

March 2 - 1911
C.V.

FEB 6 - 1911
27
1

4-679 a.

Book A.

2253

2253

BOOK 2253

FIELD NOTES

2253

OF THE

RESURVEYS and RETRACEMENTS OF EXTERIOR LINES

~~EXAMINATION OF SURVEYS~~

In ^{27^u} Ts. 20 & 21 N.R. 28 E. of the G. & S.R. Meridian, Arizona.

EXECUTED BY

2253

William Strover

U. S. Examiner of Surveys.
~~Deputy-Surveyor~~
+ W. J. Surryor, G.L.O.

Instructions from the Hon. Commissioner General Land Office
Under ~~Contract No.~~ dated _____, 1910.
& Instructions from the U. S. Surveyor General for Arizona
dated Jan. 14, 1910.

-----, Examiner of Surveys.

2253

W-Survey
- Examination-commenced February 8, _____, 1910.

H-Survey
- Examination-completed February 18, _____, 1910.

3376blm2-01

2253

2253

78
1A

BOOK 2253

NAMES AND DUTIES OF ASSISTANTS.

Chas. F. Stover, Chainman.

E. C. Hampel, Chainman.

Sam Chisum, Flagman.

CERTIFICATE.

We hereby certify that we assisted William Stover

U.S. Surveyor G.L.O. measuring & retracing
Examiner of Surveys, in ~~examining surveys~~ in

Arizona, under ~~contract No.~~ *instruction from the U.S. Sur. Gen'l for Arizona* follows:

As follows:

- Reestablishment of the 5th Std. Par. N. through R. 28 E.
- Retracement of R. line bet. R. 27, 28 & 29 E. & T. 21 N.
- Retracement & Reestablishment of R. line bet. R. 27, 28 E. & T. 20 N.
- Retracement of T. line bet. T. 19, 20 N. R. 27 E.
- of the G. & S. R. Meridian.

~~Reestablishment & measure~~
and that said ~~examination~~ has been, in all respects, to the best of our knowledge and belief, well and faithfully made, according to the instructions furnished by the U.S. Sur. Gen'l. for Arizona and the Commissioner of the General Land Office.

Chas. F. Stover, Chainman.

E. C. Hampel, Chainman.

Sam. Chisum, Flagman.

Subscribed and sworn to before me this 18th day of February, 1910

William Stover

Retracements & reestablishment of Exterior Lines in Ts. 20 & 21 N.R. 28 E. 1c
 G. & S.R. Meridian, Arizona and of the 5th. Std. Parallel North, thro. R. 28 E.

Under date of Jan. 14, 1910, I received instructions from the U.S. Surveyor General for Arizona to re trace and reestablish certain exterior lines of Ts. 20 & 21 N.R. 28 E. and the 5th. Std. Parallel North through Range 28 E., Gila & Salt River Meridian, Arizona and such other lines as is deemed necessary to locate properly the Indian allotments desired by the Hon. Commissioner of Indian Affairs.

In accordance with the above instructions, I proceed to Gallup, New Mexico, where I meet Mr. W.M. Peterson, the Allotting Agent and go over the data collected by him, showing the discrepancies in alinement and measurement of the lines, retraced by him in the said townships. I then make arrangements to go to Mr. Peterson's camp, about three miles S. of Houck, Arizona and to initiate my work from that point. February 8, 1910. I begin at the corner for secs. 25, 30, 31 & 36, T. 21 N.R. 28 E., on E. bdy. of the tp., shown me by the Allotting Agent. A cedar post 6 ins. square and about 30 ins. above ground, marked T. 21 N.R. 29 E.S. 30 on NE side, R. 28 E. on NW side, other marks on this side illegible.

S-4 on NW, ³SI on SE. (post is very old and markings indistinct)

No bearing trees marked though many available near corner.

From this corner I run South retracing line bet. secs. 31 & 36

- 10.50 descend slope.
- 17.00 dry wash, SW
- 17.05 ascend
- 25.00 top
- 26.00 descend
- 36.52 dry wash, 12 lks. wide, W., ascend
- 39.00 top and descend.
- 40.00 make diligent search within a radius of 10 chs. but find no corner. Set a stake to mark point.
- 48.10 dry wash, 30 lks. wide, SW
- 48.40 ascend
- 56.80 top and descend
- 65.80 dry wash, 15 lks. wide, W., ascend ridge.
- 75.00 top, nearly E. & W., descend.
- 80.00 make diligent search for corner within 10 chs. around cor. but do not find anything. Set temp. stake at this point.
- Thence I run West on 5th. Std. Parl. N., ascending.
- 3.00 top of ridge
- 3.25 descend
- 4.50 no C.C. found.
- 16.00 set temp stake. From this point, according to original

81 Retracements and Reestablishments of Exterior lines of T.21 N.R.28 E. of the G. & S.R. Meridian, Arizona. and 5th. Std. Parallel N. through Range 28 E.

BOOK 2253

field notes, a spring bears North 11 chs. dist. Therefore I run North and at 27.83 chs. come to the spring.

I now return to the camp of Mr. Peterson and conclude to move my camp to Emmigrant Springs, to be nearer my work.

Feb. 9, moved camp to Emmigrant Springs.

Feb. 10, I begin at the Std. Cor. for Ts. 21 N. Rs. 27 & 28 E., shown me by Mr. Peterson, a cedar post 4 ins. square, 30 ins. above ground, marked R 28 E S 31 on the E. side,

T 21 N S C on N. side, R 27 E S 36 on W. side (this is a very old post with old markings; a dead cedar stump from which this cor. post was evidently cut, as the ends fit exactly, bears S. 53 10' W. 1.65 chs. dist. from cor. ²⁷)

At this corner, at 9 ocl. a.m., I set off $14^{\circ} 26'$ on the decl. arc, $35^{\circ} 10' 30''$ on the lat. arc and determine a meridian with the solar.

Thence I run North bet. secs. 31 & 36,

40.00 search extensively for 1/4 cor. but find no trace.

80.00 fall 14 1/2 lks. E. of the corner for secs. 25, 30, 31 & 36,

which is a sandstone slab $2 \times 13 \times 20$ ins. above ground with a mound of stones around it, marked 5 grooves on N. and 1 groove on S. faces. No wit. mound. This cor. stands on N. slope of rocky bluffs, covered with sandstone boulders and about a half mile S. of the S.F.R.R. track. (The original field notes call for post, pits & mound of earth, though such a cor. would probably not have been established at any point within a half mile around as stones are abundant. The cor. has the appearance of having been here a long time.)

Thence I run S. $0^{\circ} 6'$ E. bet. secs. 31 & 36, ascending bluffs

10.00 top of bluff and thence over high mesa.

10.70 descend

21.00 draw, W.

22.00 ascend long slope of hill

40.04 search again in this vicinity for 1/4 cor. but am unable to find any trace of corner.

76.00 top of hill

80.00 the Std. Tp. cor. heretofore described.

Land rolling and hilly. Soil stony & gravelly, 4th. rate.

Fair grass. Scattering cedars.

Thence I run East on random line, on 5th. Std. Parallel North. searching for corners, on S. bdy. of sec. 31

40.00 no indications of Std. 1/4 cor.

80.00 no trace of Std. cor. for secs. 31 & 32

Continue line East, new measurement.

Measurement 5th. Std. Parallel N., through Rs. 28 E., T. 2 S., R. 11 W., Arizona.

40.00 find no trace of the Std. 1/4 cor. for sec. 32, set temp. stake.
79.48 fall 2.24 chs. N. of the Std. cor. for secs. 32 & 33, an old cedar post 2 x 3 x 30 ins. above ground, marked 3 on E. (other marks illegible) R-32 on SW and 2 grooves on SW (other marks on post, but illegible.) It is a very old post, badly decayed, but set rather firmly in the ground.

From my point on random line 2.24 chs. N. of old post, I run East on S. bdy. of sec. 35

40.27 fall 3.18 chs. N. of an old post, set loosely in the ground, marked 1/4 S C (very faint) on S. side. Many old cedars in vicinity of post but can find no trees marked. It is doubtful if any marks could be seen on these old gnarled cedars. Continue line and measurement.

80.27 fall 3.76 chs. N. of the Std. cor. for secs. 33 & 34, an old cedar post, 4 ins. diam., loose on top of ground, marked T 21 N R 28 E S C, other marks illegible. Post may have lain down here for many years, as nothing would disturb it. These posts rot off on surface of the ground and fall over.

From my point on random line 3.76 chs. N. of old post, I run East on S. bdy. of sec. 34

40.03 fall 3.11 chs. N. of the Std. 1/4 cor. for sec. 34, an old round cedar post 2 1/2 ins. diam., marked 1/4 S - rest illegible. Post loose on top of ground, but has been there evidently for many years as the depression in the ground indicates. Continue line & measurement.

80.00 no trace of cor. found.

Continue random line East, on S. bdy. of sec. 35

40.00 no corner found.

80.00 no corner found.

Continue random line East, on S. bdy. sec. 36

40.00 no corner found

86.20 intersect the range line bet. Rs. 28 & 29 E., as run by me South from the cor. for secs. 25, 30 31 & 36, 19.87 chs. N. of the temp. Std. Tp. cor. set by me on Feb. 8, 1910.

Feb. 10, 1910.

Feb. 11, 1910. From the point of intersection on the 5th. Std. Parallel North with the S. line bet. Rs. 28 & 29 E. (random line) I continue East on random line, searching extensively for corners.

Retracement of the 5th. Std. Parallel North, through Range 29 E., G. & S. R. M. Arizona.

164.96 fall 13.18 chs. N. of the Std. cor. for secs. 32 & 33, an old cedar post, almost wholly decayed, lying flat on the ground, marked T 21 N R 29 E S C. No other marks visible. 4 ins. below surface of the ground I found a piece of wood belonging to this post, this piece was exactly at the lower end of post and shows, that the post rotted off and fell over. I consider this corner well identified, as much so, as if the post had been standing intact.

The nearest corner west on the standard line is the Std. 1/4 cor. for sec. 34, Range 28 E. 371.16 chs. distant and the falling of this Std. cor. (32 & 33) is 10.07 S. of the Std. 1/4 cor. on a line due E. from the latter.

The course of the line bet. the said two corners is therefore S. 88° 27' E.

Feb. 11-1910.

Feb. 12, 1910. At the Std. cor. for Ts. 21 N. Rs. 27 & 28 E., heretofore described, at 9 o'cl. a.m., I set off 13° 49' 50" on the decl. arc, 35° 10' 30" on the lat. arc and determine a meridian with the solar.

I set the old cor. stake solidly in the ground, dig pits 24 x 24 x 14 ins. deep E. & W. of corner 4 ft. dist. and N. of cor. 8 ft. dist and raised a mound of earth 4 ft. base, 3 ft. high N. of corner. From which

a cedar 9 ins. diam. bears N. 33° 35' W. 1.96 chs. dist., marked S C T 21 N R 27 E S 30 B T

a cedar 4 ins. diam. bears N. 10° 43' E. 2.01 1/2 chs. dist. marked S C T 21 N R 28 E S 31 B T, no other trees near.

From this cor. I run S. 89° 12' E. on S. bdy. of sec 31 on 5th. Std. Parl. N., through R. 28 E.

Reestablishment 5th. Std. Parallel North, R. 28 E.

ascending.

- 9.00 enter dense cedars
- 14.00 top of slope.
- 14.50 descend through very dense cedars.
- 39.87 (prop. dist.) set a hard sand stone 10 x 12 x 14 ins., 2/3 in the ground for Std. 1/4 cor. for sec 31, marked SC 1/4 on N. face, from which
- a cedar 9 ins. diam. bears N. 55° W. 1.25 lks. dist., marked S C 1/4 S 31 B T
- a cedar 7 ins. diam. bears N. 3° 55' E. 1.52 lks. dist., marked S C 1/4 S 31 B T

Reestablishment of the 5th.Std.Parallel North,through Range 28 E.,G & S.R.M. Arizona.

From this cor.I run S.89°12'E.
 15.00 leave dense cedars & through-scattering cedars.
 39.87 Set a hard sand stone 9 x 13 x 18 ins.2/3 in the ground,for
 Std.cor.for secs.31 & 32, marked S C on N.,5 grooves on E.
 and 1 groove on W.faces, from which
 a cedar 6 ins.diam.bears N.0°4'E. 78 lks.dist.,marked S C T
 21 N R 28 E S 32 B T, no other trees in limits. Dug 3 pits
 24 x 24 x 15 ins.deep E & W of cor.3 ft.dist.and N.of cor.
 7 ft.dist.and raised a mound of earth 4 ft.base,2 1/2 ft.
 high N.of corner.
 Total length of line 79.74 chs.
 Land rolling.Soil sandy & gravelly,2nd.& 3rd.rate.Fair grass.
 Dense & scattering cedar timber.

Thence I run S.89°12'E.on S.bdy.of sec.32, ascending.
 35.50 top of slope
 35.75 descend
 39.87 Set a cedar post 7 ins.square,4 ft.long,2 ft.in the ground
 for Std.1/4 cor.for sec.32, marked S C 1/4 S 32 on N.face,
 from which a cedar 8 ins.diam.bears N.61°50'W. 123 lks.dist.
 marked S C 1/4 S 32 B T
 a cedar 9 ins.diam.bears N.16°30'E. 115 lks.dist.,marked
 S C 1/4 S 32 B T

From this cor I run S.89°12'E., descending.
 39.87 the old Std.cor.,heretofore described. Set a new cedar post
 8 ins.square,4 ft.long,2 ft.in the ground for Std.cor.for secs.
 32 & 33, marked S C T 21 N R 28 E on N.,S 32 on W.,and S 33
 on E.faces, from which a cedar 4 ins.diam.bears N.65°20'E.
 388 lks.dist. (only tree in vicinity),marked S C T 21 N R
 28 E S 33 B T , Dug pits 24 x 24 x 14 ins.deep,E.& W.of cor.
 3 ft.dist.& N.of cor.7 ft.dist.and raised a mound of earth
 4 ft.base,3 ft.high N.of cor.3 1/2 ft.dist.
 Total length of line 79.74 chs.
 Land rolling. Soil sandy & gravelly,3rd.rate.Fair grass.
 Very few scattering cedars.
 Weather too stormy and blustery and have to abandon further
 work today. Feb.12,1910.

Feb.14,1910. I begin at the Std.cor.for secs.32 & 33 and at
 9 ocl.a.m.,I set off 13°^{8'}5'on the decl.arc, 35°10'30"_N on
 the lat.arc and determine a meridian with the solar.
 Thence I run S.88°40'E.on S.bdy.of sec.33 on 5th.Std.Parl.N.
 40.28 The old Std.1/4 cor.,heretofore described. Set a hard sand

Reestablishment of the 5th. Std. Parallel North, through Range 28 E., G. & S. R. M. Arizona.

- stone 4 x 12 x 16 ins. $\frac{2}{3}$ in the ground for Std. $\frac{1}{4}$ cor. for sec. 33, marked S C $\frac{1}{4}$ on N. face, dig pits 24 x 24 x 12 ins. deep E & W. of stone, 3 ft. dist. and raised a mound of earth $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high N. of stone $2\frac{1}{2}$ ft. dist.
- A cedar 9 ins. diam. bears N. $4^{\circ}10'$ W. 186 $\frac{1}{2}$ lks. dist., marked S C $\frac{1}{4}$ S 33 B T (no other trees within limits)
- Thence T run S. $89^{\circ}10'$ E.
- 20.68 road, NE & SW
- 40.00 the Std. cor. for secs. 33 & 34, heretofore described.
- Set a hard sand stone 7 x 11 x 17 ins. $\frac{2}{3}$ in the ground for Std. cor. for secs. 33 & 34, marked SC on N., 3 grooves on E & W faces. Dug 3 pits 24 x 24 x 14 ins. deep, E. & W. of stone 3 ft. dist. and N. of stone 7 ft. dist. and raised a mound of earth $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high N. of stone $3\frac{1}{2}$ ft. dist.
- No trees within limits.
- Land rolling. Soil sandy & gravelly, 2nd. & 3rd. rate. Fair grass. Few scattering cedars.
- Total length of line 80.28 chs.
-
- At this cor. at noon, I set off $13^{\circ}5'30''$ on the decl. arc, and observe the sun on the meridian, the resulting lat. is $35^{\circ}10'20''$ N.
- Thence I run N. $89^{\circ}04'$ E. on S. bdy. of sec. 34
- 40.03 the old Std. $\frac{1}{4}$ cor., heretofore described. Set a limestone 4 x 15 x 17 ins. $\frac{2}{3}$ in the ground for Std. $\frac{1}{4}$ cor. for sec. 34, marked SC $\frac{1}{4}$ on N. face. Dig pits 24 x 24 x 15 ins. deep E & W of stone, 3 ft. dist. and raised a mound of earth 3 ft. base, $2\frac{1}{2}$ ft. high N. of stone $2\frac{1}{2}$ ft. dist.
- No trees within limits.
- From this cor. I run S. $88^{\circ}27'$ E. (calculated course for the remainder of line E. to the Std. Tp. cor.)
- Over nearly level mesa land.
- 41.24 Set a hard sand stone 5 x 13 x 14 ins., $\frac{2}{3}$ in the ground for Std. cor. for secs. 34 & 35, marked SC on N., 4 grooves on W., 2 grooves on E. faces. From which
- A cedar 10 ins. diam. bears N. $66^{\circ}37'$ E. 149 $\frac{1}{2}$ lks. dist., marked S C T 21 N R 28 E S 35 B T
- A cedar 4 ins. diam. bears N. $30^{\circ}17'$ W. 233 lks. dist., marked S C T 21 N R 28 E S 34 B T
- Land nearly level mesa. Soil sandy, 2nd. rate. Fair gramma grass. Very few scattering cedars.
- Total length of line 81.27 chs.
- Snow storm makes further work impossible. Below zero.
- Feb. 14, 1910.

Restablishment of the 5th.Std.Parallel North,through Range 28 E.,G.& S.R.M.
Arizona.

- Feb.15,1910. I begin at the corner for secs.34 & 35 on the 5th.Std.Parallel North in Range 28 E. and at 9 ocl.a.m. I setoff $12^{\circ}48'30''$ ⁴⁷ on the decl.arc, $35^{\circ}10'30''$ ⁵ on the lat.arc and determine a meridian with the solar. Thence I run S.88°27'E.on S.bdy.of sec.35
- 7.75 descend.
- 41.24 Set a white limestone $4\frac{1}{2} \times 12 \times 16$ ins., $\frac{2}{3}$ in the ground for Std. $\frac{1}{4}$ cor.sec.35,marked SC $\frac{1}{4}$ on N.face,dug pits $24 \times 24 \times 13$ ins.deep,E.& W.of stone,3 ft.dist.and raised a mound of earth $3\frac{1}{2}$ ft.base, $2\frac{1}{2}$ ft.high,N.of corner. No trees within limits. From this cor I run S.88°27'E. over rolling land.
- 34.00 ascend red sandstone hill,from dry arroyo,course N.
- 41.24 Set a red sandstone $3 \times 12 \times 18$ ins. $\frac{2}{3}$ in the ground for Std.cor.for secs.35 & 36,marked SC on the N.,5 grooves on W.and 1 groove on E.faces. A cedar 5 ins.diam.bears N.42°50'W.77 $\frac{1}{2}$ lks.dist.,marked S C T 21 N R 28 E S 35 B T (no other trees within limits) Raised a mound of stones $2\frac{1}{2}$ ft.base, $2\frac{1}{2}$ ft.high,W.of corner, $2\frac{1}{2}$ ft.dist. Pits impracticable. Land hilly. Soil sandy & stony,2nd.& 3rd.rate.Poor grass. Scattering cedars. Total length of line 82.48 chs.
-
- Thence I run S.88°27'E.on S.bdy.of sec.36.
- 6.44 descend red sandstone hill
- 6.64 dry wash, N.
- 29.14 ascend
- 29.24 top
- 34.00 descend
- 34.40 draw, N.
- 35.00 ascend
- 35.40 top
- 41.24 Set a limestone $2 \times 10 \times 18$ ins., $\frac{2}{3}$ in the ground,for Std. $\frac{1}{4}$ cor.for sec.36,marked SC $\frac{1}{4}$ on N.face.Dug 2 pits $24 \times 26 \times 15$ ins.deep,E & W.of stone,3 ft.dist.and raised a mound of earth $3\frac{1}{2}$ ft.base, $2\frac{1}{2}$ ft.high,N.of corner. No trees within limits. At this cor.at noon,I set off $12^{\circ}48'$ ^{15'S} on the decl.arc and observe the sun on the meridian, the resulting latitude is $35^{\circ}10'30''$ N. From this cor.I run S.88°27'E.
- 23.24 descend
- 24.64 dry wash, N.

Reestablishment of the 5th. Std. Parallel North, through Range 28 E., G. & S.R.M. Arizona.

27.00 The spring mentioned in the original notes bears north
8.50 chs. dist.

29.09 ascend hill

29.95 top of ridge, descend.

41.24 the point for the Std. tp. cor. T. 21 N. Rs. 28 & 29 E. (this
point falls 5.60^{chs} S. of the point marked by me in running the
random line. The point for the Std. Tp. Cor. falls in a draw
where it soon would be destroyed and the only available
location for a Wit. cor. is South of the true point, therefore
1 ch. S. of true point for the Std. Tp. Cor., on N. slope of hill,
and about 30 lks. S. of a wagon road, I set a hard sandstone
boulder 16 x 18 x 24 ins., 3/4 in the ground, marked SC 21 N
on N., 29 E on E. and 28 E on W. faces, with 6 grooves on N, E
& W. faces. Dig 3 pits 30 x 26 x 14 ins. E. & W. of stone, 4 ft. dist.
and N. of stone 8 ft. distant. *and raise mound of earth 4 ft. base, 3 ft. high 1/2 of cor.* Wit. Cor. on top of stone.
No trees within limits.
Land hilly & rough. Soil Sandy & stony, 4th. & 2nd. rate.
Poor grass. Few scattering cedars.
Total length of line 82.48 chs.

Feb. 15, 1910.

It begins to storm again and I have to abandon work for the
day. I am 16 miles from camp. Have completed work at this end
and it would at any rate be too late to go to some other
locality, if the weather was favorable.

Feb. 16, 1910. Mr. Peterson, the Allotting Agent requested me
to reestablish the Range line bet. Rs. 27 & 28 E. bet. secs.
1 & 6 in T. 20 N. In order to ^{do} so, I go to the corner for secs.
32, 33, 4 & 5 on S. bdy. of T. 20 N. E. 27 E. (shown me by Mr. Peterson)
which is a red sandstone 6 x 12 x 20 ins. loose on top of a
mound of stones, marked with 6 grooves on one and 4 grooves
on another side. I do not know, what this cor. stands for but
the Surveyor for the Allotting Agent informed me, that he has
retraced more than 10 miles west of this corner and that
he is certain, that it stands where the cor. for secs. 32 &
33 should be or approximately so.

I set up over this corner and run East on S. bdy. of the tp.

Retracement S. bdy. T. 20 N. R. 27 E.

40.00 found no cor.

80.00 found no cor.

120.00 found no cor.

160.58 fall 27 lks. N. of an old cedar post 5 ins. square, loosely
leaning in the ground, marked T20NR27ES rest decayed on
one side, SXX rest decayed, T19NR rest decayed, S2 rest
decayed. It is an old cor. & I found some rotted wood belonging

Retracement of S.Bdy.of T.20 N.R.27 E.B.& S.R.Meridian in Arizona.

- evidently to this stake, in the ground under the post.
From this cor. I run East
- 40.03 fall 24 lks. N. of the 1/4 cor. bet. secs. 2 & 35, an old cedar post 3 ins. diam. loosely in ground, marked 1/4 S 2 on S. side.
I set this post solidly in the ground, dug 4 pits, 24 x 24 x 12 ins. deep E & W. of post 3 ft. dist. and raised a mound of earth 3 1/2 ft. base, 2 1/2 ft. high, N. of corner, 2 1/2 ft. dist.
(I return to the cor. a half mile west, the cor. for secs. 2, 3, 34 & 35, and set post solid in the ground, dug 4 pits 24 x 24 x 14 ins. deep crosswise in each section and raised a mound of earth 4 ft. base, 3 ft. high, W. of post, 5 ft. dist.
Thence I return to the 1/4 cor. bet. secs. 2 & 35 and run East bet. secs. 2 & 35
- 40.00 found no cor. Thence with new measurement.
- 39.71 fall 229 lks. N. of the 1/4 cor. bet. secs. 1 & 36, an old crooked cedar post, about 3 ins. diam., marked 1/4 S on N. side.
Some other marks on post, but they are illegible.
I dig 2 good pits E. & W. of post and raise mound of earth N. of post.
- 80.00 made diligent search for the tp. cor. for more than an hour but find no trace of it. Set temp. stake.
From this point I run North, retracing
- Range line bet. Rs. 27 & 28 E. T. 20 N.
- 40.00 found no trace of the 1/4 corner.
- 79.60 fall 273 lks. W. of the cor. for secs. 25, 30, 31 & 36, a limestone, 3 x 12 x 9 ins. above ground, half decayed, marked with 1 groove on S. & 5 grooves on N. faces, I A on E. face. No pits or mound.
From this cor. I run North bet. secs. 25 & 30
- 40.08 fall 10 lks. E. of the 1/4 cor. bet. secs. 25 & 30, a limestone 3 x 7 x 14 ins. above ground, marked 1/4 on W., I A on E. faces.
No pits or mound.
- 80.20 fall 11 lks. W. of the cor. for secs. 19, 24, 25 & 30, an old cedar post, 2 1/2 ins. diam. set solid in the ground, marked T 20 N R-8 rest is decayed, on E. side. No witnesses.
From this cor. I run North
- 40.00 an old cedar stake, 1 1/2 ins. diam. loose on top of ground bears N. 68° 5' W. 137 lks., stake marked 1/4 S, rest illegible.
Continue line
- 80.00 found no corner. Set a temp. stake.
- 120.00 No cor. Set stake.
- 160.00 no cor. Set stake.
- 200.00 no cor. Set stake.
- 240.00 no cor. Set stake. Thence from this point I run North

bet. secs. 1 & 6
 40.00 found no corner.
 80.00 found no trace of C.C.
 90.69 intersect the 5th. Std. Parallel North S. 89° 12' E. 21.72 chs. from the Std. Cor. for Ts. 21 N. Rs. 27 & 28 E. At the point of intersection I set conglomerate rock 12 x 14 x 19 ins. 3/4 in the ground for C.C. for Ts. 20 N. R. 27 & 28 E., marked C C 20 N on S., 28 E on E., 27 E on W., 6 grooves on E. S. & W. faces. from which a cedar 14 ins. diam. bears S. 33° 45' E. 103 lks. dist. marked T 20 N R 28 E S 6 C C B T
 a cedar 9 ins. diam. bears S. 6° 43' W. 123 lks. dist., marked T 20 N R ~~27~~ E S 1 C C B T

Feb. 16, 1910.

Feb. 17, 1910. I spend this day with my party, setting corners on the Standard lines, which corners were for convenience sake, described in the notes of the resurvey of that line.

Feb. 18, 1910. As some allotments to Navajo Indians are to be made in Sec. 6, T. 20 N. R. 28 E. and as the location of such allotments is dependent on corners on the range line between Rs. 27 & 28 E., just retraced by me, the Allotting Agent has requested me to reestablish the line bet. secs. 1 & 6, on said Range line.

The only corner on the range line, identified as an original corner in place, is the cor. for secs. 19, 24, 25 & 30, heretofore described. The length of the range line from this cor. north to the intersection with the 5th. Std. Parl. N. is 330.69 chs. - 4 ms. 10.69 chs. as determined by me through careful chaining. The distance given in the original notes is 322.69 chs., the line bet. secs. 1 & 6 being stated as 82.69 chs. I apportion the excess of my measurement and reestablish the corner for secs. 1, 6, 7 & 12 as follows.

I go to the temp. stake set by me at the point for cor. 1, 6, 7 & 12, 3 miles N. of the last identified cor. on range line (19, 24, 25 & 30) and at this point at 9 o'cl. a.m., I set off 11° ^{45' S.} 46' on the decl. arc, 35° 9' 30" N. the lat. arc and determine a meridian with the solar.

from this point I run North

5.94 Set a hard sandstone 10 x 13 x 15 ins. 2/3 in the ground, for corner for secs. 1, 6, 7 & 12, marked with 1 notch on N. and 5 notches on S. faces, + on top, from which a cedar 7 ins. diam. bears N. 64° 53' E. 92 lks. dist., marked T 20 N R 28 E S 6 B T

Reestablishment of Range line bet. Rs. 27 & 28 E., T. 20 N., G & S. R. Meridian, Ariz

A cedar 6 ins. diam bears N. 52° 6' W. 160 1/2 lks. dist., marked
T 20 N R 27 E S 1 B T

A cedar 10 ins. diam. bears S. 26° 27' W. 145 lks. dist., marked
T 20 N R 27 E S 12 B T

A cedar 11 ins. diam. bears S. 29° 36' E. 157 1/2 lks. dist., marked
T 20 N R 28 E S 7 B T

(The range line bet. Rs. 27 & 28 E., T. 20 N. is fairly well identified by the old cors. found thereon and its position is also fairly well proved by old corners on the S. bdy. of T. 20 N. R. 27 E., its ^{original} closing on the 5th. Std. Parl. N. seems to be purely fictitious. It seems strange, that not a closing cor. on the std. line was found, while a majority of the ^{Std.} corners were identified, in Range 28 E.

Mr. Peterson, the Allotting Agent and his surveyor informed me that both had retraced the Std. line West from the Std. Tp. cor. for Ts. 21 N. R. 27 & 28 E. for a distance of 16 miles and had been unable to find any trace of corners. It seemed therefor useless to attempt to establish the C. C. for Ts. 20 N. Rs. 27 & 28 by any other method than that employed by me, running north from the last identified old corner and setting the Closing Tp. cor. at the intersection of the range line with the Standard Parallel. This I believe will prevent confusion later on if the adjoining lands should be taken up.

As there are no corners within T. 20 N. R. 27 E. found, also no interior corners in R. 28 E. T. 20 N., save those which the Indian Office proposed to set for allotments to Indians, the range line as reestablished by me, due north from the cor. for secs. 19, 24, 25 & 30 will prove the best way out of a perplexing condition.

40.99 From the cor. for secs. 1, 6, 7 & 12, reestablished by me, I run North bet. secs. 1 & 6, through dense cedars, over rolling land. (prop. dist.) Set a hard sand stone 7 x 12 x 15 ins., 2/3 in the ground for 1/4 cor. bet. secs. 1 & 6, marked 1/4 on W. face. Dig 2 pits 24 x 24 x 13 ins. N. & S. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base, 2 1/2 ft. high W. of stone 2 1/2 ft. dist. No trees within limits. Cor. stands in draw among low rolling hills.

43.76 Continue line with new measurement, through scattering cedars the C. C. for Ts. 20 N. Rs. 27 & 28 E. on 5 th. Std. Parl. N., heretofore established and described.

Land rolling. Soil sandy & gravelly, 2nd. & 3rd. rate. Fair grass. Dense & scattering cedar timber.

Total length of line 84.75 chs.

Feb. 18, 1910.

Note :This completes the reestablishments in conformity with instructions from the U.S.Surveyor General for Arizona and all that was requested by Mr. W.M.Peterson, the Allotting agent for the Indian Office.

William Strover
U.S.Surveyor,G.L.O.

*All int. Corrections authorized
by letter of July 24-1911.*

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

13
92

BOOK 2253

LIST OF NAMES.

A list of the names of the individuals employed by William Strover
_____, United States ~~Deputy~~ Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of _____

Exterior lines

showing the respective capacities in which they acted:

Chas. F. Strover _____, Chainman.

E. C. Hampel _____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Arman.

Sam Chisum _____, Arman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all

those parts or portions of the _____

_____ of the _____

_____ meridian, _____ of _____, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey

has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

corner monuments established, according to the instructions furnished by the United States Surveyor

General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Arman.

_____, Arman.

_____, Flagman.

Subscribed and sworn to before me this _____ }

day of _____, 189 _____ }



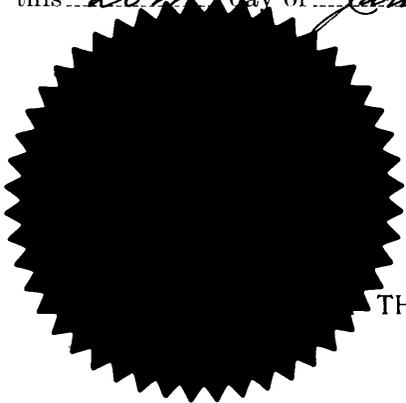
2314
BOOK 2253

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, William Storer, United States ~~Deputy~~ Surveyor, do solemnly swear that, in pursuance of a ~~contract~~ ^{instructions} received from the United States Surveyor General for Arizona, bearing date of the 14th day of January, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the 5th Std. Par. North, Tns. R. 28 E.
Retracement of R. line bet. Rs. 27, 28 & 28, 29 E. in T. 21 N.
Retracement & Reestablish. of R. line bet. Rs. 27, 28 E. in T. 20 N.
Retracement of T. line bet. Ts. 19, 20 N. R. 27 E. of the
Gila & Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, ~~and the special written instructions of the United States Surveyor General for~~ Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

William Storer
United States ~~Deputy~~ Surveyor.
S.L.O.

Subscribed by said William Storer, and sworn to before me }
this 20th day of January, 1911.



Matthew Kyle
U.S. Surveyor General for Nevada.

APPROVAL.

THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. March 3, 1911.

The foregoing field notes of the survey of the Fifth Standard
Parallel North ^{re} through Range 28 East and from
West Boundary of Tp. 20 N. R. 28 East, of the Gila
and Salt River Base and Meridian, Arizona

executed by William Storer
under his ~~contract~~ ^{instructions} No. , dated January 14 - 1910, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in , has been correctly copied from the original notes on file in this office.

United States Surveyor General.