

3041

Book "A."

4-679

JUL 20 1918

(Standard Lines)

BOOK 3041

FIELD NOTES

OF THE SURVEY OF THE

Gila and Salt River Base Line, thru.

Ranges 11, 12, 13, 14, 15, 16, 17, 18 and 19 West,

and the

First Guide Meridian West, thru. Townships 3 and 4 N.,

and the

RESURVEY of the Gila and Salt River Base Line, thru. R. 5 W.,

The First Standard Parallel North, thru. part of Range 17 W.,

All of Ranges 18 and 19 West,

Part of Range 2 West,

All of Ranges 3, 4, 5 and 6 West, and the

First Guide Meridian West, thru. Ts. 1 and 2 N., bet. Rs. 4 & 5 W.,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Woodbury Abbey, U.S., Surveyor,

and

Roy J. Gill and Hans D. Voigt, U.S. Transitmen,

~~In the capacity of U.S. Surveyor~~, under instructions dated December 4, 1914,

issued by the United States Surveyor General to govern surveys included in

Group No. 39, which were approved by the Commissioner of the General Land

Office, January 7, 1917.

Survey & re-Survey commenced December 12, 1914.

Survey & re-Survey completed July 10, 1916

Executed under Assignment

Instructions dated Dec. 12, 1914 & Nov. 26, 1915

3041

Book "A"
(Standard Lines)

Group 39, Arizona.

See Special Index.

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BOOK 3041

BOOK 3041

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Chains

Survey commenced Dec. 12, 1914, and executed jointly by Woodbury Abbey, U. S. Surveyor, using a Young and Sons' light mountain transit No. 8588, and Roy J. Gill, U. S. Transitman, using a Young and Sons' light mountain transit No. 8583. Both instruments have Smith solar attachments, and full vertical circles. The horizontal limbs are provided with two double verniers, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs, and vertical circles.

All measurements made with steel tapes and clinometers.

The instruments were approved, subject to satisfactory field tests, by the assistant supervisor of surveys, on Dec. 2, 1914. Record of field tests appears in Book "B."

All lines were deflected from the true meridian as determined by observations on Polaris at elongation, and by direct solar observations, a record of which appears in this book, appears at the end of this book.

The magnetic bearing of the true meridian, at 8h 00m a.m., l.m.t., is N.14°30' W. The angle thus determined gives the magnetic declination 14°30' E.

The initials "W A" and "R. J. G." are inserted in the following notes at the beginning and ending of those portions of the notes describing the surveys executed by Woodbury Abbey and Roy J. Gill respectively.

W. A.

R. J. G.

W. A.

Dec. 14, 1916.

I begin at the standard cor. of Tps. 1 N., Rs. 10 and 11 W., which is an iron post, 3 ins. diam., with brass cap, marked, set and witnessed as described by the surveyor general.

At a point 3 lks. S. of this cor., I turn off from the meridian an angle of 89°58.3' to the W., thence,

N.89°58'W. on the secant, S. of sec. 36,

over mountainous land, through dense undergrowth and scattering timber, along broken and rocky N. slope of spur.

Measurement of 40.00 chs. by two sets of chainmen being identical, at N. 1 lk. from the secant

40.00

Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 36 in N. half, and 1914 in S. rim;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

68.40

Dry stream bed, 100 lks. wide, course SW.

Measurement of 80.00 chs. by two sets of chainmen being identical, at

80.00

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 35 and 36, with brass cap, marked

SC in N. half,

T 1 N S 35 in NW., and

R 11 W S 36 in NE. quadrant; and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Land, mountainous.

Soil, rocky; 3rd and 4th rate.

Timber, scattering palo verde, mesquite and catclaw.

Undergrowth, cactus and sage.

Dec. 14, 1914. W. A.

Gila and Salt River Base Line, through Range 11 West.

Chains

R. J. G. Dec. 15, 1916.
N. 89° 59' W., on the secant, through sec. 35,
over rolling desert land, through scattering timber and
undergrowth.

34.00 Wash, 100 lks. wide, course W.

The measurement of 40.00 chs. by two sets of
chainmen being identical,

40.00 S. 1 lk. from the secant, at
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 35 in N. half, and
1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor. Impracticable to dig pits or set cor. in the
ground.

Difference between measurement of 80.00 chs. by two sets
of chainmen is 2 lks.; position of middle point

By first set, 79.99 chs.

By second set, 80.01 chs.; the mean of which is

80.00 S. 2 lks. from the secant

Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
stone, for standard cor. of secs. 34 and 35, with brass
cap, marked

SC in N. half,
T 1 N S 34 in NW., and
R 11 W S 35 in NE. quadrant; and
1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor. Impracticable to dig pits or set cor. in the
ground.

Land, rolling desert.

Soil, 2nd and 3rd rate.

Timber, palo verde, mesquite and catclaw.

Undergrowth, cactus and greasewood.

N. 89° 59' W., on the secant, through sec. 34,
over slightly rolling desert land, through scattering
timber and undergrowth.

Measurement of 40.00 chs. by two sets of chainmen being
identical,

40.00 S. 2 lks. from the secant, at
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 34 in N. half, and
1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor. Impracticable to dig pits or set cor. in the
ground.

Measurement of 80.00 chs. by two sets of chainmen being
identical, at

80.00 S. 3 lks. from the secant
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for standard cor. of secs. 33 and 34, with brass
cap, marked

SC in N. half,
T 1 N S 33 in NW., and
R 11 W S 34 in NE. quadrant; and
1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
of cor.

Land, rolling desert.

Soil, 2nd and 3rd rate.

Timber, palo verde and mesquite.

Undergrowth, cactus, greasewood, sage and catclaw.

West, on the secant, through sec. 33,
over gently rolling desert land, through scattering
undergrowth and timber.

Gila and Salt River Base Line, through Range 11 West.

3 5

Chains

40.00 Measurement of 40.00 chs. by two sets of chainmen being identical, at
S. 2 lks. from the secant
Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 33 in N. half, and
1914 in S. rim;
and raise a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

80.00 Measurement of 80.00 chs. by two sets of chainmen being identical, at
S. 2 lks. from the secant
Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 32 and 33, with brass cap, marked
SC in N. half,
T 1 N S 32 in NW., and
R 11 W S 33 in NE. quadrant; and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Land, rolling desert.

Soil, 2nd and 3rd rate.

Timber, palo verde and mesquite.

Undergrowth, cactus, greasewood, white sage and catclaw.

S. $89^{\circ}59'W.$, on the secant, through sec. 32,
over rolling desert land, through scattering timber and dense undergrowth.

40.00 Measurement of 40.00 chs. by two sets of chainmen being identical, at
S. 1 lk. from the secant
Set an iron post, 3 ft. long, 1 in. diam., 26 in s. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 32 in N. half, and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

64.00 Wash, 100 lks. wide, course S.

80.00 Measurement of 80.00 chs. by two sets of chainmen being identical, at

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 31 and 32, with brass cap, marked

SC in N1 half,

T 1 N S 31 in NW., and

R 11 W S 32 in NE. quadrant; and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., from which

John P. Collins' copper claim, "Tramp No. 2", bears S. $42^{\circ}W.$

Silver Peak bears N. $62^{\circ}10'W.$

Palomas Mountain bears S. $4^{\circ}15'E.$

Land, rolling desert.

Soil, 2nd and 3rd rate.

Timber, mesquite, paloverde and catclaw.

Undergrowth, greasewood, cactus, catclaw and white sage.

Dec. 15, 1914.

Dec. 16, 1914.

S. $89^{\circ}59'W.$, on the secant, S. of sec. 31,
over gently rolling desert land, through scattering timber and dense undergrowth.

3.20 Road bears NW. and SE.

18.10 Road bears NE. and SW.

4 6

Gila and Salt River Base Line, through Range 11 West.

Chains

- 25.55 John P. Collins' copper claim, "Tramp No. 2" bears S.35°W.
(bearing to NW. cor. of claim.)
Measurement of 40.00 chs. by two sets of chainmen being
identical, at
- 40.00 N. 1 lk. from the secant.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 31 in N. half, and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor.
- 61.10 Wash, 2 chs. wide, course SE.
- 71.90 Leave flat and cross low range of hills.
Measurement of 80.00 chs. by two sets of chainmen being iden-
tical, at
- 80.00 N. 3 lks. from the secant
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for standard cor. of Tps. 1 N., RS. 11 and 12 W.,
with brass cap, marked
SC T 1 N in N. half,
R 12 W S 36 in NW., and
R 11 W S 31 in NE. quadrant; and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor.
Land, rolling desert.
Soil, 2nd and 3rd rate.
Timber, paloverde and mesquite.
Undergrowth, greasewood, wactlaw, cactus and white sage.
-

Gila and Salt River Base Line, through Range 12 West.

Chains

- At the point last determined on the secant, which is 6 miles from the starting point and 3 lks. S. of the standard cor. of Tps. 1 N., Rs. 11 and 12 W., I deflect an angle of $0^{\circ}03'26''$ to the N., Thence N. $89^{\circ}58'W.$, on the secant, S. of sec. 36, over low rolling hills, through scattering timber and dense undergrowth.
- Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point
By first set, 40.01 chs.
By second set, 39.99 chs.; the mean of which is N. 1 lk. from the secant
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 36 in N. half, and 1914 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Thence over mountainous land.
- Measurement of 80.00 chs. by two sets of chainmen being identical, at
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 35 and 36, with brass cap, marked
SC in N. half,
T 1 N S 35 in NW., and
R 12 W S 36 in NE. quadrant; and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in ground.
Land, rolling in E. half, and mountainous in W.
Soil, 3rd and 4th rate.
Timber, paloverde and mesquite.
Undergrowth, greasewood, catclaw, mesquite, cactus and white sage.
-
- N. $89^{\circ}59'W.$, on the secant, through sec. 35, over mountainous land, through scattering timber and dense undergrowth.
- Measurement of 40.00 chs. by two sets of chainmen being identical, at S. 1 lk. from the secant
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 35 in N. half, and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
- Measurement of 80.00 chs. by two sets of chainmen being identical, at
- 80.00 S. 2 lks. from the secant
Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 34 and 35, with brass cap, marked
SC in N. half,
T 1 N S 34 in NW., and
R 12 W S 35 in NE. quadrant; and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
Land, rough and mountainous.
Soil, 3rd and 4th rate,
Timber, paloverde and mesquite.
Undergrowth, cactus, greasewood, white sage and catclaw.
-
- N. $89^{\circ}59'W.$, on the secant, through sec. 34, over mountainous land, through scattering timber and dense undergrowth.

Gila and Salt River Base Line, through Range 12 West.

Chains

40.00 Measurement of 40.00 chs. by two sets of chainmen being identical, at
 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 34 in N. half, and
 1914 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

80.00 Measurement of 80.00 chs. by two sets of chainmen being identical, at
 S. 3 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 33 and 34, with brass cap, marked
 SC in N. half,
 T 1 N S 33 in NW., and
 R 12 W S 34 in NE. quadrant; and
 1914 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Land, mountainous.
 Soil, 3rd and 4th rate.
 Timber, paloverde and mesquite.
 Undergrowth, mesquite, catclaw, greasewood, cactus and white sage.

34.98 West, on the secant, through sec. 33,
 over mountainous land, through scattering timber and dense undergrowth.

38.90 Road bears NW. and SE.
 Dry stream bed, 100 lks. wide, course SW.

40.00 Measurement of 40.00 chs. by two sets of chainmen being identical, at
 2 lks. S. of the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 33 in N. half, and
 1914 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., from which
 Silver Peak bears N.7°30'W.
 Water hole known as "Dead Man's Tank" bears S.25°W.

Dec. 16, 1914.
 R. J. G.

44.70 Dec. 21, 1916.
 W. A. and R. J. G.

53.23 Road bears NE. and SW.
 Dead Man's Tank bears S.7°30'E.

80.00 Measurement of 80.00 chs. by two sets of chainmen being identical, at
 2 lks. S. of the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 32 and 33, with brass cap, marked
 SC in N. half,
 T 1 N S 32 in NW., and
 R 12 W S 33 in NE. quadrant; and
 1914 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, rough mountainous.
 Soil, 3rd and 4th rate.
 Timber, mesquite, paloverde and catclaw.
 Undergrowth, greasewood, catclaw, cactus and white sage.

Gila and Salt River Base Line, through Range 12 West.

Chains	
	S. $89^{\circ}59'$ W., on the secant, through sec. 32, over gently rolling desert land, through scattering timber and dense undergrowth.
7.50	Road bears NW. and SE.
25.00	Palomas Mountain bears S. 53° E.
38.00	Road bears N. and S.
	Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point
	By first set, 40.01 chs.
	By second set, 39.99 chs.; the mean of which is
40.00	S. 1 lk. from the secant
	Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
	SC $\frac{1}{4}$ S 32 in N. half, and
	1914 in S. rim;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
50.00	Dry stream bed, 70 lks. wide, course SE.
	Measurements of 80.00 chs. by two sets of chainmen being identical, at
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 31 and 32, with brass cap, marked
	SC in N. half,
	T 1 N S 31 in NW., and
	R 12 W S 32 in NE. quadrant; and
	1914 in S. rim;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Land, rolling desert.
	Soil, 2nd and 3rd rate.
	Timber, mesquite, paloverde and catclaw.
	Undergrowth, greasewood, catclaw, white sage and cactus.
	Dec. 21, 1914.
	W. A. and R. J. G.

	R. J. G.
	Dec. 23, 1914.
	S. $89^{\circ}59'$ W., on the secant, S. of sec. 31, over gently rolling desert land, through scattering timber and dense undergrowth.
	Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point
	By first set, 40.01 chs.
	By second set, 39.99 chs.; the mean of which is
40.00	N. 1 lk. from the secant
	Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
	SC $\frac{1}{4}$ S 31 in N. half, and
	1914 in S. rim;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
	Difference between measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point
	By first set, 80.01 chs.
	By 2nd set, 79.99 chs.; the mean of which is
80.00	N. 3 lks. from the secant
	Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of Tps. 1 N., Rs. 12 and 13 W., with brass cap, marked
	SC T 1 N in N. half,
	R 13 W S 36 in NW., and
	R 12 W S 31 in NE. quadrant; and
	1914 in S. rim;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
	Land, rough and mountainous. Soil, 2nd and 3rd rate.
	Timber, paloverde, mesquite and catclaw.
	Undergrowth, greasewood, cactus and white sage.

10

Gila and Salt River Base Line, through Range 13 West.

Chains

- At the point last determined on the secant, which is 12 miles from the starting point and 3 lks. S. of the standard cor. of Tps 1 N., Rs. 12 and 13 W., I deflect an angle of $0^{\circ}03'26''$ to the N. Thence,
 N. $89^{\circ}58'W.$, on the secant, S. of sec. 36,
 over rolling desert land, through scattering timber and dense undergrowth.
- Measurement of 40.00 chs. by two sets of chainmen being identical, at
- 40.00 1 lk. N. of the secant.
 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground and 18 ins. in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 36 in N. half, and
 1914 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. farther in the ground.
- Difference between measurement of 80.00 chs. by two sets of chainmen is 1 link; position of middle point
 By first set, 80.005 chs.
 By second set, 79.995 chs.; the mean of which is
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 35 and 36, with brass cap, marked
 SC in N. half,
 T 1 N S 35 in NW., and
 R 13 W S 36 in NE. quadrant; and
 1914 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
- Land, rolling desert.
 Soil, 2nd and 3rd rate.
 Timber, paloverde, mesquite and catclaw.
 Undergrowth, greasewood, cactus and white sage.
-
- N. $89^{\circ}59'W.$, on the secant, through sec. 35,
 over rolling desert land, through scattering timber and dense undergrowth.
- Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point
 By 1st set, 40.01 chs.
 By 2nd set, 39.99 chs.; the mean of which is
- 40.00 S. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 35 in N. half, and
 1914 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
- 48.00 Leave rolling land, and asc. over mountainous land.
 69.70 Top of steep rocky ridge, 500 ft. high, bears N. and S.
 Desc. 300 ft. to
 78.30 Draw, course SE.
- Difference between measurement of 80.00 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 S. 2 lks. from the secant.
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 34 and 35, with brass cap, marked
 SC in N. half,
 T 1 N S 34 in NW., and
 R 13 W S 35 in NE. quadrant; and
 1914 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Gila and Salt River Base Line, through Range 13 West.

Chains

Land, rolling for 48 chs., and mountainous for 32 chs.
Soil, 2nd and 3rd rate.
Timber, scattering paloverde, mesquite and catclaw.
Undergrowth, greasewood, white sage and cactus.

Dec. 23, 1914.

Dec. 24, 1914.

N. 89° 59' W., on the secant, through sec. 34,
over rugged mountainous land, through scattering timber
and dense undergrowth. Asc.

6.32
11.43
19.15
27.50
33.00

Spur extends SE.
Top of ridge, 375 ft. above sec. cor., bears N. and S.
Desc. 290 ft. to
Draw, course S.; asc. 150 ft. to
Top of ridge bears N. and S.; desc. 150 ft. to
Draw, course SW.; asc.

40.00

Difference between measurement of 40.00 chs. by two sets of
chainmen is 14 lks.; position of middle point
By 1st set, 40.07 chs.
By 2nd set, 39.93 chs.; the mean of which is
On top of spur, 85 ft. above draw, extending S.,
S. 2 lks. from the secant
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 34 in N. half, and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor. Impracticable to dig pits or set cor. in the
ground.
From cor., tanks containing permanent water bear S. 32° E.

56.50
62.00

Desc. steep slope 540 ft. to
Draw, course N.
Thence along broken N. slope.

80.00

Difference between measurement of 80.00 chs. by two sets
of chainmen is 10 lks.; the position of middle point
By 1st set, 80.05 chs.
By 2nd set, 79.95 chs.; the mean of which is
S. 3 lks. from the secant
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for standard cor. of secs. 33 and 34, with brass
cap, marked
SC in N. half,
T 1 N S 33 in NW., and
R 13 W S 34 in NE. quadrant; and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor.

Land, rough and mountainous.
Soil, 3rd and 4th rate.
Timber, paloverde, mesquite and catclaw.
Undergrowth, greasewood, cactus and white sage.

10.00
32.00

West, on the secant, through sec. 33,
over rugged mountainous land, through scattering timber
and dense undergrowth.
Draw, course NE.; asc.
Spur ridge, 300 ft. above draw, bears N.; desc. 260 ft.
to $\frac{1}{4}$ sec. cor.

40.00

Difference between measurement of 40.00 chs. by 2 sets of
chainmen is 6 lks.; position of middle point
By 1st set, 40.03 chs.
By 2nd set, 39.97 chs.; the mean of which is
S. 2 lks. from the secant
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 33 in N. half, and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,

Gila and Salt River Base Line, through Range 13 West.

Chains

N. of cor. Impracticable to dig pits or set cor. in the ground.

40.20 Draw, course NE.; asc. 350 ft. to

57.00 Spur extends N.10°E.; desc. 50 ft. to

58.90 Draw, course N.; asc. 100 ft. to

70.90 Thence along broken N. slope.

Difference between measurement of 80.00 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 S. 2 lks. from the secant

Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 33 and 32, with brass cap, marked

SC in N. half,

T 1 N S 32 in NW., and

R 13 W S 33 in NE. quadrant; and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, 1½ ft. high,

N. of cor. Impracticable to dig pits or set cor. in the ground.

Land, rough and mountainous.

Soil, 2nd and 3rd rate.

Timber, mesquite, paloverde and catclaw.

Undergrowth, greasewood, cactus and white sage.

S.89°59'W., on the secant, through sec. 32,

Over mountainous land, on very rocky, precipitous N. slope, through scattering timber and dense undergrowth.

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

By 1st set, 40.03 chs.

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

40.00 S. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard ¼ sec. cor., with brass cap, marked

SC ¼ S 32 in N. half, and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, 1½ ft. high,

N. of cor. Impracticable to dig pits or set cor. in the ground.

Dec. 26, 1914.

45.75 Ridge bears SE. and NW. (115 ft. above ¼ sec. cor.)

71.20 Desc. over cliff, 50 ft. high, bearing N. and S.

Difference between measurement of 80.00 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

80.00 400 ft. below cliffs,

Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 31 and 32, with brass cap, marked

SC in N. half,

T 1 N S 31 in NW., and

R 13 W S 32 in NE. quadrant; and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, 1½ ft. high,

N. of cor. Impracticable to dig pits or set cor. in the ground.

Land, very rough and mountainous.

Soil, 3rd and 4th rate.

Timber, scattering paloverde.

Undergrowth, greasewood and cactus.

S.89°59'W., on the secant, S. of sec. 31,

over rolling mountainous, broken land, through scattering timber and dense undergrowth. Desc. 440 ft. to

Gila and Salt River Base Line, through Range 13 West.

Chains

the standard $\frac{1}{4}$ sec. cor.
 Difference between measurement of 40.00 chs. by two sets of chainmen is 6 lks.; position of middle point
 By 1st set, 40.03 chs.
 By 2nd set, 39.97 chs.; the mean of which is
 40.00 N. 1 lk. from the secant
 Point for standard $\frac{1}{4}$ sec. cor. falls in wash, 50 lks. wide, course NW.; where cor. would be liable to destruction by floods. Therefore at
 39.75 N. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for witness cor. to standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 WC in W., and
 SC $\frac{1}{4}$ S 31 in N. half, and
 1914 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
 Thence over rolling land.
 Difference between measurement 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 N. 3 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of Tps. 1 N., Rs. 13 and 14 W., with brass cap, marked
 SC T 1 N in N. half,
 R 14 W S 36 in NW., and
 R 13 W S 31 in NE. quadrant; and
 1914 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
 Land, mountainous in E. and rolling in W. half.
 Soil, 3rd and 4th rate.
 Timber, scattering mesquite, paloverde and catclaw.
 Undergrowth, cactus, white sage and greasewood.

22 14

Gila and Salt River Base Line, through Range 14 West.

Chains

At the point last established on the secant, which is 18 miles from the starting point, and 3 lks. S. of the standard cor. of Tps. 1 N., Rs. 13 and 14 W., I deflect an angle of $0^{\circ}03'26''$ to the N. Thence

N. $89^{\circ}58'W.$, on the secant, S. of sec. 36, over rolling desert land, through scattering timber and dense undergrowth.

Measurement of 40.00 chs. by two sets of chainmen being identical, at

40.00 N. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 36 in N. half, and 1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

55.00 Wagon road bears N. $15^{\circ}W.$ and S. $15^{\circ}E.$

Difference between measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

80.00 Point for standard cor. of secs. 35 and 36 falls in dry stream bed, 20 lks. wide, course NW.; where it would be liable to destruction by floods. Therefore at

79.75 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for witness cor. to standard cor. of secs. 35 and 36, with brass cap, marked

WC in W., and

SC in N. half,

T 1 N S 35 in NW., and

R 14 W S 36 in NE. quadrant; and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, rolling desert.

Soil, 2nd and 3rd rate.

Timber, scattering paloverde, mesquite and catclaw.

Undergrowth, cactus, greasewood and white sage.

From true point for standard cor. of secs. 35 and 36,

N. $89^{\circ}59'W.$, on the secant, through sec. 35, over broken rolling mountainous land, through scattering timber and dense undergrowth.

Measurement of 40.00 chs. by two sets of chainmen being identical, at S. 1 lk. from the secant

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 35 in N. half, and 1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Difference between measurement 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 S. 2 lks. from the secant

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 34 and 35, with brass cap, marked

SC in N. half,

T 1 N S 34 in NW., and

R 14 W S 35 in NE. quadrant; and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, mountainous.

Soil, 3rd and 4th rate.

Timber, scattering paloverde, mesquite and catclaw.

Undergrowth, white sage, greasewood and cactus. Dec. 26, 1914.

Gila and Salt River Base Line, through Range 14 West.

Chains	
	<p>W. A. R. J. G. Dec. 28, 1916. N. 89° 59' W., on the secant, through sec. 34, over mountainous land, through scattering timber and dense undergrowth. Measurement of 40.00 chs. by two sets of chainmen being identical, at 40.00 S. 2 lks. from the secant Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 34 in N. half, and 1914 in S. rim; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground. Asc. 55.50 Top of hill, 230 ft. above standard $\frac{1}{4}$ sec. cor., bears N. and S.; desc. 190 ft. to 63.80 Draw, course S. 15° W.; asc. 125 ft. to 70.00 Spur extends S.; desc. 150 ft. to sec. cor. Difference between measurement 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 S. 3 lks. from the secant Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 33 and 34, with brass cap, marked SC in N. half, T 1 N S 33 in NW., and R 14 W S 34 in NE. quadrant; and 1914 in S. rim; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground. Land, rough mountainous. Soil, 3rd and 4th rate. Timber, scattering paloverde, mesquite and catclaw. Undergrowth, cactus, greasewood, white sage and catclaw.</p>
<hr style="border-top: 1px dashed black;"/>	
	<p>West, on the secant, through sec. 33, over mountainous land, through scattering timber and dense undergrowth. 1.00 Draw, 100 lks. wide, course S. 15° E.; asc. 165 ft. to 7.45 Top of hill bears N. and S. 16.00 Desc. 175 ft. to 27.50 Draw, course S. 20° E. Difference between measurement of 40.00 chs. by two sets of chainmen is 6 lks.; position of middle point By 1st set, 40.03 chs. By 2nd set, 39.97 chs.; the mean of which is 40.00 S. 2 lks. from the secant Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 33 in N. half, and 1914 in S. rim; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground. Desc. 65 ft. to 45.15 Draw, course S. 30° E. 53.00 Asc. 350 ft. to sec. cor. Measurement of 80.00 chs. by two sets of chainmen being identical, at 80.00 S. 2 lks. from the secant, Set an iron post 3 ft. long, 3 ins. in diam. in a mound of stone for standard cor. of secs. 32 and 33, with brass cap, marked SC in N. half, T 1 N S 32 in NW., and R 14 W S 33 in NE. quadrant; and 1914 in S. rim;</p>

Gila and Salt River Base Line, through Range 14 West.

Chains

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Land, rough and mountainous.

Soil, 3rd and 4th rate.

Timber, paloverde, mesquite and catclaw.

Undergrowth, white sage, greasewood and cactus.

Dec. 28, 1914.

Dec. 29, 1914.

S. $89^{\circ}59'W.$, on the secant, through sec. 32, over rough mountainous land, through scattering timber and dense undergrowth.

Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which is

40.00 ^{S. 1 lk. from the secant} Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 32 in N. half, and 1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Asc. 165 ft. to

48.50 Spur ridge extends SE.

Ellison's gold mine, (Central No. 1), bears S. $41^{\circ}E.$

Silver Peak bears N. $79^{\circ}E.$

Sheep Tanks, (abundant water) about S. $38^{\circ}W.$

Desc. 380 ft. to

66.52 Draw, course SE.

71.45 Low spur, 25 ft. above standard $\frac{1}{4}$ sec. cor., course SE.

78.43 Draw, course S.

Difference between measurement of 80.00 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 an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 31 and 32, with brass cap, marked

SC in N. half,

T 1 N S 31 in NW., and

R 14 W S 32 in NE. quadrant; and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Land, rough mountainous.

Soil, 3rd and 4th rate.

Timber, paloverde and catclaw.

Undergrowth, greasewood and cactus.

S. $89^{\circ}59'W.$, on the secant, S. of sec. 31, over mountainous land, through scattering timber and dense undergrowth.

21.61 Draw, course S. $10^{\circ}E.$

32.25 Ridge, 160 ft. above draw, bears NW. and SE.

Measurement of 40.00 chs. by two sets of chainmen being identical, at

40.00 N. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked

SC $\frac{1}{4}$ S 31 in N. half, and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Gila and Salt River Base Line, through Range 14 West. 15 17

Chains

53.70

Desc. 160 ft. to
Draw, course SE.

80.00

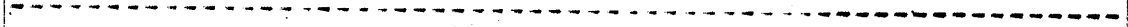
Difference between measurement of 80.00 chs. by two sets
of chainmen is 2 lks.; position of middle point
By 1st set, 79.99 chs.
By 2nd set, 80.01 chs.; the mean of which is

N. 3 lks. from the secant
Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
stone, for standard cor. of Tps. 1 N., Rs. 14 and 15 W.,
with brass cap, marked

SC T 1 N in N. half,
R 15 W S 36 in NW., and
R 14 W S 31 in NE. quadrant; and
1914 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor. Impracticable to dig pits or set cor. in the
ground.

Land, rough and mountainous.
Soil, 2nd and 3rd rate.
Timber, scattering paloverde, mesquite and catclaw.
Undergrowth, cactus and greasewood.



18 16 Gila and Salt River Base Line, through Range 15 West.

Chains

At the point last determined on the secant, which is 24 miles from the starting point, and 3 lks. S. of the standard cor. of Tps. 1 N., Rs. 14 and 15 W., we deflect an angle of 0°03'26" to the N. Thence,

N.89°58'W., on the secant, S. of sec. 36, over mountainous land, through scattering timber and dense undergrowth.

15.50 Asc. 230 ft. to Spur extends N. Ellison's mine, (Central No. 1), bears S.61°E. Sheep Tanks bears S.20°E.

24.50 Desc. 160 ft. to Draw, course N.

26.06 Trail bears N. and S.; asc.

40.00 Measurement of 40.00 chs. by two sets of chainmen being identical, at N. 1 lk. from the secant Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard 1/4 sec. cor., with brass cap, marked SC 1/4 S 36 in N. half, and 1914 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Continue ascent.

45.43 Ridge, 390 ft. above draw, bears N. and S. Desc. 375 ft. to

60.65 Thence asc. 190 ft. to

67.25 Desc. 125 ft. to standard sec. cor.

Difference between measurement of 80.00 chs. by two sets of chainmen is 7 lks.; position of middle point

By 1st set, 80.035 chs.

By 2nd set, 79.965 chs.; the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 35 and 36, with brass cap, marked

SC in N. half,

T 1 N S 35 in NW., and

R 15 W S 36 in NE. quadrant; and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Land, mountainous.

Soil, 3rd and 4th rate.

Timber, paloverde, mesquite and catclaw.

Undergrowth, greasewood and cactus.

Dec. 29, 1914.

Dec. 30, 1914.

N.89°59'W., on the secant, through sec. 35, over rough mountainous land, through scattering timber and dense undergrowth.

Desc. 50 ft. to Draw, course S.20°E.

5.65 Asc. 350 ft. to

7.50 Spur extends SW.

21.30 Desc. 200 ft. to

28.00 Asc.

38.80 Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set, 39.99 chs.

By 2nd set, 40.01 chs.; the mean of which is

40.00 S. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard 1/4 sec. cor., with brass cap, marked

SC 1/4 S 35 in N. half, and

1914 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Gila and Salt River Base Line, through Range 15 W. 19

Chains	
53.83	200 ft. above station at 38.80 chs., Round Knob Peak bears S. 37° 52' W. Polaris Peak bears S. 45° 30' W. Summit Peak bears S. 69° 21' W. Squaw Peak bears S. 80° W. Signal Peaks bear S. 82° 34' W. Small rock water hole bears S. 67° 30' W. Desc. 280 ft. to
70.00	Draw, course SE.; asc. 170 ft. to
78.40	Spur extends S.; desc. 70 ft. to sec. cor.
80.00	Difference between measurement 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 S. 2 lks. from the secant Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 34 and 35, with brass cap, marked SC in N. half, T 1 N S 34 in NW., and R 15 W S 35 in NE. quadrant; and 1914 in S. rim; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground. Land, rough mountainous. Soil, 3rd and 4th rate. Timber, paloverde, mesquite and catclaw. Undergrowth, greasewood, cactus and white sage.
22.13	N. 89° 59' W., on the secant, through sec. 34, over rough mountainous land, through scattering timber and dense undergrowth. Desc. 365 ft. to Draw, course SW.
40.00	Difference between measurement of 40.00 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 S. 2 lks. from the secant Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard ¼ sec. cor., with brass cap, marked SC ¼ S 34 in N. half, and 1914 in S. rim; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
54.60	Draw, course SE. Difference between measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 80.01 chs. By 2nd set, 79.99 chs.; the mean of which is
80.00	S. 3 lks. from the secant Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 33 and 34, with brass cap, marked SC in N. half, T 1 N S 33 in NW., and R 15 W S 34 in NE. quadrant; and 1914 in S. rim; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
	Land, rough and mountainous. Soil, 3rd and 4th rate. Timber, paloverde, mesquite and catclaw. Undergrowth, greasewood, white sage and cactus.

Dec. 30, 1914.

Chains	
	Dec. 31, 1914. West, on the secant, through sec. 33, over rocky, mountainous land, through scattering timber and dense undergrowth. Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 39.99 chs. By 2nd set, 40.01 chs.; the mean of which is
40.00	S. 2 lks. from the secant Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 33 in N. half, and 1914 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Impracticable to dig pits or set cor. in the ground. Measurement of 80.00 chs. by two sets of chainmen being identical, at
80.00	S. 2 lks. from the secant Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 32 and 33, with brass cap, marked SC in N. half, T 1 N S 32 in NW., and R 15 W S 33 in NE. quadrant; and 1914 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground. Land, rough mountainous. Soil, 3rd and 4th rate. Timber, paloverde, mesquite and catclaw. Undergrowth, cactus, greasewood and white sage.

	S. $89^{\circ}59'W$. on the secant, through sec. 32, over rocky mountainous land, through scattering timber and dense undergrowth.
29.50	Draw, course SE. Measurement of 40.00 chs. by two sets of chainmen being identical, at
40.00	S. 1 lk. from the secant Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 32 in N. half, and 1914 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
57.25	Draw, course S.
69.45	Draw, course S. Difference between measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 80.01 chs. By 2nd set, 79.99 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 31 and 32; with brass cap, marked SC in N. half, T 1 N S 31 in NW., and R 15 W S 32 in NE. quadrant; and 1914 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground. Land, rocky and mountainous. Soil, 3rd and 4th rate. Timber, scattering paloverde, mesquite and catclaw. Undergrowth, cactus, greasewood and white sage.

Gila and Salt River Base Line, through Range 15 West. 10 21

Chains	
	S.89°59'W., on the secant, S. of sec. 31, over rocky mountainous land, through scattering timber and undergrowth.
3.00	Asc. 60 ft. to Spur extends S.; desc. 125 ft. to
9.51	Draw, course SE.; asc. 50 ft. to
13.47	Spur extends S.; desc. 50 ft. to
18.80	Draw, course S.; asc. 50 ft. to
25.41	Spur extends S.; desc. 225 ft. to
34.83	Draw, course S.; asc.
40.00	Difference between measurement of 40.00 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 N. 1 lk. from the secant
44.25	Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 31 in N. half, and 1914 in S. rim; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
47.50	Spur, 215 ft. above draw, extends N.; desc. 100 ft. to
50.47	Thence asc. 35 ft. to
55.40	Rocky spur extends S.; desc. 70 ft. to
65.45	Ft. of descent.
80.00	Draw extends SE.; asc. 200 ft. to Tp. cor. Difference between measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 80.01 chs. By 2nd set, 79.99 chs.; the mean of which is N. 3 lks. from the secant.
	Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of Tps. 1 N., Rs. 15 and 16 W., with brass cap, marked SC T 1 N in N. half, R 16 W S 36 in NW., and R 15 W S 31 in NE. quadrant; and 1914 in S. rim; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
	Land, rough and mountainous.
	Soil, 3rd and 4th rate.
	Timber, scattering paloverde, mesquite and catclaw.
	Undergrowth, cactus, white sage and greasewood.
	Dec. 31, 1914.

Gila and Salt River Base Line, through Range 16 West.

Chains	
	Dec. 31, 1914. At the point last determined on the secant, which is 30 miles from the starting point and 3 lks. S. of the standard cor. of Tps. 1 N., Rs 15 and 16 W., I deflect an angle of $0^{\circ}03'26''$ to the N., Thence,
	N. $89^{\circ}58'W.$, on the secant, S. of sec. 36, over rocky mountainous land, through scattering timber and dense undergrowth.
1.47	Round Knob bears S. $16^{\circ}18'E.$ Summit Peak bears S. $58^{\circ}04'W.$ Signal Peak bears S. $80^{\circ}W.$ Desert Tanks bears S. $50^{\circ}50'E.$
11.15	Draw, course S.
16.88	Spur extends SE. Measurement of 40.00 chs. by two sets of chainmen is identical;
40.00	Point for standard $\frac{1}{4}$ sec. cor. falls in draw, course SE., where it would be liable to destruction by floods. Therefore at a point N. 1 lk. from the secant, at
39.25	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for witness cor. to standard $\frac{1}{4}$ sec. cor., with brass cap, marked WC in W. half, and SC $\frac{1}{4}$ S 36 in N. half, and 1914 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Measurement of 80.00 chs. by two sets of chainmen, being identical, at
80.00	Set an iron post, 3 ft. long, 3 in. diam., in a mound of stone, for standard cor. of secs. 35 and 36, with brass cap, marked SC in N. half, T 1 N S 35 in NW., and R 16 W S 36 in NE. quadrant; and 1914 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
	Land, rough and mountainous. Soil, 3rd and 4th rate. Timber, paloverde and mesquite. Undergrowth, cactus, greasewood and white sage.

	N. $89^{\circ}59'W.$, on the secant, through sec. 35, over rolling desert land, through scattering timber and dense undergrowth.
	Measurement of 40.00 chs. by 2 sets of chainmen being identical, at
40.00	S. 1 lk. from the secant Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 35 in N. half, and 1914 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
	Measurement of 80.00 chs. by two sets of chainmen being identical, at
80.00	S. 2 lks. from the secant Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 34 and 35, with brass cap, marked SC in N. half, T 1 N S 34 in NW., and R 16 W S 35 in NE. quadrant; and 1914 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Gila and Salt River Base Line, through Range 16 West. 23

Chains

Land, rolling desert.
Soil, 3rd and 4th rate.
Timber, paloverde, catclaw and mesquite.
Undergrowth, cactus, greasewood and white sage.

2.00

N. 89° 59' W., on the secant, through sec. 34,
over low hilly desert, through scattering timber and dense
undergrowth.

Wash, 100 lks. wide, course N. 20° E.
Difference between measurement of 40.00 chs. by two sets
of chainmen is 2 lks.; position of middle point

40.00

By 1st set, 40.01 chs.
By 2nd set, 39.99 chs.; the mean of which is

S. 2 lks. from the secant
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 34 in N. half, and
1914 in S, rim;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor.

Dec. 31, 1916.
W. A. and R. J. G.

51.96

R. J. G.
Jan. 2, 1915.
Wash, 100 lks. wide, course SE.
Difference between measurement of 80.00 chs. by two sets of
chainmen is 2 lks.; position of middle point

80.00

By 1st set, 80.01 chs.
By 2nd set, 79.99 chs.; the mean of which is
S. 3 lks. from the secant
Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
stone, for standard cor. of secs. 33 and 34, with brass
cap, marked
SC in N. half,
T 1 N S 33 in NW., and,
R 16 W S 34 in NE. quadrant; and
1915 in S. rim;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor. Impracticable to dig pits or set cor. in the
ground.

Land, roughly rolling and rocky.
Soil, 3rd and 4th rate.
Timber, paloverde, mesquite and catclaw.
Undergrowth, cactus, white sage and greasewood.

40.00

West, on the secant, through sec. 33,
over low hilly land, through scattering timber and dense
undergrowth.

Measurement of 40 chs. by two sets of chainmen, being iden-
tical, at

S. 2 lks. from the secant
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 33 in N. half, and
1914 in S. rim;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor. Impracticable to dig pits or set cor. in the
ground.

50.82

65.87

67.33

Draw, course S.
Draw, course SE.
Road bears NW. and SE.
Difference between measurement of 80.00 chs. by two sets of
chainmen is 2 lks.; position of middle point
By 1st set, 80.01 chs.
By 2nd set, 79.99 chs.; the mean of which is

Chains

80.00 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 32 and 33, with brass cap, marked
 SC in N. half,
 T 1 N S 32 in NW., and
 R 16 W S 33 in NE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.. Impracticable to dig pits or set cor. in the ground.
 Land, roughly rolling and broken.
 Soil, 3rd and 4th rate.
 Timber, paloverde and catclaw.
 Undergrowth, cactus, greasewood and white sage.

S. $89^{\circ}89'W.$, on the secant, through sec. 32, over low, broken hills, through scattering timber and dense undergrowth.
 Measurement of 40.00 chs. by two sets of chainmen being identical, at
 40.00 S. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 32 in N. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 41.50 Wash, 100 lks. wide, course SE.
 Road in wash, course NW. and SE.
 66.35 Squaw Peak bears S. $65^{\circ}E.$
 Alamo Peak bears N. $10^{\circ}E.$
 76.65 Draw, course N.
 Difference between measurement 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 an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 31 and 32, with brass cap, marked
 SC in N. half,
 T 1 N S 31 in NW., and
 R 16 W S 32 in NE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.. Impracticable to dig pits or set cor. in the ground.
 Land, rough, broken hills.
 Soil, 3rd and 4th rate.
 Timber, paloverde and catclaw.
 Undergrowth, cactus, greasewood and white sage.

S. $89^{\circ}89'W.$, on the secant, S. of sec. 31, over broken hilly land, through scattering timber and dense undergrowth.
 Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point
 By 1st set, 40.01 chs.
 By 2nd set, 39.99 chs.; the mean of which is
 40.00 N. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 31 in N. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.. Impracticable to dig pits or set cor. in

Gila and Salt River Base Line, through Range 16 West.

Chains

the ground.
 60.88 Spur extends N.
 Measurement of 80.00 chs. by two sets of chainmen being identical, at
 80.00 N. 3 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of Tps. 1 N., Rs. 16 and 17 W., with brass cap, marked
 SC T 1 N in N. half,
 R 17 W S 36 in NW., and
 R 16 W S 31 in NE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
 Land, rough, broken hills.
 Soil, 3rd and 4th rate.
 Timber, mesquite, paloverde and catclaw.
 Undergrowth, greasewood, cactus and white sage.
 Jan. 2, 1915.

Gila and Salt River Base Line, through Range 17 West.

Chains

	<p>Jan. 2, 1915.</p> <p>At the point last determined on the secant, which is 36 miles from the starting point and 3 lks. S. of the standard cor. of Tps. 1 N., Rs. 16 and 17 West, I deflect an angle of $0^{\circ}03'26''$ to the N. Thence,</p> <p>N. $89^{\circ}58'W.$, on the secant, S. of sec. 36, over rough, broken and hilly land, through scattering timber and dense undergrowth.</p>
33.14	<p>Wash, 100 lks. wide, course NE.</p> <p>Difference between measurement of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point</p> <p>By 1st set, 40.02 chs.</p> <p>By 2nd set, 39.98 chs.; the mean of which is</p>
40.00	<p>N. 1 lk. from the secant</p> <p>Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 36 in N. half, and 1915 in S. rim;</p> <p>and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in ground.</p>
68.05	<p>Jan. 4, 1915. Jan. 2, 1915.</p> <p>Signal Peak bears S. $68^{\circ}W.$</p> <p>Squaw Peak bears S. $54^{\circ}05'W.$</p> <p>Polaris Mountain bears S. $1^{\circ}35'E.$</p>
74.00	<p>Draw, course S.</p> <p>Difference between measurement of 80.00 chs. by two sets of chainmen is 6 lks.; position of middle point</p> <p>By 1st set, 79.97 chs.</p> <p>By 2nd set, 80.03 chs.; the mean of which is</p>
80.00	<p>Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 35 and 36, with brass cap, marked</p> <p>SC in N. half,</p> <p>T 1 N S 35 in NW., and</p> <p>R 17 W S 36 in NE. quadrant; and</p> <p>1915 in S. rim;</p> <p>and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.</p> <p>Land, rough, broken hills.</p> <p>Soil, 3rd and 4th rate.</p> <p>Timber, paloverde, mesquite and catclaw.</p> <p>Undergrowth, cactus, greasewood and white sage.</p>
1.85	<p>N. $89^{\circ}59'W.$, on the secant, through sec. 35, over mountainous land, through scattering timber and undergrowth.</p> <p>Desc. 50 ft. to</p>
39.41	<p>Draw, course SE.</p> <p>Saddle in spur ridge extending S.</p> <p>Measurement of 40.00 chs. by two sets of chainmen being identical, at</p>
40.00	<p>S. 1 lk. from the secant</p> <p>Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 35 in N. half, and 1915 in S. rim;</p> <p>and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.</p>
47.75	<p>Desc. 130 ft. to</p>
76.65	<p>Thence asc. 395 ft. to</p> <p>Rocky spur extends S.; desc. 100 ft. to sec. cor.</p> <p>Difference between measurement of 80.00 chs. by two sets of chainmen is 1 lk.; position of middle point</p> <p>By 1st set, 80.005 chs.</p> <p>By 2nd set, 79.995 chs.; the mean of which is</p>

Gila and Salt River Base Line, through Range 17 West.

Chains

80.00 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 34 and 35, with brass cap, marked
 SC in N. half,
 T 1 N S 34 in NW., and
 R 17 W S 35 in NE. half, and
 1915 in S. rim;
 and raise a mound of stone; 2 ft. base, 1½ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
 Land, rough and mountainous.
 Soil, 3rd and 4th rate.
 Timber, paloverde, mesquite and catclaw.
 Undergrowth, cactus, greasewood and sage.

7.72 N. 89°59'W., on the secant, through sec. 34,
 25.60 over rocky mountainous land, through scattering timber and undergrowth. Desc. 135 ft. to
 Draw, course S.10°E.
 Spur ridge extends SW.; desc. 225 ft. to ¼ sec. cor.
 Difference between measurement 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 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard ¼ sec. cor., with brass cap, marked
 SC ¼ S 34 in N. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 Difference between measurements of 80.00 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 S. 3 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 33 and 34, with brass cap, marked
 SC in N. half,
 T 1 N S 33 in NW., and
 R 17 W S 34 in NE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
 Land, rough and mountainous.
 Soil, 2nd and 3rd rate.
 Timber, scattering mesquite, paloverde and catclaw.
 Undergrowth, cactus, greasewood and sage.

9.85 West, on the secant, through sec. 33,
 31.00 over mountainous land, through scattering timber and dense undergrowth.
 Desc. 115 ft. to
 Draw, course N.; thence over broken land.
 Desc.
 Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point
 By 1st set, 40.01 chs.
 By 2nd set, 39.99 chs.; the mean of which is
 40.00 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard ¼ sec. cor., with brass cap, marked

Gila and Salt River Base Line, through Range 17 West.

Chains

SC $\frac{1}{4}$ S 33 in N. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor. Impracticable to dig pits or set cor. in the
 ground.

47.63 Draw, 280 ft. below station at 31.00 chs, course N.;
 Asc. 115 ft. to

52.30 Summit; descend 150 ft. to

62.88 Dry stream bed, 50 lks. wide; course NE.; asc.

63.82 Trail bears NE. and SW.

74.20 Summit, 260 ft. above wash.; thence over broken ground.
 Difference between measurement 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 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for standard cor. of secs. 32 and 33, with brass
 cap, marked
 SC in N. half,
 T 1 N S 32 in NW., and
 R 17 W S 33 in NE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 Land, rough and mountainous.
 Soil, 3rd and 4th rate.
 Timber, paloverde and catclaw.
 Undergrowth, cactus, greasewood and sage.

Jan. 4, 1915.
R. J. G.

W. A. and R. J. G.
 Jan. 8, 1915.
 S. $89^{\circ}59'$ W., on the secant, through sec. 32,
 over rough mountainous land, through scattering timber
 and dense undergrowth.
 Difference between measurement of 40.00 chs. by two sets
 of chainmen is 4 lks.; position of middle point
 By 1st set, 40.02 chs.
 By 2nd set, 39.98 chs.; the mean of which is

40.00 S. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 32 in N. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.

64.00 Desc. 225 ft. to

71.20 Draw, course S. 10° W.
 Measurement of 80.00 chs. by two sets of chainmen is
 identical.

80.00 Point for standard cor. of secs. 31 and 32 falls on high
 cliff where it would be impossible to set same. Therefore
 at

78.25 At base of high cliff,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for witness cor. to standard cor. of secs. 31 and
 32, with brass cap, marked
 WC in W. and
 SC in N. half,
 T 1 N S 31 in NW., and
 R 17 W S 32 in NE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 Land, rough and mountainous.
 Soil, 3rd and 4th rate.
 Timber, scattering paloverde and catclaw.
 Undergrowth; cactus, greasewood and sage.

Jan. 8, 1915.

Gila and Salt River Base Line, through Range 17 West.

Chains

Jan. 11, 1915.
 From true point for standard cor. of secs. 31 and 32, S. 89°59' W., on the secant, S. of sec. 31, over rough mountainous land, through scattering timber and dense undergrowth.

16.00 Descend over broken ground 365 ft. to
 39.00 Enter wash, course N. 80° E.
 40.00 Point for standard $\frac{1}{4}$ sec. cor. falls in wash, where it would be liable to destruction by floods.
 41.00 Leave wash.

Difference between measurement of 42.70 chs. by two sets of chainmen is 2 lks.; position of middle point
 By 1st set, 42.71 chs.
 By 2nd set, 42.69 chs.; the mean of which is
 42.70 N. 1 lk. from the secant

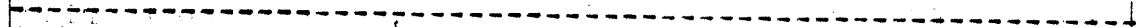
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for witness cor. to standard $\frac{1}{4}$ sec. cor., with brass cap, marked WC in E., and
 SC $\frac{1}{4}$ S 31 in N. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Thence over broken ground.
 Difference between measurement 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 N. 3 lks. from the secant

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of Tps. 1 N., Rs. 17 and 18 W. with brass cap, marked
 SC T 1 N., in N. half,
 R 18 W S 36 in NW., and
 R 17 W S 31 in NE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Land, rough and mountainous.
 Soil, 3rd and 4th rate.
 Timber, paloverde and catclaw.
 Undergrowth, greasewood, sage and cactus.

W. A.
 R. J. G.
 Jan. 11, 1915.



Gila and Salt River Base Line, through Range 18 West.

Chains.

W. A., and R. J. G.
Jan. 11, 1915.

At the point last determined on the secant, which is 42 miles from the starting point, and 3 lks. S. of the standard cor. of Tps. 1 N., Rs. 17 and 18 W., we deflect an angle of 0°03'26" to the N. Thence

N.89°58'W., on the secant, S. of sec. 36, over rough mountainous land, through scattering timber and dense undergrowth.

4.00
16.42

Desc. 260 ft. to
Draw, course S.; thence over broken ground.
Difference between measurement 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

N. 1 lk. from the secant
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 36 in N. half, and 1915 in S. rim; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

58.35

Wash, 100 lks. wide, course NW.
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 an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for standard cor. of secs. 35 and 36, with brass cap, marked SC in N. half, T 1 N S 35 in NW., and R 18 W S 36 in NE. quadrant; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft; high, N. of cor.

Land, rough and mountainous.
Soil, 3rd and 4th rate.
Timber, paloverde and catclaw.
Undergrowth, cactus, greasewood and sage.

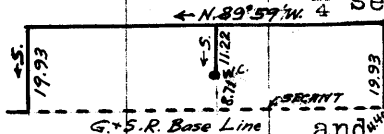
N.89°59'W., on the secant, through sec. 35, over rugged mountainous land, through scattering timber and dense undergrowth.

4.40

To pass perpendicular cliffs, offset North, 19.93 chs. Thence I run, N.89°59'W., on offset, parallel to secant. Measurement of 40.00 chs. by two sets of chainmen is identical.

40.00

(counting from standard sec. cor.)
Offset South, 11.22 chs. to point 8.71 chs. N. of the secant, and 8.72 chs. N. of the true point for standard $\frac{1}{4}$ sec. cor., which falls on cliffs, where it is impracticable to set cor. Therefore at above described point
Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, on a large rock, for witness cor. to standard $\frac{1}{4}$ sec. cor., with brass cap, marked



WC in S., and SC $\frac{1}{4}$ S 35 in N. half, and 1915 in S. rim; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

80.00

Continue N.89°59'W., on offset, 19.93 chs. N. of the secant. Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point
By 1st set, 80.01 chs.
By 2nd set, 79.99 chs.; the mean of which is
Offset South, 19.93 chs. to the secant.

Gila and Salt River Base Line, through Range 18 West.

Chains

S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 34 and 35, with brass cap, marked
 SC in N. half,
 T 1 N S 34 in NW., and
 R 18 W S 35 in NE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor...
 Land, rough and mountainous.
 Soil, 3rd and 4th rate.
 Timber, paloverde and catclaw.
 Undergrowth, cactus, greasewood and sage.

40.00

N. 89°59'W., on the secant, through sec. 34, over mountainous land, through scattering timber and dense undergrowth.
 Measurement of 40.00 chs. by two sets of chainmen being identical, at
 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard ¼ sec. cor., with brass cap, marked
 SC ¼ S 34 in N. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

80.00

Measurement of 80.00 chs. by two sets of chainmen being identical, at
 S. 3 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 33 and 34, with brass cap, marked
 SC in N. half,
 T 1 N S 33 in NW., and
 R 18 W S 34 in NE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 Land, rough, mountainous, in E. half, and level in W.
 Soil, 2nd and 3rd rate.
 Timber, paloverde and catclaw.
 Undergrowth, cactus, greasewood and sage.

Jan. 11, 1915.

40.00

Jan. 12, 1915.
 West, on the secant, through sec. 33, over level desert land, through scattering timber and dense undergrowth.
 Measurement of 40.00 chs. by two sets of chainmen being identical, at
 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard ¼ sec. cor., with brass cap, marked
 SC ¼ S 33 in N. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

80.00

Measurement of 80.00 chs. by two sets of chainmen being identical, at
 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 32 and 33, with brass cap, marked

Gila and Salt River Base Line, through Range 18 West.

Chains

SC in N. half,
T 1 N S 32 in NW., and
R 18 W S 33 in NE. quadrant; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Land, level desert.

Soil, 2nd and 3rd rate.

Timber, paloverde and catclaw.

Undergrowth, greasewood, cactus and sage.

S. 89° 59' W., on the secant, through sec. 32,
over level land, through scattering timber and dense under-
growth.

Measurement of 40.00 chs. by two sets of chainmen being
identical, at

40.00 S. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for standard 1/4 sec. cor., with brass cap, marked

SC 1/4 S 32 in N. half, and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Measurement of 80.00 chs. by two sets of chainmen being
identical, at

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for standard cor. of secs. 31 and 32, with brass
cap, marked

SC in N. half,
T 1 N S 31 in NW., and
R 18 W S 32 in NE. quadrant; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Land, level desert.

Soil, 2nd and 3rd rate.

Timber, catclaw and paloverde.

Undergrowth, greasewood and sage.

S. 89° 59' W., on the secant, S. of sec. 31,
over level desert, through scattering timber and dense
undergrowth.

20.15 Road bears N. and S.

Measurement of 40.00 chs. by two sets of chainmen being
identical, at

40.00 N. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for standard 1/4 sec. cor., with brass cap, marked

SC 1/4 S 31 in N. half, and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Measurement of 80.00 chs. by two sets of chainmen being
identical, at

80.00 N. 3 lks. from the secant

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for standard cor. of Tps. 1 N., Rs. 18 and 19 W.,
with brass cap, marked

SC T 1 N in N. half,
R 19 W S 36 in NW., and
R 18 W S 31 in NE. quadrant; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Land, level desert.

Soil, 2nd and 3rd rate.

Timber, paloverde and catclaw.

Undergrowth, cactus, greasewood and sage.

Jan. 12, 1915.

Gila and Salt River Base Line, through Range 19 West.

Chains

Jan. 12, 1915.
At the point last determined on the secant, which is 48 miles from the starting point, and 3 lks. S. of the standard cor. of Tps. 1 N., Rs. 18 and 19 W., we deflect an angle of 0°03'26" to the N., Thence

N. 89° 58' W., on the secant, S. of sec. 36, over level desert land, through scattering timber and dense undergrowth.

5.20 Road bears N.10°W. and S.10°E.

Measurement of 40.00 chs. by two sets of chainmen being identical, at

40.00 N. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard 1/4 sec. cor., with brass cap. marked SC 1/4 S 36 in N. half, and 1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 35 and 36, with brass cap, marked

SC in N. half,
T 1 N S 35 in NW., and
R 19 W S 36 in NE. quadrant; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Land, level desert.
Soil, 2nd and 3rd rate.
Timber, scattering catclaw and paloverde.
Undergrowth, cactus, greasewood and sage.

N. 89° 59' W., on the secant, through sec. 35, over level desert, through scattering timber and dense undergrowth.

Measurement of 40.00 chs. by two sets of chainmen being identical, at

40.00 S. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam.; 26 ins. in the ground, for standard 1/4 sec. cor., with brass cap, marked SC 1/4 S 35 in N. half, and 1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Measurement of 80.00 chs. by two sets of chainmen being identical, at

80.00 S. 2 lks. from the secant

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 34 and 35, with brass cap, marked

SC in N. half,
T 1 N S 34 in NW., and
R 19 W S 35 in NE. quadrant; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Land, level desert.
Soil, gravelly; 1st rate.
Timber, catclaw and paloverde.
Undergrowth, greasewood, cactus and sage.

34 Gila and Salt River Base Line, through Range 19 West.

Chains	
40.00	<p>N. 89° 59' W., on the secant, through sec. 34, over level desert, through scattering timber and dense undergrowth.</p> <p>Measurement of 40.00 chs. by two sets of chainmen being identical, at</p> <p>S. 2 lks. from the secant.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard cor. of secs. 33 and 34, with brass cap, marked</p> <p>SC $\frac{1}{4}$ S 34 in N. half, and 1915 in S. rim;</p> <p>and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
80.00	<p>Measurement of 80.00 chs. by two sets of chainmen being identical, at</p> <p>S. 3 lks. from the secant,</p> <p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 33 and 34, with brass cap, marked</p> <p>SC in N. half, T 1 N S 33 in NW., and R 19 W S 34 in NE. quadrant; and 1915 in S. rim;</p> <p>and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p> <p>Land, level desert. Soil, gravelly; 1st rate. Timber, catclaw and paloverde. Undergrowth, greasewood, cactus and sage.</p>

40.00	<p>West, on the secant, through sec. 33, over level desert, through scattering timber and dense undergrowth.</p> <p>Measurement of 40.00 chs. by two sets of chainmen being identical, at</p> <p>S. 2 lks. from the secant</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked</p> <p>SC $\frac{1}{4}$ S 33 in N. half, and 1915 in S. rim;</p> <p>dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3$\frac{1}{2}$ ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
65.20	<p>Road bears N. and S.</p> <p>Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point</p> <p>By 1st set, 80.01 chs.</p>
80.00	<p>By 2nd set, 79.99 chs.; the mean of which is</p> <p>S. 2 lks. from the secant,</p> <p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 32 and 33, with brass cap, marked</p> <p>SC in N. half, T 1 N S 32 in NW., and R 19 W S 33 in NE. quadrant; and 1915 in S. rim;</p> <p>dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.</p> <p>Land, level desert. Soil, gravelly; 1st rate. Timber, paloverde and catclaw. Undergrowth, greasewood, cactus and sage.</p>

Gila and Salt River Base Line, through Range 19 West.

Chains

40.00 S. 89°59' W., on the secant, through sec. 32, over level desert land, through scattering timber and dense undergrowth.
 Measurement of 40.00 chs. by two sets of chainmen being identical, at
 S. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 32 in N. half, and 1915 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

80.00 Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point
 By 1st set, 79.99 chs.
 By 2nd set, 80.01 chs.; the mean of which is
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 31 and 32, with brass cap, marked
 SC in N. half,
 T 1 N S 31 in NW., and
 R 19 W S 32 in NE. quadrant; and
 1915 in S. rim;
 dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of post 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
 Land, level desert.
 Soil, gravelly; 1st rate.
 Timber, paloverde and catclaw.
 Undergrowth, greasewood, sage and cactus.

40.00 S. 89°59' W., on the secant, S. of sec. 31, over level desert land, through scattering timber and dense undergrowth.
 Measurement of 40.00 chs. by two sets of chainmen being identical, at
 N. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 31 in N. half, and 1915 in S. rim;
 dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

80.00 Measurement of 80.00 chs. by two sets of chainmen being identical, at
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of Tps. 1 N., Rs. 19 and 20 W., with brass cap, marked
 SC T 1 N in N. half,
 R 20 W S 36 in NW., and
 R 19 W S 31 in NE. quadrant; and
 1915 in S. rim;
 dig pits 24x18x12 ins., crosswise on each line, E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
 Land, level desert.
 Soil, 1st rate; gravelly.
 Timber, catclaw and mesquite.
 Undergrowth, greasewood sage and cactus.

Jan. 12, 1915.
W. A.
R. J. G.

MERIDIONAL OBSERVATIONS

Kind	Station	Date 1914	Hour	Lat.	Decl.	Remarks
Polaris W. E.	24½ chs. E. of SC T 1 N R11W R10W S36 S31	Dec. 13	2h 01.5m a.m. 1.m.t.	33°22½'	88°51'29"	Long.=113°20'10" Azimuth = 1°22' W. A.
Polaris W. E.	On secant SC T1N R11W S31 S32	Dec. 16	1h 49.7m a.m. 1.m.t.	33°22½'	88°51'30"	Long.=113°25'33" Azimuth = 1°22' W. A.
Direct Solar.	On secant SC T1N R14W S34 S35	Dec. 26	3h 31m p. m., 1. m. t. 3h 36m p. m., 1. m. t. mean = 3h 33½m p.m. 1. m. t.	33°22½'	88°51'32"	v, series of 2 sets, 14°21'--14°05' 14°06'--14°21'. Angle from assumed meridian left to sun, 2 sets,-- 131°48'--130°22' 130°57½'--131°12½'. Resulting mean A = 49°00' W. of S. Mean bearing of assumed meridian = N.0°05'E. I correct line and cors. to the E., and proceed with secant. R. J. G.
Direct Solar	On secant SC T1N R15W S33 S34	Dec. 30	2h 56m p.m. 1.m.t. 3h 07m p.m. 1.m.t. Mean 3h 01m	33°22½'	13°11'9" S.	v, series of 3 sets, 20°06', -19°11½' 19°40', -19°33' 19°28', -19°43'. Angle from pt. W. on secant, left to sun, 3 sets, 48°40', -46°08' 48°04', -46°35' 47°14', -47°24½'. Resulting mean A = 42°44' W. of S. Mean bearing of secant=N.89°55'W. I correct line and cors. to the E. R. J. G.
Direct Solar	On secant SC T 1 N R17W R16W S36 S31	1915 Jan. 2	p.m. 1.m.t. 3h 23m 3h 35m mean 3h 29m	33°22½'	12°57'20"	v, series of 3 sets, 16°16', --15°00' 14°40', --16°31½' 15°39½', --15°28' Angle from pt. W. on secant, left to sun, 3 sets, 43°16½', -40°40½' 40°55', --42°58' 42°35', --41°11½'. Resulting mean A = 48°05' W. of S. Mean bearing of secant=N.89°59'W., Being within the limit of accuracy of instrument and observation, continue line as marked. R.J.G.

Survey of 1st Guide Meridian West, through Ts. 3 and 4 N.

Chains

Survey commenced May 7, 1915, and executed by Woodbury Abbey, U. S. Surveyor, using a Young and Sons' light mountain transit No. 8588, and Hans D. Voigt, U. S. Transitman, using a Young and Sons light mountain transit No. 8293. Both instruments have Smith solar attachments and full vertical circles. The horizontal limbs are provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs and vertical circles.

All measurements made with steel tapes and clinometers.

Instrument No. 8588 was approved, subject to satisfactory field tests, by the assistant supervisor of surveys, on Dec. 2, 1914, and instrument No. 8293 on Nov. 26, 1915. The adjustments were examined, and level and collimation errors corrected at the beginning of the portion of the survey executed Mr. Abbey and Mr. Voigt respectively.

The line through T. 3 N., was initiated and continued from the transit line run during the resurvey of 1st G. M. W., through T. 2 N., hereinafter described, and through T. 4 N., from a meridian determined by direct altitude observation of the sun, a record of which follows herein.

The magnetic bearing of the true meridian, at 8h 00m a.m., l.m.t., is N. 14° 30' W. The angle thus determined gives the magnetic declination 14° 30' E.

Altitude Observation on Sun for Azimuth, - Hans D. Voigt, Observer.

Station, cor. of Ts. 3 and 4 N., Rs. 4 and 5 W.,
lat, 33° 38' N., -- Long., 112° 42' 44" W.
Date, Jan. 6, 1916, -- Decl., 22° 36' 07" S. -- l.m.t. = 9h a.m.
Reference point, assumed South.

Sequence	Sun's Limb	Horizontal Angles	Vertical Angles	Remarks
1	0	45° 24' 30"	18° 36' 00"	
6	0	44° 00' 00"	18° 40' 30"	Refraction = 0° 02' 51"
2	0	44° 42' 00"	18° 42' 30"	Computed mean A, E. of
5	0	44° 44' 00"	18° 34' 00"	S., = 44° 42' 1/2', agreeing
3	0	45° 09' 30"	18° 47' 30"	with assumed bearing.
4	0	44° 19' 00"	18° 27' 00"	

1st Guide Meridian West, through T. 3 N.

From the reestablished cor. of Tps. 2 and 3 N., Rs 4 and 5 W., hereinafter described,

North, bet. secs. 31 and 36, over hilly desert land, through scattering scrub timber and dense undergrowth.

40.00 Point for 1/4 sec. cor. falls in wash, 20 lks. wide, course SW., where it would be liable to destruction by floods; therefore at

39.80 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for witness cor. to 1/4 sec. cor., with brass cap, marked

1/4 in N.,
S 31 in E., and
WC S 36 in W. half; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, with brass cap, marked

1st Guide Meridian West, through T 3 N.

Chains

T 3 N in N. half,
R 5 W S 25 in NW.,
R 4 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrant; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Land, hilly and broken.

Soil, 2nd and 3rd rate.

Timber, iron wood, palo verde and mesquite.

Undergrowth, greasewood and cactus.

North, bet. secs. 25 and 30;

over broken desert land, through scattering scrub timber
and dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$ in N.,

S 25 in W., and

S 30 in E. half; and

1915 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for cor. of secs. 19, 24, 25 and 30, with brass
cap, marked

T 3 N in N. half,

R 5 W S 24 in NW.,

R 4 W S 19 in NE.,

S 30 in SE., and

S 25 in SW. quadrant; and

1915 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Land, broken.

Soil, 2nd rate; gravelly.

Timber, palo verde and iron wood.

Undergrowth, greasewood.

North, bet. secs. 19 and 24,

over hilly desert, through scattering scrub timber and
dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$ in N.,

S 19 in E., and

S 24 in W. half; and

1915 in S. rim;

dig pits, $18 \times 18 \times 12$ ins., N. and S. of post, 3 ft. dist.,
and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for cor. of secs. 13, 18, 19 and 24, with brass
cap, marked

T 3 N in N. half,

R 5 W S 13 in NW.,

R 4 W S 18 in NE.,

S 19 in SE., and

S 24 in SW. quadrant; and

1915 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Land, rolling desert.

Soil, 2nd rate.

Timber, palo verde, iron wood and mes-
quite.

Undergrowth, greasewood.

Chains

North, bet. secs. 13 and 18,
 over rolling desert, through scattering scrub timber
 and dense undergrowth.

30.00 Wash, 2 chs. wide, course SW.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 13 in W., and
 S 18 in E. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.

61.50 Road bears NE. and SW.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 7, 12, 13 and 18, with brass
 cap, marked
 T 3 N in N. half,
 R 5 W S 12 in NW.,
 R 4 W S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.

Land, rolling desert.
 Soil, 2nd rate.
 Timber, palo verde, mesquite and iron wood.
 Undergrowth, greasewood and catclaw.

North, bet. secs. 7 and 12,
 over rolling desert, through scattering scrub timber and
 dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 7 in E., and
 S 12 in W. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 1, 6, 7 and 12, with brass cap,
 marked
 T 3 N in N. half,
 R 5 W S 1 in NW.,
 R 4 W S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.

Land, rolling desert.
 Soil, gravelly; 2nd rate.
 Timber, palo verde and iron wood.
 Undergrowth, greasewood.

North, bet. secs. 1 and 6,
 over broken and hilly desert, through scattering scrub
 timber and dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 1 in W., and
 S 6 in E. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.

Chains

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of Tps. 3 and 4 N., Rs. 4 and 5 W., with brass cap, marked

T 4 N in N. half,
T 3 N in S. half,
R 5 W S 36 in NW.,
R 4 W S 31 in NE.,
S 6 in SE.; and
S 1 in SW. quadrant; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

Land, broken and hilly desert.
Soil, coarse gravel and sand; 2nd and 3rd rate.
Timber, scattering palo verde and iron wood.
undergrowth, greasewood and catclaw.

1st Guide Meridian West, through T 4 N.

From the cor. of Tps. 3 and 4 N., Rs. 4 and 5 W., here-
inbefore described,

North, bet. secs. 31 and 36,
over rolling mountainous land, through dense undergrowth.

3.10 Wash, 15 lks. wide, course W.
6.00 Top of low spur extends W.
12.90 Draw, 20 lks: wide, course W.
16.00 Top of spur extends W.
25.00 Leave broken country, and enter Hassayampa valley; border
25.25 bears N. 20° E. and S. 20° W.
40.00 Main channel, Hassayampa River, 200 lks wide, course S. 20° W.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$ in N.,
S 31 in E., and
S 36 in W. half; and
1916 in S. rim;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor., from which
A windmill bears S. 83° W.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, with brass cap, marked

T 4 N in N. half,
R 5 W S 25 in NW.,
R 4 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrant; and
1916 in S. rim;

dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist.,
and raise a mound of earth, 4 ft. base, 2 ft. high,
W. of cor;

1st Guide Meridian West, through T 4 N.

Chains

Land, broken, to river, and valley land N. of same.
Soil, 2nd rate.

No timber.

Undergrowth, cactus, ocatillo, mesquite, palo verde,
greasewood and catclaw.

40.00

North, bet. secs. 25 and 30,
along river valley, through dense undergrowth.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
S 25 in W., and
S 30 in E. half; and
1916 in S. rim;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

76.10

Road bears NE. and SW.

80.00

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for cor. of secs. 19, 24, 25 and 30, with brass
cap, marked

T 4 N in N. half,
R 5 W S 24 in NW.,
R 4 W S 19 in NE.,
S 30 in SE., and
S 25 in SW. quadrant; and
1916 in S. rim;

dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and
raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land, river bottom.

Soil, sandy; 2nd rate.

No timber.

Undergrowth, mesquite, palo verde, cactus, catclaw, grease-
wood and sagebrush.

34.00

North, bet. secs. 19 and 24,
over river bottom land, through dense undergrowth.

40.00

Leave Hassayampa valley, and enter broken land.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$ in N.,
S 19 in E., and
S 24 in W. half; and
1916 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

65.08

Draw, 20 lks. wide, course E.

67.80

Point of spur extends E.

68.85

Draw, 15 lks. wide, course SE.

80.00

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for cor. of secs. 13, 18, 19 and 24, with brass
cap, marked

T 4 N in N. half,
R 5 W S 13 in NW.,
R 4 W S 18 in NE.,
S 19 in SE., and
S 24 in SW. quadrant; and
1916 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Land, river bottom for 34 chs., and broken for balance.
Soil, 2nd rate for 34 chs. and 4th rate for balance.

No timber.

Undergrowth, palo verde, mesquite, greasewood, catclaw,
cactus and sagebrush.

1st Guide Meridian West, through T. 4 N.

Chains

North, bet. secs. 13 and 18,
over broken land, through dense undergrowth.
6.00 Draw, 20 lks. wide, course E.
9.00 Point of low spur extends E.
12.20 Draw, 10 lks. wide, course E.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
S 13 in W., and
S 18 in E. half; and
1916 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.
46.00 Draw, 10 lks. wide, course E.
80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for cor. of secs. 7, 12, 13 and 18, with brass
cap, marked
T 4 N in N. half,
R 5 W S 12 in NW.,
R 4 W S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrant; and
1916 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Land, broken.

Soil, rocky; 4th rate.

No timber.

Undergrowth, mesquite, palo verde, catclaw, greasewood
and sagebrush.

North, bet. secs. 7 and 12,
over broken land, through dense undergrowth.
32.40 Main road bears E. and W.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
S 7 in E., and
S 12 in W. half; and
1916 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.
65.66 Dim road bears E. and W.
79.70 Same road bears NW. and SE.
80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for cor. of secs. 1, 6, 7 and 12, with brass
cap, marked
T 4 N in N. half,
R 5 W S 1 in NW.,
R 4 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrant; and
1916 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.
Land, broken.
Soil, stony; 4th rate.
No timber.
Undergrowth, mesquite, palo verde, catclaw, greasewood
and sagebrush.

North, bet. secs. 1 and 6,
over rolling land, through dense undergrowth.
17.80 Draw, 10 lks. wide, course W.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the

Chains

ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
S 1 in W., and
S 6 in E. half; and
1916 in S. rim;

70.25

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.
Intersect 1st St. Par. N., 16.93 chs. E. of the reestab-
lished standard $\frac{1}{2}$ sec. cor. of sec. 31, T. 5 N., R. 4 W.,
hereinafter described.

At point of intersection
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for closing cor. of Tps. 4 N., Rs. 4 and 5 W.,
with brass cap, marked

T 5 N R 4 W S 31 in N., and
T 4 N CC in S. half,
S 6 R 4 W in SE., and
S 1 R 5 W in SW. quadrant; and
1916 in S. rim;

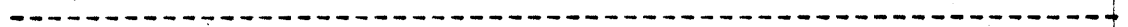
dig pits, 30x24x12 ins., crosswise on each line, E. and
W. 4 ft., and S. of post, 8 ft. dist.; and raise a mound
of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.

Land, rolling.

Soil, 2nd rate.

No timber.

Undergrowth, mesquite, palo verde, catclaw, greasewood and
sagebrush.



W. S. Grandjean

W. S. Grandjean

Chains

Resurveys hereinafter described were commenced on March 22, 1915, and executed by Woodbury Abbey, U. S. Surveyor, using transit No. 8588, Roy J. Gill, U. S. Transitman, using transit No. 8583; and Hans D. Voigt, U. S. Transitman, using transit No. 8393. The instruments are Young and Sons' light mountain transits, equipped with Smith solar attachments and full vertical circles. The horizontal limbs are provided with two double verniers, placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs and vertical circles.

All measurements made with steel tapes and clinometers.

Instruments Nos. 8588 and 8583 were approved by the assistant supervisor of surveys for Arizona and California, subject to satisfactory field tests, on Dec. 2, 1914; and instrument No. 8293, on Nov. 26, 1915. A record of the field tests of solar apparatus appears in book E. Lines run in resurvey of 1st St. Par. N. through portion of R. 17 and through Rs. 18 and 19 W. were originated by deflection from transit line run on E. bdy. of Tp. 4 N., R. 18 W., and checked by comparison with lines bet. Rs. 18 and 19 and bet. Rs. 19 and 20 W., described in Book "B."

Resurvey of G. and S. R. Base Line through R. 5 W. and resurvey of 1st St. Par. N. through portion of R. 2 and through Rs. 3, 4, 5 and 6 W., were originated by deflection from meridians determined by direct altitude observations on the sun.

The solar apparatus was used only when checked by such direct observations. The adjustments were frequently examined and maintained throughout the work by comparison of the results of solar observations with true meridians determined by such direct observations or by observations on Polaris.

The mean magnetic variation is 14°30'E.

Retracement and Resurvey of
G. and S. R. Base Line, through R. 5 W.

Preliminary to commencing the subdivision of T. 1 N., R. 5 W., I retrace and resurvey the G. and S. R. Base Line through R. 5 W., as follows:

By retracement of lines in T. 1 S., R. 5 W., it appears that the original standard cors. are identical with the closing cors. of sec. lines from the south. The standard cor. of Tps. 1 N., Rs. 4 and 5 W., identical with the cor. of Tps. 1 S., Rs. 4 and 5 W., is a post, firmly set in the ground, marked as cor. of 4 Tps. By retracement N. and S. from this cor., the old sec. cors. are found at approximately correct distances.

From this cor.,

West, on a random line, bet. secs. 1 and 36.

40.00 After diligent search, fail to find standard $\frac{1}{2}$ sec. cor.

80.18 Fall 2 lks. S. of the standard cor. of secs. 35 and 36, identical with the closing cor. of secs. 1 and 2, T. 1 S., R. 5 W., which is a malpais stone, 10x5x5 ins. above ground, marked and witnessed as described for

Retracement and Resurvey of
G. and S. R. Base Line, through R. 5 W.

Chains

original standard cor. by the surveyor general:
from which the old cor. of secs. 1, 2, 11 and 12, a
post, firmly set, marked and witnessed as described
by the surveyor general, bears S.0°07'E, 80.44
chs. dist. The $\frac{1}{4}$ sec. cor. bet. secs. 1 and 2 is missing.

The true course and distance for the mile bet. secs. 1 and
36 is therefore N.89°59'W., 80.18 chs.

40.00 West, on a random line, bet. secs. 2 and 35.
80.06 After diligent search fail to find standard $\frac{1}{4}$ sec. cor.
Fall 21 lks. N. of the standard cor. of secs. 34 and 35,
identical with the closing cor. of secs. 2 and 3, T. 1 S.,
R. 5 W., which is a malpais stone, 12x10x5 ins. above
ground, marked and witnessed as described for the original
standard cor. by the surveyor general.

Therefore the true course and distance for this mile is
S.89°51'W., 80.06 chs.

40.10 West, on a random line, bet. secs. 3 and 34.
Fall 40 lks. N. of the old standard $\frac{1}{4}$ sec. cor., which
is a partly decayed post, 3 ins. square, firmly set,
marked and witnessed as described by the surveyor gen-
eral.
Therefore the true course and distance for this half mile
is S.89°26'W., 40.10 chs.

39.98 From the standard $\frac{1}{4}$ sec. cor.,
West, on a random line, bet. secs. 3 and 34, (W. half.)
Fall 22 lks. S. of the old standard cor. of secs. 33 and
34, identical with the closing cor. of secs. 3 and 4,
T. 1 S., R. 5 W., which is a partly decayed post, 4 ins.
diam., firmly set, marked and witnessed as described by
the surveyor general.
Therefore the true course and distance for this half mile
is N.89°41'W., 39.98 chs.

40.00 West, on a random line, bet. secs. 4 and 33.
80.00 After diligent search, fail to find standard $\frac{1}{4}$ sec. cor.
Fall 4 lks. N. of the old standard cor. of secs. 32 and 33,
identical with the closing cor. of secs. 4 and 5, of
T. 1 S., R. 5 W.; which is a partly decayed post, 4 ins.
diam., firmly set, marked and witnessed as described
by the surveyor general.
Therefore the true course and distance for this mile is
S.89°58'W., 80.00 chs.

40.00 West, on a random line, bet. secs. 5 and 32.
Fall 13 lks. N. of the old standard $\frac{1}{4}$ sec. cor., which is
a partly decayed post, 3 ins. diam., firmly set, marked
and witnessed as described by the surveyor general.
Therefore the true course and distance for this half mile
is S.89°49'W., 40.00 chs.

40.00 From the standard $\frac{1}{4}$ sec. cor.,
West, on a random line, on W. half, between secs. 15 and 32.
(West. half)
Fall 5 lks. S. of the old standard cor. of secs. 31 and 32,
identical with the closing cor. of secs. 5 and 6, which
is a partly decayed post, 4 ins. diam., firmly set,

Retracement and Resurvey of
G. and S. R. Base Line, through R. 5 W.

Chains

marked and witnessed as described by the surveyor general.

Therefore the true course and distance for this half mile is N.89°56'W., 40.00 chs.

40.15

West, on a random line, bet. secs. 6 and 31, Fall 19 lks. S. of the standard 1/4 sec. cor., which is a partly decayed post, 3 ins. diam., firmly set, marked and witnessed as described by the surveyor general.

Therefore the true course and distance for this half mile is N.89°44'W., 40.15 chs.

40.05

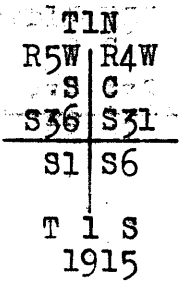
From the standard 1/4 sec. cor., West, on a random line, bet. W. halves of secs. 6 and 31. Fall 5 lks. S. of the reestablished standard cor. of Tps. 1 North, of Rs. 5 and 6 W., identical with the cor. of Tps. 1 S., Rs. 5 and 6 W., which is an iron post, 3 ins. diam., with brass cap, firmly set, marked and witnessed as described by the surveyor general.

Therefore the true course and distance for this half mile is N.89°56'W., 40.05 chs.

RESURVEY.

I return to the cor. of Tps. 1 N. & 1 S., Rs. 4 and 5 W., hereinbefore described, which I reestablish as follows:

With original post, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked

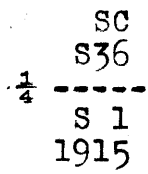


dig pits, 24x24x12 ins., on each line, N., E., and W., 4 ft., and S. of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2 1/2 ft. high, S. of cor.

40.09

Thence N.89°59'W., bet. secs. 1 and 36, over level desert, through dense undergrowth. Reestablish missing standard 1/4 sec. cor. as 1/4 sec. cor. common to secs. 1 and 36 as follows:

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with brass cap, marked



dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

65.00
74.50
80.18

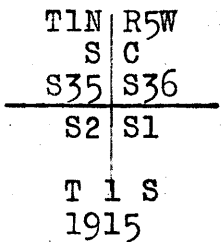
Road bears N. and S.
Road bears NE. and SW.

The old standard cor. of secs. 35 and 36 and cor. of secs. 1 and 2, hereinbefore described, which I reestablish as follows:

Retracement and Resurvey of
G. and S. R. Base Line, through R. 5 W.

Chains

With original stone, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked



dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

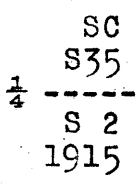
Land, level desert.
Soil, 1st and 2nd rate.
No timber.
Undergrowth, greasewood and sage.

9.75
30.00
40.03

S. $89^{\circ}51'W.$, bet. secs. 2 and 35, over level desert land, through dense undergrowth.

Road bears NW. and SE.
Hassayampa Wash, 3 chs. wide, course S.
Reestablish missing standard $\frac{1}{4}$ sec. cor. as cor. common to secs. 2 and 35, as follows:

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with brass cap, marked

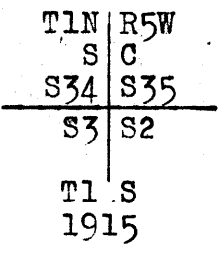


dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

70.00
80.06

Wash, course S.
The old standard cor. of secs. 34 and 35 and cor. of secs. 2 and 3, hereinbefore described, which I reestablish as follows:

With original post, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked



and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, level desert.
Soil, 1st and 2nd rate.
No timber.
Undergrowth, greasewood and sage.

39.60

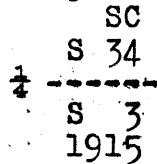
S. $89^{\circ}26'W.$, bet. secs. 3 and 34, over level desert land, through dense undergrowth.
Road bears N. and S.

Retracement and Resurvey of
G. and S. R. Base Line, through R. 5 W.

Chains

40.10 The old standard $\frac{1}{4}$ sec. cor., hereinbefore described, which I reestablish as $\frac{1}{4}$ sec. cor. common to secs. 3 and 34, as follows:

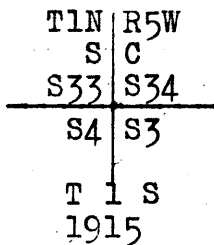
With original post, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with brass cap, marked



dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

39.98 Thence N.89°41'W., bet. W. halves of secs. 3 and 34. The old standard cor. of secs. 33 and 34 and cor. of secs. 3 and 4, hereinbefore described, which I reestablish as follows:

With original post, set an iron post, 3 ft. long, 3 ins. diam. 24 ins. in the ground, with brass cap, marked

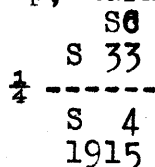


dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level desert.
Soil, 2nd rate.
No timber.
Undergrowth, greasewood and sage.

40.00 S.89°58'W., bet. secs. 4 and 33, over level desert land, through dense undergrowth. Reestablish missing standard $\frac{1}{4}$ sec. cor. as $\frac{1}{4}$ sec. cor. common to secs. 4 and 33, as follows:

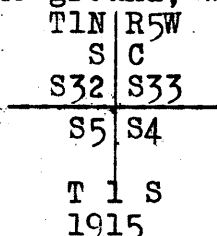
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with brass cap, marked



dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

52.00 Phoenix-California road bears NW. and SE.
80.00 The old standard cor. of secs. 32 and 33 and cor. of secs. 4 and 5, hereinbefore described, which I reestablish as follows:

With original post, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked



dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Retracement and Resurvey of
G. and S. R. Base Line, through R. 5 W.

Chains

Land, level desert.
Soil, 1st rate.
No timber.
Undergrowth, greasewood, sage and cactus.

40.00

S.89°49'W., bet. secs. 5 and 32, over level desert land, through dense undergrowth.
The old standard $\frac{1}{4}$ sec. cor., hereinbefore described, which I reestablish as $\frac{1}{4}$ sec. cor. common to secs. 5 and 32, as follows:
With original post, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with brass cap, marked

SC
S32
$\frac{1}{4}$ -----
S 5
1915

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

32.60
39.70
40.00

Thence N.89°56'W., bet. W. halves of secs. 5 and 32.
Road bears N. and S.
Wash, course N.
The old standard cor. of secs. 31 and 32 and cor. of secs. 5 and 6, hereinbefore described, which I reestablish as follows:
With original post, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked

T1N	R5W
S	C
S31	S32
S6	S5
T 1 S	
1915	

dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level desert.
Soil, 1st and 2nd rate.
No timber.
Undergrowth, greasewood and sage.

40.15

N.89°44'W., on S. bdy. of sec. 31, over level desert land, through dense undergrowth.
The old standard $\frac{1}{4}$ sec. cor., hereinbefore described, which I reestablish as $\frac{1}{4}$ sec. cor. common to secs. 6 and 31, as follows:
With original post, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with brass cap, marked

SC
S31
$\frac{1}{4}$ -----
S 6
1915

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

40.05

Thence N.89°56'W., bet. W. halves of secs. 6 and 31.
The cor. of Tps. 1 N. and 1 S., Rs. 5 and 6 W., hereinbefore described.
Land, level desert.
Soil, 1st and 2nd rate.
No timber. Undergrowth, greasewood and sage.

Independent Resurvey of 1st St. Par. N., through Portion of R. 17 W. Chains

Preliminary to the subdivision of Tps. 4 N., Rs. 18 and 19 W., I retrace the N. bdy., which I find out in alignment, with many of the old cors. nearly or quite obliterated. As the townships N. and S. of the line have not been subdivided, I resurvey the 1st. St. Par. N., as follows:

I begin at the standard cor. of secs. 31 and 32, T. 5 N., R. 17 W., which is a porphyry stone, 8x6x6 ins. above ground, marked and witnessed as described by the surveyor general.

At this cor. I turn off from the meridian an angle of 89°59' W. of S., thence S. 89°59' W., on the secant, S. of sec. 31, over rough mountainous land, through scattering undergrowth, and scrub timber.

23.70

Spur, 170 ft. above standard sec. cor., extends N.

37.70

Spur extends N.; desc.

40.00

Measurement by two sets of chainmen being identical, at Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard 1/4 sec. cor., with brass cap, marked

SC 1/4 S 31 in N. half, and 1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. No trace of old cor.

52.30

Continue descent from cor. Draw, 175 ft. below spur noted at 37.70 chs., course N.; Asc. 125 ft. to

57.25

Top of rocky spur extends N.; desc. 50 ft. to

63.11

Draw, course N.; asc. 580 ft. to

80.00

Measurements of 80.00 chs. by two sets of chainmen being identical,

N. 3 lks. from the secant Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in ground for reestablished standard cor. of Tps. 5 N., Rs. 17 and 18 W., with brass cap, marked

SC T 5 N in N. half, R 18 W S 36 in NW., and R 17 W S 31 in NE. quadrant; and 1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

No trace of old cor.

Land, rough and mountainous.

Soil, 3rd and 4th rate.

Timber, paloverde and catclaw.

Undergrowth, greasewood and cactus.

Resurvey of 1st St. Par. N., through Range 18 West.

Chains

AT my station, which is 3 lks. S. of the reestablished standard cor. of Tps. 5 N., Rs. 17 and 18 W., hereinbefore described, I deflect an angle of $0^{\circ}03'27''$ to the N., Thence,

N. $89^{\circ}58'W.$, on the secant; S. of sec. 36, over rough mountainous land, through dense undergrowth. Desc. NW. slope.

20.00 Wash, course N.; asc. NE. slope.

27.00 Ridge bears NE. and SW.; desc. SW. slope.

36.75 As it is impracticable, on account of the rugged and precipitous character of the mountains, to chain farther on this line,

measurement by two sets of chainmen being identical,

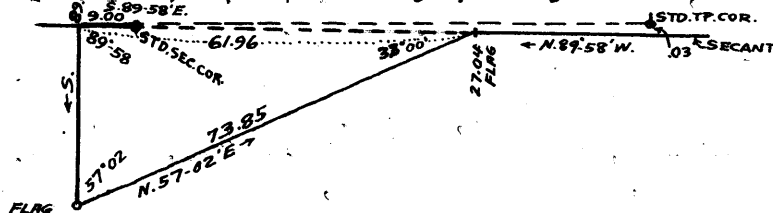
N. $\frac{1}{4}$ lk. from the secant,

Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for witness cor. to standard $\frac{1}{4}$ sec. cor. (no cor. or witness cor. originally established), with brass cap, marked

WC in W. half,
SC $\frac{1}{4}$ S 36 in N. half, and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

27.04 I return to a point on the secant and set a flag at (counted from the standard Tp. cor.), from which point I place flag on the secant N. $89^{\circ}58'W.$, whence I set a second flag S., from which flag at 27.04 chs. bears N. $57^{\circ}02'E.$ I measure the line between these two stations to be 73.85 chs. (measurements by two sets of chainmen being identical); from which I compute the distance to flag on the secant base $x \sin 57^{\circ}02' \times \operatorname{cosec} 89^{\circ}58' = 61.96$ chs.; which gives for the distance N. $89^{\circ}58'W$ of the Standard Tp. cor., $27.04 + 61.96, = 89.00$ chs.



89.00 I measure back S. $89^{\circ}58'E.$, on the secant, 9.00 chs. to
80.00 (counted from the standard Tp. cor.) and

Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 35 and 36, (no cor. or witness cor. having been originally established), with brass cap, marked

SC in N. half,
T 5 N S 35 IN NW., and
R 18 W S 36 in NE. quadrant; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

Land rough and mountainous.

Soil, 4th rate.

No timber.

Undergrowth, cactus, greasewood and mesquite.

N. $89^{\circ}59'W.$, on the secant, through sec. 35, over rough mountainous land, through scattering scrub timber and dense undergrowth.

Desc. SW. slope to

9.00 Thence continue descent 200 ft. (from this station) to

22.00 Wash, course S.; asc. SE. slope 360 ft. to

36.00 Saddle in ridge, which bears NE. and SW.; desc. NW. slope 165 ft. to

Resurvey of 1st St. Par. N., through R.18 W.

Chains	
40.00	Point for standard $\frac{1}{4}$ sec. cor. falls in wash, course N., where it would be liable to destruction by floods.
40.25	Therefore at measurements by two sets of chainmen being identical, S. 1 lk. from the secant, Set an iron post, 3 ft. long, 1 in. diam., in mound of stone for witness cor. to reestablished std. $\frac{1}{4}$ sec. cor., with brass cap, marked WC in E., and SC $\frac{1}{4}$ S 35 in N. half, and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground. No trace of old cor.
48.00	Asc. NE. slope 85 ft. to
76.00	Spur extends N.; desc. NW. slope 610 ft. to
76.00	Enter level land.
80.00	Measurements by two sets of chainmen being identical, at S. 2 lks. from the secant Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 34 and 35, with brass cap, marked SC in N. half, T 5 N S 34 in NW., and R 18 W S 35 in NE. quadrant; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. No trace of old cor. Land, mountainous. Soil, 4th rate. Timber, paloverde, Undergrowth, mesquite, greasewood and cactus.

18.70	Wash, 12 lks. wide, course NW..
34.80	Wash, 30 lks. wide, course NW.
40.00	Measurements by two sets of chainmen being identical, reestablish standard $\frac{1}{4}$ sec. cor. as follows: S. 3 lks. from the secant Reset original standard $\frac{1}{4}$ sec. cor., which is a porphyry stone, 22x10x8 ins., 16 ins. in the ground, marked SC $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.00	Measurements by two sets of chainmen being identical, reestablish standard cor. of secs. 33 and 34 as follows: S. 3 lks. from the secant Reset original cor., which is a porphyry stone, 20x10x10 ins., 15 ins. in the ground, marked SC on N.; with 3 grooves on E. and 3 on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Land, nearly level desert. Soil, 2nd rate. Timber, palo verde and catclaw. Undergrowth, greasewood and cactus.

Resurvey of 1st St. Par. N., through R. 18 W.

Chains

- West, ---, on the secant, through sec. 33,
over slightly broken desert, through scattering timber
and undergrowth.
- 12.00 Wash, 30 lks. wide, course NW.
- 40.00 Measurements by two sets of chainmen being identical,
S. 3 lks. from the secant, reestablish standard $\frac{1}{4}$ sec. cor.
as follows:
Reset original cor., which is a malpais stone, 16x10x8 ins.,
11 ins. in the ground, marked SC $\frac{1}{4}$ on the N. face;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor.
- 64.00 Draw, course NW.
- 80.00 Measurements by two sets of chainmen being identical,
S. 2 lks. from the secant
reestablish standard cor. of secs. 32 and 33 as follows:
Reset original cor., which is a porphyry stone, 22x8x8 ins.,
16 ins. in the ground, marked SE on N.; with 4 grooves
on E. and 2 on W. face; and raise a mound of stone, 2
ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.;
Land, slightly broken.
Soil, 3rd rate.
Timber, paloverde, and catclaw.
Undergrowth, greasewood and cactus.
-
- S. 89° 59' W., on the secant, through sec. 32,
over level desert, through scrub timber and undergrowth.
- 40.00 Measurements by two sets of chainmen being identical,
S. 1 lk. from the secant, reestablish standard $\frac{1}{4}$ sec. cor.
as follows:
Reset original stone, which is a granite stone, 16x12x10
ins., 11 ins. in the ground, marked SC $\frac{1}{4}$ on the N. face;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor.
- 41.29 Old road bears NE. and SW.
- 44.00 Wash, 2 chs. wide, course NW.
- 80.00 Measurements by two sets of chainmen being identical,
Reestablish standard cor. of secs. 31 and 32 as follows:
Reset original cor., which is a basalt stone, 16x12x12 ins.,
11 ins. in the ground, marked SC on N.; with 5 grooves
on the E. and 1 on the W. face; and raise a mound of
stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
Land, level desert.
Soil, gravelly and rocky; 2nd and 3rd rate.
Timber, paloverde.
Undergrowth, greasewood, sage and cactus.
-
- S. 89° 59' W., on the secant, S. of sec. 31,
over level desert land, through scattering timber and
dense undergrowth.
- 30.50 Telephone line bears NE. and SW.
- 31.00 Bouse road bears NE. and SW.
- 40.00 Measurements by two sets of chainmen being identical,
N. 1 lk. from the secant, reestablish standard $\frac{1}{4}$ sec. cor.
as follows:
Reset original cor., which is a malpais stone, 20x14x10 ins.,
15 ins. in the ground; marked SC $\frac{1}{4}$ on N. face; and
raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of
cor.
- 74.00 Wash 50 lks. wide, course NW.
- 80.00 Measurements by two sets of chainmen being identical,
reestablish standard cor. of Tps. 5 N., Rs. 18 and 19
W., as follows: N. 3 lks. from the secant
Reset original cor., which is a malpais stone, 22x8x6 ins.,
16 ins. in the ground; marked SC 5 N on N., 18 W. on E.,
and 19 W on W. face; with 6 grooves on N., E. and W. faces;

Resurvey of 1st St. Par. N., through R. 18 W.

Chains

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 Land, level desert.
 Soil, gravelly; 2nd rate.
 Timber, paloverde and catclaw.
 Undergrowth, greasewood, sage and cactus.

Resurvey of 1st St. Par. N., through R. 19 W.

At the point last established on the secant, which is 3
 lks. S. of the reestablished standard cor. of Tps.
 5 N., Rs. 18 and 19 W., hereinbefore described, I deflect
 an angle of 0°03'27" to the N., Thence

N.89°58'W., on the secant, S. of sec. 36,
 over level desert land, through scattering scrub timber
 and dense undergrowth.
 40.00 Measurements by two sets of chainmen being identical,
 reestablish standard ¼ sec. cor. as follows:
 N. 1 lk. from the secant
 Reset original cor., which is a malpais stone, 21x8x6 ins.,
 16 ins. in the ground, marked SC ¼ on N. face; and
 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of
 cor.
 80.00 Measurements by two sets of chainmen being identical,
 reestablish the standard cor. of secs. 35 and 36 as
 follows:
 Reset original cor., which is a malpais stone, 21x10x6 ins.,
 16 ins. in the ground, marked SC on N.; with 1 groove on
 E. and 5 on W. face; and raise a mound of stone, 2 ft.
 base, 1½ ft. high, N. of cor.
 Soil, gravelly; 2nd rate.
 Land, level desert.
 Timber, scrub paloverde and catclaw.
 Undergrowth, greasewood and cactus.

N.89°59'W., on the secant, through sec. 35,
 over level desert land, through scattering scrub timber
 and dense undergrowth.
 26.50 Old road bears NE. and SW.
 40.00 Measurements by two sets of chainmen being identical
 reestablish standard ¼ sec. cor. as follows:
 S. 1 lk. from the secant
 Reset original cor., which is a malpais stone, 24x10x8 ins.,
 18 ins. in the ground, marked SC ¼ on the N. face,
 and raise a mound of stone,
 2 ft. base, 1½ ft. high, N. of cor.
 80.00 Measurements by two sets of chainmen being identical,
 reestablish the standard cor. of secs. 34 and 35 as
 follows:
 S. 2 lks. from the secant
 Reset original cor., which is a granite stone, 24x10x8 ins.,

Resurvey of 1st St. Par. N., through R. 19 W.

Chains

16 ins. in the ground, marked SC on N.; with 2 grooves on E. and 4 on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, level desert.

Soil, gravelly; 2nd rate.

Timber, scrub paloverde and catclaw.

Undergrowth, greasewood, sage and cactus.

N. $89^{\circ}59'$ W., on the secant, through sec. 34, over level desert, through scattering timber and dense undergrowth.

40.00 Measurement by two sets of chainmen being identical, reestablish standard $\frac{1}{4}$ sec. cor. as follows:

S. 3 lks. from the secant

Reset original cor., which is a malpais stone, 22x8x6 ins., 16 ins. in the ground; marked SC $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

80.00 Measurements by two sets of chainmen being identical, reestablish the standard cor. of secs. 33 and 34 as follows:

S. 3 lks. from the secant

Reset original cor., which is a malpais stone, 22x8x8 ins., 16 ins. in the ground; marked SC on N.; with 3 grooves on E. and 3 on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, level desert.

Soil, gravelly; 2nd rate.

Timber, scrub paloverde and catclaw.

Undergrowth, greasewood, sage and cactus.

West, on the secant, through sec. 33, over level desert, through scattering timber and dense undergrowth.

14.04 Old road bears NW. and SE.

40.00 Measurement by two sets of chainmen being identical, reestablish standard $\frac{1}{4}$ sec. cor. as follows:

S. 3 lks. from the secant

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with brass cap, marked SC $\frac{1}{4}$ S 33 in N. half, and 1915 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

No trace of old cor.

52.00 Wash, 150 lks. wide, course NW.

64.00 Wash, 2 chs. wide, course NW.

72.00 Wash, 3 chs. wide, course NW.

80.00 Measurements by two sets of chainmen being identical, reestablish the standard cor. of secs. 32 and 33 as follows:

S. 2 lks. from the secant

Reset original cor., which is a malpais stone, 22x8x6 ins., 16 ins. in the ground; marked SC on N.; with 4 grooves on E., and 2 on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, level desert.

Soil, gravelly; 2nd rate.

Timber, scrub paloverde and catclaw.

Undergrowth, greasewood, cactus and catclaw.

Resurvey of 1st St. Par. N., through R. 19 W.

Chains

S.89°59'W., on the secant, through sec. 32,
over level desert, through scattering timber and dense
undergrowth.

28.00

Old road bears NE. and SW.

40.00

Measurement by two sets of chainmen being identical,
reestablish standard $\frac{1}{4}$ sec. cor. as follows:

S. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, with brass cap, marked

SC $\frac{1}{4}$ S 32 in N. half; and

1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor.

No trace of old cor.

80.00

Measurements by two sets of chainmen being identical,
reestablish the standard cor. of secs. 31 and 32 as
follows:

Reset original cor., which is a granite stone, 22x8x6 ins.,
16 ins. in the ground,; marked SC on N.; with 5 grooves
on E. and 1 on W. face; and raise a mound of stone, 2
ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Land, level desert.

Soil, gravelly; 2nd rate.

Timber, scrub paloverde and catclaw.

Undergrowth, greasewood, sage and cactus.

28.00

S.89°59'W., on the secant, S. of sec. 31,
over rolling desert, through scattering scrub timber and
dense undergrowth.

40.00

Wash, 2 chs. wide, course N.

Measurements by two sets of chainmen being identical,
reestablish standard $\frac{1}{4}$ sec. cor. as follows:

N. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, with brass cap, marked

SC $\frac{1}{4}$ S 31 in N. half, and

1915 in S. rim;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor.

80.00

Measurements by two sets of chainmen being identical,
reestablish the standard cor. of Tps. 5 N., Rs. 19 and
20 W., as follows:

N. 3 lks. from the secant

Reset original cor., which is a granite stone, 22x8x8 ins.,
16 ins. in the ground; marked SC 5N on N., 18 W on E.,
and 19 W on W. face; with 6 grooves on N., E., and W.
faces; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft.
high, N. of cor.

Old cor. position bears S.64°26'W., 9.94 chs. distant.

Land, rolling desert.

Soil, gravelly; 2nd rate.

Timber, scrub paloverde and catclaw.

Undergrowth, greasewood and cactus.

Independent Resurvey of First Standard Parallel North, through a
Portion of R. 2 W., and through Rs. 3, 4, 5 and 6 W.

Chains/.

Preliminary to commencing the subdivision of Tps. 4 N.,
Rs. 3, 4, 5 and 6 W., I retrace the 1st St. Par. N.,
and find it out of limits in alinement and measurement,
with many of the old cors. nearly or quite obliterated.
As the townships N. and S. of the line have not been
subdivided, I resurvey the line through portion of R. 2
W., and through Rs. 3, 4, 5 and 6 W., destroying all
evidence of the old cors., as follows:

Resurvey of 1st St. Par. N., through Portion of R. 2 W.

I begin at the closing cor. of Tps. 4 N., Rs. 2 and 3 W.,
the old cor. post being missing, but cor. position being
perpetuated by well defined pits and mound of earth;
from which

the identified cor. position of standard $\frac{1}{4}$ sec. cor. of
sec. 31, T. 5 N., R. 2 W., marked by well defined pits
and mound, bears N.89°E., 24.70 chs. dist.; and
the identified cor. position of the standard cor. of
Tps. 5 N., Rs. 2 and 3 W., marked by well defined pits
and mound, bears S.89°W., 15.30 chs. dist.

I reestablish the closing cor. as described in the notes of
the retracement and resurvey of part of the East bdy of
T. 4 N., R. 3 E., in Book "B."

At my station, which is 3 lks. S. of the closing cor., I
turn off from the meridian an angle of 89°59.5' W. of
S., thence

S.89°59.5' W., on the secant, S. of sec. 31,
over rolling land, through dense undergrowth.

15.30 Measurements by two sets of chainmen being identical,
N. 3 lks. from the secant

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for reestablished standard cor. of Tps. 5 N.,
Rs. 2 and 3 W., with brass cap, marked

SC R 5 N in N. half,
R 3 W S 36 in NW., and
R 2 W S 31 in NE. quadrant; and
1916 in S. rim;

dig pits, 30x24x12 ins. crosswise on each line, E. and W.
4 ft., and N. of post, 8 ft. dist.; and raise a mound of
earth, 5 ft. base, 2½ ft. high, N. of cor.

Land, rolling.

Soil, 2nd rate.

No timber.

Undergrowth, paloverde, catclaw, mesquite, greasewood,
cactus and sagebrush.

Resurvey of 1st St. Par. N., through Range 3 West.

At the point last determined on the secant, which is 3 lks.
S. of the reestablished standard cor. of Tps. 5 N.,
Rs. 2 and 3 W., hereinbefore described, I deflect an
angle of 0°03'27" to the N., thence

N.89°58'W., on the secant, S. of sec. 36,
over rolling land, through scattering undergrowth.

38.70 Road bears NW. and SE.

Resurvey of 1st St. Par. N., through R. 3 W.

Chains

40.00 Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point
 By 1st set, 40.01 chs.
 By 2nd set, 39.99 chs.; the mean of which is N. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 36 in N. half, and
 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

46.60 Dim road bears N. and S.

64.80 Road bears NW. and SE.

80.00 Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point
 By 1st set, 79.98 chs.
 By 2nd. set, 80.02 chs.; the mean of which is
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 35 and 36, with brass cap, marked
 SC in N; half,
 T 5 N S 35 in NW., and
 R 3 W S 36 in NE. quadrant; and
 1916 in S. rim;
 dig pits, 24x18x12 ins., crosswise on each line, E. and W., 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, rolling.

Soil, 2nd rate.

No timber.

Undergrowth, paloverde, catclaw, mesquite, cactus, greasewood and sagebrush.

31.50 N. 89° 59' W., on the secant, through sec. 35,
 over rolling land, through dense undergrowth.

40.00 Toad bears N. and S.

Measurements by two sets of chainmen being identical, S. 1 lk. from the secant

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked

SC $\frac{1}{4}$ S 35 in N. half, and
 1916 in S. rim;

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

60.84 Draw, 30 lks. wide, course SE.

78.40 Road bears NW. and SE.

80.00 Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point
 By 1st set, 79.98 chs.
 By 2nd set, 80.02 chs.; the mean of which is

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 34 and 35, with brass cap, marked

SC in N. half,
 T 5 N S 34 in NW., and
 R 3 W S 35 in NE. quadrant; and
 1916 in S. rim;

dig pits, 24x18x12 ins., crosswise on each line, E. and W. of post, 3 ft., and N. 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, rolling.

Soil, 2nd rate.

No timber. Undergrowth, paloverde, cactus, catclaw, mesquite, greasewood and sagebrush.

Resurvey of 1st St. Par. N., through R. 3 W.

Chains

40.00 N. 89° 59' W., on the secant, through sec. 34, over rolling land, through dense undergrowth. Difference between measurements of 40.00 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 S. 3 lks. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 34 in N. half, and 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
 54;80 Draw, 20 lks. wide, course S.
 64.00 Road bears N. and S.
 75.47 Road bears N. and S.
 77.20 Road bears N. and S.
 80.00 Measurements of 80.00 chs. by two sets of chainmen being identical, S. 3 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 33 and 34, with brass cap, marked
 SC in N. half,
 T 5 N S 33 in NW., and
 R 3 W S 34 in NE. quadrant; and 1916 in S. rim;
 dig pits, 24x18x12 ins., crosswise on each line, E. and W. of post, 3 ft., and N. 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
 Land, rolling.
 Soil, 2nd rate.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw, cactus, greasewood and sagebrush.

40.00 West, on the secant, through sec. 33, over rolling land, through dense undergrowth. Measurements by two sets of chainmen being identical, S. 3 lks. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 33 in N. half, and 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
 80.00 Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point
 By 1st set, 79.98 chs.
 By 2nd set, 80.02 chs.; the mean of which is S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 32 and 33, with brass cap, marked
 SC in N. half,
 T 5 N S 32 in NW., and
 R 3 W S 33 in NE. quadrant; and 1916 in S. rim;
 dig pits, 24x18x12 ins., crosswise on each line, E. and W., 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
 Land, rolling.
 Soil, 2nd rate.
 No timber. Undergrowth, cactus, mesquite, paloverde, catclaw, greasewood and sagebrush.

Resurvey of 1st St. Par. N., through R. 3 W.

Chains

S. 89°59' W., on the secant, through sec. 32, over rolling land, through dense undergrowth. Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point
 By 1st set., 39.99 chs.
 By 2nd set, 40.01 chs.; the mean of which is
 40.00 S. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 32 in N. half, and
 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 46.70 Road bears NE. and SW.
 80.00 Measurements by two sets of chainmen being identical,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 31 and 32, with brass cap, marked
 SC in N. half,
 T 5 N S 31 in NW., and
 R 3 W S 32 in NE. quadrant; and
 1916 in S. rim;
 dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Land, rolling.
 Soil, 2nd rate.
 No timber.
 Undergrowth, cactus, mesquite, catclaw, paloverde, greasewood and sagebrush.

S. 89°59' W., on the secant, S. of sec. 31, over rolling land, through dense undergrowth.
 40.00 Measurements by two sets of chainmen being identical,
 N. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 31 in N. half, and
 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 80.00 Measurements by two sets of chainmen being identical,
 N. 3 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of Tps. 5 N., Rs. 3 and 4 W., with brass cap, marked
 SC T 5 N in N. half,
 R 4 W S 36 in NW., and
 R 3 W S 31 in NE. quadrant; and
 1916 in S. rim;
 dig pits, 30x24x12 ins., crosswise on each line, E. and W. 4 ft., and N. of post, 8 ft. dist., and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. of cor.
 Land, rolling.
 Soil, 2nd rate.
 No timber.
 Undergrowth, catclaw, mesquite, paloverde, sagebrush and greasewood.

Resurvey of 1st St. Par. N., through R. 4 W.

Chains

- At the last point determined on the secant, which is 3 lks. S. of the reestablished cor. of Tps. 5 N., Rs. 3 and 4 W., I deflect an angle of $0^{\circ}03'27''$ to the N.,
- Thence
N. $89^{\circ}58'$ W., on the secant, S. of sec. 36,
over rolling land, through dense undergrowth.
Difference between measurements of 40.00 chs. by two sets of chainmen is 3 lks.; position of middle point
By 1st set, 39.985 chs.
By 2nd set, 40.015 chs.; the mean of which is
- 40.00 N. 1 lk. from the secant
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 36 in N. half, and
1916 in S. rim;
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point
By 1st set, 80.01 chs.
By 2nd set, 79.99 chs.; the mean of which is
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 35 and 36, with brass cap, marked
SC in N. half,
T 5 N S 35 in NW., and
R 4 W S 36 in NE. quadrant; and
1916 in S. rim;
dig pits, 24x18x12 ins., crosswise on each line, E. and W. of post, 3 ft., and N. 7 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Land, rolling.
Soil, 2nd rate.
No timber.
Undergrowth, mesquite, paloverde, sagebrush, catclaw, cactus and greasewood.
-
- N. $89^{\circ}59'$ W., on the secant, through sec. 35,
over rolling land, through scattering undergrowth.
Difference between measurements of 40.00 chs. by two sets of chainmen is 3 lks.; position of middle point
By 1st set, 39.985 chs.
By 2nd set, 40.015 chs.; the mean of which is
- 40.00 S. 1 lk. from the secant
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 35 in N. half, and
1916 in S. rim;
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 47.20 Road bears NW. and SE.
Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point
By 1st set, 79.98 chs.
By 2nd set, 80.02 chs.; the mean of which is
- 80.00 S. 2 lks. from the secant
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 34 and 35, with brass cap, marked
SC in N. half,
T 5 N S 34 in NW., and
R 4 W S 35 in NE. quadrant; and
1916 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Resurvey of 1st St. Par. N., through R. 4 W.

Chains

Land, rolling.
Soil, 3rd rate.
No timber.
Undergrowth, mesquite, sagebrush, cactus, paloverde, catclaw and greasewood.

1.30 N. 89°59'W., on the secant, through sec. 34, over rolling land, through scattering undergrowth. Enter breaks on edge of river valley. Desc. gradually through dense undergrowth.
Difference between measurements of 40.00 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 S. 3 lks. from the secant
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
S $\frac{1}{4}$ S 34 in N. half, and
1916 in S. rim;
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

45.50 Draw, 15 lks. wide, course S.
Difference between measurements of 80.00 chs. by two sets of chainmen is 3 lks.; position of middle point
By 1st set, 79.985 chs.
By 2nd set, 80.015 chs.; the mean of which is

80.00 S. 3 lks. from the secant
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 33 and 34, with brass cap, marked
SC in N. half,
T 5 N S 33 in NW., and
R 4 W S 34 in NE. quadrant; and
1916 in S. rim;
dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, rolling.
Soil, 2nd rate.
No timber.
Undergrowth, cactus, catclaw, mesquite, paloverde, greasewood and sagebrush.

40.00 West, on the secant, through sec. 33, over level land, through dense undergrowth.
Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point
By 1st set, 39.99 chs.
By 2nd set, 40.01 chs.; the mean of which is

51.70 S. 3 lks. from the secant
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
SC $\frac{1}{4}$ S 33 in N. half, and
1916 in S. rim;
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

63.50 Enter Hassayampa valley; border bears N. and S.
Main channel, Hassayampa wash, 200 lks. wide, course S.
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

Resurvey of 1st ST. Par. N., through R. 4 W.

Chains	
80.00	<p>S. 2 lks. from the secant Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 32 and 33, with brass cap, marked SC in N. half, T 5 N S 32 in NW., and R 4 W S 33 in NE. quadrant; and 1916 in S. rim; dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, level. Soil, 2nd rate. No timber. Undergrowth, catclaw, paloverde, mesquite and cactus.</p>
30.00	<p>S. 89°59'W., on the secant, through sec. 32, over rolling land, through dense undergrowth. Leave Hassayampa valley; border bears N. and S.; and asc. 45 ft. to</p>
33.40	<p>Top of spur extends SE.; desc. 35 ft. to</p>
39.00	<p>Draw, 20 lks. wide, course SE. Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point By 1st set, 39.98 chs. By 2nd set, 30.02 chs.; the mean of which is</p>
40.00	<p>S. 1 lk. from the secant Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 32 in N. half, and 1916 in S. rim; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3$\frac{1}{2}$ ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
47.92	<p>Head of draw, 10 lks. wide, course N.; asc. 40 ft. to</p>
54.90	<p>Top of low mesa; border bears N. and S.; thence over same. Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 79.99 chs. By 2nd set, 80.01 chs.; the mean of which is</p>
80.00	<p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 31 and 32; with brass cap, marked SC in N. half, T 5 N S 31 in NW., and R 4 W S 32 in NE. quadrant; and 1916 in S. rim; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Land, rolling. Soil, 4th rate. No timber. Undergrowth, paloverde, cactus, catclaw, mesquite, greasewood, ocatillo, and sagebrush.</p>
40.00	<p>S. 89°59'W., on the secant, S. of sec. 31, over rolling land, through dense undergrowth. Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 39.99 chs. By 2nd set, 40.01 chs.; the mean of which is N. 1 lk. from the secant Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked</p>

Resurvey of 1st St. Par. N., through R. 4 W.

Chains

SC $\frac{1}{2}$ S 31 in N. half, and
 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.
 and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.

69.10 Draw, 30 lks. wide, course S.
 76/40 Draw, 35 lks. wide, course S.
 Difference between measurements of 80.00 chs. by two sets
 of chainmen is 3 lks.; position of middle point
 By 1st set, 79.985 chs.
 By 2nd set, 80.015 chs.; the mean of which is

80.00 N. 3 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for reestablished standard cor. of Tps. 5 N.,
 Rs. 4 and 5 W., with brass cap, marked
 SC T 5 N in N. half,
 R 5 W S 36 in NW., and
 R 4 W S 31 in NE. quadrant; and
 1916 in S. rim;
 dig pits, 30x24x12 ins., crosswise on each line, E. and
 W. of post 4 ft., and N. 8 ft. dist.; and raise amound
 of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, N. of cor.
 Land, rolling.
 Soil, 2nd rate.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw, sagebrush and
 greasewood.

Resurvey of 1st St. Par. N., through R. 5 W.

At the last point determined on the secant, which is 3 lks.
 S. of the reestablished standard cor. of Tps. 5 N.,
 Rs. 4 and 5 W., I deflect an angle of $0^{\circ}03'27''$ to the
 N., thence

N. $89^{\circ}58'W.$, on the secant, S. of sec. 36,
 over rolling land, through dense undergrowth.
 Difference between measurements of 40.00 chs. by two sets
 of chainmen is 2 lks.; position of middle point
 By 1st set, 39.99 chs.
 By 2nd set, 40.01 chs.; the mean of which is

40.00 N. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for reestablished standard $\frac{1}{4}$ sec. cor., with
 brass cap, marked
 SC $\frac{1}{2}$ S 36 in N. half, and
 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.,
 and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.

66.30 Road to Vulture mine bears NW. and SE.
 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 an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for reestablished standard cor. of secs. 35 and 36,
 with brass cap, marked

Resurvey of 1st St. Par. N., through R. 5 W.

Chains

SC in N. half,
 T 5 N S 35 in NW., and
 R 5 W S 34 in NE. quadrant; and
 1916 in S. rim;
 dig pits, 24x18x12 ins., crosswise on each line, E. and
 W. 3 ft., and N. of post, 7 ft. dist.; and raise a mound
 of earth, 4 ft. base, 2 ft. high, N. of cor.
 Land, rolling.
 Soil, 4th rate.
 No timber.
 Undergrowth, mesquite, paloverde, greasewood, sagebrush
 and catclaw.

40.00 N. 89°59'W., on the secant, through sec. 35,
 Over rolling land, through dense undergrowth.
 Difference between measurements of 40.00 chs. by two sets
 of chainmen is 3 lks.; position of middle point
 By 1st set, 39.985 chs.
 By 2nd set, 40.015 chs.; the mean of which is
 S. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for reestablished standard $\frac{1}{4}$ sec. cor., with
 brass cap, marked
 SC $\frac{1}{4}$ S 35 in N. half, and
 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.,
 and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 64.60 Draw, 20 lks. wide, course S.
 Difference between measurements of 80.00 chs. by two sets
 of chainmen is 4 lks.; position of middle point.
 By 1st set, 79.98 chs.
 By 2nd set, 80.02 chs.; the mean of which is
 80.00 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for reestablished standard cor. of secs. 34 and
 35, with brass cap, marked
 SC in N. half,
 T 5 N S 34 in NW., and
 R 5 W S 35 in NE. quadrant; and
 1916 in S. rim;
 dig pits, 24x18x12 ins., crosswise on each line, E. and
 W. 3 ft., and N. of post, 7 ft. dist., and raise a mound
 of earth, 4 ft. base, 2 ft. high, N. of cor.
 Land, rolling.
 Soil, 2nd rate.
 No timber.
 Undergrowth, cactus, paloverde, greasewood, mesquite, cat-
 claw and sagebrush.

18.90 N. 89°59'W., on the secant, through sec. 34,
 over rolling land, through dense undergrowth.
 Draw, 15 lks. wide, course S.
 19.90 Draw, 25 lks. wide, course S.
 28.70 Road bears N. and S.
 35.50 Draw, 25 lks. wide, course S.
 Difference between measurements of 40.00 chs. by two sets
 of chainmen is 3 lks.; position of middle point
 By 1st. set, 39.985 chs.
 By 2nd set, 40.015 chs.; the mean of which is
 40.00 S. 3 lks. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for reestablished standard $\frac{1}{4}$ sec. cor., with
 brass cap, marked
 SC $\frac{1}{4}$ S 34 in N. half, and
 1916 in S. rim;

Resurvey of 1st St. Par. N., through R. 5 W.

Chains

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point
 By 1st set, 79.98 chs.
 By 2nd set, 80.02 chs.; the mean of which is

80.00 S. 3 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 26 ins. in the ground, for reestablished standard cor. of secs. 33 and 34, with brass cap, marked
 SC in N. half,
 T 5 N S 33 in NW., and
 R 5 W S 35 in NE. quadrants; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Land, rolling.
 Soil, rocky; 3rd rate.
 No timber.
 Undergrowth, paloverde, mesquite, catclaw, sagebrush, cactus and greasewood.

West, on the secant, through sec. 33, over rolling land, through dense undergrowth.

40.00 Measurements of 40.00 chs. by two sets of chainmen being identical, at
 S. 3 lks. from the secant

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard 1/4 sec. cor., with brass cap, marked
 SC 1/4 S 33 in N. half, and
 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

40.20 Draw, 35 lks. wide, course S.
 Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point
 By 1st set, 79.98 chs.
 By 2nd set, 80.02 chs.; the mean of which is

80.00 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 32 and 33, with brass cap, marked
 SC in N. half,
 R 5 N S 32 in NW., and
 R 5 W S 33 in NE. quadrant; and
 1916 in S. rim;
 dig pits, 24x18x12 ins., crosswise of each line, E. and W. 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, rolling.
 Soil, 2nd rate.
 Undergrowth, mesquite, paloverde, catclaw, sagebrush, cactus and greasewood.
 No timber.

S. 89°59' W., on the secant, through sec. 32, over rolling land, through dense undergrowth.

4.90 Road bears NE. and SW.
 Difference between measurements of 40.00 chs. by two sets of chainmen is 3 lks.; position of middle point
 By 1st set, 39.985 chs.
 By 2nd set, 40.015 chs.; the mean of which is

40.00 S. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the

Resurvey of 1st St. Par. N., through R. 5 W.

Chains	for reestablished $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 32 in N. half, and 1916 in S. rim; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
40.30	Draw, 15 lks. wide, course S. Difference between measurements of 80.00 chs. by two sets of chainmen is 3 lks.; position of middle point By 1st set, 80.015 chs. By 2nd set, 79.985 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 31 and 32, with brass cap, marked SC in N. half, T 5 N S 31 in NW., and R 5 W S 32 in NE. quadrant; and 1916 in S. rim; dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, rolling. Soil, 2nd rate. No timber. Undergrowth, mesquite, paloverde, cactus, catclaw, sage- brush and greasewood.

26.50	S. $89^{\circ}59'W.$, on the secant, S. of sec. 31, over rolling land, through dense undergrowth. Road bears N. and S.
29.70	Draw, 20 lks. wide, course S. Difference between measurements of 40.00 chs. by two sets of chainmen is 3 lks.; position of middle point By 1st set, 39.985 chs. By 2nd set, 40.015 chs.; the mean of which is
40.00	N. 1 lk. from the secant Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked SC $\frac{1}{4}$ S 31 in N. half, and 1916 in S. rim; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
73.50	Road bears N. $10^{\circ}E.$, and S. $10^{\circ}W.$
78.40	Draw, course S. $30^{\circ}E.$ Difference between measurements of 80.00 chs. by two sets of chainmen is 3 lks.; position of middle point By 1st set, 79.985 chs. By 2nd set, 80.015 chs.; the mean of which is
80.00	N. 3 lks. from the secant Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of Tps. 5 N., Rs. 5 and 6 W., with brass cap, marked SC T 5 N in N. half, R 6 W S 36 in NW., and R 5 W S 31 in NE. quadrant; and 1916 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Land, rolling. Soil, 2nd rate. No timber. Undergrowth, paloverde, mesquite, cactus, catclaw, sage- brush and greasewood.

Resurvey of 1st St. Par. N., through R. 6 W.

Chains

At the last point determined on the secant, which is 3 lks. S. of the reestablished standard cor. of Tps. 5 N., Rs. 5 and 6 W., I deflect an angle of $0^{\circ}03'27''$ to the N. Thence $N.89^{\circ}58'W.$, on the secant, S. of sec. 36, over rolling mesa, through dense undergrowth.

2.70 Draw, 15 lks. wide, course S.

40.00 Measurements by two sets of chainmen being identical, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 36 in N. half, and
 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

54.80 Dim road bears NE. and SW.

58.60 Draw, 20 lks. wide, course S.
 Difference bet. measurements of 80.00 chs. by two sets of chainmen is 1 lk.; position of middle point
 By 1st set, 80.005 chs.
 By 2nd set, 79.995 chs.; the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 35 and 36, with brass cap, marked
 SC in N. half,
 T 5 N S 35 in NW., and
 R 6 W S 36 in NE. quadrant; and
 1916 in S. rim;
 dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Land, rolling mesa.
 Soil, 2nd rate.
 No timber.
 Undergrowth, paloverde, mesquite, ocatillo, catclaw, sagebrush, cactus and greasewood.

N. $89^{\circ}59'W.$, on the secant, through sec. 35, over rolling mesa, through dense undergrowth.

19.50 Draw, 25 lks. wide, course SE.

40.00 Measurements by two sets of chainmen being identical, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 35 in N. half, and
 1916 in S. rim;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

80.00 Measurements by two sets of chainmen being identical, S. 2 lks. from the secant Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 34 and 35, with brass cap, marked
 SC in N. half,
 T 5 N S 34 in NW., and
 R 6 W S 35 in NE. quadrant; and
 1916 in S; rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Land, rolling mesa.
 Soil, 3rd rate.
 No timber.
 Undergrowth, mesquite, catclaw, paloverde, sagebrush, cactus, ocatillo and greasewood.

Resurvey of 1st St. Par. N., through R. 6 W.

Chains

N.89°59'W., on the secant, through sec.34,
 over rolling mesa, through dense undergrowth.
 24.70 Draw, 30 lks. wide, course SE.
 40.00 Measurements by two sets of chainmen being identical,
 S., 3 lks. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass
 cap, marked
 SC $\frac{1}{4}$ S 34 in N. half, and
 - 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 64.60 Road bears N.10°W., and S.10°E.
 68.70 Vulture-Independent Mine road bears N. and S.
 80.00 Measurements by two sets of chainmen being identical,
 S. 3 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for reestablished standard cor. of secs. 33 and
 34, with brass cap, marked
 SC in N. half,
 T 5 N S 33 in NW., and
 R 6 W S 34 in NE. quadrant; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 Land; rolling mesa.
 Soil, 3rd rate.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw, ocatillo, sage-
 brush and greasewood.

 West, on the secant, through sec. 33,
 over rolling land, through dense undergrowth.
 19.70 Road bears NE. and SW.
 26.90 Road bears N.60°E. and S.60°W.
 40.00 Measurements by two sets of chainmen being identical,
 S. 3 lks. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for reestablished standard $\frac{1}{4}$ sec. cor., with
 brass cap, marked
 SC $\frac{1}{4}$ S 33 in N. half, and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 80.00 Measurements by two sets of chainmen being identical,
 S. 2 lks. from the secant
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for reestablished standard cor. of secs. 32 and
 33, with brass cap, marked
 SC in N. half,
 T 5 N S 32 in NW., and
 R 6 W S 33 in NE. quadrant; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 Land, rolling.
 Soil, 3rd rate.
 No timber.
 Undergrowth, mesquite, palo verde, catclaw, sagebrush and
 greasewood.

 S.89°59'W., on the secant, through sec. 32,
 over rolling land, through dense undergrowth.
 13.00 Road bears NE. and SW.
 22.70 Draw, 50 lks. wide, course S.
 39.90 Draw, 50 lks. wide, course S.10°E.

Resurvey of 1st St. Par. N., through R. 6 W.

Chains

40.00 Measurements by two sets of chainmen being identical, S. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 32 in N. half, and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

50.00 Point of low spur extends S.

65.00 Draw, 15 lks. wide, course SE.

80.00 Measurements by two sets of chainmen being identical,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 31 and 32, with brass cap, marked
 SC in N. half,
 T 5 N S 31 in NW., and
 R 6 W S 32 in NE. quadrant; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, rolling.

Soil, 3rd rate.

No timber.

Undergrowth, mesquite, catclaw, palo verde, ocatillo, sagebrush, cactus and greasewood.

40.00 S89°59'W., on the secant, S. of sec. 31, over rolling land, through dense undergrowth.
 Measurements by two sets of chainmen being identical, N. 1 lk. from the secant
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., with brass cap, marked
 SC $\frac{1}{4}$ S 31 in N. half, and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

80.00 Measurements by two sets of chainmen being identical, N. 3 lks. from the secant,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of Tps. 5 N., Rs. 6 and 7 W., with brass cap, marked
 SC T 5 N in N. half,
 R 7 W S36 in NW., and
 R 6 W S31 in NE. quadrant; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, rolling.

Soil, 3rd rate.

No timber.

Undergrowth, palo verde, mesquite, catclaw, ocatillo, sagebrush, cactus and greasewood.

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Resurvey of 1st Guide Meridian W., through Tps. 1 and 2 North.

Chains

Resurvey commenced April 17, 1915, and executed by Woodbury Abbey, U. S. Surveyor, using a Young and Sons' light mountain transit No. 8588, and Roy J. Gill, U. S. Transitman, using a Young and Sons' light mountain transit No. 8583. Both instruments have Smith Solar attachments and full vertical circles. The horizontal limbs are provided with two double verniers, placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs and vertical circles.

All measurements made with steel tapes and clinometers.

The instruments were approved, subject to satisfactory field tests, by the assistant supervisor of surveys, on Dec. 2, 1914. The adjustments were examined, and level and collimation errors corrected at the beginning of the survey. Record of field tests appears in Book "B".

All lines were deflected from the true meridian as determined by solar observations at the standard cor. of Ts. 1 N., Rs. 4 and 5 W., described in Book "B", and at the cor. of Ts. 1 and 2 N., Rs. 4 and 5 W, a record of which follows herein.

The magnetic bearing of the true meridian, at 8h 00m a.m., l.m.t., is N. 14° 30' W. The angle thus determined gives the magnetic declination 14° 30' E.

Solar Observation.

Station, cor. of Ts. 1 and 2 N., Rs. 4 and 5 W.
 Date, Apr. 22, 1915.
 Hour, 8h 00m, a. m., l. m. t.
 Lat., 33° 27' 46" N.
 Long., 112° 42' 44" W.
 Decl., 11° 59' N.
 Observer, Roy J. Gill.

Retracement of 1st Guide Meridian West, through T. 1 North.

Preliminary to commencing the subdivision of T. 1 N., R. 5 W., I retrace 1st G. M. W., as follows:
 I begin at the reestablished cor. of Ts. 1 N. and 1 S., Rs. 4 and 5 W. on the G. and S. R. Base Line. hereinbefore described.

Thence, ~~to the~~ ~~cor.~~

North, on a random line, bet. secs. 31 and 36.

39.90 Fall 12 lks. E. of old $\frac{1}{4}$ sec. cor., which is a partly decayed post, 3 ins. diam., marked and witnessed as described by the surveyor general.

Therefore the true course and distance for this half mile is N. 0° 10' W., 39.90 chs.

From $\frac{1}{4}$ sec. cor., ~~to the~~ ~~cor.~~

North, on a random line, bet. N. halves of secs. 31 and 36.

39.98 Fall 14 lks. E. of old cor. of secs. 25, 30, 31 and 36, which is a partly decayed post, 4 ins. diam., marked and witnessed as described by the surveyor general.

Therefore the true course and distance for this half mile is N. 0° 12' W., 39.98 chs.

From ~~the~~ ~~cor.~~ ~~to the~~ ~~cor.~~

North, on a random line, bet. secs. 25 and 30.

39.96 Fall 18 lks. E. of old $\frac{1}{4}$ sec. cor., which is a partly decayed post, 3 ins. diam., marked and witnessed as described by the surveyor general.

Therefore the true course and distance for this half mile is N. 0° 15' W., 39.96 chs.

Retracement of 1st Guide Meridian West, through T. 1 North.

Chains

From $\frac{1}{4}$ sec. cor., I ran
 39.96 North, on a random line, bet. N. halves of secs. 25 and 30.
 Fall 1 lk. W. of old cor. of secs. 19, 24, 25 and 30,
 which is a partly decayed post, 4 ins. diam., marked and
 witnessed as described by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°01'E., 39.96 chs.

From $\frac{1}{4}$ sec. cor., I ran
 39.96 North, on a random line, bet. secs. 19 and 24.
 Fall 15 lks. E. of the old $\frac{1}{4}$ sec. cor., which is a partly
 decayed post, 3 ins. diam., marked and witnessed as des-
 cribed by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°13'W., 39.96 chs.

From $\frac{1}{4}$ sec. cor., I ran
 40.04 North, on a random line, bet. N. halves of secs. 19 and 24.
 Fall 1 lk. W. of old cor. of secs. 13, 18, 19 and 24,
 which is a partly decayed post, 4 ins. diam., marked and
 witnessed as described by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°01'E., 40.04 chs.

From $\frac{1}{4}$ sec. cor., I ran
 39.92 North, on a random line, bet. secs. 13 and 18.
 Fall 5 lks. W. of the old $\frac{1}{4}$ sec. cor., which is a partly
 decayed post, 3 ins. diam., marked and witnessed as des-
 cribed by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°04'E., 39.92 chs.

From old $\frac{1}{4}$ sec. cor., cor. I ran
 39.96 North, on a random line, bet. N. halves of secs. 13 and 18.
 Fall 24 lks. E. of the old sec. cor. of secs. 7, 12, 13 and
 18, which is a partly decayed post, 4 ins. diam., marked
 and witnessed as described by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°21'W., 39.96 chs.

From $\frac{1}{4}$ sec. cor., I ran
 40.00 North, on a random line, bet. secs. 7 and 12.
 Fall 22 lks. E. of the old $\frac{1}{4}$ sec. cor., which is a partly
 decayed post, 3 ins. diam., marked and witnessed as des-
 cribed by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°19'W., 40.00 chs.

From $\frac{1}{4}$ sec. cor., I ran
 39.98 North, on a random line, bet. N. halves of secs. 7 and 12.
 Fall 8 lks. E. of old cor. of secs. 1, 6, 7 and 12, which
 is a partly decayed post, marked and witnessed as des-
 cribed by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°07'W., 39.98 chs.

From $\frac{1}{4}$ sec. cor., I ran
 40.00 North, on a random line, bet. secs. 1 and 6.
 79.96 After diligent search, fail to find old $\frac{1}{4}$ sec. cor.
 Fall 50 lks. E. of the old cor. of Tps. 1 and 2 N., Rs. 4
 and 5 W., which is a partly decayed post, 4 ins. diam.,
 marked and witnessed as described by the surveyor general.
 Therefore the true course and distance for this mile is
 N.0°21'W., 79.96 chs.

I return to the cor. of
 hereinbefore described,

Resurvey of 1st Guide Meridian West, through T. 1 North.

Chains

I return to the reestablished cor. of Ts. 1 N. and 1 S.,
Rs. 4 and 5 W.
Thence,

39.90 N.0°10'W., bet. secs. 31 and 36,
over rolling desert, through dense undergrowth.
The old $\frac{1}{4}$ sec. cor., hereinbefore described, which I re-
establish as follows;
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, with brass cap, marked
 $\frac{1}{4}$ in N.,
S 31 in E., and
S 36 in W. half, and
1915 in S. rim;
dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

39.98 Thence
N.0°12'W., bet. N. halves of secs. 31 and 36.
The old cor. of secs. 25, 30, 31 and 36, hereinbefore des-
cribed, which I reestablish as follows:
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, with brass cap, marked
T 1 N in N. half,
R 5 W S25 in NW.,
R 4 W S30 in NE.,
S 31 in SE., and
S36 in SW. quadrant; and
1915 in S. rim;
dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and
raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land, slightly rolling desert.
Soil, gravelly; 1st and 2nd rate.
No timber.
Undergrowth, greasewood and sage.

12.00 N.0°15'W., bet. secs. 25 and 30,
over slightly rolling desert land, through dense under-
growth.
Road bears NW. and SE.
39.96 The old $\frac{1}{4}$ sec. cor., hereinbefore described, which I rees-
tablish as follows:
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, with brass cap, marked
 $\frac{1}{4}$ in N.,
S 25 in W., and
S 30 in E. half; and
1915 in S. rim;
dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

16.00 Thence
Road bears NE. and SW.
28.00 Road bears NW. and SE.
37.00 Road bears NE. and SW.
39.96 The old cor. of secs. 19, 24, 25 and 30, hereinbefore
described, which I reestablish as follows:
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, with brass cap, marked
T 1 N in N. half,
R 5 W S 24 in NW.,
R 4 W S 19 in NE.,
S 30 in SE., and
S 25 in SW. quadrant; and
1915 in S. rim;
dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and
raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Resurvey of 1st Guide Meridian West, through T. 1 N.

Chains

Land, slightly rolling.
Soil, gravelly; 1st and 2nd rate.
No timber.
Undergrowth, greasewood, sage and cactus.

N.0°13'W., bet. secs. 19 and 24,
over level desert land, through scattering scrub timber
and dense undergrowth.

12.00 Road bears NW. and SE.

31.00 Road bears NE. and SW.

39.96 The old $\frac{1}{4}$ sec. cor., hereinbefore described, which I re-
establish as follows:

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, with brass cap, marked

$\frac{1}{4}$ in N.,
S 19 in E., and
S 24 in W. half; and
1915 in S. rim;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Thence

N.0°01'E., bet. N. halves of secs. 19 and 24.

40.04 The old cor. of secs. 13, 18, 19 and 24, hereinbefore des-
cribed, which I reestablish as follows:

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, with brass cap, marked

T 1 N in N. half,
R 5 W S 13 in NW.,
R 4 W S 18 in NE.,
S 19 in SE., and
S 24 in SW. quadrant; and
1915 in S. rim;

dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and
raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level desert.

Soil, gravelly; 1st and 2nd rate.

Timber, mesquite, palo verde and catclaw.

Undergrowth, greasewood, sage and cactus.

N.0°04'E., bet. secs. 13 and 18,
over level desert land, through scattering scrub timber
and dense undergrowth.

18.00 Old road bears E. and W.

37.00 Road bears NW. and SE.

39.96 The old $\frac{1}{4}$ sec. cor., hereinbefore described, which I re-
establish as follows:

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, with brass cap, marked

$\frac{1}{4}$ in N.,
S 13 in W., and
S 18 in E. half; and
1915 in S. rim;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Thence

N.0°21'W., bet. N. halves of secs. 13 and 18,

30.00 Road bears NW. and SE.

39.96 The old cor. of secs. 7, 12, 13 and 18, hereinbefore des-
cribed, which I reestablish as follows:

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, with brass cap, marked

Resurvey of 1st Guide Meridian West, through T. 1 N.

Chains

T 1 N. in N. half,
 R 5 W S 12 in NW.,
 R 4 W S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quadrant; and
 1915 in S. rim;
 dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., and
 raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, level desert.
 Soil, gravelly; 1st and 2nd rate.
 Timber, mesquite, palo verde and catclaw.
 Undergrowth, greasewood, sage and cactus.

15.00
40.00

N.0°19'W., bet. secs. 7 and 12,
 over level desert land, through scattering scrub timber
 and dense undergrowth.
 Wash, 20 lks. wide, course SE.
 The old ¼ sec. cor., hereinbefore described, which I re-
 establish as follows:
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, with brass cap, marked
 ¼ in N.,
 S 7 in E., and
 S 12 in W. half; and
 1915 in S. rim;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
 and raise a mound of earth, 3½ ft. base, 1½ ft. high,
 W. of cor.

39.98

Thence
 N.0°07'W., bet. N. halves of secs. 7 and 12.
 The old cor. of secs. 1, 6, 7 and 12, hereinbefore des-
 cribed, which I reestablish as follows:
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, with brass cap, marked
 T 1 N in N. half,
 R 5 W S 1 in NW.,
 R 4 W S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quadrant; and
 1915 in S. rim;
 dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., and
 raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, level desert.
 Soil, gravelly; 1st and 2nd rate.
 Timber, mesquite, palo verde and catclaw.
 Undergrowth, greasewood, sagebrush and cactus.

39.98

N.0°21'W., bet. secs. 1 and 6,
 over level desert land, through scattering scrub timber
 and dense undergrowth.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for reestablished ¼ sec. cor., with brass cap,
 marked
 ¼ in N.,
 S 1 in W., and
 S 6 in E. half; and
 1915 in S. rim;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
 and raise a mound of earth, 3½ ft. base, 1½ ft. high,
 W. of cor.

79.96

The old cor. of Tps. 1 and 2 N., Rs. 4 and 5 W., herein-
 before described, which I reestablish as follows:
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, with brass cap, marked

Resurvey of 1st Guide Meridian West through T. 1 N.

Chains

T 2 N. in N., and
 T 1 N in S. half,
 R 5 W S 36 in NW.,
 R 4 W S 31 in NE.,
 S 6 in SE., and
 S 1 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 S. of cor.

Land, level desert.

Soil, gravelly; 1st and 2nd rate.

Timber, mesquite, palo verde and catclaw.

Undergrowth, greasewood, sage and cactus.

Retracement of 1st Guide Meridian West, through T. 2 N.

Preliminary to commencing the subdivision of T. 2 N.,
 R. 5 W., I retrace 1st Guide Meridian West, thru T. 2 N.,
 bet. Rs. 4 and 5 W., as follows:

I begin at the reestablished cor. of Tps. 1 and 2 N., Rs.
 4 and 5 W., hereinbefore described; whence I run
 Thence,

40.00 North, on a random line, bet. secs. 31 and 36.
 Fall 8 lks. E. of old $\frac{1}{4}$ sec. cor., which is a 3 in. post,
 partly decayed, marked and witnessed as described by
 the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°07'W., 40.00 chs.

From $\frac{1}{4}$ sec. cor.,

39.96 North, on a random line, bet. N. halves of secs. 31 and 36.
 Fall 21 lks. E. of old cor. of secs. 25, 30, 31 and 36,
 which is a 4 in. post, partly decayed, marked and wit-
 nessed as described by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°18'W., 39.96 chs.

39.84 North, on a random line, bet. secs. 25 and 30.
 Fall 12 lks. E. of old $\frac{1}{4}$ sec. cor., which is a 3 in. post,
 partly decayed, marked and witnessed as described by the
 surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°10'W., 39.84 chs.

From $\frac{1}{4}$ sec. cor.,

40.16 North, on a random line, bet. N. halves of secs. 25 and 30.
 Fall 25 lks. E. of old cor. of secs. 19, 24, 25 and 30,
 which is a 4 in. post, partly decayed, marked and wit-
 nessed as described by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°21'W., 40.16 chs.

40.00 North, on a random line, bet. secs. 19 and 24.
 Fall 15 lks. E. of old $\frac{1}{4}$ sec. cor., which is a 3 in. post,
 partly decayed, marked and witnessed as described by the
 surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°13'W., 40.00 chs.

Retracement & Resurvey of 1st Guide Meridian West, through T. 2 N.

Chains

39.96 From $\frac{1}{4}$ sec. cor.,
 North, on a random line, bet. N. halves of secs. 19 and 24.
 Fall 3 lks. E. of old cor. of secs. 13, 18, 19 and 24,
 which is a 4 in. post, partly decayed, marked and witnessed
 as described by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°03'W., 39.96 chs.

40.00 North, on a random line, bet. secs. 13 and 18.
 Fall 10 lks. E. of the old $\frac{1}{4}$ sec. cor., which is a 3 in.
 post, partly decayed, marked and witnessed as described
 by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°09'W., 40.00 chs.

40.00 From $\frac{1}{4}$ sec. cor.,
 North, on a random line, bet. N. halves of secs. 13 and 18.
 Fall 8 lks. E. of old cor. of secs. 7, 12, 13 and 18,
 which is a 4 in. post, partly decayed, marked and wit-
 nessed as described by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°07'W., 40.00 chs.

40.00 North, on a random line, bet. secs. 7 and 12.
 Fall 4 lks. W. of old $\frac{1}{4}$ sec. cor., which is a 3 in. post,
 partly decayed, marked and witnessed as described by the
 surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°03'E., 40.00 chs.

40.04 From $\frac{1}{4}$ sec. cor.,
 North, on a random line, bet. N. halves of secs. 7 and 12.
 Fall 17 lks. E. of old cor. of secs. 1, 6, 7 and 12, which
 is a 4 in. post, partly decayed, marked and witnessed
 as described by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°15'W., 40.04 chs.

40.00 North, on a random line, bet. secs. 1 and 6.
 Fall 9 lks. E. of old $\frac{1}{4}$ sec. cor., which is a 3 in. post,
 partly decayed, marked and witnessed as described by the
 surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°08'W., 40.00 chs.

40.04 From $\frac{1}{4}$ sec. cor.,
 North, on a random line, bet. N. halves of secs. 1 and 6.
 Fall 17 lks. E. of old cor. of Tps. 2 and 3 N., Rs. 4 and
 5 W., which is a 4 in. post, partly decayed, marked and
 witnessed as described by the surveyor general.
 Therefore the true course and distance for this half mile
 is N.0°15'W., 40.04 chs.

RESURVEY.

I return to the cor. of Tps. 1 and 2 N., Rs. 4 and 5 W.,
 reestablished as hereinbefore described, and proceed to
 resurvey the 1st Guide Meridian through T. 2 N., as fol-
 lows:

40.00 N.0°07'W., bet. secs. 31 and 36,
 over level land, through scattering timber and dense
 undergrowth.
 The old $\frac{1}{4}$ sec. cor., hereinbefore described, which I rees-
 tablish as follows:
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 31 in E., and
 S 36 in W. half; and
 1915 in S. rim;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
 and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high,
 W. of cor.

Chains	
39.96	<p>Thence N.0°18'W., bet. N. halves of secs. 31 and 36. The old cor. of secs. 25, 30, 31 and 36, hereinbefore described, which I reestablish as follows: Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked T 2 N in N. half, R 5 W S 25 in NW., R 4 W S 30 in NE., S 31 in SE., and S 36 in SW. quadrant; and 1915 in S. rim; dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land, level. Soil, 1st rate. Timber, iron wood and palo verde. Undergrowth, greasewood and sage.</p>
10.00 39.84	<p>N.0°10'W., bet. secs. 25 and 30, over level land, through scattering timber and dense undergrowth. Wash, course SW. The old ¼ sec. cor., hereinbefore described, which I reestablish as follows: Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with brass cap, marked ¼ in N., S 25 in W., and S 30 in E. half; and 1915 in S. rim; dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.</p>
3.00 40.16	<p>Thence N.0°21'W., bet. N. halves of secs. 25 and 30. Draw, course SW. The old cor. of secs. 19, 24, 25 and 30, hereinbefore described, which I reestablish as follows: Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked T 2 N in N. half, R 5 W S 24 in NW., R 4 W S 19 in NE., S 30 in SE., and S 25 in SW. quadrant; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.</p> <p>Land, level. Soil, 2nd rate. Timber, iron wood and palo verde. Undergrowth, greasewood and sage.</p>
40.00	<p>N.0°13'W., bet. secs. 19 and 24, over level land, through scattering timber and dense undergrowth. The old ¼ sec. cor., hereinbefore described, which I reestablish as follows; Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with brass cap, marked ¼ in N., S 19 in E., and S 24 in W. half; and 1915 in S. rim;</p>

Resurvey of 1st Guide Meridian West, through T. 2 N.

Chains

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Thence
 N.0°03'W., bet. N. halves of secs. 19 and 24.
 39.96 The old cor. of secs. 13, 18, 19 and 24, hereinbefore described, which I reestablish as follows:
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked
 T 2 N in N. half,
 R 5 W S 13 in NW.,
 R 4 W S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, level.
 Soil, 3rd rate.
 Timber, iron wood and palo verde.
 Undergrowth, greasewood and sage.

N.0°09'W., bet. secs. 13 and 18;
 over level land, through scattering timber and dense undergrowth.
 15.00 Wash, course SW.
 40.00 The old 1/4 sec. cor., hereinbefore described, which I reestablish as follows:
 Set an iron post, 3 ft. long, 1 in. diam., 26 in s. in the ground, with brass cap, marked
 1/4 in N.,
 S 13 in W., and
 S 18 in E. half; and
 1915 in S. rim;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

Thence
 N.0°07'W., bet. N. halves of secs. 13 and 18.
 11.00 Draw, course SW.
 30.00 Draw, course SW.
 40.00 The old cor. of secs. 7, 12, 13 and 18, hereinbefore described, which I reestablish as follows:
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked
 T 2 N in N. half,
 R 5 W S 12 in NW.,
 R 4 W S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, level.
 Soil, 2nd rate..
 Timber, iron wood and palo verde.
 Undergrowth, greasewood and sage.

N.0°03'E., bet. secs. 7 and 12,
 over level land, through scattering timber and dense undergrowth.
 35.00 Wash, course SW.
 40.00 The old 1/4 sec. cor., hereinbefore described, which I reestablish as follows:
 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the

Resurvey of 1st Guide Meridian West, through T. 2 N.

Chains

ground, with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 7 in E., and
 S 12 in W. half; and
 1915 in S. rim;
 and raisena mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.

Thence

40.04 N.0°15'W., bet. N. halves of secs. 7 and 12.
 The old cor. of secs. 1, 6, 7 and 12, hereinbefore described, which I reestablish as follows:
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked
 T 2 N in N. half,
 R 5 W S 1 in NW.,
 R 4 W S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quadrant; and
 1915 in S. rim;
 dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, level.
 Soil, 2nd rate.
 Timber, iron wood and palo verde.
 Undergrowth, greasewood and sage.

N.0°08'W., bet. secs. 1 and 6,
 over level land, through scattering timber and dense undergrowth.

4.00 Wash, course SW.
 40.00 The old $\frac{1}{4}$ sec. cor., hereinbefore described, which I reestablish as follows:
 Set an iron post, 3 ft. long, 1 in . diam., 26 ins. in the ground, with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 1 in W., and
 S 6 in E. half; and
 1915 in S. rim;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

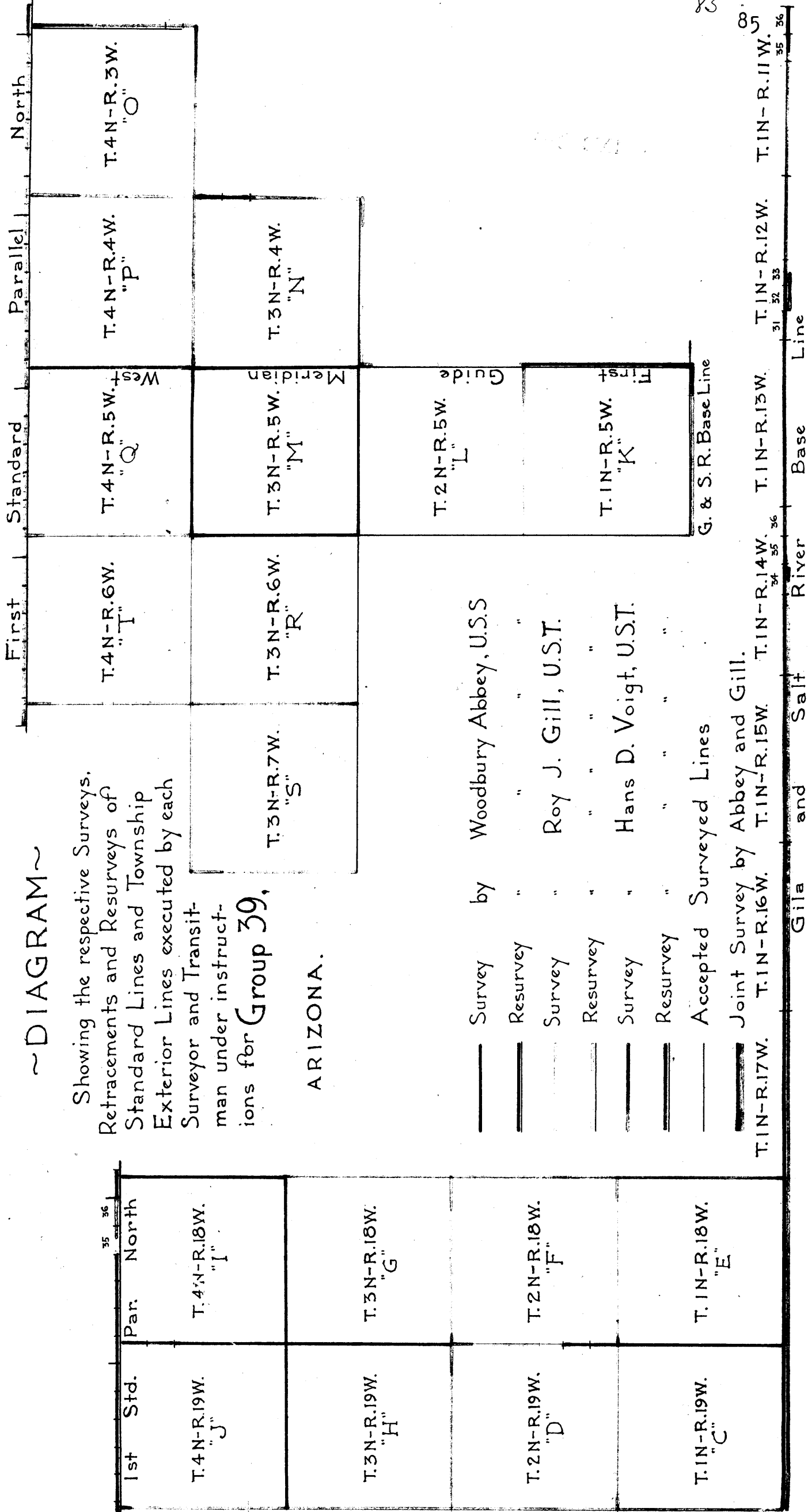
Thence

18.00 N.0°15'W., bet. N. halves of secs. 1 and 6,
 Wash, course SW.
 40.04 The old cor. of Tps. 2 and 3 N., Rs. 4 and 5 W., hereinbefore described, which I reestablish as follows:
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked
 T 3 N in N., and
 T 2 N in S. half,
 R 5 W S 36 in NW.,
 R 4 W S 31 in NE.,
 S 6 in SE., and
 S 1 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 S. of cor.
 Land, level.
 Soil, 2nd rate.
 Timber, iron wood and palo verde/
 Undergrowth, greasewood and sage.

~DIAGRAM~

Showing the respective Surveys, Retracements and Resurveys of Standard Lines and Township Exterior Lines executed by each Surveyor and Transiteeman under instructions for **Group 39**,

ARIZONA.



CERTIFICATES OF U.S. SURVEYOR AND U.S. TRANSITMEN.

We, the undersigned, hereby certify on honor that, in pursuance of special instructions received from the U.S. Surveyor General for Arizona, bearing date of December 4, 1914, we have well, faithfully, and truly in our own proper persons, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed, retraced and resurveyed all those parts or portions of the Standard Lines and Township Exteriors of

G R O U P 39, A R I Z O N A,

which are represented on the diagram on the reverse hereof as having severally been executed by us, and under our direction; and we do further certify on honor that all the corners of said surveys, retracements and resurveys have been established or reestablished and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U.S. Surveyor General for Arizona, and in the specific manner described in our respective field notes.

Woodbury Abbey
U. S. Surveyor.

Roy J. Gill
U. S. Transitman.

Hans D. Voigt
U. S. Transitman.

A P P R O V A L.

OFFICE OF UNITED STATES SURVEYOR GENERAL,
Phoenix, Arizona,

JUL 2 0 1918

The foregoing field notes of the survey of the Gila and Salt River Base Line, thru Rs. 11, 12, 13, 14, 15, 16, 17, 18 & 19 W., and the First Guide Mer. W., thru Ts. 3 and 4 N., and the

RESURVEY OF THE

Gila and Salt River Base Line, thru R. 5 W., the First Std. Parallel N., thru part of R. 17 W.; all of Rs. 18 and 19 W.; part of Range 2 W.; all of Rs. 3, 4, 5 and 6 W., and the First Guide Mer. W., thru Ts. 1 and 2 N., bet. Rs. 4 and 5 W., of the Gila and Salt River Base and Meridian, in the State of Arizona, executed by Woodbury Abbey, U.S. Surveyor, and Roy J. Gill and Hans D. Voigt, U.S. Transitmen, under special instructions dated Dec. 4, 1914, for Group No. 39, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys and resurveys they describe are hereby approved.

Woodbury Abbey
U. S. Surveyor General.