4—679.

Book. C.

2086   BOOK 2086

FIELD NOTES

2086

OF THE SURVEY OF THE

Subdivision Lines of Tp. 31 N. R. 11 E.   **2086**

2086

Of the *Gila and Salt River Base and* Meridian,

in the Territory of Arizona

AS SURVEYED BY

Sidney E. Blunt , United States ~~Deputy Surveyor~~, *Examiner of Surveys*

Under ~~his Contract No~~ *Instructions* dated *Oct. 2nd* , 1907

Survey commenced *November 22nd* , 1907

Survey completed *December 5th* , 1907

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2086

2086   **2086**

NAMES AND DUTIES OF ASSISTANTS.

J. G. Kurtz	Transitman
R. L. Warner	Chainman
F. J. Kline	Chainman
Norman Oliver	Moundman
H. L. Nay	Flagman

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BOOK 2086

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Township *31 North*, Range *11 East*

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*Meanders Page*_____

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____ do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____)

day of _____, 190)

_____

_____

WE, _____ and _____ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____)

day of _____, 190)

_____

_____

WE, _____ and _____ do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____)

day of _____, 190)

_____

_____

I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the

survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____)

day of _____, 190)

_____

_____

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Subdivision of Tp. 31 N., R 11 E.

Chains

Survey Commenced November
22nd 1907. and executed with a Young and Sons
light mountain transit No. 10 with
solar attachment. The horizontal limb
is provided with two double verniers
placed opposite to each other reading to
single minutes of arc. which is also the
least count of the verniers of the lat.
and decl. arcs. —

I examine the adjustments of the
transit and correct the level and
collimation errors. then to test the
solar apparatus. by comparing its in=
dications resulting from solar obser=
vations made during a.m. and p.m.
hours with a true meridian determined
by observations on Polaris. I proceed
as follows

At my Camp. which is situated near
the Center of the township. Latitude 36°06 N.
I set off. 36°06' N. on the lat. arc, 20°00' S.
at 41.00 N. P.M. L.M.T. I
on the decl. arc and determine a meridian
with the solar, and mark a point thereof
by a nail driven in a stake set firmly
in the ground 5 chs. N. of my instrument.

November 22 1907

November 23rd 1907. At 3ʰ 18ᵐ a.m. I observe
Polaris at Western Elongation in accordance
with instructions in the Manual and
mark the direction thus determined by.
a nail driven in a stake set in the
ground 5.00 chs. N. of my instrument
At 6 a.m. I lay off the azimuth of Polaris
1°28' to the east and mark the meridian
thus determined by. a nail driven in
the stake already set 5 chs N. of my instrument
on which the meridian falls 0.4. ins.
east of the mark determined by the solar.
At 7ʰ 46ᵐ am. I m. I set off. 36°06' N.
on the lat. arc. 20°09' S on the decl. arc
and determine a meridian with the

solar and mark a point thereof by a nail
driven in the stake already set 5 chs.
N. of my instrument. this point falls
0.6 ins East of the point established by the
Polaris observation.

The solar apparatus, by p.m. and a.m.
observations defines positions for meridian
respectively about 21" west and 0° 31" East
of the meridian established by the Polaris
observation, there fore I conclude that the
adjustments of the instruments are
satisfactory.

I commence at the cor of secs 1.2. 35 and
36 on the south boundary of the W½.
At this cor I set off 36° 83 N. on the lat. arc and
20° 11' S on the decl arc and at 9ʰ 15ᵐ a.m.
determine a meridian with the solar
Thence I run

        No° 0' 1 W.   Bet. secs 35 and 36
Over rolling mesa land covered with scattering
sage and greasewood bush and bunch grass

1.50	North edge of Mesa bears N.W. and S.E. leave rolling land. descend N.W. slope over broken hilly land.
5.70	Dry ravine Course N.E. asc
7.50	Top of sand ridge bears N.E. and S.W. desc.
9.50	Dry ravine Course N.E. asc.
12.50	Top sand ridge bears N.E. and S.W. desc.
16.75	Dry ravine Course N.E. asc.
20.00	Top of sand ridge bears N.E. and S.W. desc.
34.90	Dry ravine Course N.E. banks 2 ft. high.
40.00	Set a lime stone 18 x 14 x 4 ins. 12 ins. in the ground for ¼ sec. cor, marked ¼ on W. face , dig pits 18 x 18 x 12 ins. N and S of stone 3 ft. dist, and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor
62.00	Foot of descent in West side of Circular Valley bears N.E. and S.W. asc gently over rolling land
80.00	Set a lime stone 16 x 8 x 4 ins. 12 ins in the ground for Cor. of secs 25. 26. 35 and 36 marked with 1 notch on E and S edges dig pits 18 x 18 x 12 ins. in each sec 6½ ft

dirt and raise a mound of earth 4 ft.
base 2 ft. high W of cor.
Land rolling and hilly.
Soil sandy 3rd rate
No timber

S 89° 53' E. on a random line bet. secs
25 and 36.

40.00 Set temp. ¼ sec. cor.
79.88 Fall 5 lks N. of the cor. of secs. 25. 30. 31 and 36.
Thence run
N 89° 51' W. on true line bet. secs 25 and 36.
Over rolling bottom land. Covered with
scattering greasewood and sage brush and
bunch grass
39.94 Set a lime stone 18 x 9 x 4 ins. 12. ins in the
ground for ¼ sec. cor. marked ¼ on N. face
dig. pits 18 x 18 x 12 ins. E and W of stone 3 ft.
dist. and raise a mound of earth 3½ ft.
base ½ ft. high N. of cor.
79.88 The cor. of secs 25. 26. 35 and 36.
Land rolling
Soil sandy 2nd and 3rd rate.
No timber

NOTE At this cor. I set off. 20° 13' S. on the decl.
arc and at 11h 46m a.m. I met observe the
sun on the meridian, the resulting
latitude being 36° 04' N.

N 0° 01' W Bet. secs 25 and 26.
Ascend gradually S.W. slope over sandy
land covered with scattering sage and
greasewood brush and bunch grass.
40.00 Set a lime stone 16 x 8 x 4 ins. 12 ins. in
the ground for ¼ sec. cor. marked ¼ on
W. face. dig. pits 18 x 18 x 12 ins. N and S of.
stone 3 ft. dist. and raise a mound
of earth 3½ ft. base 1½ ft. high W
of cor.
48.50 Top of ascent on S. edge of Mesa, bear

	N.E. and S.W. thence over nearly level land.
60.40	North edge of Mesa bears N.E. and S W bear level land bears N.E. and S.W. desc. N.W. slope over broken hilly land.
80.00	Set a lime stone 18x8x4 ins 12 ins. in the ground for Cor. of secs. 23, 24, 25 and 26 marked with 1 notch on E and 2 notches on S. edges. dig pits 18x18x12 ins in each sec 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high. W. of Cor.
	Land level rolling and hilly.
	Soil sandy 1st and 3rd rate.
	No timber.

S 89° 51' E on a random line bet. secs. 24 and 25

40.00	Set temp ¼ sec. cor.
79.86	Fall 1 lk. N. of the Cor of secs 25, 30, 31 and 36 on the East bdy of tp.

Thence I run

N 89° 50' W. on a true line bet. secs. 24 and 25.   Ascend S.E. slope over hilly land covered with scattering sage and greasewood brush and bunch grass

3.36	Top of ascent on S.E. edge of mesa, bears N.E. and S.W. thence over rolling land.
16.06	Head of dry ravine course S.
39.93	Set a lime stone 16x12x6 ins 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face. Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor., pits impracticable
41.36	West edge of mesa. bears N.E. and S.W. bears rolling land bears N.E. and S.W. descend. N.W. slope over broken hilly land
45.25	Dry ravine course N.W. ascend.
46.06	Top of sand ridge bears N and S. desc.
48.25	Dry ravine course N.W. ascend.
49.26	Top of sand ridge bears N.E. and S.W. desc.
51.21	Dry ravine course N.E. asc.

Subdivision of Tp. 31 N. R 11 E.

Chains

52.51	Top of sand ridge bears N.E. and S.W. desc.
57.36	Enter dry sand wash Course N.W. thence in wash.
59.61	Leave dry ravine Course N.W. asc
79.86	The Cor of secs 23, 24, 25 and 26. Land hilly and rolling Soil sandy 3rd and 4th rate. No timber.

November 23rd 1907

November 24th 1907. At 7h 47m a.m. l.m.t. I set off 36° 05′ N. on the lat. arc. 20°22′ 10/7 S on the decl. arc and determine a meridian with the solar at the Cor of secs. 23 24 25 and 26 Thence I run

N. 0° 31′ W. Bet. secs. 23 and 24

Descend steep N. slope over hilly land covered with scattering sage and greasewood brush and bunch grass

10.00	Foot of descent leave hilly land bears N.E and S.W. Enter rolling sandy mesa land bears N.E and S.W.
40.00	Set a lime stone 14 x 12 x 5 ins. 10 ins in the ground for ¼ sec. cor. marked ¼ on W face dig pits 18 x 18 x 12 ins N. and S. of stone 3ft dist and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
80.00	Set a lime stone 14 x 13 x 4 ins. 10 ins in the ground for Cor of secs 13, 14, 23 and 24 marked with 1 notch on E and 3 notches on S edges. dig pits 18 x 18 x 12 ins in each sec. 5½ ft dist and raise a mound of earth 4 ft base 2 ft high W. of cor. Land rolling and hilly Soil sandy 3rd rate. No timber.

S 89° 50′ E. on a random line bet. secs 13 and 24.

40.00	Set temp ¼ sec. cor.
79.94	Intersect the E. bdy. of Tp. 1 lk S. of the

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Chains

Cor. of secs. 13, 18, 19 and 24.
Thence I run

N 89° 51' W. on a true line bet. secs. 13 and 24
Over low rolling sand hills covered with
scattering sage and greasewood brush and
bunch grass.

39.97 Set a lime stone 14 x 12 x 5 ins. 10 ins in the
ground for ¼ sec. cor. marked ¼ on N. face
dig pits 18 x 18 x 12 ins. E and W of stone 3 ft.
dist and raise a mound of earth 3½ ft. base
1½ ft. high N. of cor.

79.94 The Cor. of secs. 13, 14, 23 and 24.
Land rolling sand hills
Soil sandy 3rd rate.
No timber.

Nov 24th At this cor. Decl. off. 20° 26' S. on the
decl. arc and at 11 h 47 m a. m. I met observe
the sun on the meridian and obtain on
the lat. arc. a reading of 36° 06' 0 N.

N 0° 01' W. Bet. secs 13 and 14
Over low rolling sand hills covered with
scattering sage and greasewood brush and
bunch grass.

40.00 Set a lime stone 18 x 10 x 5 ins. 12 ins in
the ground for ¼ sec. cor. marked ¼ on
N. face, dig pits 18 x 18 x 12 ins. N and S.
of stone 3 ft. dist. and raise a mound
of earth 3½ ft. base. 1½ ft. high W. of cor.

80.00 Set a lime stone 14 x 13 x 4 ins. 10 ins. in
the ground for Cor. of secs 11, 12, 13 and 14
marked with 1 notch on E and 4 notches
on S. edges. dig pits 18 x 18 x 12 ins. in
each sec 5½ ft. dist. and raise a mound
of earth 4 ft. base 2 ft. high W. of cor.
Land low rolling sand hills.
Soil sandy 3rd rate.
No timber.

S 89° 51' E on a random line bet. secs 12 and 13

Subdivision of Tp. 31 N., R 11 E.

Chains

40.00 — Set temp. 1/4 sec. cor.

79.98 — Intersect the E. bdry. of Tp. at the cor. of secs. 7. 12. 13 and 18.

Thence I run.

N 89° 51' W. on a true line bet. secs. 12 and 13. Descend gently N.W. slope over low sand hills. Covered with scattering sage and greasewood brush and bunch grass

29.96 — Dry ravine course N. asc. gently.

39.99 — Set a lime stone 14 x 8 x 5 ins. 10 ins. in the ground. for 1/4 sec. cor. marked 1/4 on N. face, raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor., Pits impracticable

47.00 — Top of sand ridge bears N.E. and S.W. desc. gently

79.98 — Set cor. of secs. 11. 12. 13 and 14.
Land rolling sand hills.
Soil sandy and stony 3rd and 4th rate.
No timber

November 24th 1907

November 26th 1907. At 1. 47 m p. m. I set off. 36° 07' N. on the lat. arc. 20° 51' S. on the decl. arc. and determine a true meridian with the solar at the cor. of secs. 11. 12. 13 and 14.

Thence I run

N 0° 01' W. bet. secs. 11 and 12 Over low rolling sand hills covered with scattering sage and greasewood brush and bunch grass.

40.00 — Set a lime stone 20 x 11 x 4 ins. 15 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face. dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.

65.00 — Dry ravine Course N.E. asc. ridge.

70.76 — Top of sand ridge bears N.E. and S.W. desc.

73.75 — Road. leads from Oraibi to Tuba Ariz bears N.W. and S.E.

80.00 — Set a lime stone 12 x 8 x 5 ins. 8 ins in the ground for cor of secs. 1. 2. 11 and 12. marked

with 1 notch on E and 5 notches on S. edges.
Raise a mound of stone 2 ft. base 1½ ft. high
W of cor. Pits impracticable
Land rolling sand hills.
Soil sandy 3rd rate.
No timber.

      S 89° 51' E on a random line bet. secs.
1 and 12

40.00 Set temp ¼ sec cor.

79.96 Intersect the E bdry. of Tp. at the cor. of
secs. 1. 6. 7 and 12.
Thence I run
N 89° 51' W. on a true line bet. secs 1 and
12. Descend N. W. slope over low sand ridge
covered with scattering sage and greasewood
brush and bunch grass

39.98 Set a line stone 16 x 8 x 4 ins 10 ins. in the
ground for ¼ sec cor. marked ¼ on N. face
Raise a mound of stone 2 ft. base 1½ ft.
high N. of cor. Pits impracticable

43.50 Dry ravine 25 lks. wide 6 ft. deep course NW.

53.40 Dry ravine 30 ft. deep 150 lks. wide course NE.
die steeply

57.50 Top of Mesa bears N.W. and S.E. Enter rolling
land bears N.E. and S.W.

72.40 West edge of Mesa, leave rolling land.
bears N.E. and S.W. descend W slope over
hilly land.

79.96 The cor. of secs. 1. 2. 11 and 12.
Land rolling and hilly,
Soil sandy and stony 3rd and 4th rate.
No timber.

      N 0° 01' W. on a random line bet. secs.
1 and 2

40.00 Set temp ¼ sec. cor.

79.86 Intersect the N. bdry. of Tp. 21 lks. E of
the cor. of secs. 1. 2. 35 and 36.
Thence I run
S 0° 01' E. on a true line bet. secs 1 and 2

Chains

Descend S.E. slope and rolling Mesa land.
Covered with scattering bunch grass

1.05   Road bears N 80° E and S 80° W; Leads from
Tuba Ariz to Red Lake Ariz.

6.44   Top of perpendicular sand stone cliff. 40 ft.
high disc cliff.

7.75   Foot of cliff. Enter level bottom land.
along Moencopie Wash. bears N.E. and S.W.

21.00 Center of Moencopie Wash 2 chs. wide
banks 15 ft. high Course N.W.

21.70 Perpendicular bluff on South side of
Wash. Leave bottom land bear N.W. and S.E. asc. abruptly.

22.55 Top of bluff 100 ft. above wash bear
N.W. and S.E asc. gradually.

39.86 Set a lime stone 16×9×4 ins, 12 ins.
in the ground. for 1/4 sec. cor, marked
1/4 on W. face, dig pits 18×18×12 ins
N. and S. of stone 3 ft. dist. and raise
a mound of earth 3½ ft. base. 1½ ft. high
W of cor..

42.50 Top of sand ridge bears N.E. and S.W. dir.

79.75 Foot descent in dry ravine Course N.E.
asc.

79.86 The Cor. of secs. 1. 2. 11 and 12
Land rolling
Soil sandy and stony 2nd 3rd and 4th rate.
No timber
                    November 26th 1907

November 25th 1907. At. 8h 17m a.m. I.m.t
I set off. 36° 03' N. on the lat. arc. 20° 34' S
on the decl. arc and determine a meridian
with the solar at the cor. of secs. 2. 3. 34
and 35 on the S. bdy of the Tp.
Thence I run
N 0° 0¼' W. Bet. secs 34 and 35
Descend N.W. slope Mesa over sandy land
through scattering sage and greasewood
brush and bunch grass

14.50 Dry ravine Course S.W. asc.

31.00 Top of sand ridge bears N.E. and S.W. dir.

40.00 Set a lime stone 14×6×6 ins; 12 ins in

the ground for 1/4 sec. cor. mkd. 1/4 on W. face
dig pits 18x18x12 ins. N and S of stone 3 ft.
dist, and raise a mound of earth 3 1/2
ft. base 1 1/2 ft. high W of cor.

41.75 Dry ravine course S.W. etc.

48.40 Top Mesa bears N.E. and S.W. thence over
nearly level land.

74.50 North edge of Mesa bears N.E. and S.W. bears
nearly level land - bears N.E. and S.W. desc
N.W. slope mesa.

80.00 Set a lime stone 16x8x5 ins. 12 ins. in the
ground for cor. of secs. 26 27. 34 and 35
mkd. with 2 notches on E and 1 notch
on S edges, Raise a mound of stone
2 ft. base 1 1/2 ft. high W of cor. Pits impracticable.
Land rolling and level
Soil sandy 3rd rate
No timber

S 89° 53' E on a random line bet.
secs. 26 and 35

40.00 Set temp. 1/4 sec. cor.

79.90 Intersect N and S. line 1 lk. S of the cor. of
secs. 25. 26. 35 and 36.
Thence run

N 89° 54' W. on a true line bet. secs 26
and 35, Ascend S.E. slope on rolling
sandy land covered with scattering sage
and greasewood brush and bunch grass

39.95 Set a lime stone 14x6x6 ins. 10 ins.
in the ground for 1/4 sec. cor. mkd. 1/4
on N. face; dig. pits 18x18x12 ins. E and
W. of stone 3 ft. dist. and raise a mound
of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

70.00 Top of ascent on ridge bears N.E. and S.W.
desc. steeply.

76.40 Foot of descent in dry ravine course N.W.
etc.

79.90 The cor. of secs. 26. 27. 34 and 35
Land rolling and hilly,
Soil sandy and stony 3rd and 4th rate,
No timber.

Subdivision of T. 31 N., R 11 E

Chains

N 0° 0½' W. Bet. secs 26 and 27.
Descend steep N.E. slope of sand ridge
covered with scattering sage and greasewood,
brush and bunch grass.

9.15   Dry ravine course N.W. and.
13.50   Top of sand ridge bears N.W. and S.E. desc.
30.20   Same ravine course N.E. and.
32.40   Top of sand ridge bears N.E. and S.W. desc.
38.00   Foot descent from Mesa bears N.E. and S.W.
      Enter low sand hills.
40.00   Set a lime stone 15 × 6 × 6 ins. 10 ins. in
      the ground for ¼ sec. cor. mkd. ¼ on W.
      face, dig pits 18 × 18 × 12 ins. N. and S. of
      stone 3 ft. dist. and raise a mound
      of earth 3½ ft base 1½ ft. high. W. of
      cor.
80.00   Set a lime stone 13 × 8 × 4½ ins 9 ins. in
      the ground for cor. of secs 22. 23. 26 and
      27. mkd. with 2 notches on E and S
      edges, dig pits 18 × 18 × 12 ins. in each
      sec 5½ ft dist. and raise a mound
      of earth 4 ft. base 2 ft. high W. of cor.
      Sand hills.
      Soil sandy and stony 3rd and 4th rate.
      No timber.

S 89° 54' E on a random line bet
secs. 23 and 26.
40.00   Set temp. ¼ sec cor.
79.86   Intersect N and S. line 5 lks. S. of the cor
      of secs. 23. 24. 25 and 26.
      Thence Irun

N 89° 56' W. on a true line bet. secs
23 and 26. Over low sand hills
covered with scattering sage and greasewood
brush and bunch grass.
39.93   Set a lime stone 12 × 8 × 5 ins. 8 ins in
      the ground for ¼ sec cor. mkd. ¼ on
      N. face, dig pits 18 × 18 × 12 ins. E. and W.
      of stone 3 ft dist. and raise a mound
      of earth 3½ ft base 1½ ft high N. of cor.

79.86	The Cor. of secs. 22, 23, 26 and 27. Land hilly. Soil sandy 3rd rate. No timber

N. 0° 0½' W. Bet. secs 22 and 23.
Over low rolling sand hills. Covered with scattering sage and greasewood brush and bunch grass.

40.00	Set a line stone 12 × 7 × 7 ins, 8 ins. in the ground for ¼ sec. cor. mkd. ¼ on W face. Dig pits 18 × 18 × 12 ins. N. and S. of stone 3 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high W of cor.
80.00	Set a line stone 12 × 8 × 7 ins, 8 ins. in the ground for cor. of secs. 14, 15, 22, and 23 mkd. with 2 notches on E. and 3 notches on S edges. Dig pits 18 × 18 × 12 ins in each sec. 5½ ft. dist and raise a mound of earth 4 ft. base, 2 ft. high West of cor. Land hilly Soil sandy 3rd rate. No timber
NOTE	Clouds obscure the sun at noon today rendering an observation for latitude impossible.

November 25th 1907

November 26th 1907. At. 7h 47m a.m. line t. Deck. off 36° 06' N. on the lat. arc 20° 45' S. on the decl. arc and determine a meridian with the solar at the cor. of secs 14, 15, 22 and 23.
Thence run
S. 89° 56' E on a random line bet. secs. 14 and 23.

40.00	Set temp. ¼ sec cor.
79.80	Intersect N and S line 12 lks. N. of the cor. of secs. 13, 14, 23 and 24.

Thence run
N. 89° 51' W on a true line bet. secs. 14 and 23. Over rolling sand hills. Covered with scattering sage and greasewood brush and bunch grass

Subdivision of T. 31 N., R. 11 E.

Chains	
39.90	Set a lime stone 16×7×5 ins. 12 ins. in the ground for ¼ sec. cor. mkd ¼ on N. face dig pits 18×18×12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
79.80	The Cor of secs. 14 15 22 and 23
	Land rolling sand hills.
	Soil sandy 3rd rate.
	No timber.

S 0°02' W. Bet. secs. 14 and 15 –

Over low rolling sand hills covered with sage and greasewood brush and bunch grass.

40.00	Set a lime stone 15×8×6 ins. 10 ins. in the ground for ¼ sec. cor. mkd ¼ on W. face. dig pits 18×18×12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set a lime stone 18×7×6 ins 12 ins. in the ground for cor. of secs. 10, 11, 14, and 15. mkd. with 2 notches on E and 4 notches on S. edges., dig pits 18×18×12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land rolling sand hills.
	Soil sandy 3rd rate.
	No timber.

S 89°51' E. on a random line bet. secs. 11 and 14.

40.00	Set temp ¼ sec. cor.
79.80	Intersect N. and S. line 1 lk S of cor. of secs 11. 12. 13 and 14.
	Thence run
	N 89°52' W. on a true line bet. secs 11 and 14 Descend N.W. slope over low rolling sand hills covered with scattering sage and greasewood brush and bunch grass
3.80	Bottom of depression bear N.E. and S.W. asc

39.90	Set a lime stone 12 x 8 x 5 ins. 8 ins. in the ground. for 1/4 sec. cor. mkd. 1/4 on N. face dig pits 18 x 18 x 12 ins. E and W. of stone 3 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. N. of cor.
45.00	Top of sand ridge bears N.E. and S.W. desc.
55.25	Foot of sand ridge bears N.E. and S.W. thence over rolling land.
79.80	The cor. of secs. 10.11.14. and 15.
	Land rolling and hilly
	Soil sandy 3rd rate.
	No timber.
NOTE	At this cor. I set off 20° 49' S. on the decl. arc. and at 11h 47m l.m.t. Observe the sun on the meridian. the resulting lat. being 36° 06' N.
	November 26th 1907
	November 29th 1907. At 10h 17m a.m. l.m.t. I set off 36° 06' + N. on the lat. arc. 21° 21 1/2 S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 10.11.14 and 15. Thence I run
	N0° 02' W. Bet. sec. 10 and 11. Over low sand ridges covered with scattering sage and greasewood brush and bunch grass
40.00	Set a lime stone 13 x 10 x 4 ins. 9 ins. in the ground for 1/4 sec cor. mkd. 1/4 on W. face dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
72.75	Dry ravine course N.
74.25	Dry ravine course N. W. ascend S slope of ridge
80.00	Set a lime stone 14 x 10 x 10 ins. 10 ins. in the ground for cor. of secs. 2.3.10 and 11 mkd with 2 notches on E. and 5 notches on S. edges — dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land hilly.
	Soil sandy 3rd rate.

Subdivision of Tp. 31 N., R 11 E.

Chains

No timber
November 29th at the above Cor. Ditch off
21° 22' S. on the decl. arc. and at 11h 48m
a.m. l. m. t. observ. the sun on the meridian
the resulting latitude being 36° 07' N.

S 89° 52' E on a random line bet. secs
2 and 11.

40.00 Set temp 1/4 sec. cor

79.92 Intersect N and S. line. 8 chs. S of the
Cor. of secs. 1. 2. 11 and 12,
Thence I run

N 89° 55' W on a true line bet. secs
2 and 11. Descend N. W. slope over rolling
stony land. through scattering sage and
greasewood brush and bunch grass.

00.10 Dry ravine course N. E. asc.

13.00 Road from Orari-bi Ariz to Tuba Ariz bears
N. W. and S. E.

17.55 Top of steep ascent on ridge bears N W and
S. E. asc. gradually along top of ridge

39.00 Foot of a Mesa asc. abruptly.

39.96 Set a line stone 16 x 8 x 4 ins. 12 ins. in
the ground for 1/4 sec. cor. mkd. 1/4 on N.
face, Raise a mound of stone 2 ft. base
1 1/2 ft. high N. of cor. Pits impracticable.

42.00 Top of ascent on E edge of mesa. bears
N. and S. enter rolling stony land bears N and
S.

61.25 Leave Mesa bears N. and S. dec. W slope

79.92 The Cor of secs 2. 3. 10 and 11.
Land rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
No timber

N 0° 02' W on a random line bet. secs.
2 and 3.

40.00 Set. temp. 1/4 sec. cor.

79.82 Intersect the N. bdry of Tp. 48 chs. E of cor
of secs 2. 3. 34 and 35. on N bdry of Tp.
Thence I run

Subdivision of Tp. 31 N. R. 11 E.

Chains	
	S 0° 10' E. on a true line bet. secs 2 and 3 Descend steep S.W. slope into Moencopie's Wash. over stony land. through greasewood brush.
2.00	Top of sand stone ledges. desc abruptly
7.00	Foot descent Cross Moencopie Wash 150 lks wide between banks 20 ft. high. Course N.W.
8.62⁴	South side of wash. Enter level bottom land bears N.W. and S.E.
20.00	Leave level land at foot of perpendicular sand stone cliff bears N.W. and S.E. asc.
20.60	Top of cliff 75 ft high bears NW and S.E. ascend gradually.
23.57	Road bears N.W. and S.E. leads from Orgibi Ariz to Tuba Ariz
39.82	Set a lime stone 12 x 8 x 7 ins. 8 ins in the ground for ¼ sec. cor. mkd ¼ on W face. Raise a mound of stone 2 ft. base 1½ ft high W of cor. Pits impracticable
40.30	Head of ravine course N.W.
60.80	Top of ridge bears N.W. and S.E. desc
79.82	The Cor of secs. 2, 3, 10 and 11.
	Land level hilly and broken.
	Soil sandy and stony 2nd 3rd and 4th rate.
	No timber

November 29th 1907

November 27th 1907. At 8h 48m a.m. I was t Iset off. 36° 03' N. on the lat. arc 20° 58' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34 on the S bdry of the tp.

Thence I run

N 0° 02' W. Bet. secs 33 and 34

Ascend S slope. over hilly land covered with sage and greasewood brush and bunch grass.

2.30	Top of sand ridge bears N.E. and S.W. desc. N.W. slope.
14.00	Dry ravine course S.W. asc. steep S.W. slope sand ridge.
40.00	Set a sand stone 15 x 12 x 5 ins 10 ins in the

Chains

ground, for ¼ sec. cor. mkd ¼ on W. face, raise
a mound of stone 2 ft. base, 1½ ft. high W. of cor.
Pits impracticable

44.00 Top of ridge bears N.E. and S.W. desc.
75.00 Foot descent; enter low hills bears N.E. and S.W.
80.00 Set a line stone 18 x 6 x 6 ins. 12 ins. in the ground.
for cor. of secs 27, 28, 33 and 34, mkd with
3 notches on E and 1 notch on S edges; dig pits
18 x 18 x 12 ins in each sec 5½ ft. dist. and raise
a mound of earth 4 ft. base 2 ft. high W. of cor.
Land hilly.
Soil sandy 3rd rate.
No timber.

At this cor. I set off 20°49'S. on the decl arc
and at 11h48m a.m. l.m.t. observe the sun on
the meridian the resulting latitude being
36°04' N.
      S 89°53' E on a random line bet. secs.
27 and 34
40.00 Set temp ¼ sec. cor.
80.04 Intersect the N. and S. line 3 lks. S. of the
cor. of secs. 26, 27, 34 and 35
Thence I run
N 89°54' W on a true line bet. secs 27 and 34
Ascend E slope sand ridge through
scattering sage and greasewood brush and
bunch grass
00.75 Top of ridge 30 ft. above cor. bears N. and S.
desc.
8.20 Dry ravine course N.E. asc.
17.00 Top of sand ridge bears N and S. desc.
19.00 Dry ravine course S.W. asc.
29.50 Top of ridge bears N.E. and S.W. desc.
39.00 Dry ravine course N. asc.
40.02 Set a line stone 20 x 6 x 5 ins, 15 ins in
the ground for ¼ sec cor. mkd ¼ on N. face
dig pits 18 x 18 x 12 ins E. and W. of stone 3 ft.
dist. and raise a mound of earth 3½ ft.
base, 1½ ft. high N. of cor.
43.20 Top of sand ridge bears N.E. and S.W. desc.
66.00 Bottom of depression bears N.E. and S.W. asc

Chains

69.50	Top of sand ridge bears N.E. and S.W. direc.
80.04	The cor. of secs. 27, 28 33 and 34
	Land hilly
	Soil sandy 3rd and 4th rate.
	No timber.

N 0° 02' W. Bet. secs 27 and 28
Over low rolling sand hills covered with scattering
greasewood brush and bunch grass.

40.00	Set a lime stone 14 x 6 x 6 ins, 10 ins in the ground for 1/4 sec. cor. mkd 1/4 on W. face Dig pits 18x18x12 ins N and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set a lime stone 17 x 6 x 6 ins, 12 ins in the ground for cor. of secs. 21, 22, 27, and 28, mkd. with 3 notches on E and 2 notches on S edges, Dig pits 18x18x12 ins in each sec 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land low rolling sand hills.
	Soil sandy 3rd rate.
	No timber.

S 89° 54' E on a random line bet. secs.
22 and 27,

40.00	Set temp 1/4 sec. cor.
80.02	Intersect N and S. line 10 lks. S. of the cor. of secs. 22, 23, 26, and 27.
	Thence run

N 89° 58' W. on a true line bet. secs. 22 & 27
Over low rolling sand hills covered with
scattering sage and greasewood brush
and bunch grass.

| 40.01 | Set a lime stone 15 x 6 x 6 ins, 10 ins. in the ground for 1/4 sec. cor. mkd, 1/4 on N. face, Dig pits 18x18x12 ins E. and W. of stone 3 ft. dist and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. |

80.02 | The cor. of secs. 21, 22, 27 and 28.
Land hilly.
Soil sandy 3rd rate
No timber

November 27th 1907

November 28th 1907, at 2h 48m p.m. l.m.t.
I set off 36°05' N. on the lat. arc 21°12'S. on the
decl. arc and determine a meridian with
the solar at the cor. of secs. 21, 22, 27 and 28
Thence I run
N0°02' W. Bet. secs. 21 and 22.
Over low rolling sand hills covered with
scattering sage and greasewood brush and
bunch grass.

40.00 | Set a lime stone 16 x 7 x 5 ins, 12 ins in the
ground for 1/4 sec. cor. mkd. 1/4 on W. face.
Dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft.
dist. and raise a mound of earth 3½ ft.
base 1½ ft. high W. of cor.

80.00 | Set a lime stone 22 x 8 x 6 ins, 16 ins in
the ground for cor. of secs. 15, 16, 21 and 22
mkd. T.31 N. on N.E., R.11 E. on S.E. faces
with 3 notches on E. and S. edges, Dig
pits 18 x 18 x 12 ins in each sec. 5½ ft. dist
and raise a mound of earth 4 ft. base
2 ft. high W. of cor.
Land rolling sand hills
Soil sandy 3rd rate
No timber

S 89°58' E on a random line bet. secs.
15 and 22.

40.00 | Set temp. 1/4 sec cor.
79.88 | Intersect N. and S. line 5 lks. N. of the
cor. of secs. 14, 15, 22 and 23.
Thence I run
N 89°56' W. on a true line bet. secs. 15 and
22. Over low rolling sand hills covered
with scattering sage and greasewood brush.
and bunch grass.

39.94	Set a line stone 18 x 6 x 5 ins, 12 ins. in the ground for ¼ sec. cor. mkd. ¼ on N. face. Dig pits 18 x 18 x 12 ins. E and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
79.88	The cor. of secs 15, 16, 21 and 22. Land low rolling sand hills Soil sandy 3rd rate. No timber.

November 28th 1907

November 29th 1907, at 7h 48m a.m. l. mt. I set off. 36°06' N. on the lat. arc 21°18' S. on the decl. arc. and determine a meridian with the solar at the cor. of secs 15, 16, 21 and 22.
Thence I run

N 0°02' W. Bet. secs. 15 and 16.
Over low rolling sand hills covered with scattering sage and greasewood bush and bunch grass.

40.00	Set a line stone 17 x 9 x 6 ins, 12 ins. in the ground for ¼ sec. cor, mkd. ¼ on W. face. Dig pits 18 x 18 x 12 ins, N and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
78.50	South edge of old lake bed. Bears N. E. and W.
79.50	North side of lake bed. Bears N. E. and S. W.
80.00	Set a line stone 16 x 8 x 7 ins. 12 ins. in the ground for cor. of secs. 9, 10, 15 and 16, mkd. with 3 notches on E and 4 notches on S. edges. Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high. W. of cor. Land hilly, Soil sandy 3rd rate. No timber.

S 89°56' E on a random line bet. secs. 10 and 15.

40.00	Set temp ¼ sec. cor.

Subdivision of Tp. 31 N., R. 11 E.

Chains

79.92	Intersect N. and S. line 5 lks. N. of the cor. of secs. 10. 11. 14 and 15; Thence I run.
	N. 89° 54' W. on a true line bet. secs. 10 and 15. Over rolling sandy land covered with scattering sage and greasewood, brush and bunch grass.
39.96	Set a lime stone 12 × 12 × 4 ins., 8 ins in the ground for 1/4 sec. cor. mkd. 1/4 on N. face. Dig pits 18 × 18 × 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
76. 40	East edge of old lake bed bears N.E. and S.W. thence over level land.
79.00	West edge of lake bed. Bears N.E. and S.W.
79.92	The Cor. of secs. 9, 10, 15 and 16. Land level and rolling. Soil sandy 3rd rate. No timber.
	November 29th 1907.
	December 1st 1907. At 8h 48m a.m. Level. Set off 36° 06' N. on the lat. arc. 21° 37'½ S on the decl. arc. and determine a meridian with the solar at the cor. of secs 9, 10, 15 and 16. Thence I run.
	N. 0° 02' W. on a random line bet. secs 9 and 10
40.00	Set temp. 1/4 sec. cor.
79.58	Fall 1.6 lks. E. of the cor. of secs. 3, 4, 9 and 10 which is a lime stone 6 × 6 × 5 ins. above ground, firmly set, marked and witnessed as described in the original field notes Thence I run.
	S. 0° 09' E. on a true line bet. secs. 9 and 10. Ascend gradually over N.W. slope over rolling sandy land covered with scattering sage and greasewood brush and bunch grass.
39.58	Set a lime stone 15 × 6 × 6 ins. 10 ins. in the ground for 1/4 sec. cor. mkd. 1/4 on W. face Dig pits 18 × 18 × 12 ins N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft.

Subdivision of T. 31 N. R 11 E.

Chains

1 1/2 ft. high W. of cor.

72.50	North edge of basin bears E and W. W. bear Sand hills bears E and W. Enter level land bears E and W.
75.50	South side of basin bears E and W. ascend over rolling sand hills bears E and W.
76.50	Top of sand ridge bears N.E. and S.W. desd.
79.58	The cor. of secs. 9. 10. 15 and 16.

Land level and hilly,
Soil sandy 3rd rate,
No timber.

S 89° 54' E on a random line bet. secs.
3 and 10.

40.00	Set temp. 1/4 sec. cor.
8-0.12	Intersect. N and S. line 36 lks. S. of the cor. of secs 2. 3. 10 and 11

Thence I run

S 89° 55' W on a true line bet. secs 3 and 10
Descend gently over S.W. slope through scattering
sage and greasewood brush and bunch
grass.

00.75	Dry ravine Course N. W. asc. N.E. slope ridge.
9.00	Top ridge bears N.E. and S.W. thence over rolling hilly land.
40.06	Set a little stone 18 x 6 x 5 ins, 12 ins in the ground, for 1/4 sec. cor. mkd. 1/4 on N. face. Dig pits 18 x 18 x 12 ins E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80.12	The cor. of secs. 3. 4. 9 and 10.

Land rolling and hilly,
Soil sandy 3rd and 4th rate.
No timber.

December 1st 1907.

November 28th 1907. At. 8 h 18 m a m l. m. b
I set off. 36° 03' N. on the lat. arc., 21° 08 1/2' S.
on the decl. arc. and determine a meridian
with the solar at the cor of secs, 4. 5. 32 and
33 on the S. bdry of the Tp.
Thence I run

Chains

N. 0° 03' W., Bet. secs. 32 and 33, Over low rolling sand hills Covered with scattering sage and greasewood brush. and bunch grass.

6.50 Top of sand ridge bears N.E. and S.W. desc

11.00 Depression bears N.E. and S.W. asc.

30.50 Top of sand ridge bears N.E. and S.W. desc.

40.00 Set a lime stone 15 X 6 X 6 ins, 10 ins. in the ground for ¼ sec. cor mkd. ¼ on W. face, Dig pits 18 X 18 X 12 ins N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a lime stone 17 X 6 X 6 ins. 12 ins. in the ground for cor. of secs. 28, 29, 32 and 33. mkd. with 4 notches on E. and 1 notch on S. edges. Dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base. 2 ft. high W. of cor.

Land hilly.

Soil sandy 3rd rate.

No timber
_____

S. 89° 53' E. on a random line bet. secs 28 & 33

40.00 Set temp ¼ sec. cor.

80.01 Intersect N. and S. line 10 lks. S. of the cor. of secs. 27, 28, 33 and 34

Thence I run

N. 89° 57' W. on a true line bet. secs. 28 and 33 Descend N.W. slope over sandy land. Covered with scattering sage and greasewood brush and bunch grass.

19.00 Bottom of depression bears N.E. and S.W. asc.

25.26 Top of sand ridge 20 ft. above depression bears N.E. and S.W. desc.

30.00 Depression bears N.E. and S.W. asc steeply.

37.70 Top of sand ridge bears N.E. and S.W. desc N.W. slope.

40.00½ Set a lime stone 12 X 10 X 5 ins, 8 ins. in the ground for ¼ sec. cor. mkd. ¼ on N. face; Dig pits 18 X 18 X 12 ins E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

41.00 Bottom of depression bears N.E. and S.W. asc.

46.50 Top of spur bears N.E. and S.W. desc. gently

80.01	The Cor. of secs. 28. 29. 32 and 33.
	Land hilly.
	Soil sandy 3rd rate.
	No timber.

N 0° 03' W. Bet. secs. 28 and 29.
Descend N.W. slope over low sand hills. covered with scattering sage and greasewood brush and bunch grass.

40.00	Set a lime stone 14 x 7 x 6 ins. 10 ins. in the ground for ¼ sec. cor. mkd ¼ on W. face. Dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of Cor.
80.00	Set a lime stone 15 x 6 x 6 ins., 10 ins. in the ground. for cor. of secs. 20. 21. 28 and 29. mkd. with 4 notches on E. and 2 notches on S. edges. Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land rolling sand hills.
	Soil sandy 3rd rate.
	No timber
NOTE.	At this cor. I reh. off. 21° 12' S. on the decl. arc. and at 11h 48m a.m. l.m.t. observe the sun on the meridian and obtain on the lat. arc. a reading of 36° 06' N. for the latitude of this place. which is a little higher than the latitude given by the instrument on former days.

S 89° 57' E. on a random line bet. secs. 21 and 28

40.00	Set temp ¼ sec. cor.
80.02	Intersect N. and S. line 5 lks. S. of the cor. of secs. 21. 22. 27 and 28.
	Thence I run
	N 89° 59' W. on a true line bet. secs. 21 and 28. Over low rolling sand hills covered with scattering sage and greasewood brush and bunch

Chains

grass

40.01 Set a line stone 14 x 7 x 6 ins. 10 ins. in the
ground for 1/4 sec. cor. mkd. 1/4 on N. face
Dig pits 18 x 18 x 12 ins. E. and W. of stone
3 ft. dist. and raise a mound of earth
3 1/2 ft. base 1 1/2 ft. high N. of cor.

80.02 The cor. of secs. 20, 21, 28, and 29
Land hilly.
Soil sandy 3rd rate
No timber

November 28th 1907

December 2nd 1907. At. 7h 48m a.m. Level.
Defl. off. 36° 06+ N. on the lat. arc, 21° 45' 46" S.
on the decl. arc and determine a meridian
with the solar at the cor. of secs. 20, 21, 28
and 29.

Thence I run

N. 0° 03' W. bet. secs. 20 and 21
Over rolling sandy land covered with
scattering sage and greasewood brush
and bunch grass.

40.00 Set a line stone 16 x 6 x 6 ins. 12 ins. in
the ground for 1/4 sec. cor. mkd. 1/4 on W.
face. Dig pits 18 x 18 x 12 ins. N. and S. of
stone 3 ft. dist. and raise a mound of
earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

80.00 Set a line stone 18 x 7 x 7 ins. 12 ins. in
the ground for cor. of secs. 16, 17, 20 and 21
mkd. with 4 notches on E. and 3 notches
on S. edges. Dig pits 18 x 18 x 12 ins. in
each sec. 5 1/2 ft. dist. and raise a mound
of earth 4 ft. base, 2 ft. high W. of cor.
Land rolling.
Soil sandy 3rd rate.
No timber

S. 89° 59' E. on a random line bet. secs.
16 and 21.

40.00 Set. temp. 1/4 sec. cor.

80.02 Intersect N. and S. line 8 lks. N. of the cor.

Chains	
	of sec. 15, 16, 21 and 22
	Thence I run
	N 89° 56' W. on a true line bet. secs.
	16 and 21.
	Over rolling sandy land covered with scattering
	sage and greasewood brush and bunch grass
40.01	Set a lime stone 14 X 7 X 6 ins, 10 ins. in the
	ground for ¼ sec. cor, mkd. ¼ on N. face
	Dig pits 18 X 18 X 12 ins. E and W. of stone 3 ft.
	dist, and raise a mound of earth 3½ ft.
	base 1½ ft. high. N. of cor.
80.02	The cor. of secs. 16, 17, 20 and 21.
	Land rolling
	Soil sandy 3rd rate.
	No timber
NOTE	Clouds obscure the sun at noon today rendering
	an observation for latitude with the solar
	impossible.
	N 0° 03' W. Bet. secs. 16 and 17. Over
	low rolling sand hills, covered with
	scattering sage and greasewood brush and
	bunch grass.,
40.00	Set a lime stone 16 X 6 X 6 ins, 12 ins. in
	the ground for ¼ sec. cor, mkd. ¼ on W. face
	Dig pits 18 X 18 X 12 ins. N and S. of stone 3 ft.
	dist, and raise a mound of earth 3½ ft.
	base 1½ ft. high. W. of cor.
80.00	Set a lime stone 21 X 5 X 5 ins. 15 ins in
	the ground for cor. of secs. 8, 9, 16 and 17.
	mkd. with 4 notches on E. and S. edges
	Dig pits 18 X 18 X 12 ins. in each sec. 5½ ft.
	dist and raise a mound of earth 4 ft.
	base 2 ft. high W. of cor.
	Land hilly
	Soil sandy 3rd rate.
	No timber.
	S 89° 56' E. on a random line bet. secs.
	9 and 16.

Subdivision of Tp. 31 N., R.11 E.

Selenium

40.00	Set temp. 1/4 sec. cor.
80.06	Intersect N. and S. line at the cor. of secs. 9, 10, 15 and 16.
	Thence I run.
	N. 89° 56' W. on a true line bet. secs. 9 and 16.
	Over low rolling sand hills covered with scattering sage and greasewood brush and bunch grass
40.03	Set a lime stone, 13 × 8 × 6 ins. 9 ins. in the ground for 1/4 sec. cor. mkd. 1/4 on N. face. Dig pits 18×18×12 ins. E. and W. of stone 5 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.06	The cor. of secs. 8, 9, 16 and 17.
	Land hilly.
	Soil sandy 3rd rate.
	No timber.

December 2nd 1907

	N. 0° 03' W. on a random line bet. secs. 8 and 9.
40.00	Set. temp. 1/4 sec. cor.
79.69	Intersect E. and W. line 78 lks. E. of the cor. of secs. 4, 5, 8 and 9.
	This falling corresponds to a course of 0° 33' on 12' in excess of that allowed on page 66 of the Manual. Therefore I establish my line as a true line in its original position as follows:
	December 5th 1907. After having retraced the line bet. secs. 4 and 9. See Page —38 I set off. 36° 06½' N. on the lat. arc. 22° 16' S. on the decl. arc. and at 9h 50m a.m. I determine a meridian with the solar at the cor. of secs. 8, 9, 16, and 17.
	Thence I run
	N. 0° 03' W. on a true line bet. secs. 8 and 9. Over low rolling sand hills covered with scattering sage and greasewood brush and bunch grass
24.00	Bottom of depression bears N.E. and S.W. arc.

Subdivision of W½ 31 N. R11E

Chains	
27.00	Top of sand ridge bears N.E. and S.W. desc.
40.00	Set a line stone 15 x 12 x 5 ins., 10 ins. in the ground for ¼ sec. cor., mkd ¼ on W. face Dig pits 18 x 18 x 12 ins. N and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
48.80	Depression bears N.E. and S.W. asc.
54.75	Top of sand ridge bears N.E. and S.W. desc.
65.80	Depression bears N.E. and S.W. asc.
69.90	Top of sand ridge bears N.E. and S.W. desc.
79.69	Intersect E and W. line 78 chs. S89°53'E. of the cor. of secs. 4.5. 8 and 9.

Set a line stone 14 x 12 x 4 ins., 10 ins. in the ground for Closing cor. of secs. 8 and 9. mkd C.C. on S. with 4 grooves on E. and 2 grooves on W. faces. Dig pits 18 x 24 x 12 ins. Crosswise on line E and W. of stone 3 ft. and S 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high S. of cor. 3¼ ft. dist.

I change the cor. of secs. 4. 5. 8 and 9. from a cor to 4 secs. to a cor to 3 secs. for the secs N. of the line as follows

I destroy the markings on the stone, and cor. accessories, and remark the stone with 4 notches on E and 2 notches on W. edges Dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor

Land rolling sand hills

Soil sandy 3rd rate.

No timber.

Dec 5th 1907

November 30th 1907. Alt. 8h 49m a.m. Lmt Dret off. 36°03' N. on the lat. arc. 21°30½'S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 5.6. 31 and 32 on the S. bdy. of the Tp.

Thence I run

	N0°0¾'W. Bet. secs. 31 and 32 Over rolling sand hills covered with Spanish bayonet, sage and greasewood brush and bunch grass
40.00	Set a line stone 18 x 8 x 6 ins. 12 ins. in the ground for ¼ sec. cor. mkd ¼ on W. face, Dig pits 18 x 18 x 12 ins N and S of stone 3 ft. dist and raise a mound of earth

Subdivision of Tp. 31 N. R.11 E

Chains

	3½ ft. base 1½ ft. high. W. of cor.
80.00	Set a line stone 16×8×6 ins, 9 ins in the ground for cor. of secs. 29, 30, 31 and 32. Marked with 5 notches on E. and 1 notch on S. edges. Dig pits 18×18×12 ins in each sec 5½ ft. dist and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land rolling sand hills
	Soil sandy 3rd and 4th rate.
	No timber.

S 89°53' E on a random line bet. secs. 29 and 32

40.00	Set temp. ¼ sec cor.
89.04	Intersect N and S. line 5 lks. S. of the cor of secs. 28, 29, 32 and 33
	Thence I run
	N 89°55' W on a true line bet. secs. 29 and 32. Over low rolling sand hills covered with scattering sage and greasewood brush and bunch grass.
40.02	Set a line stone 16×8×6 ins. 12 ins in the ground for ¼ sec. cor. mkd. ¼ on N. face. Dig pits 18×18×12 ins. E and W. of stone 3 ft. dist and raise a mound of earth 3½ ft base, 1½ ft high N. of cor.
80.04	The cor of secs. 29, 30, 31 and 32
	Land low rolling sand hills.
	Soil sandy 3rd and 4th rate.
	No timber
NOTE	At the ¼ sec. cor. bet. secs. 29 and 32 I set off 21° 32' S. on the decl. arc and at 11^h 49^m a.m. I come to observe the sun on the meridian the resulting latitude being 36° 04' N.

N 89°53' W on a random line bet. secs. 30 and 31

| 40.00 | Set temp. ¼ sec cor. |
| 79.75 | Intersect the W. bdry. of Tp. 8 lks. N. of the cor. of secs. 25, 30, 31, and 36. |

Thence down
S.89°56'E on a true line bet. secs. 30 and
31   Over level stony mesa land. no
vegetation

3.25 Each edge of Mesa bears N and S. desc.
E. slope over broken land.

10.65 Foot of descent in dry ravine Course E. thence
along bottom of ravine

15.75 Leave ravine Course S.E. Ascend W. slope of
sand ridge.

19.75 Top of ridge bears N.W. and S.E. desc.

22.25 Dry ravine Course S.E. asc.

29.65 Top of sand ridge bears N and S. desc.

32.85 Top of sand stone cliffs on West side of Canyon
150 ft. deep. desc. abruptly over cliffs

39.75 The point for the ¼ sec. cor. falls in bottom
of Canyon Subject to overflow to a depth
of about two feet which would insure its
destruction — therefore I continue my line

39.90 Brook 2 lks. wide Course S. ascend abrupt.
W. slope of ridge.

41.00 Top of sharp ridge 75 ft. above bottom of
Canyon bears S.W. and N.E. . Set a line
stone 12 X 12 X 4 ins, 8 ins. in the ground
for witness cor. to the ¼ sec. cor., mkd.
W.C. ¼ on N. face. Raise a mound of stone
2 ft. base 1½ ft. high N. of cor.
Pits impracticable, descend E. slope of
ridge.

43.00 Ravine Course S.W. ascend W slope over
sandstone ledges

46.75 Top of sand stone bluffs on E. side of Canyon
bears N.E. and S.W. Leave stony broken
land. bears N.E. and S.W. Enter low sand
hills bears N.E. and S.W.

79.75 The cor. of secs. 29 .30. 31 and 32.
Land level, hilly and broken.
Soil sandy and stony 3rd and 4th rate
No timber

3
N.0°04'W. Bet. secs. 29 and 30

Chains

Over rolling sand hills covered with scattering sage and greasewood brush and bunch grass.

40.00 Set a line stone 15×7×5 ins, 10 ins. in the ground for 1/4 sec. Cor mkd. 1/4 on W. face.

Dig pits 18×18×12 ins. N and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a line stone 16×8×4 ins, 12 ins in the ground for Cor of secs. 19,20,29 and 30 mkd. with 5 notches on E. and 2 notches on S. edges.

Dig pits 18×18×12 ins. in each sec 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land rolling sand hills.
Soil sandy 3rd rate.
No timber

November 30th 1907

December 3rd 1907. At 7h 49m a.m. l.m.t. I set off 36° 05'+ N. on the lat. arc. 21° 55'/r 57 S. on the decl. arc. and determine a meridian with the solar at the cor. of secs. 19,20,29. and 30

Thence I run
S 89°56' E on a random line bet. secs. 20 and 29.

40.00 Set temp. 1/4 sec. cor.
80.08 Intersect the N. and S. line 21 chs. N. of the cor. of secs. 20, 21, 28 and 29.

Thence I run
N 89°46' W. on a true line bet. secs. 20 and 29., Over low sand ridges covered with scattering sage brush and bunch grass

32.00 Bottom depression bears N.E. and S.W. also sand ridge

38.50 Top of sand ridge 20 ft. high bears N.E. and S.W. dec.

40.04	Set a line stone 17 × 6 × 5 ins., 12 ins. in the ground for ¼ sec. cor., mkd. ¼ on N. face Dig pits 18 × 18 × 12 ins. E and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
46.00	Bottom of depression bears N.E. and S.W. ascend sand ridge.
66.25	Top of sand ridge bears N.E. and S.W. desc.
80.08	The cor. of secs. 19. 20. 29 and 30. Land hilly. Soil sandy 3rd rate. No timber.

	N 89° 56' W. on a random line bet. secs 19 and 30.
40.00	Set temp. ¼ sec. cor.
79.70	Intersects W. bdry. of Tp. 5 lks. S. of the cor. of secs. 19. 24 25 and 30. Thence I run
	S 89° 54' E on a true line bet. secs. 19 and 30, Descend S.E. slope over low sand ridges covered with scattering sage bush and bunch grass
11.20	West edge of pond bears N. and S., Low sand ridges bears N. and S.
31.20	East edge of pond bears N.E. and S.W. Enter low sand hills bears N.E. and S.W.
39.70	Set a line stone 15 × 6 × 6 ins. 10 ins. in the ground for ¼ sec. cor. mkd. ¼ on N. face Dig pits 18 × 18 × 12 ins. E and W. of stone 3 ft. dist, and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
48.20	Top of sand ridge bears N.E. and S.W. desc.
50.60	West edge of circular pond extends 3 chs. N and 1 ch. S. of line.
53.85	East edge of pond are over low sand hills.
79.70	The cor. of secs. 19. 20. 29 and 30. Land hilly. Soil sandy 3rd rate. No timber.

Subdivision of Tp. 31 N., R 11 E.

Chains

N 0° 04¾' W Bet. secs 19 and 20
Over low rolling sand hills, covered
with scattering sage brush and bunch
grass.

40.00 | Set a line stone, 16 x 7 x 6 ins. 12 ins
in the ground for ¼ sec. cor., mkd.
¼ on W. face.
Dig pits 18 x 18 x 12 ins. N. and S. of
stone 3 ft. dist and raise a mound
of earth 3½ ft. base, 1½ ft. high W.
of cor.

NOTE | At this cor. Drch off. 22° 00' S. on the
decl arc. and at 11ʰ 50ᵐ a.m. lmt.
observe the sun on the meridian. and
obtain on the lat arc a reading of
36° 06' nearly.

80.00 | Set a line stone 16 x 10 x 5 ins. 12 ins
in the ground for cor. of secs. 17, 18, 19
and 20. mkd. with 5 notches on
E and 3 notches on S. edges.
Dig pits 18 x 18 x 12 ins. in each sec.
3½ ft. dist. and raise a mound of
earth 4 ft. base, 2 ft. high W of. cor.
Land rolling sand hills.
Soil sandy 3rd and 4th rate.
No timber.

S 89° 46' E on a random line bet. secs.
17 and 20.

40.00 | Set temp ¼ sec. cor.
79.99 | Intersect N. and S. line at the cor. of secs.
16, 17, 20, and 21.
Thence run
N 89° 46' W on a true line bet. secs.
17 and 20
Over rolling sandy land covered with
scattering sage and greasewood brush.
and bunch grass.

39.99½ | Set a line stone 12 x 10 x 5 ins. 8 ins in
the ground for ¼ sec. cor. mkd ¼
on N. face.

	Dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
79.99	The cor. of secs. 17, 18, 19 and 20. Land rolling. Soil sandy 3rd rate. No timber.
	N 89° 54' W. on a random line bet. secs. 18 and 19.
40.00	Set temp ¼ sec. cor.
79.59	Intersect the West. bdry. of Tp. 1, 12 lks. S. of the cor. of secs. 13, 18, 19 and 24 Thence I run
	S 89° 49' E. on a true line bet. secs. 18 and 19. Over rolling sandy land covered with scattering sage and greasewood brush and bunch grass.
37.50	Bottom of depression bears N.E. and S.W. ascend gradually.
39.59	Set a lime stone 18 x 10 x 4 ins, 12 ins in the ground for ¼ sec. cor, mkd ¼ on N. face. Dig pits 18 x 18 x 12 ins E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
79.59	The cor. of secs. 17, 18, 19 and 20 Land rolling Soil sandy 3rd rate. No timber.
	December 3rd 1907
	3 N 0° 04' W. Bet. secs 17 and 18. Over rolling sandy land. covered with scattering sage brush and bunch grass
40.00	Set a lime stone 16 x 8 x 7 ins. 12 ins in the ground for ¼ sec. cor. mkd ¼ on W. face Dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth

Subdivision of T 31 N, R 11 E.

Chains

80.00	3½ ft. base, 1½ ft. high W. of cor. Set a lime stone, 16 x 6 x 6 ins. 12 ins. in the ground for cor. of secs. 7, 8, 17 and 18., mkd. with 5 notches on E. and S. edges. Land rolling. Soil sandy 3rd rate. No timber.

S 89° 46' E on a random line bet. secs. 8 and 17.

40.00	Set temp. ¼ sec. cor.
80.02	Intersect N and S. line 18 lks. S. of the cor. of secs. 8, 9, 16 and 17. Thence I run N 89° 54' W on a true line bet. secs. 8 and 17 Over rolling sandy land covered with scattering sage and greasewood brush and bunch grass.
40.01	Set a lime stone 15 x 6 x 6 ins 10 ins. in the ground for ¼ sec. cor. mkd. ¼ on N. face. Dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.02	The cor of secs. 7, 8, 17 and 18. Land rolling. Soil sandy 3rd rate. No timber.

N 89° 49' W on a random line bet. secs. 7 and 18

40.00	Set temp. ¼ sec. cor.
79.50	Intersect W. bdry. of T 5 lks. N. of the cor. of secs. 7, 12, 13 and 18. Thence I run S 89° 51' E on a true line bet. secs. 7 and 18 Over rolling sandy land covered with

Chains

scattering sage and greasewood brush
and bunch grass.

8.00 Bottom. Depression bears N.E. and S.W.
ascend gently.

39.50 Set a lime stone 15 x 10 x 5 ins. 10 ins.
in the ground for 1/4 sec. cor., mkd. 1/4
on N. face.
Dig pits 18 x 18 x 12 ins. E. and W. of stone
3 ft. dist. and raise a mound of earth
3 1/2 ft. base, 1 1/2 ft. high N. of cor.

79.50 The Cor. of secs. 7. 8. 17 and 18
Land rolling
Soil sandy 4th rate.
No timber.

NOTE Dec 4th At the Cor. of secs. 7, 8, 17, and 18,
I set off. 22° 09' S. on the decl. arc and
at 11h 50m A. m. l. m. t. observe the
sun on the meridian, the resulting
latitude being 36° 07' N. nearly, which
is about the proper latitude of this
place.

N 0° 0 3/4' W. on a random line bet. secs.
7 and 8.

40.00 Set temp. 1/4 sec. cor.

79.78 Intersect E. and W. line 80 lks. E. of the
Cor. of secs. 5. 6. 7 and 8.
This falling corresponds to a course of
0° 34' or 6'3 greater than the allowable
limits for meridional sec. lines Page. 66
of the Manual., therefore I establish
my line as a true line in its original
position as follows;
                          Dec 4th 1907.

December 5th 1907. At 1h 50m p.m. lmt
I set off 36° 07' N. on the lat. arc 22°17 1/2' S
on the decl. arc. and determine a
meridian with the solar at the
Cor. of secs. 7. 8. 17 and 18.
Thence I run
N 0° 0 3/4' W. on a true line bet.
secs. 7 and 8.

Subdivision of Tp. 31 N., R 11 E.

Chains

Over rolling sandy land covered with
scattering sage and greasewood brush
and bunch grass.

40.00 Set a lime stone 16 x 7 x 6 ins. 12 ins.
in the ground. for 1/4 sec. cor. mkd. 1/4
on W. face, dig pits 18 x 18 x 12 ins.
N. and S. of stone 3 ft. dist, and raise
a mound of earth 3½ ft. base 1½ ft.
high W. of cor.

64.75 Top of ascent on point of ridge bears
N.E. and S.W. desc.

79.78 Intersect E and W. line 80 lks. S 89°53 E.
of the old Cor. of secs. 5, 6, 7 and 8
Set a lime stone 22 x 22 x 4 ins. 17 ins.
in the ground for Closing cor. of secs.
7 and 8., mkd. C.C. on S. with 5 grooves
on E and 1 groove on W. faces.
Dig pits 24 x 18 x 12 ins Crosswise on
line E and W. of stone 4 ft. and S. 8 ft.
dist. and raise a mound of earth
4 ft. base 2 ft. high. S. of Cor 3¼ ft. dist
The Cor of secs. 5, 6, 7 and 8. I change from
a Cor. of 4 secs, to a cor. of 2 secs on the north
as follows; I obliterate the markings
on the cor. stone and destroy the
Cor accessories, thence I re mark
the same stone with 5 notches on E.
and 1 notch on W edges.
Dig pit 24 x 24 x 12 ins in each sec. 6 ft.
dist and raise a mound of earth 4 ft.
base 2 ft. high N. of cor.
Land rolling.
Soil sandy 3rd rate.
No timber.

December 5th 1907

Dec 5th 1907. At. 7h 50m A.m. l.m.t. I
set off 36° 08' N. on the lat. arc 22° 44' 12½' S.
on the decl. arc. and determine a
meridian with the solar at the cor.
of secs 3. 4. 33 and 34 on the N. bdy.
of Tp., previously described. Thence I
run :—

    S 0° 02' E. Bet. secs. 3 and 4

40.00 Intersect the ¼ sec. cor. which is a lime
stone 6 x 6 x 4 ins. above ground firmly
set, mkd and witnessed as described
in the original field notes
Course of line back to the sec. cor N 0° 02' W
From the ¼ sec. cor. I run
    S 0° 02' E. Bet. secs. 3 and 4

40.00 Intersect the cor. of secs. 3. 4. 9 and. 10
which is a lime stone 7 x 6 x 5 ins above
ground firmly set. mkd and witnessed
as described in the original field notes
Course of line back to the ¼ sec cor N 0° 02' W
Length of mile 80.00 chs.

    West Bet. secs. 4 and 9.

40.25 Fall 9 lks. S. of the ¼ sec. cor. which is
a lime stone 8 x 7 x 4 ins. above ground
firmly set. mkd and witnessed as
described in the original field
notes.
Course of line back to the sec. cor
S 89° 52' E.
From the ¼ sec. cor. I run
    West Bet. secs 4 and 9.

40.25 Fall 8 lks. S. of the cor. of secs. 4. 5. 8 and.
9. which is a lime stone 8 x 6 x 4 ins
above ground, firmly set. mkd and
witnessed as described in the
original field notes
Course of line back to the ¼ sec. cor
S 89° 53' E.
Length of mile 80.50 chs

Dec 6th At 12:50 p.m. line l. & set
off 36°07' N. on the lat. arc. 22°17' S.
on the decl. arc. and determine a
meridian with the solar at the cor
of secs. 4. 5. 8 and 9., Thence I run
West Bet. secs 5 and 8.

39.90 I fall 12 lks. S. of the ¼ sec. cor. which
is a line stone 8 x 4 x 4 ins above
ground. firmly set. mkd. and witness
ed. as described in the original field
notes.
Course of line back to the sec. cor
S 89° 50' E.
From the ¼ sec. cor. I run
West Bet. secs. 5 and 8.

39.92 I fall 8 lks. S. of the cor of secs. 5. 6. 7 and 8
which is a line stone 7 x 6 x 6 ins. above
ground. firmly set. mkd. and witnessed
as described in the original field
notes.
Course of line back to the ¼ sec
cor. S 89° 53' E.
Length of mile 79.82 Chs.

West Bet. secs. 6 and 7.

39.90 I fall 12 lks. S. of the ¼ sec. cor which is
a line stone 7 x 6 x 4 ins. above ground
firmly set. mkd and witnessed as
described in the original field notes
Course of line back to the sec cor
S 89° 58' E.
From the ¼ sec. cor. I run
West Bet. secs. 6 and 7.

38.54 I fall 20 lks. S of the cor of secs. 1. 6. 7
and 12 on the west boundary of the
township.
Course of line back to the ¼ sec cor.
S 89° 43' E.
Length of mile 78.44 Chs.
Dec. 5th 1907

General Description

The land Contained in this township varies from high mesa land in the south eastern portion to level bottom land in the narrow valley along the Moencopie Wash which flows through the northern part — The soil with the exception of the bottom lands along this wash Can nearly all be classed as 3rd rate — and produces very little vegetation of any kind except greasewood and Sage brush.

The soil of the bottom lands along the Moencopie Wash is an alluvial deposit 2nd rate and produces good Crops of all kinds with irrigation

With the exception of a small Spring in sec. 31 the only water found in the township is in the Moencopie Wash and this is charged with alkaline salts which renders it almost unfit for domestic purposes. —

There is no timber in the township and no mineral deposits of any kind.

There are no permanent settlers in the township

Sidney E Blount
Examiner of Surveys

For authority for red ink corrections see letter of Nov. 16 — 1908

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by *Sidney E. Blount,* *Examiner of Surveys*, ~~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 *the Subdivision lines of Township No. 31 N., Range 11 E.* showing the respective capacities in which they acted:

G. Keith .... *Compassman*
A. L. Warner ...., Chainman.
A. D. Kline ...., Chainman.
Norman Olliss ...., Moundman.
...., Moundman.
...., Axman.
...., Axman.
H. L. Nay ...., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted *Sidney E Blount* *Examiner of Surveys*, ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the *Subdivision lines of Township No. 31 N. R 11 E.* .... of the *Gila and Salt River Base & meridian, in the Territory of Arizona,* 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 ....

G. Keith .... *Compassman*, Chainman.
A. L. Warner .... Chainman.
A D Kline ...., Chainman.
Norman Olliss ...., Moundman.
............................, Moundman.
............................, Axman.
............................, Axman.
H. L. Nay ...., Flagman.

Subscribed and sworn to before me this............
day of...................., 190

[SEAL]

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _Sidney E Blout_, United States ~~Deputy Surveyor~~ _Examiner of Surveys_, do solemnly swear that, in pursuance of ~~a contract~~ _Special Instruction_ received from _The Commissioner of the General Land Office_, bearing date of the ~~United States Surveyor General for~~ ___ _2nd_ day of _Oct_, 190 _7_, 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~~ _the General Land Office_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _The Subdivisional lines of Tp. 31 N. R 11 E_ ___ of the _Gila and Salt River Base and_ 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~~ _Commissioner of the General Land Office_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Sidney E Blout
~~United States Deputy Surveyor.~~
Examiner of Surveys

Subscribed by said ___, and sworn to before me this ___ day of ___, 190 ___

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona Nov 27th, 190 _8_

The foregoing field notes of the survey of _the subdivisional lines of Tp. 31 N. R. 11 E of the Gila and Salt River Base and Meridian, Arizona_

executed by _Sidney E. Blout, United States Examiner of Surveys_ under his ~~contract No.~~ _Note_, dated _October 2nd_, 190 _7_, 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.

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