cross Atlantic and Pacific R. R.
bears N. 74° 46' E. & S. 74° 46' W.

26.65

Telegraph line bears same.

40.00

Set post, 3 ft. long, 3 ins. dia., with
marked stone, 12 ins. in the ground,
for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N.
face, 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 around post.

50.00

Set post, 4 ft. long, 4 ins. square, with
marked stone, 12 ins. in the ground,
for Cor. to Secs. 16-17-20-21, marked
T. 21 N. S. 16 on N.E. R. 28 E., S. 21 on
S.E. S. 20 on S.W. & S. 17 on N.W. faces,
with 3 notches on S. and 4 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.
base around post.Land rolling. Soil 2nd rate.
Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & S. R. Meridian.

Chains

East, on a random line between Sections 16 and 21.

Variation

14° 22'

East.

Ascend gradually.

40.00

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

79.70

Intersect N. & S. line, 24 lks. North
of cor. to secs. 15-16-21-22, from
which corner True S. 89° 50' W.,
on a true line bet. secs. 16-21,
Va. 14° 22' E.

39.85

Set Sandstone, 12 x 9 x 7 ins, 8 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, 3 $\frac{1}{2}$ ft. dist, and
raised a mound of earth 1 $\frac{1}{2}$ ft.
high, 3 $\frac{1}{2}$ ft. base alongside.

79.70

The cor. to secs. 16-17-20-21.

Sand rolling.

Soil 2nd rate

Vegetation, Bunchgrass.

Chains

North, between Sections 16 and 17.

Variation

14° 22'

East.

Ascend gradually.

- 8.70 Edge of Mesa, bears N. 74° E. & S. 74° W.
and descend.
- 14.80 Cross low Sag and ascend.
- 40.00 Set post, 3 ft. long, 3 ins. dia., with
marked stone 12 ins. in the ground
for 1/4 Sec. Co., marked 1/4 S. on N.
face, dug pits, 18 x 18 x 12 ins. N. & S.
of post, 5 1/2 ft. dist., and raised a
mound of earth 1 1/2 ft. high, 3 1/2 ft.
base around post - on top of
Ridge, bears E. & W. & descend.
- 66.00 Center timber, bears E. & W.
- 67.50 Cross wash, 12 lbs. wide, crossed N.
and ascend.
- 80.00 Set Sandstone 13 x 7 x 6 ins., 9 ins.
in the ground, for Co. to Secs. 8-9-16-17
marked ~~S. 21 N. S. 9 on N. E., R. 28 E. S. 16~~
~~on S. E. S. 17 on S. N. & S. S. on N. N. face,~~
with 4 notches on S. & E. edges, dug pits,
18 x 18 x 12 ins. in each Ste., 5 1/2 ft. dist.,
and raised a mound of earth
2 ft. high, 4 1/2 ft. base along side.
Land mountainous, Soil 2nd rate,
Timber, Cedar. Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & S. R.

Meridian.

Chains

East, on a random line between Sections 9 and 16.

Variation

14° 22'

East.

Descend

3.00 Across Depression, bears N. 70° E. and S. 70° W. and ascend.

25.00 Top of Ridge, bears N. 70° E. & S. 70° W. and descend.

40.00 Set temporary 1/4 sec. cor.

80.12 Intersect N. & S. line, 10 lks. South of cor. to sees. 9-10-15-16, from which corner, run S. 89° 56' W. on a true line bet. sees. 9-16. Va. 14° 22' E.

40.06 Set post, 3 ft. long, 3 ins. dia., with marked stone, 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on N. face, dug pits 18 x 18 x 12 ins. E. & W. of post, 5 1/2 ft. dist., and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base around post.

80.12 The cor. to sees. 16-17-20-21.

Land mountainous

Soil 3rd rate.

Timber Cedar

Vegetation, Bunchgrass.

Chains

North, between Sections 8 and 9.

Variation $114^{\circ}22'$ East.

Ascend,

40.00

Set post, 3 ft. long, 3 ins. dia., with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face, dug pits, $18 \times 18 \times 12$ ins. N. & S. of post, $5\frac{1}{2}$ ft. dist., and raised a mound of earth, $1\frac{1}{2}$ ft. high, 3 ft. base around post.

80.00

Set post, 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for Cor. to Secs. 4-5-8-9, marked T. 21 N. S. 4 on N.E. R. 28 E. S. 9 on S.E., S. 8 on S.W. and S. 5 on N.W. faces, with 5 notches on S. and 4 notches 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, 2 ft. high, $4\frac{1}{2}$ ft. base around post.

Land mountainous. Soil 3rd rate.

Timber, Cedar.

Vegetation, Bunchgrass.

Township

21 N.,

Range

28 E.,

G. & S. R.,

Meridian.

Chains

East, on a random line between Sections 4 and 9.

Variation $14^{\circ} 22'$ East.

Ascend.

- 7.70 Top of Ridge, bears N. 12° E. & S. 12° W.,
and descend.
- 21.00 Cross depression, bears N. 10° E.,
and S. 10° W. and ascend.
- 40.00 Set temporary $\frac{1}{4}$ Sec. cor.
- 79.94 Intersect N. & S. line, 36 lks. North
of cor. to sees. 3-4-9-10, from which
corner run N. $89^{\circ} 45'$ W. on a
true line bet. sees. 4-9.
Va. $14^{\circ} 22'$ E.
- 39.97 Set post, 3 ft. long, 3 ins. dia. with
marked stone, 12 ins. in the ground,
for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on
N. face, dug pits, 18 x 18 x 12 ins.
E. & W. 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 around post.
- 79.94 The cor. to sees. 5-4-9-8.
Land mountainous,
Soil 3rd rate,
Timber, Cedar.
Vegetation, Bunchgrass.

Chains

North, on a random line between Sections 4 and 5.

Variation

14° 22' East.

Ascena,

40.00 Set temporary 1/4 sec. cor.

80.21 Intersect N. B. of Sp, 1/4 Sec. East of cor,
to sees. 4-5-32-33, which is a post,
4 ins square, with marker stone, 12 ins. in
the ground, marked S. 22 N. S. 33 on
N.E., R. 28 E. S. 4 on S.E., S. 21 N. S. 5 on
S.W. and S. 32 on N.W. faces, with
4 notches on E. and 2 notches on W. edges,
pk, 18 x 18 x 12 ins. in each Sec, 5 1/2 ft.
dist. and earth mound 2 ft. high,
4 1/2 ft. base around post.
From this corner, run S. 3° E, on a true
line between sees. 4-5, 1/4. 14° 22' E.

40.21 Set post, 3 ft. long, 3 ins. dia., 24 ins.
in the ground, for 1/4 Sec. cor, marked
N.W. on N. face, from which
A Cedar, 7 ins. dia., bears N. 22° E, 40 fms.
dist., marked 1/4 S. B. S.

A Cedar, 8 ins. dia., bears S. 49 1/2° W, 60 fms.
dist., marked 1/4 S. B. S.

80.21 The cor. to sees. 5-4-9-8-

Land mountainous, Soil 3rd rate,
Timber, Cedar, Vegetation Bunchgrass,
S. C. Caff, Compassman, Oct. 31, 1883

Township

21 N.,

Range

28 E.,

G. & S. R.

Meridian.

Chains

which is

Standard
 From ^{Co.} to Secs. 31-32 on S.B. of Sp
 a post, 4 ins. square marked S.C.
 T. 21 N. R. 28 E. on N., S. 32 on E.,
 and S. 31 on W. faces, with
 5 notches on E. and notch on W. edges,
 from which

A Cedar 18 ins. dia., bears N. 57° E. 59 lbs. dist.,
 marked T. 21 N. R. 28 E. S. 32 B. T.

A Pine 10 ins. dia., bears S. 65° E. 11 lbs. dist.,
 marked T. 21 N. R. 28 E. S. 5 B. T.

A Cedar, 20 ins. dia., bears N. 26° W. 47 lbs. dist.,
 marked T. 21 N. R. 28 E. S. 31 B. T.

~~44.58 x 18 x 12 ins. in Sec. 6, 5 1/2 ft. dist. &~~

~~earth mound 2 1/2 ft. high, 4 1/2 ft. base around post.~~
 Iron North, bet. Secs. 31-32. Va. 14756.

40.00 Set post, 3 ft. long, 3 ins. dia., with marked
 stone, 12 ins. in the ground, for 1/4 Sec. Co.,
 marked 1/4 S. on W. face, dug pits, 18 x 18 x 12 ins.
 N. & S. of post, 5 1/2 ft. dist., and raised an
 earth md. 3 1/2 ft. base, 1 1/2 ft. high around post.

80.00 Set Sandstone, 12 x 11 x 9 ins., 8 ins. in
 the ground, for Co. to Secs. 29-30-31-32,
 marked with notch on S. and 5 notches
 on E. edges, dug pits, 18 x 18 x 12 ins. in each
 Sec., 5 1/2 ft. dist., and raised an earth
 mound 2 ft. high, 4 1/2 ft. base around post.
 Lava rolling, Soil 2nd rate,
 vegetation, Bunchgrass.

Township

21 N,

Range

28 E,

G. & S. R. Meridian.

Chains

East, on a random line between Sections 29 and 32.

Variation 14° 22' East.

Ascend,

8.13

Enter timber, bears N. & S.

40.00

Set temporary 1/4 sec. cor.

43.20

Top of Ridge, bears N. 20° E. & S. 20° W. and descend.

79.75

Intersect N. & S. line, 18 lks. North of cor. to secs. 28-29-32-33, from which corner, run N. 89° 52' W., on a true line bet. secs. 29-32,

Pa. 14° 22' ^{with marked stone}

39.88

Set post, 3 ft. long, 3 ins. dia., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 S. on N. face, from which, a cedar, 5 ins. dia., bears N. 34° E., 52 lks. dist., marked 1/4 S. P. T.

No other tree within limits, dug pits, 18 x 18 x 12 ins. E. & W. of post, 5 ft. dirt, and raised a mound of oak, 1 1/4 ft. high, 3 ft. base around post.

79.75

The cor. to secs. 29-30-31-32, land mountainous, Soil 2nd rate, Timber, cedar.

Vegetation, Puncturegrass.
W. R. Fitzgerald, Nov. 1st, 1882.

Township

21 N.,

Range

28 E.,

Towns

G. & S. R. Meridia

Chains

West, on a random line between Sections 30 and 31.

Chains

Variation 14° 22' East.

Ascena,

Top of Ridge, bears N 10° E, 9 S 10° W. ~~10000~~

Set temporary 1/4 sec. cor.

Intersect W. B. of Sp., 12 lks. North of cor. to sees. 25-30-31-36, which is a

Sandstone, 12 x 10 x 8 ins, set firmly in the ground, marked with 5 notches on N, and 1 notch on S. ridge, pits, 18 x 18 x 12 ins,

in each See., 5 1/2 ft. dist. and mound of earth, 2 ft. high, 4 1/2 ft. base along side.

From this corner, run N. 89° 55' E, on a true line bet. sees. 30-31,

va. 14° 22' E.

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

dug pits, 18 x 18 x 12 ins. E. & W. of post, 5 1/2 ft. dist, and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base around post.

The cor. to sees. 29-30-31-32,

Land mountainous, Soil 2nd rate, Vegetation, Bunchgrass.

Examined my instrument & found it correct. S. C. Cady, Comparison, Nov. 1, 1882.

2.30
40.00
79.86

40.00

78.00

80.00

39.86

79.86

Ship

21 N., Range 28 E;

50

52

Meridian.

North, between Sections 29 and 30.

Variation $14^{\circ}22'$ East.

Descend gradually,

00 Set post, 3 ft. long, 3 ins. dia., with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face, dug pits, $18 \times 18 \times 12$ 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 around post.

50 across Rio Puerco River, 150 lks. wide, runs $S. 75^{\circ} W.$ and ascends.

00 Set post, 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Secs. 19-20-29-30, marked $\frac{1}{2}$ N. S. 20 on N.E., R. 28 E. S. 29 on S.E., S. 30 on S.W. and S. 19 on N.W. faces with 2 notches on S. and 5 notches 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, 2 ft. high, 4 ft. base around post. Land rolling. Soil 2nd Tale. Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & R. Meridian.

Chains

East, on a random line between Sections 20 and 29.

Variation

14° 22'

East.

Ascend gradually.

40.00

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

80.19

Intersect N. & S. line, 20 lks. S. of
 cor. to secs. 20-21-28-29, from
 which corner, run " S. 89° 51' N,
 on a true line bet. secs. 20-29.

Va. 14° 22' E.

40.10

Set post, 3 ft. long, 3 ins. dia. with
 marked stone, 12 ins. in the ground,
 for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on
 N. face, dug pits, 18 x 18 x 12 ins. E. & W.
 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 around post.

80.19

The cor. to secs. 19-20-29-30.

Land rolling.

Soil 2nd rate.

Vegetation, Bunchgrass.

I carefully examined the adjustments
 of my solar compass today, particu-
 larly the latitude & leveling appa-
 ratus and found them correct.

W. R. Fitzgerald, Nov. 1st 1882.

Township

21 N.,

Range

28 E.,

G. & S. R. Meridian.

Chains

West, on a random line between Sections 19 and 30.

18.10
19.00
40.00
79.49

Descend gradually Variation $14^{\circ}22'$ East.
W. U. 5th line hrs. $N 75^{\circ} E + S. 75^{\circ} W -$
at P. R. hrs. $N 75^{\circ} E + S 75^{\circ} W -$

Set temporary $\frac{1}{4}$ sec. cor.
Intersect W. B. of Sp, 32 lks. South
of cor. to sees 19-24-25-30, which is a
Sandstone, 15x12x10 ins. set firmly in the
ground, marked with 4 notches on N.
& 2 notches on S. edges, pits, 18x18x12 ins.
in each Sec. $5\frac{1}{2}$ ft. dist and mound
of earth, 2 ft. high, 4 ft. base around
From this corner, run $S. 89^{\circ}46' E.$
on a true line bet. sees. 19-30,
Ra. $14^{\circ}22' E.$

39.49 Set post, 3 ft. long, 3 ins. dia., with marked
stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec.
Cor. marked $\frac{1}{4}$ S. on N. face, dug pits,
18x18x12 ins. E. & W. 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 around
post.

79.49 The cor. to sees. 19-20-29-30.
Land rolling. Soil 2nd rate,
Vegetation, Bunchgrass.

I carefully examined the compass today
and found it correct.

S. C. Capp, Compassman, Nov. 1, 1882.

Chains

North, between Sections 19 and 20.

Variation

14° 22'

East.

Ascend gradually.

1.50 Telegraph line, bears N. 75° E. and S. 75° W.

2.70 Cross Atlantic & Pacific RR, bears same.

40.00 Set Sandstone, 12 x 10 x 6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on N. face, dug pits, 18 x 18 x 12 ins. N. & S. of stone, 5 ft. dist. and raised a mound of earth, 1 1/2 ft. high 3 ft. base alongside.

80.00 Set Sandstone, 14 x 12 x 10 ins., 9 ins. in the ground, for Cor. to Secs. 17-18-19-20, marked with 3 notches on S. and 5 notches on E. edges, and raised a mound of stone alongside. Pits impracticable.

Sama rolling, Soil 2nd rate, Vegetation, Bunchgrass.

Township

21 N.

Range

28 E.

G. & S. R.

Meridian.

Chains

East, on a random line between Sections 17 and 20.

Variation

14° 22'

East.

- 5.50 Descend
- 20.60 across depression, bears N. 20° E. & S. 20° W.
and ascend.
- 40.00 Set temporary $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. & S. line, 28 lks. South
of cor. to sees. 16-17-20-21, from
which corner, run S. 89° 48' W.,
on a true line bet. sees. 17-20,
Va. 14° 22' E.
- 40.02 Deposited a marked stone 12 ins.
in the ground, for $\frac{1}{4}$ Sec. Cor.,
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. high, 3 $\frac{1}{2}$ ft.
base over it. In E. pit, drove a
stake 2 ft. long, 2 ins. square, 12 ins.
in the ground, marked $\frac{1}{4}$ S. on N. face.
- 80.04 The cor. to sees. 17-18-19-20.
Land rolling. Soil 2nd rate.
Vegetation. Bluegrass.
W. R. Fitzgerald, Nov. 1st 1882.

Township

21 N.,

Range

28 E.

G. & S. R., Meridian.

Chains

West, on a random line between Sections 18 and 19.

Variation

14° 22' East.

Ascend.

5.00 Top of mesa, bears N. & S. & descend,

40.00 Set temporary 1/4 sec. cor.

79.68 Intersect W. B. of Sp, 18 lks. Mark of cor. to secs. 13-18-19-24, which is a Sandstone, 15 x 14 x 10 ins, set firmly in the ground, marked with 3 notches on N. & S. edges, from which

A Juniper, 15 ins. dia, bears N. 21 1/2° E. 113 lks. dist, marked S. 21 N. R. 28 E. S. 18 B. Y.

A Juniper, 12 ins. dia, bears S. 38 1/4° E. 207 lks. dist, marked S. 21 N. R. 28 E. S. 19 B. Y.

A Juniper, 12 ins. dia, bears S. 15° W. 308 lks. dist, marked S. 21 N. R. 27 E. S. 24 B. Y.

A Juniper, 6 ins. dia, bears N. 56 1/2° W. 197 lks. dist, marked S. 21 N. R. 27 E. S. 13 B. Y.

From this corner, run N. 89° 52' E. on a true line bet. secs. 18-19. Va. 14° 22' E.

39.68 Set post, 3 ft. long, 3 ins. dia, with marked stone, 12 ins. in the ground, for 1/4 Sec. Cor, marked 1/4 S. on N. face, dug pits, 18 x 18 x 12 ins, E. & W. of post, 5 1/4 ft. dist, and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base around post.

79.68 The cor. to secs. 17-18-19-20. Sand mountains, Soil 2nd nat. Vegetation, Bunchgrass.

Carefully examined my compass today and found it correct. J. C. Capps, Compassman, Nov. 1, 1888.

Township

21 N,

Range

28 E,

G. & S. R. Meridian.

Chains

North, between Sections 17 and 18.

Variation

14° 22' East.

Descend gradually.

40.00

Set post 3 ft. long, 3 ins. dia., with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ S. on N. face, 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 around post.

80.00

Set Sandstone, 14 x 11 x 9 ins, 9 ins. in the ground, for Cor. to Secs. 7-8-17-18, marked with 4 notches on S. and 5 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. base alongside. Sand rolling. Soil 3rd rate. Timber Cedar, Vegetation, Bunchgrass.

Chains

East, on a random line between Sections 8 and 17.

Variation

14° 22'

East.

Ascend abruptly.

10.40 Top of Ridge, bearing N. 50° E. & S. 50° W.
and descend.

40.00 Set temporary 1/4 sec. cor.

41.00 Across depression, bearing N. 50° E.
and S. 50° W. and ascend.79.78 Intersect N. & S. line, 24 lks. N.
of cor. to secs. 8-9-16-17, from
which corner, run N. 89° 30' W.
on a true line bet. secs. 8-17.
Pa. 14° 22' E.39.89 Set post, 3 ft. long, 3 in. dia., with
marked stone, 2 ins. in the
ground, for 1/4 Sec. Cor., marked
1/4 S. on N. face, dug pits, 18x18x2 ins.
N. & E. of post, 5 1/2 ft. dirt, and
raised a mound of earth, 1 1/2 ft.
high, 3 1/2 ft. bare around post.

79.78 The cor. to secs. 7-8-17-18.

Sand mountains.

Soil 3rd gate.

Timber, Cedar.

Vegetation, bunchgrass.

W. R. Fitzgerald, Nov. 1, 1882.

Township

21 N.,

Range

28 E.,

G. & S. R., Meridian.

Chains

West, on a random line between Sections 7 and 18.

Variation

14° 22'

East.

Ascend.

40.00

Set temporary 1/4 sec. cor.

79.26

Intersect W. B. of Sp., 29 lks. South of cor. to secs. 7-12-13-18, which is a Sand Stone, 14x12x10 ins, set firmly in the ground, and marked with 2 notches on N. & 4 notches on S. edges, pits, 18x18x12 ins. in each sec. 5 1/2 ft. dist, and mound of earth, 2 ft. high, 4 1/2 ft. base alongside. From this pt. Run S. 89° 48' E., on a true line between secs. 7-18.

39.26

Set post, 3 ft. long, 3 ins. dia., 2 ins. in the ground, for 1/4 Sec. cor., marked 1/4 S. on N. face, from which a Cedar, 5 ins. dia., bears S. 52° W., 6 lks. dist, marked 1/4 S. B. S.

No other tree within limits, dug pits, 18x18x12 ins. E. & W. of post, 5 1/2 ft. dist, and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base around post.

79.26

The cor. to secs. 7-8-17-18
Land mountings, Pil 3 1/2 rate.
Timber Cedar, vegetation Birchgrass,
S. C. Carr, Compassman, Nov 1, 1882.

Township

21 N,

Range

28 E,

G. & S. R. Meridian.

Chains

North, between Sections 7 and 8.

Variation

14° 22'

East.

Ascend

- 36.00 Top of Ridge, bears N. 60° E. & S. 60° W., and descend.
- 40.00 Set Sandstone, 13 x 9 x 8 ins. 9 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. 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 alongside.
- 52.50 Cross depression, bears N. 70° E. and S. 70° W. and ascend.
- 80.00 Set post, 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for Cor. to Secs. 5-6-7-8, marked S. 21 N. S. 5 on N. E., R. 28 E., S. 8 on S. E., S. 7 on S. W. and S. 6 on N. W. faces, with 5 notches on S. and 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 around post.
- Land mountainous. Soil 3rd nat. Timber, cedar. Vegetation bunchgrass.

Township

21 N.,

Range

28 E.,

G. & S. R.

Meridian.

Chains

East, on a random line between Sections 5 and 8.

Variation

14° 22'

East.

Ascend.

- 40.00 Set temporary $\frac{1}{4}$ sec. cor., on top of Ridge, bears N. & S. & descend.
- 56.80 Cross low Sag and ascend.
- 80.08 Intersect N. & S. line, 18 lks. South of cor. to secs. 4-5-8-9, from which corner, run S. 89° 52' W. on a true line bet. secs. 5-8.

Va. 14° 22' E.

- 40.04 Set Sandstone, 12 x 8 x 6 ins, 8 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. 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. high, 3 $\frac{1}{2}$ ft. base alongside.
- 80.08 The cor. to secs. 5-6-7-8.

Land mountainous,

Soil 3rd rate,

Timber Cedar,

Vegetation, Bunchgrass,

I carefully examined the adjustments of my compass today, particularly the latitude & declination apparatus & found them correct.

W. R. Fitzgerald, Nov. 10th 1882.

Township

21 N.,

Range

28 E.,

G. & S. R.

Meridian.

Chains

West, on a random line between Sections 6 and 7.

Variation $14^{\circ} 22'$ East.

Descend,

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

78.74 Intersect N. B. of Sp., 13 lks.

North of cor. to secs. 1-6-7-12,

which is a Sandstone, 15 x 14 x 11 ins,
set firmly in the ground & marked
with 1 notch on N. and 5 notches on
S. edges, pits, 18 x 18 x 12 ins, in each
Sec., $5\frac{1}{2}$ ft. dist., and mound
of earth, 2 ft. high, $4\frac{1}{2}$ ft. base along
side. From this corner run
N. $89^{\circ} 54'$ E., on a true line bet. 6
secs. 6-7. Va. $14^{\circ} 22'$ E.

38.74 Set post, 3 ft. long, 3 ins. dia., with
marked stone, 2 in. in the ground
for $\frac{1}{4}$ sec. cor. marked by S. on N. face,
dug pits, 18 x 18 x 12 ins. E. & W. 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 around post.

78.74 The cor. to secs. 5-6-7-8.

Land mountainous, Soil 3rd class,
Timber Cedar. Vegetation, bunch grass,

Township 21 N.

G. & S. R. Meridian.

Chains

North, on a random line between Sections 5 and 6.

Variation 14° 22' East.

Ascend,

40.00 Set temporary 1/4 sec. cor.
 79.92 Intersect N. B. of Sp., 28 lks. West
 of cor. to sees. 5-6-31-32, which is a post,
 4 ins. square, marked S. 22 N. S. 32 on
 N. E., R. 28 E. S. 5 on S. E., S. 21 N. S. 6 on
 S. W. and S. 31 on N. W. faces, with 5
 notches on E. and 1 notch on W. edges,
 from which
 + Cedar, 5 ins. dia., bears N. 24° E. 30 lks. dist,
 marked S. 22 N. R. 28 E. S. 32 B. S. Y.
 + Cedar, 6 ins. dia., bears S. 18° E. 21 lks. dist,
 marked S. 21 N. R. 28 E. S. 5 B. S. Y.
 + Cedar, 5 ins. dia., bears N. 35 1/4° W. 115 lks.
 dist, marked S. 22 N. R. 28 E. S. 31 B. S. Y.
 Pit 18 x 18 x 12 ins. in Sec. 6, 5 1/2 ft. dist,
 with mound of earth 2 1/2 ft. high 1 1/2 ft.
 base around post. From first cor.
 Run S. 12° E. on a true line bet. sees. 5-6,
 Ra. 14° 22' E.

39.92 Set post, 3 ft. long, 3 ins. dia., with marked
 stone 12 ins. in the ground, for 1/4 Sec. Cor.
 marked 1/4 S. on N. face, dug pits, 18 x 18
 x 12 ins. N. & S. of post, 5 1/2 ft. dist, raised
 earth md. 1 1/2 ft. high 3 1/2 ft. base around post.
 79.92 The cor. to sees. 3-6-7-8.

Land mountainous. Soil 3rd rate.
 Timber Cedar, Vegetation Juniper, grass, etc.
 S. C. Lapp, Comptroller, etc.

GENERAL DESCRIPTION.

The northern portion of this Township is mountainous - the remainder consisting of valley and rolling land. The soil is 2nd and 3rd rate. Cedar timber is quite plentiful and throughout the Township is a fine growth of Bunchgrass which affords excellent grazing facilities.

The Rio Puerco River flows through the central part.

The A. & P. R.R. passes through the Rio Puerco Valley along N. side of River. It has one station in Sec. 24, Saunders, ~~consisting of~~ ~~at Section 24, Sec. 24~~ Emigrant Springs are situated in Secs. 25-36 and furnish an unfailing supply of pure water. Mr James Moore has a house at one of these Springs in Sec. 36.

BOOK 409

BOOK 409

For final oaths
see book 18 -

BOOK 409

U. S. Surveyor General's Office,

TUCSON, ARIZONA, May 17, 1883

The foregoing Field Notes of the Survey of the

Subdivision Lines of
Township 21 North, Range
28 East.

Of the Gila and Salt River Base and Meridian, Arizona, execu-
ted by W. R. Fitzgerald

Deputy Surveyor, under his contract of the 17th
day of July, 1882, having been

critically examined and the necessary corrections and explana-
tions made, the said Field Notes and the surveys they describe
are hereby approved.

J. M. Ro & Co
Surveyor General.