

1930

Book 6

1930

1930

BOOK 1930

FIELD NOTES

OF THE SURVEY OF THE

*Subdivisions of
T24 N R 30 E*

1930

1930

*of the Gila and Salt River Base & Meridian,
Territory of Arizona*

AS SURVEYED BY

Walter L. Campbell

, United States Deputy Surveyor,

Contract No. *129*, dated *March 20th*, 190*5*, 190

commenced *March 29th*, 190*7*

survey completed *April 4th*, 190*7*

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Frank J. Brown, Chairman

Leo P. Leaden, "

Robert Heshkan Ayman.

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INDEX DIAGRAM.

Township 24 North, Range 30 East

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WE, Frank J. Brown and Leo R. Leaden
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

E. Bales, Tps. 21, 22 and 23 N., R. 20 E.; S. 1/2 of T. 24 N., R. 20 E.; and T. 24 N., R. 20 E. Subs. T. 24 N., R. 20 E.
Frank J. Brown, Chainman.
Leo R. Leaden, Chainman.

Subscribed and sworn to before me this 22nd
day of March, 1907



Charles L. Campbell
U. S. Dept. Surveyor

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, Robert Haskkan

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

E. Bales, Tps. 21, 22 and 23 N., R. 20 E.; S. 1/2 of T. 24 N., R. 20 E.; Subs. T. 24 N., R. 20 E.
Robert Haskkan, Axman.

Subscribed and sworn to before me this 22nd
day of March, 1907



Charles L. Campbell
U. S. Dept. Surveyor

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 _____



Survey commenced on the
29th day of March, 1907,
and executed with a
H. and J. C. Gurley improved
solar compass, No. 210 with
telescopic attachment. The
horizontal limb is pro-
vided with two doubly
verniers placed opposite
to each other, reading
to single minutes of Part;
which is also the least
count of the vernier of
the latitude arc; the
declination arc, reads
to thirty seconds.

The instrument was examined
tested on the true merid-
ian of the U. S. Geological
Survey at the Spokane
County Court House, at
Spokane, Washington on
March 22, 1908, by Geo.
D. Campbell, C. E. and was
found correct.

Examining the adjustments
of the instrument and
find them correct; then
to test the solar ap-
paratus by comparing
its indications, resulting
from solar observations
made during P. M. and
A. M. hours with a merid-
ian determined by
observations on Polaris;
I proceed as follows:
At my camp at the

BOOK 1980

Big Indian Springs, 180 chs
 N and 120 chs. Pt. of the
 cor. of secs 00 and 06 on
 the S. Rdy. of S. 24 N.
 W. 30 C.; latitude $35^{\circ} 26' N$;
 longitude $109^{\circ} 09' W$; Dist
 of $0^{\circ} 50' 26'' N$ on the lat.
 arc; $0^{\circ} 15' N$ on the decl. arc;
 and at $4^h 10^m P.M. C.M.T.$,
 determine a meridian with
 the solar and mark a
 point thereon on a stone
 firmly set in the ground,
 5 chs. N. of my station.

At $10^h 28^m P.M.$ by my watch
 which is 3^m fast of C.M.T.,
 I observe Polaris in
 accordance with the
 Manual of Surveying
 Instructions and mark
 the direction thus determined
 by a tack in a notch
 firmly set in the
 ground 5 chs. N. of my
 station.

1930

Astron. time by watch, ✓
 March 29 - 10^h - 28^m.00
 Watch just - 3.00

Astron. l.m.t. of obs. ✓
 on March 29th - 10 - 25.00

U.C. Polaris, Apex 1st. 0^h - 49^m.00
 Red. to March 29 11.8

U.C. Polaris, March 29 - 1 - 01.2 1-01.2

Hour angle ✓
 Time Argument - 9 - 23.8

Azimuth of Polaris ✓
 at time of obs. 0 - 54.8

March 29th, 1907.

March 30: At 7^h 10^m a.m. l.m.t.
 I lay off the azimuth
 of Polaris 0^h - 54^m to the ✓
 S. and mark the meridian,
 thus determined by
 cutting a small groove
 in the stone already set
 5 chs. N. of my station.
 This meridian coincides
 with the meridian that
 was determined at this
 station by the solar.

BOOK 1980

Subdivisions of T. 24 N, R. 20 E.

At 8^h 00^m a.m. l.m.t. I set off
30° 26' N on the lat arc;
30° 30' N on the decl arc;
and find that the
meridian, thus determined
with the solar, coincides
with the meridian that
was determined at this
station by the Polaris
observations.

The solar apparatus by p.m.
and a.m. observations
defines positions for
meridians that coincide
with the meridian
that was determined by
the Polaris observations.

Therefore I conclude that the
adjustments of the instru-
ment are satisfactory.

The magnetic bearing of
the meridian at 8^h 00^m
a.m. l.m.t. is N. 14° 00' E;
the angle thus determined
gives the mean magnetic
declination 14° 00' E.

I commenced at the cor.
of sec. 05 and 06, recently
established by me on the
E. side of T. 24 N, R. 20 E.

Thence I run
N. 0° 01' E. bet. sec. 05 and 06.
Crossing steep N. E. slope of
mountainous red rock
formation, through
scattering pine timber
and scattering undergrowth.

- Chains
- 9.00 Ravine, 150 ft. below corner, corner N. H. Ascend over point, leaving bedrock formation.
 - 12.25 Top of point, 25 ft. above ravine, slopes N. H. Steep descent.
 - 16.00 Clear timber, bears E. and H.
 - 20.00 Foot of mountain, 800 ft. below point, bears N. H. and V. E. Thence over level Ponitz Valley lands.
 - 30.00 Old deserted Indian hogan or cabin, bears E., 5 lbs. dist.
 - 40.00 Left a sand stone, 36 x 10 x 4 ins., 27 ins in the ground for 1/2 sec. cor., marked 1/4 on the N. H. face, dug pits 18 x 18 x 12 ins. N. and V. of cor., 3 ft. dist., and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
 - 56.60 Indian's fence bears E. and H., thence through field.
 - 79.75 Fence, bears N. 50° E., V. 80° H., leaving field.
 - 80.00 Left a sand stone, 15 x 10 x 4 ins., 10 ins. in the ground for cor. of secs. 25, 26, 27 and 28, marked with 1 notch on the V. and E. edges. dug pits 18 x 18 x 12 ins. in each section, 3 1/2 ft. dist., and raised a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
- Land, level and mountainous. Soil sandy and stony; not and 4th coty.

BOOK 1930

Timber, pine, cedar and
saw, undergrowth, sage
and oak brush.
Mountainous lands, rocks.

East on a random line
bet. sec. 25 and 26.

40.00 left temp. 1/2 sec. cor.

40.50

Entered the great im-
passible bluff region
which prevented the
survey of the C. R. by
of this township. This
great towering precipi-
tous region is not only
impassible and unwork-
able but is also
absolutely worthless and
will never have any
commercial value for
timber, grazing or
agriculture purposes.

Therefore I discontinue the
survey of this line at
the 1/2 sec. cor, which I
establish as follows:

Set a sand stake, 2 1/2 x 1 1/2 x 8 ins.,
10 ins. in the ground,
steep rock and raised a
mound of stone around
for 1/2 sec. cor, marked 1/4 on
the N. face, from which
a pine, 10 ins. diam.,
bears N. 59° E., 24 lbs.
dist. marked 1/4
25 & 2.

A pine, 40 ins. diam.,

bears V. 37° St. 41
lbs. dist. marked
V 06 B 2

Thence I run
west on a true line bet.
secs. 25 and 26.

Descend st. slope, through
scattering timber and
scattering undergrowth.

0.50 My grabber descent.
10.00 Lead timber, bears N. and V.

11.00 E. margin of the Boneta
Valley, bears N. and V.;
still descending very
gradually

22.00 Indian trail bears N. 15° E.,
S. 10° St.

~~34.00~~ Navajo Indian hogan or
~~34.00~~ cabin bears N. V. 5 lbs.
dist. Over level valley,
150 ft. below sec. cor.

39.89 Flag, bears N. 35° E. and
S. 30° St.

40.00 The cor. of secs. 25, 26, 25
and 26.

Land, level, rolling and
mountainous.

Soil, sandy and stony;
and and xth cor.

Timber, pine and juniper;
undergrowth, small
timber and sage.

Mountainous lands, 11.00 lbs.

N. 02° 01' St. bet. secs. 25 and
26.

Over level valley, through
scattering undergrowth; no
timber.

BOOK

1880

- 40.00 Let a hard lime stone, 28x10x6 ins., 2 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{7}$ on the N. face; dug pits 18x18x12 ins., N. and S. of stone 5 ft. dist., and raised a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- From this $\frac{1}{4}$ sec. cor., bearings of Indian hogans or cabins bear as follows:
N. 80° E., 40 chs. dist.;
N. 70° E., 65 chs. dist. and
East, 25 chs. dist.
- 66.25 Hagon road, bears N. 60° E. and S. 60° E.
- 66.60 Indian trail, bears N. 60° E. and S. 60° E.
- 71.56 Left Bank of Defiance Creek, bears N. 60° E., S. 60° E.; thence over dry channel.
- 72.10 Water's edge, 25 chs. wide, 2 ft. deep, turbid, slow current, impure water, course S. 60° E.
- 72.66 Right Bank, 5 ft. high, bears N. 60° E. and S. 60° E. Continue over valley through dense undergrowth.
- 80.00 Let a sand stone 28x12x8 ins., 2 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on the S. and 1 notch on the E. edges. Dug pits, 18x18x12 ins. in each section, $5\frac{1}{2}$ ft. dist., and raised a mound of earth, 4 ft. base, 2 ft. high, N. of

corners.

Land, level.

Soil, sandy and gravelly,
1st and 2nd cts.No timber; undergrowth,
sage, high weeds, mesquite
and cactus.Lands covered with dense
undergrowth, 204 cts.Receipt of runs prevented
taking the latitude.

March 20, 1907.

March 21: At 8⁴⁵ a.m. a m.
l.m.f. I set off $0^{\circ} 52' 32''$
N. on the lat. arc; $0^{\circ} 54' 11''$
on the decl. arc; and
determining a meridian
with the solar at the
cor. of secs 23, 24, 25 and 26

Thence I run

East on a random line bet.
secs. 24 and 25.

45.00 Left temp. 1 sec. cor.

On E. of this point, the
line intersects the
impassible bluff region
which renders the further
extending of this line
impracticable. This
great precipitous bluff
region is of no commercial
value as far as timber,
grazing and agriculture
is concerned. Therefore I
discontinue the survey of
this line at the 4th sec. cor.,
which I establish as
follows:

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Left a sand stone, 18x12x10
ins, 12 ins in the ground
for 1/2 sec. cor, marked
1/2 on the N. face; dug
7 pits 18x18x12 ins, E. end
of stone, 5 ft. dist. and
raised a mound of earth
2 1/2 ft. base, 1 1/2 ft. high, N. of
cor.

Thence I run
thrust on a true line bet. secs.
24 and 25.

Ascending the slope, through
very scattering timber and
dense undergrowth.

15.65 Indian trail bears N. th. and
E.

16.00 Bluffs, 10 ft. high, bears N.
and E. Precipitous descent
leaving timber, bears N.
and E.

19.75 Foot of descent, 150 ft. below
1/2 sec. cor, bears N. 50 E.; and
N. 50 th. Thence over level
County Valley lands.

23.65 Left bank of Sefian's Creek,
18 ft. high, rapidly changing
banks, bears N. 50 th. V. 10 E.;
thence up channel, comes from N. 10 th.

23.90 Right bank, 8 ft. high, bears
N. and E. Course of stream S.

40.00 The cor. of secs. 22, 24, 25 and 26
found level and mountainous.
Soil, sandy and stony; and
and Adcot.

Timber, a few scattering pine
and juniper; undergrowth,
sage, tumbleweed, cactus
and mesquite.

Mountainous or lands
covered with dense undergrowth
45.00 chp.

- N. 52.51' th. bet. sec. 23 and 24.
Over level valley, through
dense undergrowth, no
timber.
- 1.51 Indian fence, bears E. and
th.; thung through
field.
- 21.57 Fence, bears N. 80° E. and V.
80° th.; leaving field.
- 21.95 Narayot Indian's hogan, bears
E. 10 cho. dist.
- 22.10 Narayot Indian's hogan or
cabin, bears th. 1.25 cho.
dist.
- 29.67 Indian trail, bears N. 85° E.
and V. 80° th.
- 40.50 Let a sand stone, 36 x 8 x 6 ins.,
27 ino. in the ground, for
sec. cor., marked $\frac{1}{4}$ on the
th. face; raised a mound of
stone 2 ft. long, $\frac{1}{2}$ ft. high,
th. of cor., pits imperceptible.
- 66.51 Indian trail, bears N. 30° th.,
and V. 30° E.
- 80.00 Let a sandstone, 48 x 24 x 4 ins.,
36 ino. in the ground, for
cor. of sec. 13, 14, 23 and 24,
marked with 3 notches on
the V. and 1 notch on the
E. edge; from which
A pinon, 14 ino. diam., bears
N. 87½° E., 258 lbs. dist.,
marked T 24 N
R 20 E V 24 D P.
- A pinon, 14 ino. diam.,
bears V. 60° E., 254 lbs.
dist., marked T 24 N
R 20 E V 24 D P.
- No other trees in limits;
dug pits, 18 x 18 x 12 ino. in
each sec., 5½ ft. dist.; and

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raised a mound of earth,
 4 ft. base, 2 ft. high, at
 corner.
 Land, level.
 Soil, sandy and stony, and
 and red top.
 No timber, undergrowth,
 sage, mesquite and
 cactus.
 Lands covered with dense
 undergrowth, 80 chs.

East on a random line bet.
 sec. 18 and 24.
 40.00 Set temp. & sec. crs.
 67.00 Entered great bluff region,
 which prevented survey
 of the E. Side of T. & N. R. & C.
 This region is very precip-
 itous and will never have
 any value for timber,
 grazing or agriculture,
 it being impracticable to
 survey; therefore I discontinued
 this line at the 67.00
 chain point and established
 a H.C. for cor. of sec. 18, 18,
 19 and 24, as follows:
 Set a sand-stone 24x14x8
 ins., 18 ins. in the ground
 for H.C. to cor. of sec. 18, 18,
 19 and 24, marked with
 3 notches on the N. and S. edges,
 and H.C. on the N.E. face, from
 which
 A pin, 8 ins. diam., bears
 N. 20° E., 106.2 lbs. dist.
 marked H.C. T. & N. R.
 & C. 18 18 19 24

A Pinon, 3 ins. diam,
 bears S. 55° E, 35 lbs.
 dist. marked at C
 T₂xN P₃₀C V₂₄P₂

A Pinon, 4 ins. diam,
 bears N. 29° E, 36 lbs.
 dist. marked at C
 T₂xN P₃₀C V₁₃
 B.P.

Other small scrubby trees
 in limits, but impracticable
 to mark. I raised a
 mound of stone 2 ft. base,
 1 1/2 ft. high, at cor. Pits
 impracticable.

Then I run
 that on a true line bet. nos.
 13 and 24.

Over gradual N. slope, through
 dense undergrowth, no timber,
 from foot of great bluffs.

7.00 Foot of descent, 20 ft. below
 cor., bears N. E. and V. th., through
 our arm of Donkey Valley.

15.00 Indian trail, bears N. E. and
 S. th.

18.25 Left Bank of Defiance Creek,
 5 ft. high, bears N. E. and
 S. th. Over dry channel.

18.50 Water's edge, 30 lbs. wide, 2 ft.
 deep, turbid, impure water,
 course S. 80° th. Over dry
 channel.

21.80 Right Bank, of creek, 6 ft.
 high, bears N. 60° E, V. 60° th.
 Over valley.

27.00 Set a sand stone 18x12x8 ins.,
 12 ins. in the ground,
 for 1/2 sec. cor., marked
 on the N. face; Aug.

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- 52.90 pits, 18x18x12 ins., E. and S. of stony, 3 ft. dist; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
 - 54.00 Left valley and ascend over stony ridge point, through scattering timber, base N. and W.
 - 54.00 Top of stony ridge point, 100 ft. high, base N. and W. Ascend steep S. slope.
 - 64.50 Leave timber, base N. and W. Begin very gradual descent over E. side of Poverty Valley.
 - 67.00 The cor. of secs. 13, 14, 20 and 24, 125 ft. below top of ridge point.
- Land, level, rolling and mountainous.
Soil, sandy and gravelly; and stony, 1st, 2nd and 4th cuts.
Timber, scattering pine, juniper and oak; undergrowth, small timber, sage, cactus and mesquite.
Mountainous or lands covered with dense undergrowth, 67.00 chs.

No. 01 th bet. secs. 13 and 14.
Over valley, through dense undergrowth.
40.00 Cut a sandstone, 24x8x6 ins., 18 ins. by th

ground, for $\frac{1}{4}$ sec. cor.,
marked $\frac{1}{4}$ on the th. face
from which,

A pinon, 12 ins. diam.,
bears $\text{V. } 75^{\circ} \text{ E. } 286 \text{ lbs.}$
dist. marked $\frac{1}{4}$
 $\text{I}_{10} \text{ D } \text{I}$

No other trees in limits;
dig pits, $18 \times 18 \times 12$ ins.
N. and S. of stuy, 3 ft.
dist. and raised a
mound of earth $3\frac{1}{2}$ ft.
base, $1\frac{1}{2}$ ft. high, th. of cor.

80.00 Set a sand stuy, $18 \times 12 \times 8$
ins. 12 ins. in the ground,
for cor. of secs. 11, 12, 13 and
14, marked with 4
notches on the V. and 1
notch on the E. edge,
from which

A pinon, 4 ins. diam., bears
 $\text{N. } 79^{\circ} \text{ E. } 106 \text{ lbs.}$ dist.
marked $\text{I}_{24} \text{ N } \text{R } 30 \text{ E}$
 $\text{I}_{12} \text{ D } \text{I}$

A pinon, 6 ins. diam., bears
 $\text{V. } 85^{\circ} \text{ E. } 118 \text{ lbs.}$ dist.
marked $\text{I}_{24} \text{ N } \text{R } 30 \text{ E}$
 $\text{I}_{13} \text{ D } \text{I}$

No other trees in limits
that are practical to mark.
dig pits, $18 \times 18 \times 12$ ins. in
each section, $3\frac{1}{2}$ ft. dist.,
and raised a mound of
earth 4 ft. base, $1\frac{1}{2}$ ft. high,
th. of cor.

Land, level.
Soil, sandy, and and red rot.
No timber; undergrowth,
sage, cactus and mesquite.
Lands covered with dense
undergrowth, 20.00 lbs.

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11 A.M. March 31, 1907.

3 chs. E. and 3 chs. W. of the
 cor. of secs. 11, 12, 13 and 14;
 the E. and W. lines respec-
 tively would intersect
 the great bluff region,
 which as heretofore
 described is not adapted
 to grazing, timber or
 agriculture. Since this
 region is largely un-
 surveyable; therefore I
 discontinued the survey
 of this range of sections at
 the established corner of
 secs. 11, 12, 13 and 14.

April 1st. At 8^h 10^m a.m.
 l.m.f. I set off $35^{\circ} 2' 30''$ N.
 on the left arc; $45^{\circ} 17'$ N. on
 the dcd. arc; and determining
 a meridian with the solar
 at the cor. of secs. 25, 26,
 25 and 26.

Shing Drum
 set on a trap line bet. secs.
 26 and 25.

Over valley, through scat-
 tering & undergrowth; no
 timber.

962 being wagon road, bears N. and
 S.

1947 Old Indian trail, bears N. 15°
 W. and V. 15° E.

- 23.10 Left Bank of Defiance Creek, 15 ft. high, bears N. 15° E. and V. 15° th. Over sandy flood channel.
- 23.20 Water's edge, 5 ft. deep, 50 yds. wide, course V. 15° th.
- 24.00 Right Bank, 25 ft. high, bears N. 15° E. and V. 15° th. Over valley.
- 25.25 Ordinary trail, bears N. 15° th. and V. 15° E. Leave valley, bears N. and V. and ascend E. slope.
- 29.00 Entry scattering timber, bears N. and V.
- 40.00 Set a sand stone, 24 x 14 x 8 ins., 18 ins. in the ground, for 1/2 sec. cor., marked 1/4 on the N. face; from which
 - A pinon, 10 ins diam., bears N. 20° th., 54 lbs. dist. marked 1/4 V 26 @ 2.
 - A pinon, 6 ins diam., bears V. 20° E., 47 lbs. dist. marked 1/4 V 35 @ 2.

This line from here on th. ascends over rough, precipitous E. slope of mountain on the breaks of the impassible Box Canyon of Defiance Creek, below Poverty Valley. This region not being adapted to grazing, timber or agriculture; therefore I discontinued this line at the 1/2 sec. cor. just established.

Land, level and mountainous.

Subdivisions of T. 24 N. R. 30 E.

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Soil; sandy, gravelly and stony, wet, and #24 soil.
Timber, pinon, juniper and oak; undergrowth, sage, mesquite and small timber.
Mountainous lands, #25 cho.

From the cor. of secs 23, 24, 25 and 26, run
stake on a true line bet. secs 23 and 26.

Over valley, through dense undergrowth; no timber.
1990 Hogan road, bears N. 40° and V. C. Leave main valley, bears N. 40° and V. and begin gradual ascent of E. slope.

4000 ft a sand stone, 8 x 16 x 12 ins., 28 ins. in the ground, for 1/4 sec. cor., marked 1/4 on the N. face; from which

A cedar, 4 ins. diam., bears N. 32° E., 161 lbs. dist., marked 1/4 V 23 @ 1/4.

A pinon, 6 ins. diam., bears T. 81° E., 0 x 2 lbs. dist., marked 1/4 V 26 @ 1/4.

57.40 Indian Hogan or house bears N. 15° E. dist.

58.94 Garden fence, bears N. E. and V. 40°.

59.25 Lane fence, now bears N. 60° E., T. 60° E.

77.60 Ridge spur, 150 about valley, slopes T. E. and descend gradually.

79.95 Spring branch, 5 lbs. wide, in ditch, 20 ft. deep, course T. 10° E.

50.00

The point for cor. of secs. 22, 23, 26 and 27, falls right on bank of ditch. Where natural conditions would insure its destruction. Therefore I set a H.C. for this sec. cor. at a point 25 lbs. N. of the true point as follows: Left a sand stone, 24x10x3 ins., 18 ins. in the ground, from H.C. to cor. of secs. 22, 23, 26 and 27, marked H.C. on N.E. face, with 2 notches on the N. and E. edges. dug pits 18x18x12 ins. in each section, 5 1/2 ft. dist, and raised a mound of earth 4 ft. base, 2 ft. high, N. of cor.

Land, level and rolling.
Soil, sandy and stony, and not rot.
Timber, very scattering pine and juniper, undergrowth, sage, cactus, tumbleweed and mesquite.
Lands covered with dense undergrowth, s.b. oschs.

C. 0-011 E. on a true line bet. secs. 26 and 27. Around over rolling N.E. slope, through a few scattering trees and undergrowth.

12.95

Fence, bears N. th. and V. E.

13.15

Indian trail, bears N. th. and V. E.

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1800 Enter scattering timber, bears N. H. and V. S. Steeper ascent along broken N. E. slope of mountain.

2100 Top of rock point, 100 ft. above corner, slopes S. E. beyond.

2500 Low bed of wash, 25 ft. below spur, course N. 80° E. Ascent over broken N. E. slope of mountain.

4000 Set a sand stone, 24x12x10 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on the N. face, from which a cedar, 6 ins. diam., bears S. 87° E., 21 lbs. dist. marked 1/4 V 25 D. S.

A pinon, 6 ins. diam., bears S. 69° H., 51 lbs. dist., marked 1/4 V 27 D. S.

Four chains S. of this corner, the line intersects precipitous bluffs on steep N. E. slope of mountain. The land is not only worthless, but in part impracticable to survey; therefore I discontinue the survey of this line at the 1/4 sec. cor. just established.

Land rolling and mountainous. Soil, sandy and stony; and 4th row.

Timber; pinon, juniper and oak; undergrowth, small timber, sage and cactus. Mountainous lands, 22.00 lbs.

No. 01' th. bet. sec. 22 and 23.
 descend over rolling N. E.
 slope through open scatter-
 ing timber and scattering
 undergrowth.

Beginning at tree point for
 Cor. of Secs. 22, 23, 24 and 25,
 which follows by ditch, 25
 lbs. E. of the th. R.

0.50 Spring branch, 5 lbs. wide, in
 ditch 20 ft. deep, course
 S. E. descend.

4.00 Ridge spur, 30 ft. above spring
 branch, slopes S. 60° E.

21.40 Wash, 25 ft. deep, course S. 60° E.,
 20 lbs. wide, perpendicular
 banks.

21.95 Wash, 30 ft. deep, perpendicular
 banks, 25 lbs. wide, course S.

21.95 Indian Hogan, bears th., 12 lbs.
 dist.

28.00 wing wagon road, bears N. th.
 and S. E.

39.75 dry wash, 10 ft. deep, 15 lbs.
 wide, course S. E.

40.00 left a sand stone, 6 x 10 x 4 ins.,
 27 ins in the ground, for
 1 sec. cor., marked 1/4 on the
 th. face; No trees in limits.

Dug pits, 18 x 18 x 12 ins. N. and
 N. of cor., 3 ft. dist. and raised
 a mound of earth, 8 1/2 ft.
 base, 1 1/2 ft. high, N. of cor.

42.00 Wash, 15 lbs. wide, 10 ft.
 deep, course S. E.

50.50 Enter scattering timber, bears
 E. and th.

54.00 Enter heavy timber, bears
 E. and th.

60.00 Ridge spur, 125 ft. high, slopes
 N. 70° th. descend.

Subdivisions of T. 24 N., R. 20 E.

BOOK 1930

20.50 Out, scattering timber, bears
Sand H; and dense undergrowth.
26.00 Ash, 10 lbs. dup., 10 lbs. V
widely, course T. 20 E.

20.00 Set a sandstone, 10 x 12 x 8 ins,
10 ins in the ground, for
cor. of sec. 14, 15, 22 and 23,
marked with 3 notches on
the N. and 2 notches on
the E. edge, from which
A cedar, 14 ins. diam.,
bears N. 23° E., 164 lbs
dist. marked T 24 N
R 20 E V 14 B P.

A pinon, 4 ins. diam.,
bears V. 19° th., 217 lbs.
dist. marked T
24 N R 20 E V 22
B. P.

A pinon, 16 ins. diam.,
bears N. 18° th., 294
lbs. dist. marked
T 24 N R 20 E V 15
B. P.

No other trees in limits, that
are practicable to mark.
bug pits 18 x 18 x 12 ins. in
each section, 5 1/2 ft. dist.,
and raised a mound of
earth, 4 ft. base, 2 ft. high,
at cor.

Land level and mountainous.
Soil, sandy and gravelly,
and and red rot.

Timber, pinon, juniper and
oak, undergrowth, small
timber and sage.

Mountainous lands, 20.00 chs.
April 1: At this sec. cor., I set
off 42 ²⁰ ~~24~~ N. on the old. and;

and at 12^h 54^m P.M. (m.t.),
show the sun on the
meridian; the resulting
latitude is $33^{\circ} 28' N.$,
which is correct.

- East on a random line bet.
secs. 14 and 23.
- 40.00 Left temp. $\frac{1}{4}$ sec. cor.
- 80.00 Entered N. and V. line at the
cor. of secs. 13, 14, 23 and 24.
Thence ∇ run
West on a true line bet.
secs. 14 and 23.
- Over valley, through dense
undergrowth; no timber.
- 18.20 Hagon road, bears N. and V.
- 38.25 Dry wash, 25 ft. deep, 30 ft.
wide, course S. 100th.
- 40.00 Set a sand stone, 18x10x4
ins., 15 ins. in the ground,
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
the N. face; dug pits, 18x10x
12 ins., E. and W. of stone, 3 ft.
dist.; and raised a mound
of earth, $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
high, N. of cor.
- 50.00 Entering scattering timber, bears
N. and V. and begin to
ascend.
- 73.00 Hagon road, bears N. W. and V. C.
- 80.00 The cor. of secs. 14, 15, 22 and
23, 160 ft. above wash.
Land level and rolling.
Soil, sandy and gravelly; 1st
and 2nd cots.
Timber; pines, juniper and
oak; undergrowth, weeds,

BOOK 1930

sage and magnify.
Lands covered with dense
undergrowth, so. rocks.

April 1, 1907.

April 2: At 8⁴⁵ 15^m a.m. (m.t.)
I set off ~~500~~ ²⁸ ft on the
lat. arc; 500 ft N on the ded.
arc; and determine a
meridian with the solar
at the cor. of secs. 14, 15,
22 and 23.

Thence I run,
N. 5° 01' 0" E. bet. secs. 14 and 15.
Over rolling ground on
gentle S. slope, through
scattering timber and
dense undergrowth.

47.00 Leave timber, bears E. and S.

48.00 Set a sand stony, 18x18x4 ins.,
12 ins. in the ground, for
sec. cor., marked $\frac{1}{4}$ on the
S. face. Dig pits, 18x18x12
ins., N. and S. of cor., 3 ft.
dist.; and raised a mound
of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
high, S. of cor.

49.70 Indian trail, bears E. and S.

50.00 Dry wash, 15 lbs. wide, 20 ft.
deep, course E.

60.00 Dig in steeper ascent, through
scattering timber, bears E. and
S.

80.00 Set an iron stony, 26x18x8 ins.,
25 ins. in the ground, for
cor. of secs. 10, 11, 14 and 15,
marked with 4 matches

27

1930

- on the V. and 2 notches on
the E. edges; from which
A cedar, 15 ins. diam.,
bars N. 65° E. 17 lks.
dist, marked T. 24N
R. 08 E V, 11 D P.
- A cedar, 8 ins. diam.,
bars V. 01° E, 56 lks.
dist, marked T. 24N
R. 08 E V, 14 D P.
- A cedar, 16 ins. diam.,
bars V. 63° th, 17 lks.
dist, marked T. 24N
R. 08 E V, 15 D P.
- A cedar, 10 ins. diam.,
bars N. 25° th, 50 lks.
dist, marked T. 24N
R. 08 E V, 10 D P.

Land, rolling and mountainous.
Soil, sandy and gravelly,
and and red catp.
Timber, cedar and juniper
with some pine; under-
growth, small timber,
sage, cactus and mesquite.
Mountainous or lands
covered with dense under-
growth, 80.00 lks.

East on a random line bet
secs 11 and 14.
40.00 Let temp. 1/4 sec. cor.
80.00 Intersect N. and V. line, 14
lks N. of the cor. of secs. 11, 12,
13 and 14.
Chuna Spring
N. 89° 54' th. on a true line

BOOK 1880

bet. secs. 11 and 14
Over valley, through dense
undergrowth and no
timber.

3.00 Hagon road, bars N. 15th and
H. 15th E.

36.00 by work, 10 lbs wide, 15 ft
deep, course T. 20th E.

40.00 Let a sand trap, 15 x 12 x 10 ins.
10 ins in the ground, for
1 sec. cor., marked 1/4 on the
N. face; dug pits, 15 x 15 x 12
ins. E. and th. of course,
2 ft. dist, and raised a
mound of earth, 2 1/2 ft
base, 1 1/2 ft high, N. of cor.

41.00 by work, 10 lbs wide in
ditch 2 ft. deep, course
T. 1. of E. Around 100 ft.

52.00 Entry scattering timber,
bars N. and T.

55.00 The cor. of secs 10, 11, 14 and 15:
Land, good and mountainous
soil, sandy and gravelly,
and good feed etc.

Timber, pines, juniper and
cedar; undergrowth, small
timber, sage and cactus.

Mountains or lands covered
with dense undergrowth,
50.00 chs.

To the N. of the cor. of secs
10, 11, 14 and 15, the region
is very dry and mountainous.
The soil is all 4th
rate and the timber very
scattering and scrubby.

A great bluff line extends from E. to W. making the survey, in part, impracticable. Therefore I discontinued the survey of this range of sections at the only secs. 10, 11, 14 and 15.

From the cor. of secs. 22, 23, 26 and 27.

Down, then on a true line bet. secs. 22 and 27, beginning at the true point for said cor., 25 Chs. E. of the S. E. Ascend rolling E. slope through very scattering timber and scattering undergrowth.

6.00 Down, bears N. 00° W. and V. 00° E.

7.00 ditch; 1 ft. wide, 2 ft. deep, course V. 00° E.

9.55 Hagon road, bears N. 00° W. and R. 00° E. Ascend steep rocky E. slope of mountain.

20.50 Ridge point, 100 ft. above cor., Slope N. 00° E.

29.00 Runny, 75 ft. deep, course N.; begin steep ascent, heavy timber.

31.75 Old Indian trail, bears N. 15° E. and V. 15° W.

32.00 Indian Hogan or house, bears N. 75° W. Chs. dist.

39.00 More gradual ascent.

40.00 Set sand stone, 24 x 14 x 5 ins, 18 ins. in the ground, for

Subdivisions of T. 24N, R. 20E

BOOK 1890

1 sec. cor, marked 1 on the N. face, from which

A pinon, 12 ins. diam, bears N. 20° W, 26 lbs. dist, marked 1/4 V 22 B 2

A pinon, 8 ins. diam, bears V. 20° E, 12 lbs. dist, marked 1/4 V 21 B 2

60.00 Dry wash, 2 lbs. wide, in V draw, 10 ft. deep, cross N.E. Cliff ascending

20.00 A sandstone, 18x18x8 ins, 12 ins in the ground, for cor. of sec 21, 22, 23 and 24, marked with 2 notches on the V and 3 notches on the E edges, from which

A pinon, 8 ins. diam, bears N. 44° E, 37 lbs. dist, marked T. 24N R. 20E V 22 B 2

A pinon, 6 ins. diam, bears V. 40° E, 26 lbs. dist, marked T. 24N R. 20E V 21 B 2

A pinon, 10 ins. diam, bears V. 10° W, 20 lbs. dist, marked T. 24N R. 20E V 21 B 2

A pinon, 12 ins. diam, bears N. 26° W, 26 lbs. dist, marked T. 24N R. 20E V 21 B 2

This cor. stands, 600 ft. above the cor. of sec. 22, 23, 24 and 27.

Land, rolling and mountainous

Soil, sandy and gravelly, red and V. 4th rdy.

Timber, pinon, cedar, oak and juniper; undergrowth, small timber, sage, cactus and mesquite. Mountains, heavily timbered or lands covered with dense undergrowth; 8000 ft.

Rain prevented latitude observations and further work this day.

April 22, 1907.

N. 5° ^{02'} W. of sec. 21 and 22. Ascend along broken N. E. slope, through heavy timber and dense undergrowth.

19.50 Indian trail, bears E. and W.

20.50 Dry wash, 20 lbs. wide, in ravine, 100 ft. below cor., cross E. Climb ascent over boulders and bluffs.

22.00 More gradual ascent.

23.00 Top of bluffs, 100 ft. above wash, bears E. and W.

24.00 Cut a sand stone, 5x10x4 in., 18 in. in the ground, for 1 sec. cor., marked # on the N. face; from which

A pinon, 6 in. diam., bears S. 77° E., 50 lbs. dist., marked # V 22 B. P.

A pinon, 4 in. diam., bears N. 44° W., 14 lbs. dist., marked # V 21 B. P.

5000 Summit of E. spur of

Subdivisions of T. 24 N., R. 30 E.

BOOK

1980

mountain, 250 ft. above
wash slopes E. Second
N. E. slope of mountain,
5200 ft. ascent, over rugged
N. E. slope, through scattering
timber.

5200 At a point, 200 ft. below
summit,
set a sand stone, 24x16x12 ins.,
18 ins. in the ground, for
cor. of sec. 15, 16, 21 and 22,
marked with notches on
the V. and E. edges, from
which

A pinon, 10 ins diam,
bears N. 60° E., 13 lbs.
dist. marked T 24 N
R 30 E V 15 R 30 E

A pinon, 8 ins diam,
bears V. 55° E., 71 lbs.
dist. marked T 24 N
R 30 E V 22 R 30 E

A pinon, 10 ins diam,
bears V. 55° E., 48 lbs.
dist. marked T 24 N
R 30 E V 21 R 30 E

A pinon, 10 ins diam,
bears N. 54° E., 51 lbs.
dist. marked T 24
N R 30 E V 16 R 30 E

Land mountainous.

Soil, gravelly and stony;
red and 4th sat.

Timber, pinon, oak, juniper
and cedar; undergrowth,
small timber, sage, cactus
and mesquite.

Mountainous, heavily timbered
or lands covered with
dense undergrowth,
5200 ft.

- East on a random line
secs. 15 and 22.
- 40.00 Left turn $\frac{1}{4}$ sec. cor.
- 50.10 Entering N. and V. line 21 lbs.
N. of the cor. of secs. 14, 15, 22
and 23.
- Behind I run
N. 89° 51' Th. on a true line
bet. secs. 15 and 22.
- Ascend over rolling, broken
ground, through scattering
timber and shrub, under
growth.
- 27.50 Wash, 15 lbs. wide, in ditch,
18 ft. deep, course S. 70° E.
- 29.90 Indian trail, bears N. th. and
S. E.
- 31.50 Enter heavy timber, bears
N. and V.
- 31.55 Cross road, bears N. 15° th. and
V. 15° E.
- 40.05 Set a sand stone, 18 x 14 x 4
ins., 12 ins. in the ground,
for $\frac{1}{4}$ sec. cor., marked #
on the N. face, from
which
- A pinon, 10 ins. diam.,
bears N. 89° th., 98 lbs.
dist. marked $\frac{1}{4}$ V 15
B. P.
 - A pinon, 8 ins. diam.,
bears S. 50° th., 44 lbs.
dist. marked $\frac{1}{4}$ V 22
B. P.
- 45.00 Enter scattering timber, bears
N. and V.
- 54.70 Steeper ascent of mountain.
- 50.00 The cor. of secs. 15, 16, 21 and
22, 40 ft. above wash.
Land, mountainous.
Soil, sandy and stony;

B. P.

Subdivisions of T. 24 N., R. 50 E

BOOK 1880

red and grey rot.
 Timber, fir, spruce, aspen, oak
 and juniper; undergrowth,
 small timber, oak brush,
 cactus and sage.
 Mountainous, heavily timbered
 islands covered thickly
 dense undergrowth, 80.10
 Cho.

No. 20 ft. bet. sec. 15 and 16.
 descend along broken N. E.
 slope of mountain,
 through scattering
 timber and dense under-
 growth.

24.00 Dry wash, 400 ft. below cor,
 120 lbs wide, course N. 70° E.
 20.25 Dry wood road, bears N. 60° E.

21.00 Ridge spur, 100 ft. above
 wash, slopes N. E.

26.25 Dry wash, 10 lbs wide, in
 ravine 25 ft. deep, course
 N. 80° E.

40.00 Set an ironstone, 26 x 18 x 16
 ins., 27 ins in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$
 on the N. face; from which
 a pinon, 6 ins. diam.,
 bears N. 70° E., 18 lbs
 dist., marked $\frac{1}{4}$
 15 P. P.

A pinon, 10 ins. diam.,
 bears N. 50° E., 9 lbs
 dist., marked $\frac{1}{4}$
 16 P. P.

42.00 Top of spur, 100 ft. high, slopes
 N. E.

50.70 Old log fence, bears N. 70° W.,
V. 70° W.

51.90 Dry wash, 75 chs. wide, 100
ft. below spur, course
V. 80° E. Over rolling land

54.92 Old log fence, bears N. 80° E.,
V. 80° W.

62.00 Indian hogan or house
bears S. 8 chs. dist.

76.75 Leaf timber, bears E. and S.

80.00 Set an iron tray, 36 x 16 x 4
ins., 27 ins. in the ground,
four cor. of sec. 9, 10, 15 and
16, marked with 4
notches on the V. and 3
notches on the E. edge;
No trees suitably for
marking in limits; dug
pits, 11 x 15 x 12 ins. in
each section, 5 1/2 ft. dist.,
raised mound of earth
4 ft. base, 2 ft. high, at
E. cor.

Land, rolling and moun-
tainous.

Soil, sandy and stony;
and and 4th sec. V.
Timber, pinon, juniper,
cedar, oak and pine;
undergrowth, small
timber, oak brush, cactus,
sage and mesquite.

Mountainous or lands
covered with dense
undergrowth, 80.00 chs.
Rain and snow strong
prevented latitude obser-
vations and further
work until 3 1/2 10th P. M.

Subdivisions of P. 24 N. R. 00 E.

BOOK 1980

April 4: At 3^h 10^m P.M. I met
a set of $08^{\circ} 35' N$ on
the local arc $50^{\circ} 35' N$
on the decl. arc, and
determining a meridian
with the poles of
the cor. of secs. 9, 10, 15
and 16.

Then I run
T. 89^o 51' E on a random line
bet. secs 10 and 15.

40.00 Let temp. $\frac{1}{2}$ sec cor.
No. 14 Entered N. and S. line, 28 lbs.
S. of the cor. of secs. 10, 11, 14
and 15.

Then I run
T. 89^o 57' N on a true line bet.
secs 10 and 15.

Ascending over rolling,
broken land, through
scattering timber and
dense undergrowth.

40.07 Let a sand stone, 15x12x8
ins., 10 ins. in the ground,
Jost. sec. cor., marked $\frac{1}{2}$ on
the N. face, from which
A pinon, 16 ins. diam. bears
N. 47^o E, 21 lbs. dist.,
marked $\frac{1}{2}$ V 10 P. J.
A pinon, 4 ins. diam., bears
T. 89^o 57', 59 lbs. dist.,
marked $\frac{1}{2}$ V 15 P. J.

39.90 Clear timber, bears N. H. and
T. E.

No. 14 The cor. of secs. 9, 10, 15 and
16, 100 ft. above the cor.
of secs. 10, 11, 14 and 15.

Land, rolling.
Soil, sandy and stony; and
and with
timber, pinon, juniper and

sak; undergrowth,
small timber, sask bush,
mosses and sage.
Lands covered with dense
undergrowth, No. 14 chs.

April 4, 1907.

The remaining portion
of this township, is a
very dry, stony region,
traversed through the
E. by the impassible
Wolf Canyon of Defiance
Creek. There are many
bluffs in the N. and
a great gorge with
impassible walls in
the S. The table land
is so dry and sandy, that it
is not adapted to
grazing, timber or
agriculture. There is
not a single Indian
settlement throughout
the unincorporated part of
this township.
Therefore I discontinue
the subdivisions of this
township at the cor.
of secs 9, 10, 15 and 16.

BOOK 1980

General Description.

The only land in T. 24 N., R. 30 E., that is at all adapted to grazing or agriculture is located in the Bonny Valley along Defiance Creek, about the head of the great impassible Box Canyon. Sections 14, 15, 22, 23, 24, 25, 26, 27, 30 and 36 in part, take in all of the lands of any value. In these sections are located all of the Navajo Indian Settlements. Some of the land is sandy and would produce good crops by irrigation. The unimproved part of the township is a dry barren, stony waste, cut up by the great impassible canyon, deep bluffs and rain rocks. The timber is of a very low grade, consisting of scrubby juniper, pines and oak brush.

Charles L. Campbell
U. S. Dept. Surveyor

For authority for red ink corrections
see deputy's letter of Oct. 16, 1907.

LIST OF NAMES.

A list of the names of the individuals employed by Charles L. Campbell, 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 E. Poles of Tps. 21, 22 and 23 N. R. 10 E. S. 1, 2 & 3 T. 24 N. R. 10 E. and Subs. T. 24 N. R. 10 E. showing the respective capacities in which they acted:

- Frank J. Brown Chairman.
- Leo R. Leaden Chairman.
- Moundman.
- Moundman.
- Robert Hashkan Axman.
- Axman.
- Flagman.

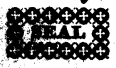
FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Charles L. Campbell, United States Deputy Surveyor, in surveying all

those parts or portions of the E. Poles of Tps. 21, 22 and 23 N. R. 10 E. S. 1, 2 & 3 T. 24 N. R. 10 E. Subs. T. 24 N. R. 10 E. of the Gilg and Salt River meridian, Arizona 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 Arizona
- Frank J. Brown Chairman.
- Leo R. Leaden Chairman.
- Moundman.
- Moundman.
- Robert Hashkan Axman.
- Axman.
- Flagman.

Subscribed and sworn to before me this 4th day of April, 1909



Charles L. Campbell
U. S. Deputy Surveyor

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BOOK 1930

I, Charles L. Campbell, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, hearing date of the 20th day of March, 1905, 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

Resurvey & Re-loc. Tps. 21, 22 and 23 N., R. 20 E. South Rdy T. 24 N., R. 20 E. Subdivisions of T. 24 N., R. 20 E. of the Colquand

Salt River meridian, in the Western 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.

Charles L. Campbell
United States Deputy Surveyor.

Subscribed by said Charles Campbell, and sworn to before me }
this 15th day of May, 1907

Rakowitz

COUNTY CLERK AND CLERK OF THE
SUPERIOR COURT OF THE STATE OF
WASHINGTON, FOR SPOKANE COUNTY



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Nov. 27th, 1907

The foregoing field notes of the survey of the subdivisional lines of T. 24 N., R. 30 E., of the Gila and Salt River Base and Meridian, in the territory of Arizona

executed by Charles L. Campbell U.S. deputy surveyor under his contract No. 129, dated March 20th 1905, 1905, 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.