



United States Department of the Interior



BUREAU OF LAND MANAGEMENT
Arizona State Office
One North Central Avenue, Suite 800
Phoenix, Arizona 85004-4427
www.blm.gov/az/

August 19, 2009

In Reply Refer To:
9600 (9560)
Group No. 1059

Memorandum

To: Group Administrator, Land and Minerals Operations
Group Administrator, Public Information and Records Services

From: Stephen K. Hansen *Stephen K. Hansen*
Chief Cadastral Surveyor

Subject: Notice of Lifting of Suspension and Cancellation of a Portion of a Survey

Effective this date, on the following listed survey, the suspension of a portion of the following listed survey plat is lifted and a portion of the survey is now cancelled. The memorandum of Notice of Suspension of a Portion of a Survey Plat was dated June 16, 2009.

The Survey of the Second Guide Meridian East through Townships 30, 31 and 32 North, Gila and Salt River Meridian, Arizona, Township Exteriors plat and notes, approved July 26, 1905.

This cancellation is necessary because new surveys have shown the previous surveys to be substantially out of rectangular limits, there have been almost no land actions based upon the previous surveys, and if the previous alignment of the Second Guide Meridian East through these townships is used for current and ongoing surveys, the original survey scheme for multiple townships would be unnecessarily complicated. Recovered monuments from past surveys will be amended and ties will be made to those corners in the new field notes in the unlikely event that the old alignment would ever need to be reconstructed. The lands are located within the Navajo Indian Reservation.

The portion that is now cancelled is between the recovered corner of Townships 29 and 30 North, Ranges 8 and 9 East, now designated as the corner of Townships 29 and 30 North, Range 8 East, and the recovered closing corner of Townships 32 North, Ranges 8 and 9 East, on the Eighth Standard Parallel North. During the new survey, under Group No. 1059, Arizona, corners

for Township 30, 31 and 32 North, Range 8 East, will be established at 40.00 and 80.00 chain intervals, between the two corners mentioned, on the new Second Guide Meridian East, with the excess or deficiency in the most northern half mile. Closing corners can then be established in Townships 30, 31 and 32 North, Range 9 East at intersection with the new Second Guide Meridian East.

The following notation will be made on the survey plat:

“The Survey of the Second Guide Meridian East through Townships 30, 31 and 32 North, Gila and Salt River Meridian, Arizona, Suspension Lifted and A Portion Cancelled, August 20, 2009, per Memorandum File No. 9600, Group No. 1059, AZ”

A copy of this memorandum will be placed at the front of the original field notes, Book 1859, located at the Arizona State Cadastral Survey Office.

Your records should also be appropriately noted.

cc: State Director, Eastern States Office
(ESO-960-1)
Bureau of Indian Affairs, Navajo
Regional Office
Attention: Branch of Real Property,
Realty Officer
Mr. Mike Halona III, Navajo
Land Department
Project Manager, Navajo Cadastral
Survey Project Office

1859

Book "A"

FIELD NOTES

BOOK 1859

OF THE SURVEY OF THE

2nd. Guide Mer. East, Through Tps. 26, 27, 28, 29, 30, 31 and
32 N., and the 3rd. Guide Mer. E. (N. two miles,) through
Tp. 32 N., Bet. Rs. 12 and 13 E.

-1859-

1859

Of the Gila & Salt River Base & Meridian,

AS SURVEYED BY

Philip Contzen, United States Deputy Surveyor,

Under his Contract No. 124, dated Dec. 12, 1904., 189

Survey commenced Marc. 25th, 1905., 189

Survey completed April 19th, 1905., 189

NAMES AND DUTIES OF ASSISTANTS.

Williams Kengler, chainman
 Fred Eagles, chainman
 George A. Hawley, chainman
 J. V. Kerrick, chainman
 Arthur Pogue, moun Aman
 Manuel Salazar, axeman
 James B. Boley, flagman

6-151

4-674.

Township 22 N., R. 12 E.

BOOK 1859

6	5	4	3	2	1	24
7	8	9	10	11	12	24
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

8th. Standard Parallel N.

1	226	
12	227	
13	21 18	T. 32 N. R. 9 E.
24	21 19	
25	21 30	
36	20 31	

1	206	
12	197	
13	19 18	T. 31 N., R. 9 E.
24	18 19	
25	18 30	
36	17 31	

1	166	
12	167	
13	15 18	T. 30 N., R. 9 E.
24	15 19	
25	14 30	
36	13 31	

1	136	
12	137	
13	13 18	T. 29 N., R. 9 E.
24	12 19	
25	11 30	
36	11 31	

7th. Stand. Parallel N.

1	10 6	
12	9 7	
13	9 18	T. 28 N., R. 9 E.
24	8 19	
25	7 30	
36	7 31	

1	6 6	
12	6 7	
13	6 18	T. 27 N., R. 9 E.
24	5 19	
25	5 30	
36	4 31	

1	4 6	
12	3 7	
13	3 18	T. 26 N., R. 9 E.
24	2 19	
25	2 30	
36	1 31	

WE, William Kengla and Fred Eagles, George A. Hawley
and J. J. Kerriek
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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

2nd Guide Meridian E. through Tps. 26-27-28-29-30-31-32 N. Rs. 8 and 9 E and 3rd Guide Meridian E. through Tps. 32 N. Rs. 12 & 13 E
W. Kengla, Chainman.

Fred Eagles, Chainman.

Subscribed and sworn to before me this 20th } George A. Hawley, chairman
day of March, 1905 } J. J. Kerriek, chairman

H. G. Power



WE, Arthur Pogue 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

2nd Guide Meridian E. through Tps. 26-27-28-29-30-31-32 N. Rs. 8 & 9 E and 3rd Guide Meridian E. through Tps. 32 N. Rs. 12 & 13 E
Arthur Pogue, Moundman.

....., Moundman.

Subscribed and sworn to before me this 20th }
day of March, 1905 }

H. G. Power



WE, Manuel Salazar 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

2nd Guide Meridian E. through Tps. 26-27-28-29-30-31-32 N. Rs. 8 & 9 E and 3rd Guide Meridian E. through Tps. 32 N. Rs. 12 & 13 E
Manuel Salazar, Axman.

....., Axman.

Subscribed and sworn to before me this 20th }
day of March, 1905 }

H. G. Power



I, James B. Baley, 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

2nd Guide Meridian E. through Tps. 26-27-28-29-30-31-32 N. Rs. 8 and 9 E and 3rd Guide Mer. E. through Tps. 32 N. Rs. 12 & 13 E
James B. Baley, Flagman.

Subscribed and sworn to before me this 20th }
day of March, 1905 }

H. G. Power



) Survey of the Second Guide Mer. E. Thro. Tps. 26-27-28-29-30-31-32 N.

Chains.

Through Tp. 26 N.

Survey commenced March 25th, 1905, and executed with a Young and Sons Light Mountain Solar Instrument No. 5607 which was duly examined by the Surveyor-General at Phoenix Arizona and approved.

The horizontal limb is provided with two double verniers placed opposite to each other reading to ~~single~~ *single* ~~minutes~~ of arc which is also the least count of the verniers of the latitude and declination arcs.

I examine the adjustments of the instrument, correcting and adjusting the level and collimation errors then to test the Solar apparatus by comparing its indications resulting from solar observations made during a. m., and p. m., hours with a true meridian determined by observations on polaris, I proceed as follows,

On March 25th, at 3. 30 p. m., by my watch at the Standard Cor. to Tps. 25 and 26 N., Rs. 8 and 9 E., in Lat. $35^{\circ}35'54''$ N., Long. $111^{\circ}28'11''$ W., I set off $35^{\circ}36'$ N., on the lat. arc and $1^{\circ}51'$ N., on the decl. arc and determine a meridian with the Solar, and mark a point thereof by a stone set firmly in the ground, 5 chs. N. of my station.

At 7 hours 9 mins., p. m., I observe polaris at western elongation in accordance with the manual of surveying instructions and mark a point on the line thus determined on a plug driven in the ground 5 chs. N. of the Cor.

March 25th, 1905.

----- 0 -----

March 26th, at 7 hours, 30 mins. a. m., l. m. t., I lay off the azimuth of Polaris $1^{\circ}28'1/2''$ to the E., and mark the meridian thus determined by cutting a small groove in the stone set last evening on which the meridian falls 0. 19 ins., W. of the meridian, determined from the observation with the Solar.

At 8 a. m., l. m. t., I set off $35^{\circ}36'$ N., on the lat. arc and $2^{\circ}08'$ N., on the decl. arc and determine a meridian with the Solar and mark a point thereof by a cross on the stone already set 5 chs. N. of my station.

This mark falls 0. 2 ins., W. of the mark established by the Polaris observation.

From the above results I conclude that the adjustments of my instrument are satisfactory.

The magnetic bearing of the true meridian reduced by the table give the mean mag. dec. as $14^{\circ}05'$ E.

Thence from the Standard Cor. to Tps. 25 and 26 N., Rs. 8 and 9 E., (which cor. was established by me under my contract No. 90, and is a limestone properly set and marked with a mound of stones S. of the Cor.). I run North on a true line, bet. secs. 31 and 36, through Tp. 26 N.

Over gently rolling land.

Difference between measurements of 40.00 chs., by two sets of chainmen is 6 lks. position of middle point by

1 st set 40.03 chs.

40.00

By 2nd set, 39.97 chs.; the mean of which is Set a limestone, 18 x 12 x 8 ins., 12 ins., in the ground for $1/4$ sec. cor. marked $1/4$ 36 on the W., and 31 on the E. faces; and raised a mound of stones 2ft. base $1/2$ ft. high, W. of Cor.

Pits impracticable.

Difference between measurements of 80. chs., by two sets of chainmen is 8 lks., position of middle point

By 1st set, 79.96 chs.,

Chs.
80.00

By 2nd set 80.04 chs., the mean of which is
Set a limestone, 18 x 10 x 6 ins., 12 ins., in the
ground for the cor. of secs. 25, 30, 31 and 36 marked
with

T. 26 N., on N. E.

R. 9 E., on the S. E.

R. 8 E., on the S. W. faces; with 5 notches on
the N. and 1 notch on the S. edges; dig pits, 18 x
18 x 12 ins., in each section, 4 ft. dist., and raise
a mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land gently rolling.

Soil gravelly and 3rd rate.

Timber scattering Timber.

----- 0 -----

North bet. secs. 25 and 30.

Over level land

Difference between measurements of 40. chs. by two
sets of chainmen is 8 lks., position of middle point
by 1st set is 40.04 chs. By 2nd set 39.96 chs.,
the mean of which is

40.00

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the
ground for 1/4 sec. cor. marked 1/4 25 on W., and 30
on E. faces; dig pits, 18 x 18 x 12 ins., N. and S.
of stone, 5 ft. dist. and raise a mound of earth 3 1/2
ft. base, 1 1/2 ft. high, W. of the Cor.

Difference between measurements of 80 chs. by two
sets of chainmen is 6 lks. position of middle point,

By 1st set is 80.03 chs.

By 2nd set, 79.97 chs., the mean of which is

80.00

Set a limestone, 18 x 7 x 6 ins., 12 ins., in the
ground for the corner of sections, 19, 24, 25 and 30,
marked

T. 26 on N. E.

R. 9 E., on the S. E.,

R. 8 E., on the S. W. faces; with 4 notches
on the N. and 2 notches on the S. edges; dig pits,
18 x 18 x 12 ins., in each section 4 ft. dist., and
raise a mound of earth 4 ft. base, 2 ft. high, W.
of the corner.

Land gently rolling.

Soil 2nd rate.

Timber scattering timber.

----- 0 -----

North bet. secs. 19 and 24.

Over gently rolling land.

24.20

Descend.

26.00

Deep sink at foot of abrupt cliff bears 5 chs. E.

29.00

Foot of descent bears N. E. and S. W.

Enter valley.

Difference between measurements of 40.00 chs. by two
sets of chainmen is 8 lks., position of middle point

By 1st set, 40.04 chs.,

By 2nd set, 39.96 chs., the mean of which is

40.00

Set a limestone, 19 x 6 x 5 ins., 1 1/2 ins., in the
ground for 1/4 sec. cor. marked 1/4 24 on the W., and
19 on the E. faces, and raised a mound of stones 2
ft. base, 1 1/2 ft. high, W. of the Cor. Pits impract.

68.00

Dry creek, 50 lks. wide, course N. E.

Difference between measurements of 80. chs., by two
sets of chainmen is 6 lks. position of middle pt.

By 1st set 79.97 chs.,

By 2nd set 80.03 chs., the mean of which is

80.00

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
for the corner to sections 13, 18, 19 and 24, marked
with,

T. 26 N., on N. E.

R. 9 E., on the S. E.

Chs.

R. 8 E., on the S. W. faces with 3 notches on the N. and S. edges; dig pits, 18 x 18 x 12 ins., in each section, 5/4 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of the corner. Land rolling and level. Soil gravelly and stony; 3rd and 4th rate. Timber scattering cedar.

March 26th, 1905.

----- 0 -----

March 27th- At 8 a. m., 1. m. t., I set off 35° 39' N. on the Lat. arc 2° 31 1/2' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24, thence I run, North bet. secs. 13 and 18. Over level land.

Difference between measurements of 40. chs. by two sets of chainmen is 4 lks.; position of middle point

By 1st set, 39.98 chs.,

By 2nd set, 40.02 chs., the mean of which is

40.00

Set a limestone, 18 x 8 x 6 ins., 12 ins., in the ground for 1/4 sec. cor., marked 1/4 13 on the W., and 18 on the E. faces; dug pits, 18 x 18 x 12 ins., N. and S., of stone, 3 ft. dist. and raise a mound of earth 2 ft. base, 1 1/2 ft. high, W. of cor.

57.00

Leave valley, bears north-easterly and south-westerly and begin steep ascent over rocky ground.

62.00

Top of high rolling mesa bears north-easterly and south-westerly.

Difference between measurements of 80. chs., by two sets of chainmen is 14 lks., position of middle point,

By 1st set, 80.07 chs.,

By 2nd set, 79.93 chs.; the mean of which is,

80.00

Set a limestone, 18 x 8 x 8 ins., 12 ins., in the ground for the cor. of secs. 7, 12, 13 and 18, marked

T. 26 N., on N. E.,

R. 9 E., on the S. E. and

R. 8 E., on the S. W. faces with 2 notches on the N. and 4 notches on the S. edges; and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of the Cor. Pits impracticable. Land level and rolling. Soil gravelly and rocky, 3rd rate. No timber.

NOTE- At the Cor. just above established at 12 o' clock noon I set off 2° 35' S., on the decl. arc and observe the Sun on the meridian the resulting latitude is 35° 39' N.

----- 0 -----

North bet secs. 7 and 12. Over rolling land.

Difference between measurements of 40. chs., by two sets of chainmen is 8 lks., position of middle point,

By 1st set, 40.04 chs.,

By 2nd set, 39.96 chs., the mean of which is

40.00

Set a malpais stone, 18 x 8 x 8 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 12 on the W. face, and 7 on the E. face, and raise a mound of stones 2 ft. base, 1 1/2 ft. high, W. of the cor. pits impracticable.

Difference between measurements of 80.00 chs., by two sets of chainmen is 10 lks., position of middle point,

By 1st set, 79.95 chs.,

By 2nd set, 80.05 chs., the mean of which is

80.00

Set a limestone, 19 x 7 x 5 ins., 15 ins., in the ground for corner of sections 1, 6, 7 and 12, marked,

4)

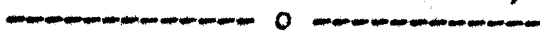
Second Guide Mer. East, Thro. Tp. 26 N.
Bet. Rs. 8 and 9 E.

Chs. T. 26 N., on the N. E.
R. 9 E., on the S. E. and
R. 8 E., on the S. W. faces; with 1 notch on N.,
and 5 notches on S. edges; and raised a mound of stones
2 ft. base, 1 1/2 ft. high, W. of the Cor. Pits
impracticable.
Land rolling and level.
Soil, gravelly and stony 2nd and 3rd rate.
No timber.



North bet. secs. 1 and 6.
Over gently rolling land.
23.00 Descend.
35.00 Foot.
36.00 Draw, 2 chs. wide, course north-westerly.
Difference between measurements of 40.00 chs., by two
sets of chainmen is 8 lks., position of middle point,
By 1st set, 39.96 chs.
By 2nd set, 40.04 chs., the mean of which is
40.00 Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
for 1/4 sec. cor. marked 1/4 1 on the W. and 6 on the
E. faces, and raised a mound of stones, 2 ft. base,
1 1/2 ft. high, W. of cor. Pits impracticable.
41.00 Top of sandstone knoll and descend.
43.00 Foot and enter valley bears north-easterly and south-
westerly.
Difference between measurements of 80. chs., by two
sets of chainmen is 10 lks., position of middle point,
By 1st set, 80.05 chs.,
By 2nd set, 79.95 chs., the mean of which is
80.00 Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
for the Cor. of Tps. 26 and 27 N., Rs. 8 and 9 E.,
marked,
T. 27 N., on the N. E.,
R. 9 E., on the S. E.,
T. 26 N., on the S. W. and R. 8 E., on the N. W.,
faces, with 6 notches on each edge; dug pits, 24 x 24
x 12 ins., on each line, N. E. and W., 4 ft., and S.
of stone, 8 ft., dist., and raise a mound of earth 5
ft. base, 2 1/2 ft. high, S. of Cor.
Land rolling and level.
Soil, gravelly and stony; 3rd and 4th rate.
No timber.

March 27th, 1905.



2nd. Guide Mer. E. Through Tp. 27 N. at 8 AM
March 28th, 1905, At the Cor. just previously set, I
lay off 2° 55' N., on the decl. arc., 35° 42' N., on
the lat. arc., and determine a meridian with the solar,
Thence I run, North on a true line on the 2nd Guide
Mer. E., bet. secs. 31 and 36 through Rs. 8 and 9 E.
Over level land.
7.00 Begin ascent from valley.
13.00 Top of ridge, bears easterly and westerly and descend.
20.00 Foot, thence over level land.
Difference between measurements of 40. chs., by two
sets of chainmen is 10 lks., position of middle point
By 1st set, 39.95 chs.,
By 2nd set, 40.05 chs., the mean of which is,
40.00 Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
for 1/4 sec. cor. marked 1/4 36 on the W. and 31 on
the E. faces, 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 the Cor.
Difference between measurements of 80.00 chs., by two
sets of chainmen is 8 lks., position of middle point,
By 1st set, 80.04 chs.,

(5)

2nd. Guide Mer. E. Through Tp. 27 N.
Bet. Rs. 8 and 9 E.

Chs.
80.00

By 2nd set, 79.96 chs., the mean of which is
Set a limestone, 19 x 7 x 5 ins., 1 1/2 ins., in the
ground for the cor. of secs. 25, 30, 31 and 36, marked
with 2 notches on the S. and 5 notches on the N. edges;
dig pits, 18 x 18 x 12 ins., in each sec. 5/8 ft. dist.,
and raise a mound of earth 4 ft. base, 2 ft. high W.
of the cor.

Land level gently rolling and mountainous.
Soil gravelly and stony; 2nd, 3rd and 4th rate.
No timber.

Mountainous land 13.00 chs.

----- 0 -----
North bet. secs. 25 and 30.

Over level land.

Difference between measurements of 40.00 chs., by two
sets of chainmen is 6 lks., position of middle point,

By 1st set, 40.03 chs.,

40.00

By 2nd set, 39.97 chs., the mean of which is,
Set a limestone, 18 x 6 x 5 ins., 12 ins., in the
ground for 1/4 sec. cor. marked 1/4 on the W. face, dug
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 the Cor.

72.00

Descend.

73.00

Foot and ascend.

74.00

Top bears northwesterly and south-easterly.

76.50

Descend.

79.00

Foot and enter valley bears N. W. and S. E.

Difference between measurements of 80.00 chs., by two
sets of chainmen is 10 lks., position of middle point,

By 1st set, 79.95 chs.,

80.00

By 2nd set, 80.05 chs., the mean of which is,
Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
for the corner to sections 19, 24, 25 and 30, marked
with 2 notches on the S. and 4 notches on the N. edges;
dig pits, 18 x 18 x 12 ins., in each section 5/8 ft. dist.,
and raised a mound of earth 4 ft. base, 2 ft. high, W.
of the Cor.

Land level and mountainous.

Soil gravelly and stony 3rd and 4th rate.

No timber.

Mountainous land 7.00 chs.

----- 0 -----
North bet. secs. 19 and 24.

Over level land.

Difference between measurements of 40. chs., by two
sets of chainmen is 8 lks., position of middle point,

By 1st set, 40.04 chs.,

40.00

By 2nd set, 39.96 chs., the mean of which is,
Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
for 1/4 sec. cor. marked 1/4 on the 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 the Cor.

Difference between measurements of 80. chs., by two
sets of chainmen is 6 lks., position of middle point,

By 1st set, 79.97 chs.,

80.00

By 2nd set, 80.03 chs., the mean of which is
Set a limestone, 19 x 7 x 5 ins., 1 1/2 ins., in the
ground for the cor. to secs., 13, 18, 19 and 24, marked
with 3 notches on the N. and S. edges; dig pits, 18 x
18 x 12 ins., in each section 5/8 ft. dist., and raise
a mound of earth 4 ft. base, 2 ft. high, W. of the Cor.
Land level and gently rolling.

Soil, sandy and 4th rate.

No timber.

March 28th, 1905.

----- 0 -----

The 2nd. Guide Mer. E. Through Tp. 27 N.
Bet. Rs. 8 and 9 E.

Chs.

March 29th, at 8 a. m., l. m. t., by my watch which has correct l. m. t., I set off 35° 44' N., on the lat. arc and 3° 18' N., on the decl. arc and at the cor. of secs. 13, 18, 19 and 24, just previously set by me determine a meridian with the Solar.

Thence I run,

North bet. secs. 13 and 18.

Over gently rolling land.

Difference between measurements of 40. chs., by two sets of chainmen is 8 lks; position of middle point

By 1st set, 39.96 chs.,

By 2nd set, 40.04 chs., the mean of which is

40.00

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the 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 the Cor.

Difference between measurements of 80. chs., by two sets of chainmen is 10 lks., position of middle point

By 1st set, 80.05 chs.,

By 2nd set, 79.95 chs., the mean of which is

80.00

Set a limestone, 18 1/2 x 7 x 5 ins., 12 1/2 ins., in the ground for the corner to secs. 7, 12, 13 and 18, marked with 2 notches on the N. and 4 notches on the S. edges; dig pits, 18 x 18 x 12 ins., in each sec. 5/8 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, W. of Cor.

Land gently rolling.

Soil, sandy and 4th rate.

No timber.

Note- at the above corner at 12 noon, l. m. t., I set off 3° 21' N., on the decl. arc and observe the Sun on the meridian, the resulting latitude is 35° 45' N.

----- 0 -----

North bet. secs. 7 and 12.

Over gently rolling land.

39.00

Descend.

Difference between measurements of 40.00 chs., by two sets of chainmen is 6 lks., position of middle point,

By 1st set, is 40.03 chs.,

By 2nd set, 39.97 chs., the mean of which is,

40.00

Set a limestone, 18 x 6 1/2 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of the cor. Pits impracticable.

42.00

Foot and ascend.

43.50

Top bears easterly and westerly and descend.

47.00

Foot thence over level land.

Difference between measurements of 80. chs., by two sets of chainmen is 8 lks., position of middle point,

By 1st set, 79.96 chs.,

By 2nd set, 80.04 chs., the mean of which is

80.00

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for ~~1/4 sec. cor.~~ ~~various~~ sections 1, 6, 7 and 12, marked with 5 notches on the S. and 1 notch on the N. edges; dig pits 18 x 18 x 12 ins., in each sec. 3/4 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, W. of Cor. Land rolling and level. Soil gravelly 3rd rate. No timber.

----- 0 -----

North bet. secs. 1 and 6.

Over level land.

4.00

Trail bears north-westerly and southeasterly.

Difference between measurements of 40. chs., by two sets of chainmen is 4 lks., position of middle pt.

The 2nd. Guide Mer. E. Through Tp. 27 N.
Bet. Rs. 8 and 9 E.

(concluded)

Chs.
40.00 By 1st set, 40.02 chs.,
By 2nd set, 39.98 chs., the mean of which is,
Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
for 1/4 sec. cor. marked 1/4 on the W. faces, 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 the cor.
Difference between measurements of 80.00 chs., by two
sets of chainmen is 8 lks.; position of middle point,
By 1st set, 79.96 chs.,
By 2nd set, 80.04 chs., the mean of which is
80.00 Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
for the Cor. to Tps. 27 and 28 N., Rs. 8 and 9 E.,
marked
T 28 N., on N. E ✓
R 9 E on S E ✓
T 27 N on S W ✓
R 8 E on N. W. faces, with 6 notches on each edge;
dig pits, 24 x 24 x 12 ins., on each line, N. E. and W.,
4 ft., and S. of stone, 3 ft. dist. and raise a mound
of earth 5 ft. base, 2 1/2 ft. high, S. of the Cor.
Land level and gently rolling.
Soil gravelly; 2nd and 3rd rate.
No timber.

The 2nd. Guide Mer. E. Through Tp. 28 N.
Bet. Rs. 8 and 9 E.

North bet. secs. 31 and 36.
Over gently rolling land.
27.60 Begin steep descent.
29.70 Foot, bears easterly and westerly and ascend.
31.00 Top bears easterly and westerly and begin gradual des-
cent.
Difference between measurements of 40.00 chs., by two
sets of chainmen is 10 lks., position of middle point
By 1st set 40.05 chs.,
By 2nd set, 39.95 chs., the mean of which is,
40.00 Set a limestone, 19 x 7 x 6 ins., 14 1/2 ins., in the
ground for 1/4 sec. cor., marked 1/4 on the W. face,
and raise a mound of stones, 2 ft. base, 1 1/2 ft.
high, W. of the cor.
Pits impracticable.
Difference between measurements of 80. chs., by two
sets of chainmen is 6 lks., position of middle point,
By 1st set, 79.97 chs.,
By 2nd set, 80.03 chs., the mean of which is,
80.00 Set a limestone, 18 x 14 x 5 ins., 12 ins., in the
ground for ~~the same~~ sections 25, 30, 31 and 36,
marked with 5 notches on the N. and 1 notch on the S.
edges; and raise a mound of stones, 2 ft. base, 1 1/2
ft. high, W. of the Cor.
Pits impracticable.
Land gently rolling.
Soil gravelly and stony; 3rd and 4th rate.
No timber.

March 29th, 1905.

March 30th, 1905, at 8 a. m., l. m. t., I set off 35°
47' N., on the lat. arc and 3° 41' 1/2' N., on the decl.
arc and determine a meridian with the solar, at the cor.
of secs. 25, 30, 31 and 36.
Thence I run,
North bet. secs. 25 and 30.
Over gently rolling land.

Chs.	Descend gradually. Difference between measurements of 40. chs., by two sets of chainmen is 6 lks; position of middle point, By 1st set, 39.97 chs., By 2nd set, 40.03 chs., the mean of which is
40.00	Set a limestone, 24 x 8 x 4 ins., 18 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, and raise a mound of stones 2 ft. base, 1 1/2 ft. high, W. of the Cor. Pits impracticable.
57.70	Road to Tuba City bears north-easterly and south-westerly.
64.00	Sandstone Knoll, bears 20 lks. E.
72.30	Foot of descent and enter draw course easterly.
77.30	Dry wash, 15 lks. wide, course easterly and leave draw and begin steep ascent.
79.90	Top of ridge bears easterly and westerly; thence over small mesa. Difference between measurements of 80. chs., by two sets of chainmen is 10 lks., position of middle point By 1st set, 80.05 chs., By 2nd set, 79.95 chs., the mean of which is
80.00	Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for the corner to sections 19, 24, 25 and 30, marked with 4 notches on the N., and 2 notches on the S. edges, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the Cor. Pits impracticable. Land rolling. Soil gravelly and stony; 3rd rate. No timber.
	----- 0 -----
	North bet; secs. 19 and 24. Over level land.
4.00	Ascend.
6.00	Top bears N. E. and S. W. and descend.
8.50	Foot.
9.00	Draw, 1 chain wide, course N. E. and ascend.
10.50	Top, bears N. E. and S. W. and descend.
14.00	Foot and enter draw, course north-easterly.
15.00	Trail bears north-easterly and south-westerly.
17.00	Leave draw and begin steep ascent.
19.00	Top of ridge bears north-easterly and south-westerly and descend steeply.
20.00	Begin gradual descent over gently rolling land. Difference between measurements of 40.00 chs., by two sets of chainmen is 10 lks., position of middle point By 1st set, 35.95 chs., By 2nd set, 40.05 chs., the mean of which is
40.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the Corner. Pits impracticable.
62.50	Trail, bears north-easterly and south-westerly. Difference between measurements of 80. chs., is 8 lks., position of middle point, By 1st set, 79.96 chs., By 2nd set, 80.04 chs., the mean of which is
80.00	Set a limestone, 19 x 7 x 5 ins., 14 1/2 ins., in the ground for the corner to sections 13, 18, 19 and 24, marked with 3 notches on the S. and N. edges; dig pits, 18 x 18 x 12 ins., in each sec. 5/8 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of Cor. Land gently rolling. Soil gravelly and stony. Mountainous land 15.00 chains. NOTE- Observation for latitude this day impossible owing to cloudy weather.

(9)

The 2nd Guide Mer. E. Through Tp. 28 N.
Bet. Rs. 8 and 9 E.

9

	Chs.	North bet. secs. 13 and 18. Over level land.
	15.00	Begin steep ascent.
	18.00	Top bears north-easterly and southwesterly.
	21.00	Descend.
	22.00	Foot.
	31.00	Ascend.
	34.00	Top bears easterly and westerly. Difference between measurements of 40. chs., by two sets of chainmen is 10 lks. position of middle point By 1st set, 39.95 chs., By 2nd set, 40.05 chs., the mean of which is
	40.00	Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. faces, and raise a mound of stones 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
	55.00	Begin steep ascent.
	58.00	Top of spur bears E. and W.
	60.00	Descend.
	62.50	Foot, deep gulch, 1.50 chs., wide, course easterly and ascend steep bank.
	64.00	Top bears E. and W.
	65.50	Descend abruptly, 100 ft.
	67.00	Canon, 1 chain wide, course E. and ascend.
	68.00	Top bears N. E. and S. W.
	71.00	Descend steeply.
	75.00	Foot, gulch 1 ch. wide, course northeasterly and southwesterly. Difference between measurements of 80. chs., by two sets of chainmen is 14 lks., position of middle point By 1st set, 79.93 chs., By 2nd set, 80.07 chs., the mean of which is
	80.00	Set a limestone, 20 x 8 x 6 ins., 15 ins., in the ground for the corner to sections 7, 12, 13 and 18, marked with 2 notches on the N. and 4 notches on the S. edges, and raised a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the cor. Pits impracticable. Soil, rocky and 4th rate. No timber. Mountainous land 65.00 chs.
		----- 0 -----
		North bet. secs. 7 and 12. Over mountainous land.
		Descending.
	6.50	Foot, draw, 1 chain wide, course north-easterly and ascend.
	10.00	Top bears N. E. and S. W.
	14.00	Descend steeply.
	16.00	Foot and ascend.
	20.00	Top bears E. and W., and descend steeply.
	21.50	Foot canon, 1 ch. wide, course north-easterly.
	22.50	Begin steep ascent. N. bank of Canon.
	26.00	Top bears N. E. and S. W. and descend. Difference between measurements of 40. chs., by two sets of chainmen is 16 lks., position of middle point, By 1st set, 40.08 chs., By 2nd set, 39.92 chs., the mean of which is
	40.00	Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
	57.50	Foot, and enter rocky draw, course north-easterly.
	62.50	Leave draw and ascend.
	67.00	Top of spur bears N. E. and S. W. and ascend.
	72.00	Top of spur bears N. E. and S. W. and ascend.
	79.00	Foot; thence over rolling land.

Chs. Difference between measurements of 80. chs., by two sets of chainmen, is 14 lks., position of middle point
By 1st set, 80.07 chs.,
By 2nd set, 79.93 chs., the mean of which is

80'00 Set a limestone 20 x 8 x 5 ins., 19 ins., in the ground for the corner to sections 1, 6, 7 and 12, marked with 1 notch on the N. and 5 notches on the S. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of the Cor. Pits impracticable.
Land mountainous.
Soil, rocky; 4th rate.
No timber.
Mountainous land 80.00 chs.

March 30, 1905.
----- 0 -----

March 31st. At the above described corner at 8 a. m., 1. m. t., I set off 4° 5' N., on the decl. arc., and 35° 51' N., on the lat. arc and determine a meridian with the Solar.
Thence I run, North bet. secs. 1 and 6.
Over rolling land.

33.00 Dry wash, 1 chain, wide, course westerly.
Difference between measurements of 40. chs., by two sets of chainmen is 8 lks., position of middle point,
By 1st set, 40.04 chs.,
By 2nd set, 39.96 chs., the mean of which is

40.00 Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.

56.80 Trail, bears E., N. E., and S. S. W.
60.00 Begin ascent, S. slope of high ridge.
66.00 Top bears easterly and westerly.
Descend.

70.00 Foot.
75.00 Dry wash, 1 chain wide, course south-westerly.
Difference between measurements of 80.00 chs., by two sets of chain en, is 10 lks., position of middle point
By 1st set, 79.95 chs.,
By 2nd set, 80.05 chs., the mean of which is,

80.00 At this point, I set a temporary closing corner for Tps. 28 N., Rs. 8 and 9 E.; thence I proceed to run a blank line WEST for the purpose of finding the Stand. Cor. to Tps. 28 N., Rs. 6 and 7 E., situate on top of the Coconino Mountains, which is my starting cor. for the survey of the 7th Standard Parallel North, through Rs. 6 and 7 E., under special instructions dated May 15, 1902. After running several miles on my blank line I find that the Seventh Standard Parallel North, through Ranges 6 and 7 E., crosses numerous box canyons and high and inaccessible cliffs of the Coconino Mountains; therefore, I find it impracticable to survey said standard, and return to the temporary corner (closing) to Tp. 28 N., Rs. 8 and 9 E., which I establish permanently as follows-

Set a limestone, 19 x 7 x 5 ins., 1# 1/2 ins., in the ground, for closing cor. to Tps. 28 N., Rs. 8 and 9., marked
C C T 28 N on S
R 9 E on E and
R 8 E on W faces, with 6 grooves on the S. E. and W., faces, and raise a mound of stones 2 ft. base, 1 1/2 ft. high, S. of the Cor. Pits impracticable.
Land rolling and mountainous.
Soil, gravelly and rocky; 3rd rate.
No timber.
Mountainous land 10.00 chs.

----- 0 -----

The 2nd Guide Mer. E. Through Tp. 29 N.
Bet. Rs. 8 and 9 E.

Chs.	From the closing corner just established by me, I run EAST on a true line and at 16.86 chs., I establish the Standard Corner to Tps. 29 N., Rs. 8 and 9 E., as follows-
	Set a limestone, 20 x 8 x 6 ins., 15 ins., in the ground, for standard Corner, marked
	S C 29 on N ✓
	9 E on E ✓
	8 E on W faces; with 6 grooves on the N., E., and W. faces; and raise a mound of stones 2 ft. base, 1 1/2 ft. high, N. of the Cor.
	Pits impracticable.
	Thence I run,
	North bet. secs. 31 and 36, on a true line, Over mountainous land.
	Ascending.
10.00	Top of ascent bears E. and W. and descend.
16.00	Foot.
17.00	Ascend.
18.00	Top of E. end of spur and descend.
20.00	Foot.
21.00	Begin ascent of sand-stone ridge.
30.00	Top of ridge, bears easterly and westerly.
32.00	Descend.
33.50	Top bears easterly and westerly.
37.00	Begin steep descent.
	Difference between measurements of 40. chs., by two sets of chainmen is 12 lks., position of middle point,
	By 1st set, 39.94 chs.,
	By 2nd set, 40.06 chs., the mean of which is
40.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
47.00	Foot. Dry wash, 1 chain wide, course easterly.
50.00	Ascend.
56.00	Top of ridge bears easterly and westerly., and begin descent of N. slope.
64.50	Foot, dry wash, 45 lks. wide, course north-westerly.
77.00	Dry wash, 50 lks. wide, course north-westerly.
	Difference between measurements of 80. chs., by two sets of chainmen is 10 lks., position of middle point,
	By 1st set, 79.95 chs.,
	By 2nd set 80.05 chs., the mean of which is
80.00	Set a limestone, 18 x 8 x 6 ins., 12 ins., in the ground for the corner to sections 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the N. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high W. of the corner. Pits impracticable.
	Land mountainous and broken.
	Soil stony and rocky; 4th rate.
	No timber.
	Mountainous land, 71.00 chs.
	----- 0 -----
	North bet. secs. 25 and 30.
	Over mountainous land.
	Descending.
5.10	Foot and ascend.
6.10	Trail bears easterly and westerly.
21.85	Ascend.
26.00	Top bears N. W. and S. E. and descend.
28.10	Foot and ascend.
29.10	Top and descend.
31.60	Foot bears E. and W.
32.40	Begin ascent S. slope of sand-stone ridge.
39.00	Top bears north-easterly and descend steeply.
	Difference between measurements of 40. chs., by two sets of chainmen is 12 lks. position of middle point

The 2nd. Guide Mer. E., Through Tp. 29 N.
 Bet. Rs. 8 and 9 E.

Chs. By 1st set, 39.94' chs.,
 By 2nd set, 40.06' chs., the mean of which is
 40.00 Set a limestone, 20 x 8 x 5 ins., 18 ins., in the ground
 for 1/4 sec. cor. marked 1/4 on the W. face, and raise
 a mound of stones 2 ft. base, 1 1/2 ft. high, W. of
 the cor. Pits impracticable.
 46.50 Foot, bears E. and W.
 47.00 Ascend.
 52.00 Top of ridge bears north-easterly and south-westerly
 and descend.
 55.00 Descend abruptly, 50 ft.
 56.00 Foot, dry wash, 70 lks. wide, course W., north-westerly
 and begin ascent over large sandstone boulders.
 76.00 Begin steep descent.
 79.70 Foot, bears N. north-westerly and S. south-easterly.
 Difference between measurements of 80. chs., by two
 sets of chainmen is 16 lks., position of middle point
 By 1st set, 80.08' chs.,
 By 2nd set, 79.92' chs., the mean of which is
 80.00 Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground
 for the corner to sections 19, 24, 25 and 30, marked
 with 2 notches on the S., and 4 notches on the N. edges,
 and raise a mound of stones, 2 ft. base, 1 1/2 ft.
 high, W. of the corner.
 Pits impracticable.
 Land mountainous.
 Soil, rocky and 4th rate.
 No timber.
 Mountainous land 80.00 chs.

March 31st, 1905.

----- 0 -----

April 1st, at the corner just set, at 8 a. m., l. m. t.,
 I set off 4° 28' N., on the decl. arc and 35° 58' E.,
 on the lat arc and determine a meridian with the solar.
 Thence I run,
 North bet. secs. 19 and 24.
 Over mountainous land.
 Descending steeply.
 2.50 Foot, bears easterly and westerly and ascend.
 6.00 Top and descend.
 8.50 Foot, bears north-easterly and south-westerly and begin
 steep rocky ascent.
 11.30 Top bears north-easterly and south-westerly, and descend
 steeply.
 17.00 Foot and begin steep ascent.
 26.00 Top bears north-westerly and south-easterly and descend.
 28.50 Foot bears north-easterly and south-westerly.
 33.00 Begin steep ascent.
 Difference between measurements of 40. chs., by two sets
 of chainmen is 16 lks., position of middle point,
 By 1st set, 39.92' chs.,
 By 2nd set, 40.08' chs., the mean of which is
 40.00 Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
 for 1/4 sec. cor. marked 1/4 on the W. face and raise
 a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of
 the corner.
 Pits impracticable.
 41.00 Top bears north-easterly and south-westerly and des.
 52.00 Foot bears easterly and westerly; thence over rolling
 land.
 Difference between measurements of 80. chs., by two sets
 of chainmen is 8 lks., position of middle point,
 By 1st set, 79.96' chs.,
 By 2nd set, 80.04' chs., the mean of which is,
 80.00 Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground
 for the corner to sections 13, 18, 19 and 24, marked
 with 3 notches on the N. and S. edges; dug pits, 18
 x 18 x 12 ins., in each section, 1/4 ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

13)

The 2nd. Guide Meridian East, Through Tp. 29 N
Bet. Rs. 8 and 9 E.

13

Chs.	Land mountainous and rolling. Soil, rocky; 4th rate. No timber. Mountainous land 52.00 chs. ----- 0 -----
	North bet. secs. 15 and 18. Over rolling land.
17.00	Begin steep ascent of rocky ridge.
28.00	Top bears north-westerly and south-easterly.
31.00	Descend.
31.70	Foot and ascend.
35.00	Top bears easterly and westerly and descend.
34.20	Trail bears easterly and westerly.
36.60	Foot.
38.00	Ascend.
39.00	Top and descend.
	Difference between measurements of 40.00 chs., by two sets of chainmen is 6 lks., position of middle point By 1st set, 39.97 chs., By 2nd set, 40.03 chs., the mean of which is
40.00	Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
41.00	Foot and ascend.
43.30	Top of ridge bears easterly and westerly. <i>W. of Cor.</i> <i>Set a limestone 18 x 7 x 5 ins. in ground marked W.P. on W. face and raise a mound of stones 2 ft. base 1 1/2 ft. high</i> From this point it is impracticable to chain for several miles across the Little Colorado River Box Canon and its tributaries owing to the height of the canon walls and the steepness of the country. Therefore, I establish a triangulation point (Station A). from which station or point I sight due north to a flag (station B), across the impassible canons. From (station A., I measure a base line, EAST, for a distance of 120. chs., (Station C); From this point (Station C) (Station A) bears S. 32° 19' W., Dist. - A.B. - tang. 32° 19' or 1.58 x 120, equals 189.60 chs., 43.30 chs., plus 189.60 chs., equals 232.90 chs., which is the distance from the corner to secs. 15, 18, 19 and 24 to Station B. Thence, I run, NORTH bet. <i>W. of Cor.</i> secs. 1 and 6, 7.10 chs., the distance necessary to reach the point for the cor. of Tps. 29 and 30 N., Rs. 8 and 9 E., which I establish, as follows- Set a limestone, 19 x 8 x 5 ins., 17 1/2 ins., in the ground, for the cor. of Tps. 29 and 30 N., Rs. 8 and 9 E., marked T 30 N on N E R 9 E on S E T 29 N on S. W. R 8 E on N W faces; with 6 notches on each edge; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, S. of the corner. Pits impracticable. The land bet. secs. 13 and 18, 7 and 12; 1 and 6, is traversed by rocky and impassible canons. Soil rocky and worthless. Timber, a few cottonwoods in the Little Colorado River Canon. Mountainous land 240.00 chs. -----
	The 2nd. Guide Mer. E. Through Tp. 30 N. Bet. Rs. 8 and 9 E.
	North bet. secs. 31 and 36. Over level land.
6.00	Descend.
10.50	Foot, dry wash, 30 lks. wide, course easterly and ascend.
15.50	Top bears easterly and westerly and descend.

The 2nd. Guide Mer. E. Through T. 30 N.
Bet. Rs. 8 and 9 E.

Chs.	
23.15	Foot and ascend.
32.00	Top bears E. and W., and descend.
35.00	Foot and enter Canon, course Northerly. Difference between measurements of 40. chs., by two sets of chainmen is 12 lks., position of middle point, By 1st set, 39.94 chs., By 2nd set, 40.06 chs., the mean of which is
40.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
43.00	Leave Canon and begin ascent over rolling heaps of volcanic cinders.
44.00	Top and descend.
45.00	Foot and ascend.
46.00	Top and descend.
47.00	Foot, dry wash, 40 lks. wide, course westerly and ascend.
49.00	Top and descend.
52.60	Foot gulch, 30 lks. wide, course northwesterly and asc.
54.25	Top bears north-westerly and south-easterly and begin steep ascent.
58.00	Descend abruptly 50 ft., and enter bok canon course E.
60.00	Leave canon and begin steep ascent.
64.00	Top bears north-westerly and south-easterly and des.
69.00	Foot, canon, 1 chain wide, course south-westerly.
70.00	Begin ascent east wall of canon.
77.00	Top and ascend.
79.80	Foot and enter canon course S. W. Difference between measurements of 80. chs., by two sets of chainmen is 18 lks., position of middle point By 1st set, 80.09 chs., By 2nd set 79.91 chs., the mean of which is
80.00	Set a limestone, 20 x 8 x 5 ins., 15 ins., in the ground for the corner to secs. 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the N. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the Cor. Pits impracticable. Land mountainous and level. Soil rocky: 4th rate. November. Mountainous land. 74.00 chs.
	April 1st, 1905. ----- o -----
	April 2nd, 1905, at the above described corner of secs. 25, 30, 31 and 36, at 7. 30 a. m., 1. m. t., I set off 4° 51' N., on the decl. arc 35° 58' N., on the lat. arc and determine a meridian with the Solar, Thence I run, North bet. secs. 25 and 30. In canon bed.
1.00	Dry wash, 1 chain wide, course S. Westerly and ascend vertical 40 ft.; thence ascend along broken bank of canon over large boulders.
38.00	Top of ridge bears easterly and westerly., and descend. Difference between measurements of 40. chs., by two sets of chainmen is 10 lks., position of middle point, By 1st set, 40.05 chs., By 2nd set, 39.95 chs., the mean of which is
40.00	Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
41.90	Foot and ascend.
43.90	Top bears northeasterly and southwesterly.

48.20	Chs., Begin descent along E. bank of Canon. Difference between measurements of 80. chs., by two sets of chainmen is 16 lks., position of middle point by By 1st set, 79.92 chs., By 2nd set, 80.08 chs., the mean of which is
80.00	Set a limestone, 19 x 8 x 5 ins., 1 1/2 ins., in the ground for the corner to secs. 19, 24, 25 and 30, marked with 2 notches on the S. and 4 notches on the N. edges and raise a mound of stones 2 ft. base, 1 1/2 ft. high, W. of the Cor. Pits impracticable. Land mountainous. Soil rocky; 4th rate. No timber. Mountainous land 80.00 chs.
----- 0 -----	
6.50	North bet. secs. 19 and 24. Over mountainous land, descending.
13.00	Foot, Canon, 1 chain wide, course W. and ascend. Top of mesa bears easterly and westerly. Difference between measurements of 40.00 chs., by two sets of chainmen is 8 lks., position of middle pt. By 1st set, 39.96 chs., By 2nd set, 40.04 chs., the mean of which is
40.00	Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
46.50	Descend.
55.00	Foot thence over rolling land.
57.30	Dry wash, 10 lks. wide, course southwesterly. Difference between measurements of 80. chs., by two sets of chainmen is 10 lks., position of middle point, By 1st set, 80.05 chs., By 2nd set, 79.95 chs., the mean of which is
80.00	Set a limestone, 20 x 8 x 5 ins., 15 ins., in the ground for the corner to secs. 13, 18, 19 and 24, marked with 3 notches on the N. and S. edges, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the cor. Pits impracticable. Land level, rolling and mountainous. Soil, gravelly, stony and rocky; 1st to 4th rate. No timber. Mountainous land 80.00 chs.
<p>Note- At the above described corner, at 12 O' Clock noon, I set off 4° 54' N., on the decl. arc and observed the Sun on the meridian the resulting latitude I found to be 36° 00' N., which is almost the correct calculated latitude for this station.</p> <p style="text-align: center;">----- 0 -----</p>	
12.50	North bet. secs. 13 and 18. Over rolling land.
13.50	Dry wash, 1 chain wide, course south-westerly.
20.00	Begin ascent, S. slope of volcanic ridge.
20.00	Top of lava flat, bears E. and W.
31.00	Descend.
32.00	Foot and ascend. Difference between measurements of 40. chs., by two sets of chainmen is 10 lks., position of middle point, By 1st set, 39.95 chs., By 2nd set, 40.05 chs., the mean of which is
40.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of Cor.

The 2nd Guide Mer. E. Through Tp. 30 N.
Bet. Rs. 8 and 9 E.

Chs.	Pits impracticable.
52.00	Top bears E. and W. and descend.
55.00	Foot, dry wash, 40 lks. wide, course S. westerly; thence over gently rolling land.
	Difference between measurements of 80. chs., by two sets of chainmen is 6 lks., position of middle point, By 1st set, 79.97 chs., By 2nd set, 80.03 chs., the mean of which is
80.00	Set a limestone, 20 x 8 x 5 ins., 15 ins., in the ground for the corner to sections 7, 12, 13 and 18, marked with 4 notches on the S. and 2 notches on the N. edges; dig pits, 18 x 18 x 12 ins., in each section, $\frac{3}{4}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of the Cor.
	Land rolling and mountainous. Soil, gravelly and stony; 3rd and 4th rate. No timber. Mountainous land 16.50 chs.
	----- 0 -----
	North bet. secs. 7 and 12. Over gently rolling land.
1.50	Dry wash, 2 chs., wide, course S. easterly.
39.30	Same wash, 50 lks. wide, course south-westerly. Difference between measurements of 40 chs., by two sets of chainmen is 8 lks., position of middle point, By 1st set, 39.96 chs., By 2nd set, 40.04 chs., the mean of which is
40.00	Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on the W. face; dug pits 18 x 18 x 12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of the corner.
44.00	Begin gradual descent.
51.20	Foot, gulch 20 lks. wide, 30 ft. deep, course easterly and ascend.
61.00	Top bears easterly and westerly and descend gradually.
72.70	Foot, dry wash, 40 lks. wide, course easterly thence over level land. Difference between measurements of 80. chs., by two sets of chainmen is 10 lks., position of middle point, By 1st set, 79.95 chs., By 2nd set, 80.05 chs., the mean of which is
80.00	Set a limestone, 19 x 7 x 5 ins., 15 ins., in the ground for the corner to secs. 1, 6, 7 and 12, marked with 5 notches on the S. and 1 notch on the N. edge; and raise a mound of stones, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of the corner. Pits impracticable. Land gently rolling. Soil, gravelly and sandy; 3rd and 4th rate. No timber, undergrowth scattering canotillo.
	----- 0 -----
	North bet. secs. 1 and 6. Over level land.
10.60	Dry wash, 20 lks. wide, course easterly.
13.50	Begin ascent along E. side of sandstone bluffs.
26.77	Ascend vertical 25 ft.
33.10	Ascend steeply. Difference between measurements of 40.00 chs., by two sets of chainmen is 14 lks., position of middle point, By 1st set, 39.93 chs., By 2nd set, 40.07 chs., the mean of which is
40.00	Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on the 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 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of the Cor.

Chs.
50.00 Top of bluff bears north-easterly and south-westerly; thence over steep rolling land.
77.00 Dry wash, 1 ch. wide, course easterly and ascend. Difference between measurements of 80. chs., by two sets of chainmen is 12 lks., position of middle point, By 1st set, 79.94 chs., By 2nd set, 80.06 chs., the mean of which is 80.00 Set a limestone, 20 x 8 x 5 ins., 13 ins., in the ground for the cor. to Tps. 30 and 31 N., Rs. 8 and 9 E., mkd. T 31 N on N E. R 9 E on S E. T 30 N on S W and R 8 E on N W faces; with 6 notches on each edge; dig pits, 24 x 24 x 12 ins., on each line, N. E. and W. 4 ft. and S. of stone 8 ft. dist. and raise a mound of earth 5 ft. base, 2 1/2 ft. high, S. of the Cor. Land mountainous rolling and level. Soil gravelly, sandy, rocky; 3rd and 4th rate. No timber. Mountainous land 39.00 chs.

April 2nd, 1905.

----- 0 -----
The 2nd. Guide Mer. E. Thro. Tp. 31 N.

April 3rd, 1905, at the above described corner, I set off at 8 a. m., 1. m. t., 5° 14' N., on the decl. arc and 36° 02' N., on the lat. arc and determine a meridian with the Solar. Thence I ran, North bet. secs. 31 and 36. Over mountainous land ascending.
23.00 Top, bears north-easterly and south-westerly. Descend.
25.00 Foot, and ascend.
32.00 Top, bears north-easterly and south-westerly and descend.
35.00 Foot, and enter draw, course easterly.
39.00 Leave draw and ascend. Difference between measurements of 40. chs., by two sets of chainmen is 10 lks., position of middle point, By 1st set, 39.95 chs., By 2nd set, 40.05 chs., the mean of which is 40.00 Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of Cor. Pits impracticable.
41.15 Top bears easterly and westerly and descend.
44.00 Foot and ascend.
64.50 Top bears easterly and westerly and descend.
70.50 Foot, dry wash, 50 lks. wide, course westerly.
71.00 Ascend.
73.40 Top bears easterly and westerly and descend.
76.20 Foot, dry wash, 20 lks. wide, course easterly and ascend.
79.00 Top bears easterly and westerly. Difference between measurements of 80. chs., by two sets of chainmen is 14 lks. position of middle point By 1st set, is 79.93 chs., By 2nd set, is 80.07 chs., the mean of which is 80.00 Set a limestone 18 x 7 x 5 ins., 12 ins., in the ground for the corner to secs. 25, 30, 31 and 36, marked with 5 notches on the N. and 1 notch on the S. edges; whence A cedar, 24 ins., in diam. brs. N. 85° E., 185 lks. dist. mkd. T. 31 N R 9 E., S 30 B.T. No other trees within limits, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impract. Land mountainous. Soil gravelly and stony; 3rd and 4th rate. Mountainous land 80.00 chs.

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(14)

The 2nd. Guide Mer. E. Through Tp. 31 N.
Bet. Rs. 8 and 9 E.

Chs.	North bet. secs. 25 and 30. Over mountainous land. Ascending.
4.30	Top of ridge bears easterly and westerly and descend.
9.60	Foot and ascend.
12.30	Top and descend.
13.00	Foot and ascend S. slope of ridge.
24.00	Top of ridge bears easterly and westerly. Descend. Difference between measurements of 40. chs., by two sets of chainmen is 8 lks., position of middle point By 1st set, 39.96 chs., By 2nd set, 40.04 chs., the mean of which is
40.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
42.00	Descend.
50.00	Foot, gulch, 1 chain wide, course easterly and ascend.
54.00	Top of rocky ridge bears easterly and westerly.
55.00	Descend.
58.00	Foot, bears north-easterly and south westerly and ascend.
59.00	Top and descend.
60.80	Foot.
62.00	Dry wash, 2 chs., wide, course southeasterly; thence over broken ground and large boulders.
70.00	Begin steep ascent of large sand-stone bluff.
71.50	Top, bears N. E. and S. W. Difference between measurements of 80. chs., by two sets of chainmen is 12 lks., position of middle point By 1st, set 80.06 chs., By 2nd set, 79.94 chs., the mean of which is
80.00	Set a limestone, 18 1/2 x 7 x 5 ins., 12 1/4 ins., in the ground for the corner to secs. 19, 24, 25 and 30, marked with 2 notches on the S., and 4 notches on the N. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Land mountainous. Soil, rocky and solid sandstone, 4 th rate. Timber scattering cedar and scrub oak. Mountainous land 80.00 chs. ----- o -----
	North bet. secs. 19 and 24. Over gently rolling land.
10.00	Dry wash, 1 chain wide, course easterly.
25.50	Dry wash, 60 lks. wide, course easterly. Difference between measurements of 40.00 chs., by two sets of chainmen is 10 lks., position of middle point, By 1st set, 39.95 chs., By 2nd set, 40.05 chs., the mean of which is
40.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor., marked 1/4 on the W. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.
56.00	Top of gradual ascent bears easterly and westerly and begin gradual descent. Difference between measurements of 80.00 chs., by two sets of chainmen is 4 lks., position of middle point By 1st set, 80.02 chs., By 2nd set, 79.98 chs., the mean of which is
80.00	Set a limestone, 20 x 8 x 5 ins., 15 ins., in the ground for the corner to sections 13, 18, 19 and 24, marked with 3 notches on the N. and S. edges, dig pits, 18 x 18 x 12 ins., in each section, 3/4 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of the corner. Land gently rolling. Soil sandy, rocky; 4th rate. No timber.

	Chs.	North bet. secs. 13 and 18. Over rolling land. Descending through dense canotillo brush. Difference between measurements of 40.00 chs., by two sets of chainmen is 8 lks., position of middle point, By 1st set 39.96' chs., By 2nd set, 40.04' chs., the mean of which is
	40.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.
	45.00	Begin steep descent.
	47.40	Foot, dry wash, 1 chain wide, course north-easterly; a trail in wash, bears N. E. and S. W.; thence over gently rolling land.
	62.70	Dry wash, 35 lks. wide, course north-easterly.
	65.90	Trail bears north-easterly and south-westerly.
	70.55	Difference between measurements of 80. chs., by two sets of chainmen is 6 lks., position of middle point, By 1st set, 79.97' chs., By 2nd set, 80.03' chs., the mean of which is
	80.00	Set a limestone, 18 x 8 x 7 ins., 12 ins., in the ground for the corner to sections 7, 12, 13 and 18, marked with 2 notches on the N. and 4 notches on the S. edges; dig pits, 18 x 18 x 12 ins., in each section 1/2 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of the cor. Land rolling. Soil, sandy, gravelly and stony; 3rd and 4th rate. No timber, undergrowth canotillo brush. Dense undergrowth 80. chs. April 3rd. 1905.
		----- 0 ----- April 4th, 1905. At the cor. of secs. 7, 12, 13 and 18, just above described, at 7.30 a. m., 1. m. t., I set off 5° 37' N., on the decl. arc 36° 05' N., on the Lat. arc and determine a meridian with the Solar. Thence I run, North bet. secs. 7 and 12. Over rolling land. Through dense canotillo brush.
	25.70	Trail bears easterly and westerly. Difference between measurements of 40. chs., by two sets of chainmen is 6 lks., position of middle point By 1st set, 39.97' chs., By 2nd set, 40.03' chs., the mean of which is
	40.00	Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for 1/4 section corner, marked 1/4 on the W. face; dig pits, 18 x 18 x 12 ins., N. and S. of cor. 3 ft. dist. and raise a mound of earth 2 ft. base, 2 ft. high, W. of the cor. Ascend Gradually.
	63.00	Top of ridge bears easterly and westerly and descend.
	70.00	Foot. Difference between measurements of 80. chs., by two sets of chainmen is 8 lks., position of middle point By 1st set, 79.96' chs., By 2nd set, 80.04' chs., the mean of which is
	80.00	Set a limestone, 20 x 8 x 5 ins., 15 ins., in the ground for the corner to sections 6, 1, 7 and 12, marked with 5 notches on the S. and 1 notch on the N. edges; dig pits, 18 x 18 x 12 ins., in each section, 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of the cor. Land gently rolling. Soil, sandy and gravelly; 3rd & 4th rate. No timber. Undergrowth canotillo brush. Dense undergrowth 80. chs. At the above described corner, at 12 O'clock noon

The 2nd. Guide Mer. E. Through Tp. 31 N.
Bet. Rs. 8 and 9 E.

Chs.

I set off $5^{\circ} 40' N.$, and observe the Sun on the Meridian; the resulting latitude I found to be $36^{\circ} 06' N.$

----- 0 -----

North bet. secs. 1 and 6.

Over gently rolling land.

Through dense canotillo brush.

Difference between measurements of 40 chs., by two sets of chainmen is 10 lks., position of middle point

By 1st set, 39.95 chs.,

By 2nd set, 40.05 chs., the mean of which is

40.00

Set a limestone, 18 x 9 x 5 ins., 12 ins., in the ground for $1/4$ sec. cor. marked $1/4$ on the W. face; dig pits, 18 x 18 x 12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth $3 \frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of the corner.

61.87

Mound of stones, 6 ft. high, bears 5 chs. W.

Difference between measurements of 80. chs., by two sets of chainmen is 6 lks., position of middle point

By 1st set 80.03 chs.,

By 2nd set, 79.97 chs., the mean of which is

80.00

Set a limestone, 20 x 8 x 5 ins., 15 ins., in the ground for the corner to Tps. 31 and 32 N., Rs. 8 and 9 E., marked

T 32 N on N E

R 9 E on S E

T 31 N on S. W. and R 8 E on N W faces; with 6 notches on each edge; dig pits, 24 x 24 x 12 ins., on each line, N. E. and W. 4 ft; and S. of stone 8 ft. dist., and raise a mound of earth 5 ft. base, $2 \frac{1}{2}$ ft. high, S. of the Cor.

Land gently rolling.

Soil sandy and gravelly; 3rd rate.

No timber.

Dense undergrowth, 80 chs.

April 4th, 1905.

----- 0 -----

The 2nd. Guide Mer. E. Through Tp. 32 N.
Bet. Rs. 8 and 9 E.

At the township corner just previously described, on April 5th, at 7.30 a. m., l. m. t., I set off $6^{\circ} 00' N.$, on the Decl. arc and $36^{\circ} 7' N.$, on the Lat. Arc and determine a meridian with the Solar.

Thence, I run

North bet. secs. 31 and 36.

Over gently rolling land.

Through dense canotillo brush.

Difference between measurements of 40. chs., by two sets of chainmen is 10 lks., position of middle point

By 1st set, 39.95 chs.,

By 2nd. set 40.05 chs., the mean of which is

40.00

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for $1/4$ sec. cor. marked $1/4$ S., on the W. face; and raised a mound of stone 2 ft. base, $1 \frac{1}{2}$ ft. high, W. of the corner.

Pits impracticable.

Difference between measurements of 80, chs., by two sets of chainmen is 8 lks., position of middle point

By 1st set, 80.04 chs.,

By 2nd set 79.96 chs., the mean of which is

80.00

Set a limestone 19 x 5 x 4 inches, 14 ins., in the ground for the corner to secs. 25, 30, 31 and 36, marked with 1 notch on the S. and 4 notches on the N. edges;

chs.

and raised a mound of stones, 2 ft. base, 1 1/2 ft. high, W., of corner Pits impracticable.
Land gently rolling. Soil sandy and gravelly; 2nd & 3rd rate.
No timber.
Undergrowth Canotillo.
Dense undergrowth 80.00 chs.

North bet. secs. 25 and 30.
Over gently rolling land through dense canotillo underbrush.

Difference between measurements of 40. chs., by two sets of chainmen is 8 lks., position of middle point

By 1st set, 39.96 chs.,

By 2nd set, 40.04 chs., the mean of which is

40.00

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W., of corner; dig pits, 18 x 18 x 12 ins., N. and S. of stone 3 ft. dist.

Difference between measurements of 80. chs., by two sets of chainmen is 10 lks., position of middle point

By 1st set, 79.95 chs.,

By 2nd set, 80.05 chs., the mean of which is

80.00

Set a limestone 20 x 7 x 5 ins., 15 ins., in the ground for the corner to sections 19, 24, 25 and 30., marked with 2 notches on the S. and 4 notches in the N. edges; dig pits, 18 x 18 x 12 ins., in each section, 5/8 ft. dist., and raise a mound of stone, 4 ft. base, 2 ft. high, W. of the corner.

Land gently rolling.

Soil sandy and gravelly; 3rd and 4th rate.

No timber. Undergrowth canotillo brush.

Dense undergrowth 80.00 chains.

----- 0 -----
North bet. secs. 19 and 24.

Over gently rolling land.

Through dense canotillo brush.

Difference between measurements of 40. chs., by two sets of chainmen is 8 lks., position of middle point,

By 1st set, 40.04 chs.,

By 2nd set, 39.96 chs., the mean of which is

40.00

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the 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 the corner.

54.50

Dry wash, 10 lks. wide, course S. W.

Difference between measurements of 80. cha., by two sets of chainmen is 12 lks., position of middle point

By 1st set 79.94 chs.,

By 2nd set, 80.06 chs., the mean of which is

80.00

Set a limestone 18 x 9 x 5 ins., 12 ins., in the ground for the corner to sections 13, 18, 19 and 24, marked with 3 notches on the N. and S. edges; dig pits, 18 x 18 x 12 ins., in each section, 5/8 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of the cor.

Land gently rolling.

Soil, sandy and gravelly; 3rd and 4th rate.

No timber.

Undergrowth canotillo brush.

Dense undergrowth 80.00 chains.

----- 0 -----
North bet. secs. 13 and 18.

Over gently rolling land.

Through dense canotillo brush.

Difference between measurements of 40. chs., by two

The 2nd. Guide Mer. E. Through Tp. 32 N.
Bet. Rs. 8 and 9 E.

Chs.	sets of chainmen is 8 lks., position of middle point By 1st set, 39.96 chs., By 2nd set, 40.04 chs., the mean of which is
40.00	Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the 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 the corner. Difference between measurements of 80.00 chs., by two sets of chainmen is 6 lks., position of middle point By 1st set, 80.03 chsins., By 2nd set, 79.97 chs., the mean of which is
80.00	Set a limestone, 18 x 8 x 4 1/2 ins., 12 ins., in the ground for the corner to sections 7, 12, 13 and 18, marked with 4 notches on the S. and 2 notches on the N. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable. Land gently rolling. Soil, sandy and gravelly; 3rd and 4th rate. No timber. Undergrowth canotillo brush. Dense undergrowth 80.00 chains.
	April 5th, 1905.
	----- o -----
	April 5th, 1905, at the corner just previously described at 8 a. m., 1. m. t., I set off 8° 58' N., on the decl. arc 36° 12' N., on the lat. arc and determine a meridian with the Solar. Thence I run, North on a true line bet. secs. 7 and 12. Over gently rolling land. Through dense canotillo brush.
3.00	Dry wash, 15 lks., wide, course Northwesterly.
13.00	Leave dense undergrowth bears easterly and westerly.
24.90	Trail bears north-westerly and south-easterly. Difference between measurements of 40. chs., by two sets of chainmen is 10 lks., position of middle point By 1st set, 40.05 chs., By 2nd set, 39.95 chs., the mean of which is
40.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the 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 the corner.
42.00	Large sandstone rock, bears 20 lks. E.
73.40	Dry wash, 10 lks. wide, course southwesterly. Difference between measurements of 80. chs., by two sets of chainmen is 8 lks., position of middle point By 1st set, 79.96 chs., By 2nd set, 80.04 chs., the mean of which is
80.00	Set a limestone, 20 x 9 x 4 ins., 15 ins., in the ground for the corner to sections 1, 6, 7 and 12, marked with 5 notches on the S. and 1 notch on the N. edges; dig pits, 18 x 18 x 12 ins., in each section 3/4 ft. dist., and raised a mound of earth 4 ft. base, 2 ft. high, W. of the corner. Land gently rolling. Soils sandy and gravelly; 3rd and 4th rate. No timber. Undergrowth canotillo brush. Dense undergrowth 13.00 chs.
	----- o -----
30.00	North bet. secs. 1 and 6. Over gently rolling land. Enter dense canotillo brush bears E. and W. Difference between measurements of 40.00 chs., by two sets of chainmen is 8 lks., position of middle point By 1st set, 40.04 chs.,

The 2nd. Guide Mer. E. Through Tp. 32 N.
Bet. Rs. 8 and 9 E.

Chs.
40.00

By 2nd set, 39.96 chs., the mean of which is
Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
for 1/4 sec. cor. marked 1/4 on the 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 the corner.

53.75

Trail to Willow Springs bears N. E. and S. W.
Difference between measurements of 80. chs., by two
sets of chaimen is 10 lks., position of middle point
By 1st set, 80.05 chs.,

80.00

By 2nd set, 79.95 chs., the mean of which is
Set a limestone, 20 x 8 x 5 ins., 15 ins., in the
ground for closing corner to Tp. 32 N., Rs. 8 and 9
E., marked

C C T 32 on S
R 9 E on E

R 8 E on W faces; with 6 grooves on S. E. and W.
faces; and raise a mound of stones, 2 ft. base, 1 1/2
ft. high, S. of the corner. Pits impracticable.
Whence,

San Francisco Peak bears S. 10° 50' W.; Zich-
dichkichly Peak bears S. 3 1/2° E.,

Land rolling.

Soil, sandy and gravelly; 3rd and 4th rate.

No timber.

Undergrowth canotillo brush.

Dense undergrowth 50. chs.

GENERAL DESCRIPTION.

This line runs over rolling mountains, and broken
land. The soil is mostly sandy and rocky.

There is a fair growth of grass in Tps. 26 and 27.
Cedar timber abounds in Tp. 25 N. There is no water on
the line except in the Little Colorado River.

Through Tp. 29 the line crosses the box canon of
the Little Colorado river and other canons leading
thereto. There are large bodies of red sandstone, in
Tps. 27 and 28.

Philip Couzley
U. S. Deputy Surveyor

April 13th. 1905.

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The 3rd. Guide Mer. E., Through Tps. 32 N.
Bet. Rs. 12 and 13 E.

From the Standard Cor. to Tps. 32 N., Rs. 12 and 13 E., established by me on April 19th, 1905., I set off $36^{\circ} 13' N.$, on the lat. arc $11^{\circ} 06' N.$, on the decl. arc and at 7 hours, 32 mins. a. m., l. m. t., I determine a meridian with the solar. Thence I run, WEST, on a true line on the Eighth Standard Parallel N., and at 25.30 chs., I establish the closing corner to Tps. 32 N., Rs. 12 and 13 E., as follows-

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for closing corner of Tps. 32 N., Rs. 12 and 13 E., marked

C C T 32 N on the S,

R 13 E on the E,

R. 12 E on W faces; with 6 grooves on the S., E. and W. faces; dig pits, 30 x 24 x 12 ins., crosswise, on each line, E. and W. 4 ft., and S. of stone, 8 ft. dist., and raise a mound of earth, 5 ft. base, 2 1/2 ft. high, S. of the cor.

Thence I run,

South on a true line bet. secs. 1 and 6.

Over rolling land.

Difference between measurements of 40. chs., by two sets of chainmen is 10 1/2 lks., position of middle point

By 1st set, 40.05 chs.,

By 2nd set, 39.95 chs., the mean of which is

40.00 Set a limestone, 18 x 6 x 5 1/2 ins., 12 ins., in the ground for 1/4 sec. cor., marked 1/4 on the 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 the corner.

Difference between measurements of 80. chs., by two sets of chainmen is 8 lks., position of middle point

By 1st set, 80.04 chs.,

By 2nd set, 79.96 chs., the mean of which is

80.00 Set a limestone, 20 x 10 x 7 ins., 15 ins., in the ground for the corner of sections, 1, 6, 7 and 12, marked with 1 notch on the N. and 5 notches on the 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 the corner.

Land rolling.

Soil sandy; 4th rate.

No timber.

----- 0 -----
SOUTH, bet. secs. 7 and 12.

Over rolling land.

Difference between measurements of 40. chs., by two sets of chainmen is 12 1/2 lks., position of middle point

By 1st set, 39.94 chs.,

By 2nd set, 40.06 chs., the mean of which is

40.00 Set a limestone, 24 x 12 x 4 ins., 18 ins., in the ground for 1/4 sec. cor. marked 1/4 on the 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 the cor.

Difference between measurements of 80. chs., by two sets of chainmen is 10 1/2 lks., position of middle point

By 1st set, 79.95 chs.,

By 2nd set, 80.05 chs., the mean of which is

80.00 Set a limestone, 20 x 8 x 5 ins., 15 ins., in the ground for the corner to sections 7, 12, 13 and 18, marked with 2 notches on the N. and 4 notches on the S. edges; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the cor.

Pits impracticable.

Land rolling.

Soil, sandy; 4 th rate.

No timber.

Chs.

Within less than a mile from this point the line crosses the box canon of the Moencopie, and over high bluffs and canons. Therefore, I discontunue my line at this point.

April 19th, 1905.

----- o -----
General Description.

Tps. 32 N., Rs. 12 and 13 E., are sandy and rocky deserts; traversed by deep box canons, rolling sand banks and sand-stone ledges together with deep precipitous canons and high bluffs.

There is no agricultural land or settlers with these townships.

Philip Conzler
U. S. Deputy Surveyor.

LIST OF NAMES.

BOOK 1859

A list of the names of the individuals employed by Philip Contzen

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 2nd Guide Meridian E. through Tps 26-27-28-29-30-31-32 N. Rs 8 and 9 E and 3rd Guide Meridian E. through Tps 32 N. Rs 12 & 13 E showing the respective capacities in which they acted:

William S. Reugla, Chainman.
Fred Taylor, Chainman.
George A. Hawley, Chainman.
J. J. Herrick, Moundman.

Arthur Pogue, Moundman.

Mmanuel Salazar, Axman.

James B. Boley, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philip Contzen

United States Deputy Surveyor, in surveying all

those parts or portions of the 2nd Guide Meridian E. through Tps 26-27-28-29-30-31-32 N. Rs 8 and 9 E and 3rd Guide Meridian E. through Tps 32 N. Rs 12 and 13 E of the Gila

and Salt River meridian, 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 Arizona

W. S. Reugla, Chainman.
Fred Taylor, Chainman.
George A. Hawley, Chainman.
J. J. Herrick, Moundman.

Arthur Pogue, Moundman.

Mmanuel Salazar, Axman.

James B. Boley, Flagman.

Subscribed and sworn to before me this 10th day of June, 1895

H. G. Power



I, Philip Contzen, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 12th day of December, 1894, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the 2nd Guide Meridian E through Tps 26-27-28-29-30-31 and 32 N. R's 8 and 9 E and 3rd Guide Meridian E, through Tps 32 N. R's 12 and 13 E of the Gila and Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Philip Contzen
United States Deputy Surveyor.

Subscribed by said Philip Contzen, and sworn to before me }
this 16th day of June, 1895

Frank S. Ingalls
U. S. Surveyor General
for Arizona.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A.T. July 26th 1905

The foregoing field notes of the survey of the second guide meridian east. thru Tps 26 27, 28, 29, 30, 31 and 32 N. bet Rgs 8 and 9 E, and the Third Guide Meridian East thru Tps 32 N. bet Rgs 12 and 13 East of the Gila and Salt River Base and Meridian in the territory of Arizona.

executed by Philip Contzen, U. S. deputy surveyor under his contract No. 124, dated December 12th 1904, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General.

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

United States Surveyor General.

Supplemental FIELD NOTES

BOOK 1859

~~OF THE SURVEY OF THE~~

Corrections
Cont # 124

Of the *G & S R. Base* and *Meridian,*

AS SURVEYED BY

Philip Gantzen, *United States Deputy Surveyor,*

Under his Contract No. *124*, dated *Dec. 12, 1904*, *189*

Survey commenced *October 9, 1905.*, *189*

Survey completed *October 25, 1905*, *189*

Chains

In compliance with instructions from the Surveyor General to return to the field for the purpose of replacing sandstone corners with limestone, and the correction of certain errors in Contract No. 124, discovered by Sidney E. Blout, U. S. Examiner of Surveys; I proceed, on October 9, 1905, to the corner of Tps. 26 and 27 N. Rgs. 8 and 9 E., which is a limestone, marked and witnessed as described in my field notes.

Thence I make the following changes in corners on the 2nd Guide Meridian E., through Tps. 27, 28, 29, 30, 31 and 32 N., bet. Rgs. 8 and 9 E.

Set a limestone for 1/4 Cor. bet. Secs. 1 and 6, Tp. 26 N.

Through T. 27 N.

- Set a limestone for 1/4 Cor. Secs. 31 and 36.
- Set a limestone for Cor. of Secs. 25, 30, 31 and 36.
- Set a limestone for 1/4 Cor. Secs. 25 and 30.
- Set a limestone for Cor. of Secs. 19, 24, 25 and 30.
- Set a limestone for 1/4 Cor. Secs. 19 and 24.
- Set a limestone for Cor. of Secs. 13, 18, 19 and 24.
- Set a limestone for 1/4 Cor. Secs. 13 and 18.
- Set a limestone for Cor. of Secs. 7, 12, 13 and 18.
- Set a limestone for 1/4 Cor. Secs. 7 and 12.
- Set a limestone for Cor. of Secs. 1, 6, 7 and 12.
- Set a limestone for 1/4 Cor. Secs. 1 and 6.
- Set a limestone for Cor. of Tps. 27 and 28 N. Rgs. 8 and 9 E.

Through T. 28 N.

- Set a limestone for 1/4 Sec. Cor. Secs. 31 and 36.
- Set a limestone for Cor. of Secs. 19, 24, 25 and 30.
- Set a limestone for 1/4 Cor. Secs. 19 and 24.
- Set a limestone for Cor. to Secs. 13, 18, 19 and 24.
- Set a limestone for 1/4 Cor. Secs. 13 and 18.
- Set a limestone for Cor. of Secs. 7, 12, 13 and 18.
- Set a limestone for 1/4 Cor. Secs. 7 and 12.
- Set a limestone for Cor. to Secs. 1 and 6.
- Set a limestone for Cor. of Secs. 1, 6, 7 and 12.
- Set a limestone for closing Cor. of Tps. 28 N. Rgs. 8 and 9 E.
- Set a limestone for standard corner of Tps. 29 N. Rgs. 8 and 9 E.

Through T. 29 N.

- Set a limestone for 1/4 Cor. Secs. 31 and 36.
- Set a limestone for corner of Secs. 25, 30, 31 and 36.
- Set a limestone for 1/4 Cor. of Secs. 25 and 30.
- Set a limestone for corner of Secs. 19, 24, 25 and 30.
- Set a limestone for corner of Secs. 13, 18, 19 and 24.
- Set a limestone on S. edge of Little Colorado canon for witness point.
- Set a limestone for Cor. of Tps. 29 and 30 N. Rgs. 8 and 9 E.

Through T. 30 N.

- Set a limestone for 1/4 Cor. Secs. 25 and 30.
- Set a limestone for Cor. of Secs. 19, 24, 25 and 30.
- Set a limestone for 1/4 Cor. Secs. 19 and 24.
- Set a limestone for Cor. of Secs. 7, 12, 13 and 18.
- Set a limestone for Cor. of Secs. 1, 6, 7 and 12.
- Set a limestone for 1/4 Cor. Secs. 1 and 6.
- Set a limestone for Cor. of Tps. 30 and 31 N. Rgs. 8 and 9 E.

Through T. 31 N.

- Set a limestone for 1/4 Cor. Secs. 31 and 36.
- Set a limestone for Cor. of Secs. 25, 30, 31 and 36.
- Set a limestone for 1/4 Cor. Secs. 25 and 30.
- Set a limestone for Cor. of Secs. 19, 24, 25 and 30.
- Set a limestone for 1/4 Sec. Cor. 19 and 24.
- Set a limestone for Cor. of Secs. 13, 18, 19 and 24.
- Set a limestone for 1/4 Sec. Cor. of 13 and 18.
- Set a limestone for Cor. of Secs. 7, 12, 13 and 18.
- Set a limestone for 1/4 Cor. Secs. 7 and 12.
- Set a limestone for Cor. of Secs. 1, 6, 7 and 12.

Chains

Set a limestone for 1/4 Cor. Secs. 1 and 6.
 Set a limestone for Cor. of Tps. 31 and 32 N. Rs. 8
 and 9 E.
 Through T. 32 N.
 Set a limestone for 1/4 Cor. Secs. 31 and 36.
 Set a limestone for Cor. of Secs. 25, 30, 31 and 36.
 Set a limestone for 1/4 Cor. Secs. 25 and 30.
 Set a limestone for Cor. of Secs. 19, 24, 25 and 30.
 Set a limestone for 1/4 Cor. Secs. 19 and 24.
 Set a limestone for Cor. of Secs. 13, 18, 19 and 24.
 Set a limestone for 1/4 Cor. Secs. 13 and 18.
 Set a limestone for Cor. of Secs. 7, 12, 13 and 18.
 Set a limestone for 1/4 Cor. Secs. 7 and 12.
 Set a limestone for Cor. of Secs. 1, 6, 7 and 12.
 Set a limestone for 1/4 Cor. Secs. 1 and 6.
 Set a limestone for closing Cor. of Tps. 32 N. Rs. 8
 and 9 E.
 October 16, 1905.

NOTE:- All corners set on this line are of limestone,
 of same dimensions as original stones, and marked and
 witnessed as described in my field notes. Corners
 are set in original positions.

Corrections and changes on the 18th Standard Parallel N.,
 through Rs. 9, 10, 11 and 12 E., bet. Tps. 32 and 33 N.

October 17, 1905:-

Through R. 9 E.
 Set a limestone for standard Cor. of Tps. 33 N. Rs.
 8 and 9 E.
 Set a limestone for standard 1/4 Cor. Sec. 31.
 Set a limestone for standard Cor. of Secs. 31 and 32.
 Set a limestone for standard 1/4 Cor. Sec. 32.
 Set a limestone for standard Cor. of Secs. 32 and 33.
 Set a limestone for standard 1/4 Cor. Sec. 33.
 Set a limestone for standard Cor. of Secs. 33 and 34.
 Set a limestone for standard 1/4 Cor. Sec. 34.
 Set a limestone for standard Cor. of Secs. 34 and 35.
 Set a limestone for standard 1/4 Cor. Sec. 35.
 Set a limestone for standard Cor. of Secs. 35 and 36.
 Set a limestone for standard 1/4 Cor. Sec. 36.
 Set a limestone for standard Cor. of Tps. 33 N. Rs. 9
 and 10 E.

Through R. 10 E.

Set a limestone for standard 1/4 Cor. Sec. 31.
 Set a limestone for standard Cor. of Secs. 31 and 32.
 Set a limestone for standard 1/4 Cor. Sec. 32.
 Set a limestone for standard 1/4 Cor. Sec. 34.
 Set a limestone for standard Cor. of Secs. 34 and 35.
 Set a limestone for standard 1/4 Cor. Sec. 35, this Cor.
 set equidistant on line.
 Set a limestone for standard Cor. of Secs. 35 and 36.
 Set a limestone for standard 1/4 Cor. Sec. 36.

Through R. 11 E.

Set a limestone for standard 1/4 Cor. Sec. 34.

Through R. 12 E.

Set a limestone for standard Cor. of Secs. 33 and 34,
 and 32 and 33.

Moved 1/4 Cor. of Secs. 35, 17 lks. W.

October 20, 1905.

NOTE:-

All corners set on this line are of limestone, and
 are identically the same size as the original stones,
 as these new limestones re-set under this contract were
 selected to conform exactly in dimensions with the
 old stones, in order to avoid changes in description
 in notes of survey, and are marked and witnessed as
 described in my field notes.

Correction on 3rd Guide Meridian E. through Tps. 32 N.
bet. Rs. 12 and 13 E.

October 21, 1905.

Found Cor. of Secs. 7, 12, 13 and 18 about 40 lks. S.E.
from Cor. point. Re-set stone at Cor. point.

Set a limestone of same dimensions as original stone
for Cor. to Secs. 32 and 33, T. 32 N. R. 12 E.

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Changes of Cors. in T. 32 N. R. 11 E.

Moved 1/4 Cor. of Secs. 4 and 33 on S. Bdy. 21 lks.
E.

Set a limestone for 1/4 Cor. of Secs. 14 and 23, T. 32
N. R. 11 E.

Re-set 1/4 Cor. of Secs. 15 and 22.

The duplicate corner to Secs. 29, 30, 31 and 32, which
was stated by Examiner Blout to be about 5 chs. out
of its proper position, has been destroyed.

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Changes of Cors. in T. 31 N. R. 10 E.

Cor. of Secs. 1, 2, 11 and 12, moved 112 lks. N.

1/4 Cor. of Secs. 1 and 12 moved 10 lks. N.

October 21, 1905.

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Corrections and changes in Cors. in T. 32 N. R. 10 E.

October 22, 1905.

1/4 Cor. Secs. 19 and 20, moved 35 lks. N.

Cor. of Secs. 17, 18, 19 and 20, moved 35 lks. N.

1/4 Cor. of Secs. 18 and 19, moved 17 chs. N.

1/4 Cor. Secs. 19 and 24, W. Bdy., moved 7 lks. E.

Cor. of Secs. 19, 24, 25 and 30, W. Bdy., moved 15 lks.
E.

1/4 Secs. 25 and 30 W. Bdy. moved 70 lks. E.

Cor. of Secs. 25, 30, 31 and 36, W. Bdy., moved 70 lks.
E.

Set a limestone for C.C. of Secs. 2 and 3, and moved
22 lks. W.

Set a limestone for closing Cor. of Secs. 1 and 2.

Set a limestone for closing Cor. of Secs. 5 and 6.

Set a limestone for Cor. of Secs. 29, 30, 31 and 32.

Set a limestone for closing Cor. of Tps. 32 N. Rs. 9 and
10 E.

October 23, 1905.

NOTE:-

New stone Cors. set in this Tp. are limestone, of
same dimensions as original stones, marked and wit-
nessed as described in my field notes.

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Corrections and changes in Cors. in T. 32 N. R. 10 E.

October 24, 1905.

1/4 Cor. of Secs. 31 and 36, W. Bdy., moved 35 lks. E.

1/4 Cor. Secs. 30 and 31, moved 25 lks. S.

T. 33 N. R. 10 E.

Cor. of Secs. 28, 29, 32 and 33, moved 38 lks. W.

1/4 Cor. of Secs. 27 and 28 moved 25 lks. W.

Set a limestone for Cor. of Secs. 26, 27, 34 and 35.

Set a limestone for 1/4 Cor. Secs. 26 and 35.

Set a limestone for 1/4 Cor. of Secs. 26 and 27.

Set a limestone for Cor. of Secs. 25, 26, 35 and 36.

Set a limestone for 1/4 Cor. bet. Secs. 35 and 36.

Set a limestone for 1/4 Cor. Secs. 27 and 34.

Set a limestone for Cor. of Secs. 22, 23, 26 and 27.

BOOK 1889

Set a limestone for 1/4 Cor. Secs. 28 and 27.
This Cor. moved 70 lks. N.
Set a limestone for 1/4 Cor. of Secs. 28 and 33.
October 25, 1906.

NOTE:-
New stone corners set in this township are limestone, of same dimensions as original corners, and marked and witnessed as described in my field notes. The difference in bearings to witness trees to Cor. of Secs. 28, 29, 32 and 33, T. 33 N. R. 10 E. were due to original corner being out of its position. I re-set corner in original position.
Philip Contzen,
U. S. Deputy Surveyor.

Witnessed at Phoenix, Arizona, Feb. 11, 1906.
I, Philip Contzen, United States Deputy Surveyor, do solemnly swear that in preparation to the trial of the case of the above named land I have made all the foregoing declaration in survey conducted under contract No. 124.

(Witness) Philip Contzen,
U. S. Deputy Surveyor.

Subscribed by said Philip Contzen,
and sworn to before me this 11th
day of February, 1906.

(Witness) George W. Taylor.

(Witness) W. C. Richardson.

Witnessed at Phoenix,

County of Maricopa.

George W. Taylor, being duly sworn, deposes and says: That he assisted Philip Contzen, United States Deputy Surveyor, in making all the foregoing declarations, as authorized by Executive Order of E. Hunt, in Contract No. 124, Arizona; and that further, all the stone corners, which were found by said Contzen to be satisfactory corners, have been properly marked by limestone corners, and that all copies of the same have been furnished to the original owners, as returned by said Philip Contzen.

George W. Taylor.

Subscribed and sworn to before me this 11th day of February, A. D., 1906.

G. W. Taylor,
Notary Public, Maricopa County,
Arizona. My commission expires
April 27, 1908.

(Witness)

Mesa, Arizona.

Feb. 12, 1906.

I, Philip Contzen, United States Deputy Surgeon, do solemnly swear, that in pursuance to instructions, received from the surgeon general, I have made all the foregoing corrections in surveys executed under contract 124.

Philip Contzen

U. S. Deputy Surgeon.

Subscribed by said Philip Contzen, and sworn to before me this 12 day of February, 1906.

Rescoe Dale
U. S. Commissioner

1883

BOOK 1883

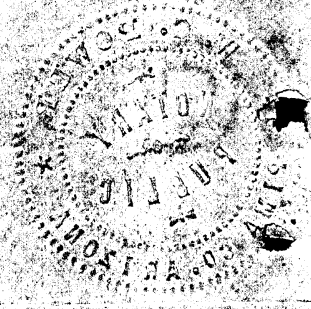
Territory of Arizona,
County of Pima,

George A. Haggerty, being first duly sworn, deposes and says:
 That he assisted Phillip Costen, United Deputy Surveyor, in making all
 the necessary connections, as enumerated by Examiner Sidney Brown
 in Contract No. 124 April 1883; and that further, all the corners
 corners, which were found by said examiner to be sandstone corners,
 have been properly replaced by limestone corners, and that the survey
 and measurements conform strictly to the official field-notes as
 returned by said Phillip Costen.

Affidavit of George A. Haggerty
 in the case of Phillip Costen, No. 124
 Contract No. 124 April 1883

Subscribed and sworn to before me this 28th day of November, A.D. 1883.

Notary Public, Pima County, Arizona.
 My commission expires April 27, 1883.



BOOK 1859

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A.T., May 1st, 1906.

The foregoing supplemental field notes of surveys executed by Philip Contzen, U. S. Deputy Surveyor, under his Contract No. 124, dated Dec. 12th, 1904, 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. Lyall

United States Surveyor General.

Territory of Arizona,)
County of Pima.) ss.

BOOK 1859

George A. Hawley, being first duly sworn, deposes and says:
That he assisted Philip Contzen, United States Deputy Surveyor, in making all the necessary corrections, as enumerated by Examiner Sidney Blout in Contract No. 124 Arizona; and that further, all the ~~sand~~ stone corners, which were found by said examiner to be sandstone corners, have been properly replaced by limestone corners, and that the survey and measurements conform strictly to the official field-notes as returned by said Philip Contzen.

George A. Hawley

Subscribed and sworn to before me this 28th day of November, A.D.1905.

W. G. Power
Notary Public, Pima County, Arizona.
My commission expires April 27, 1908

Affidavit of George A. Hawley,
in re: Corrections in Contract
No. 134.