Book "A"
(Standard Lines). 2891
4—679

1

MAR 5- 1917

BOOK 2891

# FIELD NOTES

RE-
OF THE SURVEY OF THE

GILA AND SALT RIVER MERIDIAN

thru S½ of T.2 S.,& thru.Ts.3,4,5,6,7,8, 9,and 10 South,

of the Gila and Salt River Base Line,

SECOND STANDARD PARALLEL SOUTH,

thru.Rs.1, 2, 3, 4, 5,6 & 7 E.,and

FIRST GUIDE MERIDIAN EAST,

thru. Ts. 7, 8, 9,& 10 South, and

Survey of the

FIRST STANDARD PARALLEL SOUTH,THRU. RS.1 AND 2 EAST,

2891

2891

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

*In the State of* Arizona,

EXECUTED BY

W.H. Thorn,U.S. Surveyor,

and

J. K. Kierulff, U.S. Transitman,

~~*In the capacity of U. S. Surveyor*~~, *under instructions dated* July 29, *1914, issued by the United States Surveyor General to govern surveys included in Group No.* 38, *which were approved by the Commissioner of the General Land Office,* Sept. 5, *1914.*

*Resurveys and Survey commenced* October 27, *1914.*

*Resurveys and Survey completed* May 4, *1915.*

Sept. 30, 1914.

Book "A."

GROUP NO. 38.

(See Special Index).

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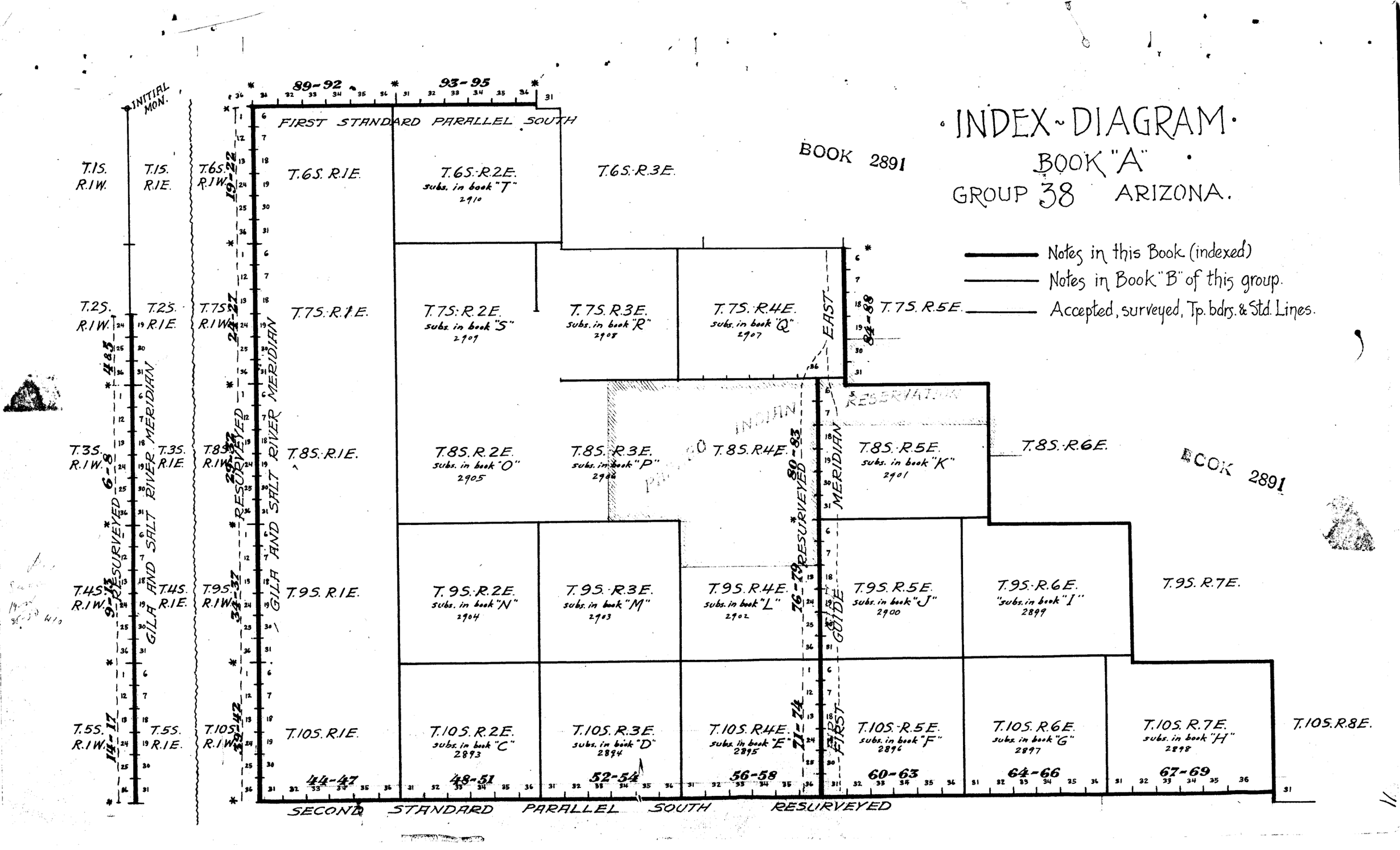
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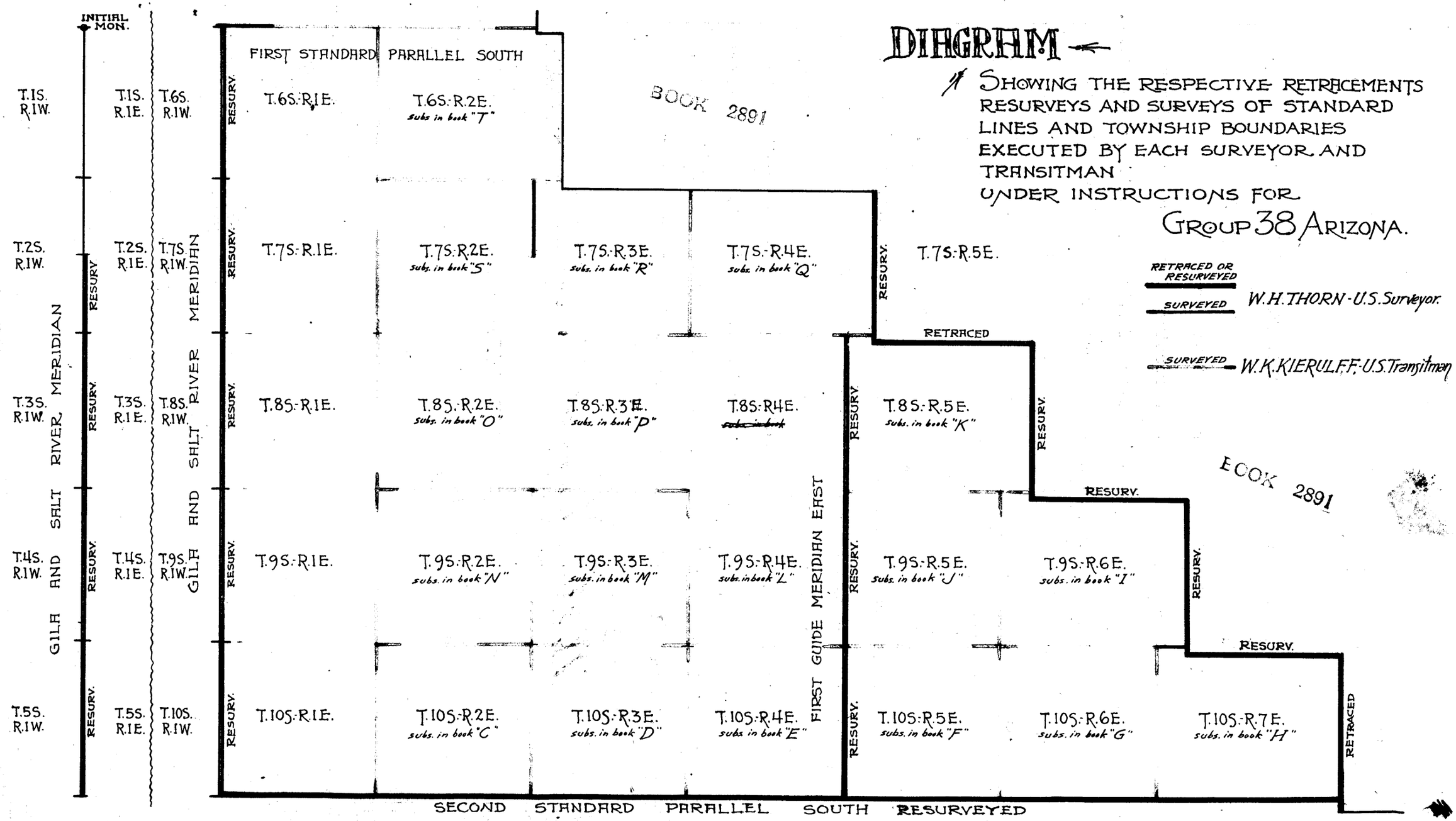


# DIAGRAM

Showing the respective retracements resurveys and surveys of standard lines and township boundaries executed by each surveyor and transitman under instructions for

## Group 38 Arizona.

RETRACED OR RESURVEYED

SURVEYED — W. H. THORN - U.S. Surveyor.

SURVEYED — W. K. KIERULFF - U.S. Transitman

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BOOK 2891

FINAL CERTIFICATE OF U. S. SURVEYOR AND 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 July 29, 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 all those parts or portions of

GROUP 38,

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 survey have been established 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.

W. H. Thorne
U. S. Surveyor.

U. S. Transitman.

U. S. Transitmen.

Chains.

The Retracement, resurvey or survey of Standard lines executed under instructions for Group 38, Arizona, by W. H.Thorn, U.S. Surveyor, and W.K.Kierulff,U.S.Transitman, are described in the following field notes, the initials "W.H.T." and "W.K.K." being inserted at the beginning and end of those portions of the notes describing the retracements, resurveys or surveys by W. H.Thorn, U.S.Surveyor, and W.K.Kierulff,U.S.Transitman, respectively. Instrument used by W.H.Thorn,U.S.Surveyor, is a Young and Sons' light mountain transit No.8592, with Smith solar attachment. The horizontal limb is provided with two double verniers, placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

Instrument used by W.K.Kierulff,U.S.Transitman is a Young and Sons' light mountain transit No.8492, with Smith solar attachment. The horizontal limb is provided with two double verniers, placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

W. H. T.

I examine the adjustments of transit No.8592, and correct the level and collimation errors; then, test the adjustments of the solar apparatus as per instructions to U.S.Surveyors and U.S.Transitmen.

October 23, 1914: In camp,in sec.24,T.4 S.,R.1 E., at 5h. 20m.p.m.,l.m.t., I observe Polaris at Eastern elongation (still light). I lay off the azimuth of Polaris 1°22' to the west, and mark the meridian thus determined by a tack in a wooden stake set 10.00 chs. N.of my station.

Oct.24, 1914: I set off 11°40'S.on the decl.arc,and at 11h.44m. a.m.,l.m.t., I observe the sun on the meridian; the resulting lat.is 33°04'N.

Oct. 25, 1914. At 9h. a.m.,l.m.t., I set off 33°04'N.on the lat.arc; 11°57'S.on the decl.arc, and determine a meridian with the solar. The meridian thus determined falls 30" of arc W.of the meridian determined by observation on Polaris.

At 3h. p.m.,l.m.t., I set off 33°04'N.on the lat.arc;12° 02'S. on the decl.arc, and determine a meridian with the solar. The meridian thus determined falls 30" of arc west of the meridian determined by observations on Polaris; therefore, I conclude that the adjustment of the instrument is satisfactory.

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October 27, 1914.

I commence the resurvey of the Gila and Salt River Meridian through Ts. 2,3,4,5,6,7,8,9 and 10 S.of the Gila and Salt River Base line, at the cor. of secs.13,18, 19 and 24, Ts.2 S., Rs.1 E. and 1 W., which is an iron post, with brass cap, marked

1912 in S.rim,
G R I R in E.half;
S 13 R 1 W in NW.,
S 18 T 2 S in NE.,
S 19 R 1 E in SE., and
S 24 in SW. quadrant; and witnessed by a mound of stone 4 ft.base, 2½ ft. high, W.of cor.

This cor. was reestablished in connection with a survey of the Gila River Indian Reservation in 1912, and forms the SW. cor.of said Reservation.

As no subdivision lines have been connected to the G.& S.R. Meridian, south of the above described cor., I proceed to resurvey the Meridian south, independent of any existing old cors., destroying same where found as hereinafter described, and reestablishing cors. at

Chains.

regular intervals of 40.00 chs.
At 2h. 0m. p.m., l.m.t., I set off 33° 15' N. on the lat. arc; 12° 42' S. on the decl. arc, and determine a meridian with the solar at the above described cor.
Thence I run,
South, bet. secs. 19 and 24.
Over level land.

33.00 Dry wash, 15 lks. wide, 2 ft. banks, course S. 80° W.

No difference in measurement of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked

¼ S 24 on W., and
S 19 on E. half;
G. S. R. M. on E., and
1914 on S. rim;

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

After diligent search, find no trace of the original ¼ sec. cor.

No difference in the measurement of 80.00 chs. by two sets of chainmen.

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

T 2 S on N. half;
R 1 W S 24 in NW.,
R 1 E S 19 in NE.,
S 30 in SE., and
S 25 in SW. quadrants;
1914 on S., and
G. S. R. M. on E. rim; from which,

An ironwood, 8 ins. in diam., brs. N. 1° 45' W., 3.79 chs. dist., marked T 2 S R 1 W S 24 B T.

No other trees within limits. 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. After diligent search find no trace of original sec. cor.
Land, level.
Soil, sandy and gravelly, 2nd and 3rd rate.
Timber, palo verde and ironwood.
Undergrowth, greasewood, catclaw brush, club cactus, ocotillo and giant cactus.

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South, bet. secs. 25 and 30.
Over level land.

36.55 Wash, 10 lks. wide, 1 ft. banks, course W.

No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked

¼ S 25 on W., and
S 30 on E. half;
G S R M on E., and
1914 on S. rim;

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

After diligent search, no trace of original ¼ sec. cor. can be found.

46.10 Wash, 10 lks. wide, 1 ft. banks, course S. 80° W.
65.10 Wash, 10 lks. wide, 1 ft. banks, course S. 75° W.

No difference in the measurement of 80.00 chs. by two sets of chainmen.

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

T 2 S in N. half;

Chains.

R 1 W S 25 in NW.,
R 1 E S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrants;
G S R M on E., and
1914 on 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.
After diligent search, find no trace of original sec.cor.
Land, level.
Soil, sandy loam, 2nd rate.
Timber, palo verde and ironwood.
Undergrowth, greasewood brush.
Ocotillo and giant cactus.

October 27, 1914.

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October 28, 1914.
At 9h.a.m.,l.m.t., I set off 33°13'N. on the lat.arc;12° 58'S. on the decl.arc, and determine a meridian with the solar at the reestablished cor.of secs.25,30,31 and 36.
Thence I run,
South, bet. secs.31 and 36.
Over level land.
No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor.,with brass cap, marked,
¼ S 36 on W., and
S 31 on E.half;
G S R M on E., and
1914 on S.rim;
dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W.of cor.
After diligent search, find no trace of original ¼ sec. cor.
No difference in the measurement of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of Ts.2 and 3 S., Rs. 1 E. and 1 W., with brass cap, marked
T 2 S on N., and
T 3 S on S.half;
R 1 W S 36 in NW.,
R 1 E S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrants;
G S R Mon E., and
1914 on S rim;
dig pits 24x24x12 ins., E.,W., and N. 4 ft. and S.of cor. 8 ft. dist.
Raise a mound of earth 5½ ft. base, 2½ ft. high,S.of cor.
After diligent search, find no trace of original Tp.cor.
Land,level.
Soil, sandy loam, 1st rate.
Undergrowth, greasewood brush.
Timber, scattering palo verde and ironwood. Ocotillo.

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6. Resurvey of the Gila and Salt River Mer., thru T. 3 S.

Chains.

From the reestablished cor. of Ts. 2 and 3 S., Rs. 1 E. and 1 W., I run,
South, bet. secs. 1 and 6.
Over level land.

36.60 Wash, 20 lks. wide, 1 ft. banks, course S 80° W.

No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked

¼ S 1 on W., and
S 6 on E. half;
G S R M on E., and
1914 in S. rim; from which,
A palo verde, 8 ins. in diam., brs. S. 31° 15' E., 123 lks. dist., marked ¼ S 6 B T.

No other tree within limits; dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
Find no trace of original ¼ sec. cor.
No difference in the measurement of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 1, 6, 7 and 12, with brass cap, marked

T 3 S in N. half;
R 1 W S 1 in NW.,
R 1 E S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrants;
G S R M on E., and
1914 on 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.
After diligent search, find no trace of original cor.
Land, level.
Soil, sandy loam, 1st rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood brush; scattering grass.

---

South, bet. secs. 7 and 12.
Over level land, through greasewood brush.
No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked

¼ S 12 on W., and
S 7 on E. half;
G S R M on E., and
1914 on S. rim.

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
After diligent search, find no trace of original ¼ sec. cor.
No difference in the measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7, 12, 13 and 18, with brass cap, marked

T 3 S in N. half;
R 1 W S 12 in NW.,
R 1 E S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrants;
G S R M on E., and
1914 on 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.

| Chains. | |
|---|---|
| | After diligent search, I find no trace of original sec. cor. |
| | Land, level. |
| | Soil, sandy loam, 1st rate; caliche, 18 ins. |
| | Timber, scattering palo verde and ironwood, mesquite. |
| | Undergrowth, greasewood brush. |
| | --- |
| | South, bet. secs. 13 and 18. |
| | Over level land, through greasewood brush. |
| | No difference in measurement of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 13 on W., and<br>S 18 in E. half;<br>G S R M on E., and<br>1914 on S. rim;<br>dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor. |
| | After diligent search, find no trace of original ¼ sec. cor. |
| | At this cor., I set off 13°01'S. on the decl. arc, and at 11h. 43m. 56s. observe the sun on the meridian; the resulting lat. is 33° 10'N. |
| | Difference in measurement of 80.00 chs. by two sets of chainmen is 1 link; position of middle point,<br>By 1st set, 79.995 chs.,<br>By 2nd set, 80.005 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 13, 18, 19 and 24, with brass cap, marked,<br>T 3 S in N.,<br>R 1 W S 13 in NW.,<br>R 1 E S 18 in NE.,<br>S 19 in SE., and<br>S 24 in SW. quadrants;<br>G S R M on E., and<br>1914 on S. rim;<br>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. |
| | After diligent search find no trace of original sec. cor. |
| | Land, level. |
| | Soil, sandy loam, 1st rate. |
| | Timber, scattering palo verde, ironwood and mesquite. |
| | Undergrowth; greasewood brush. |
| | --- |
| | South, bet. secs. 19 and 24. |
| | Over level land, through greasewood brush. |
| 23.20 | Old road, brs. N 70°W. and S. 70°E. |
| | Difference in the measurement of 40.00 chs. by two sets of chainmen is 1 link; position of middle point<br>By 1st set, 39.995 chs.<br>By 2nd set, 40.005 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 24 on W., and<br>S 19 on E half;<br>G S R M on E., and<br>1914 on S. rim;<br>dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor. |
| | After diligent search, find no trace of original ¼ sec. cor. |

8 . Resurvey of the Gila and Salt River Mer. thru. T.3 S.

Chains.

No difference in measurement of 80.00 chs. by two sets of chainmen.

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

T 3 S in N.half;
R 1 W S 24 in NW.,
R 1 E S 19 in NE.,
S 30 in SE., and
S 25 in SW. quadrants;
G S R M on E., and
1914 on 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.

After diligent search, find no trace of original sec.cor.

Land,level.

Soil, sandy loam, 1st rate.

Timber, very scattering palo verde, ironwood and mesquite.

Undergrowth, greasewood brush.

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South, bet. secs.25 and 30.

Over level land, through greasewood brush.

24.00 Wash, 10 lks.wide, 1 ft.banks,course S.80°W.

No difference in measurement of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked

¼ S 25 on W., and
S 30 on E.half;
1914 on S., and
G S R M on E. rim;

dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,W. of cor.

After diligent search, find no trace of original ¼ sec. cor.

No difference in measurement of 80.00 chs. by two sets of chainmen.

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

T 3 S in N.half;
R 1 W S 25 in NW.,
R 1 E S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrants,
G S R M on E., and
1914 on 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.

After diligent search find no trace of original sec.cor.

Land,level.

Soil, sandy loam, 1st rate.

Timber, scattering palo verde,ironwood and mesquite.

Undergrowth, greasewood brush.

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South, bet. secs. 31 and 36.

Over level land,through greasewood brush.

19.20 Wash, 25 lks.wide, 4 ft. banks, course N.70°W.

No difference in measurement of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long,1 in. in diam.,26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked

¼ S 36 on W., and
S 31 on E.half;
G S R M on E., and

| Chains. | |
|---|---|
| | 1914 on S.rim;<br>dig pits 18x18x12 ins., N.and S. of cor.3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W.of cor.<br>After diligent search, find no trace of original ¼ sec. cor.<br>Difference bet. measurements of 80.00 chs. by two sets of chainmen is 1 link; position of middle point is<br>By 1st set, 79.995 chs.<br>By 2nd set, 80.005 chs., the mean of which is |
| 80.00 | Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of Ts.3 and 4 S., Rs. 1 E. and 1 W., with brass cap, marked<br>T 3 S in N., and<br>T 4 S in S.half;<br>R 1 W S 36 in NW.,<br>R 1 E S 31 in NE.,<br>S 6 in SE., and<br>S 1 in SW. quadrants;<br>G S R M on E., and<br>1914 on S.rim; from which,<br>A mesquite, 6 ins. in diam., brs.S 1°30'E., 89 lks.dist., marked T 4 S R 1 E S 6 B T.<br>No other trees within limits.<br>Dig pits 24x24x12 ins., E., W. and N.4 ft. and S.of cor. 8 ft. dist.; raise a mound of earth 5½ ft. base, 2½ ft. high, S.of cor.<br>Can find no trace or original Tp.cor. after diligent search.<br>Land, level.<br>Soil, sandy loam, 1st rate.<br>Timber, scattering palo verde, ironwood and mesquite.<br>Undergrowth, greasewood brush.<br>At this cor., I set off 33° 07'N.on the lat.arc; 13°03' S.on the decl.arc, and at 4h.00m. p.m., l.m.t., I determine a meridian with the solar.<br>At 5h.01m. p.m., l.m.t., (still light) I observe Polaris at Eastern elongation, and lay off the azimuth of Polaris 1°22' to the west. From flags set at corners, I find my line to be within 1' of arc.<br>A sharp peak in the mountains about twelve miles dist. brs.N.0°34' W., which I use as a reference point.<br>October 28, 1914. |
| | RESURVEY OF THE GILA & SALT RIVER MERIDIAN, THRU T.4 S. |
| | October 29, 1914.<br>At 8h. a.m., l.m.t., I set off 33° 07'N.on the lat.arc; 13°17'S.on the decl.arc, and determine a meridian with the solar at the reestablished cor.of Ts.3 and 4 S., Rs.1 E. and 1 W.<br>Thence I run,<br>South, bet. secs. 1 and 6.<br>Over level land.<br>No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked<br>¼ S 1 on W., and<br>S 6 on E.half,<br>G S R M on E., and<br>1914 on S.rim; from which,<br>A mesquite, 6 ins. in diam., brs.S.0°15'W., 212 lks.dist., marked ¼ S 1 B T.<br>No other tree within limits. Dig pits 18x18x12 ins.N.& S. of post, 3 ft.dist., & raise a mound of earth 3½ ft.base, 1½ ft.high, W.of cor. After diligent search, find no trace of original ¼ sec.cor.<br>No difference bet. measurements of 80.00 chs. by two sets of chainmen. |

10. Resurvey of the Gila and Salt River Mer., thru.T.4 S.

Chains.

80.00 Set an iron post 3 ft.long, 3 ins. in diam.,24 ins.in the ground for reestablished [illegible].cor.of secs.1,6,7 and 12, with brass cap,marked
T 4 S in N.half;
R 1 W S 1 in NW.,
R 1 E S 6 in NE.,
S 7 in SE., and
S 12 in SW.quadrants;
1914 on S., and
G S R M on E.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.
After diligent search, find no trace of original sec.cor.
Land,level.
Soil, sandy loam, 1st rate.
Timber, scattering mesquite, palo verde and ironwood.
Undergrowth, greasewood brush.

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South, bet.secs.7 and 12.
Over level land, through greasewood brush.
No difference bet. measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft,long,1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec.cor., with brass cap, marked
¼ S 12 on W., and
S 7 on E.half;
G S R M on E., and
1914 on S.rim; from which
An ironwood 5 ins. in diam., brs.S.30°45'E.,79 lks.dist., marked ¼ S 7 B T.
A mesquite 8 ins.in diam., brs.S.57'W.,260 lks. dist., marked ¼ S 12 B T.
Find no trace of original ¼ sec.cor.

73.15 Dry wash, 15 lks.wide, 1 ft. banks, course N.80°W.

No difference between measurements of 80.00 by two sets of chainmen.

80.00 Set an iron post, 3 ft.long, 3 ins. in diam.,24 ins. in the ground for reestablished cor.of secs.7,12,13 and 18,with brass cap, marked,
T 4 S in N.half,
R 1 W S 12 in NW.,
R 1 E S 7 in NE.,
S 18 in SE., and
S 13 in SW.quadrants;
G S R M on E., and
1914 on S.rim; from which,
A mesquite, 6 ins, in diam., brs.N.52°E.,63 lks.dist., marked T 4 S R 1 E S 7 B T.
An ironwood, 18 ins. in diam., brs.S.81°E. 90 lks.dist., marked T 4 S R 1 E S 18 B T.
An ironwood stump,6 ins.in diam.,brs.S~68°W., 60 lks.dist., marked B T only.
An ironwood,12 ins. in diam., brs.N.72°15'W., 327 lks.dist., marked T 4 S R 1 W S 12 B T.
After diligent search, find no trace of original sec.cor.
Land,level.
Soil, sandy loam, 1st rate.
Timber, ironwood and mesquite; palo verde.
Undergrowth, greasewood brush.

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South, bet. secs. 13 and 18.
Over level land, through greasewood brush.
No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap,marked

Chains.

¼ S 13 on W., and
S 18 on E.half;
G S R M on E., and
1914 on S.rim;
dig pits 18x18x12 ins., N.and S.of cor.3 ft. dist.,and raise a mound of earth 3½ ft. base, 1½ ft. high,W.of corner.
After diligent search, find no trace of original ¼ sec. cor.

69.10 Wash,10 lks.wide, 1 ft.banks, course N.30°E.

75.00 East end of mountains bear W. These mountains bear NW. and SE., about 3 miles long, and from 1 to 1½ miles wide, the highest part being about 250 ft.high.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam.,24 ins. in the ground for reestablished cor.of secs.13,18,19 and 24, with brass cap, marked
T 4 S in N.half;
R 1 W S 13 in NW.,
R 1 E S 18 in NE.,
S 19 in SE., and
S 24 in SW. quadrants;
G S R M on E., and
1914 on S. rim; from which,
A mesquite. 10 ins. in diam., brs.S.74°W.,161 lks.dist., marked T 4 S R 1 W S 24 B T.
No other trees within limits; 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.
After diligent search, find no trace of original sec.cor.
Land,level.
Soil, sandy loam, 1st rate.
Timber, mesquite, ironwood and palo verde.
Undergrowth, greasewood.

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South, bet. secs.19 and 24.
Over level land, through greasewood brush.

17.50 Road, brs.E.and W.

Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point
By 1st set 39.995 chs.
By 2nd set, 40.005 chs., the mean of which is

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked,
¼ S 24 on W., and
S 19 on E.half;
G S R M on E., and
1914 on S.rim;
dig pits 18x18x12 ins., N.and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,W. of cor.
From this cor., the original cor.of secs.19,24,25 and 30, brs.W. about 10.00 chs.dist. The post is decayed and the marks almost obliterated. This cor. was found and destroyed by W. K.Kierulff,U.S.Transitman, on November 4, 1914.

77.60 Wash, 10 lks.wide,1 ft.banks, course N.60°W.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam.,24 ins. in the ground for reestablished cor.of secs.19,24,25 and 30, with brass cap, marked
T 4 S on N.half;
R 1 W S 24 in NW.,
R 1 E S 19 in NE.,
S 30 in SE., and
S 25 in SW.quadrant;

Chains

G S R M on E., and
1914 on S. rim; from which,
A mesquite, 6 ins. in diam., brs.N.4°50'E. 14 lks.dist., marked T 4 S R 1 E S 19 B T.
A mesquite, 8 ins.in diam., brs.S.5°E.,91 lks. dist., marked T 4 S R 1E S 30 B T.
A mesquite 6 ins. in diam., brs.S.9°45'W.,95 lks.dist., marked T 4 S R 1 W S 25 B T.
A mesquite, 8 ins.in diam., brs.N.35°45'W.,171 lks.dist.,marked T 4 S R 1 W S 24 B T.

At this cor.,I set off 13°21'S. on the decl.arc,and at 11h 43m.,51s.a.m. I observe the sun on the meridian; the resulting lat.is 33°03' N.

Land,level.
Soil,sandy loam, 1st rate.
Timber, mesquite, ironwood and palo verde.
Undergrowth, greasewood brush.

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South, bet. secs.25 and 30.
Over level land, through greasewood brush.
No difference bet. measurements of 40.00 chs.by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor.,with brass cap marked
¼ S 25 on W., and
S 30 on E.half;
G S R M on E., and
1914 on S.rim;
dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,W. of cor.

From this cor., the original cor.of secs.25,30,31 and 36, which is a decayed stake, with marks almost obliterated brs.W. about 10 chs.dist.; this cor. was found and destroyed by W.K.Kierulff, U.S.Transitman,on Nov.4, 1914.

63.20 Road, Gila Bend to Maricopa,brs.S.73°W. and N.73°E.
64.90 Telegraph line brs.N.73°15'E. and S.73°15'W.
65.53 S.P.R.R. brs.N.73°15'E. and S.73°15'W. Culvert No.882 A brs.E.100 lks.dist.
67.20 Telephone line, brs.N.73°15'E. and S.73°15'W.

Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point
By 1st set, 79.995 chs.
By 2nd set,80.005 chs., the mean of which is

80.00 Set an iron post 3 ft.long, 3 ins. in diam.,24 ins. in the ground for reestablished cor.of secs.25,30,31 and 36, with brass cap, marked,
T 4 S in N.half;
R 1 W S 25 in NW.,
R 1 E S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrants;
G S R M on E.,and
1914 on 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.

From this cor. the original ¼ sec.cor.of secs.31 and 36, which is a decayed stake, with marks almost obliterated, brs.N.86°52'W., 9.33 chs.dist.

I destroy all trace of this old cor.
Land,level.
Soil, sandy loam, 1st rate.
Timber, mesquite,ironwood and palo verde.
Undergrowth, greasewood.

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| Chains. | |
|---|---|
| | South, bet. secs. 31 and 36. |
| | Over level land, through greasewood brush. |
| 22.00 | Wash, 10 lks. wide, 1 ft. banks, course N. 80° E. |
| 26.80 | Wash, 10 lks. wide, 1 ft. banks, course N. 80° E. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 36 on W., and<br>S 31 on E half;<br>G S R M on E., and<br>1914 on S. rim;<br>dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor. |
| | From this cor. the original cor. of Ts. 4 and 5 S., Rs. 1 E. and 1 W., which is a decayed stake, marked<br>R 1 E S VI, S XXX, R 1 W XXXVI, brs. N. 87° 25' W., 9.22 chs. dist. |
| | I destroy this old cor. The palo verde bearing tree was down and decayed. |
| 74.60 | Wash, 20 lks. wide, 1½ ft. banks, course N. 75° E. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point<br>By 1st set, 79.995 chs.<br>By 2nd set, 80.005 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of Ts. 4 and 5 S., Rs. 1 E. and 1 W., with brass cap, marked<br>T 4 S in N., and<br>T 5 S in S. half;<br>R 1 W S 36 in NW.,<br>R 1 E S 31 in NE.,<br>S 6 in SE., and<br>S 1 in SW. quadrants;<br>G S R M in E., and<br>1914 in S. rim; from which<br>An ironwood, 6 ins. in diam., brs. S. 21° 30' E., 219 lks. dist., marked T 5 S R 1 E S 6 B T.<br>A mesquite, 12 ins. in diam., brs. S 20° 45' W., 46 lks. dist., marked T 5 S R 1 W S 1 B T.<br>An ironwood, 40 ins. in diam., brs. N. 52° W., 195 lks. dist., marked T 4 S R 1 W S 36 B T. |
| | No other trees within limits. Dig pits 24x24x12 ins., E., W. and N. 4 ft., and S. of cor. 8 ft. dist. Raise a mound of earth 5½ ft. base, 2½ ft. high, S. of cor. |
| | From this cor., the original ¼ sec. cor. of secs. 1 and 6, which is a decayed stake, with marks almost obliterated bears N. 89° W., 9.01 chs., marked ¼ S. |
| | I destroy all trace of this old cor. |
| | Land, level. |
| | Soil, sandy loam, 1st rate. |
| | Timber, ironwood, mesquite and palo verde. |
| | Undergrowth, greasewood brush. |
| | October 29, 1914. |

Chains.

RESURVEY OF THE GILA & SALT RIVER MER., THRU. T. 5 SOUTH.

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November 4, 1914.

At 8h. a.m., l.m.t., I set off 33°02' N. on the lat. arc; 15°13'S. on decl. arc; and determine a meridian with the solar at the reestablished cor. of Ts. 4 and 5 S., Rs. 1 E. and 1 W.

Thence I run,

South, bet. secs. 1 and 6.

Over level land, through greasewood brush.

.30 Wash, 20 lks. wide, 1½ ft. banks, course N.10°W.

12.30 Wash, 20 lks. wide, 1½ ft. banks, course N.10°E.

Difference between measurement of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point,

By 1st set, 40.005 chs.,

By 2nd set, 39.995 chs., the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked

¼ S 1 on W., and
S 6 on E. half;
G S R M on E., and
1914 on S. rim;

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

From this cor., the original cor. of secs. 1, 6, 7 and 12, which is a decayed stake, with marks almost obliterated, brs. S.88°40'W., 8.90 chs. dist. I destroy all trace of this old cor.

52.70 Enter wash 2 chs. wide, 3 ft. banks, course N.20°E.

56.45 An ironwood stump, 8 ins. in diam., on line, marked with 2 notches on N. and S. faces.

Leave dry wash.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 1, 6, 7 and 12, with brass cap, marked

T 5 S on N. half;
R 1 W S 1 in NW.,
R 1 E S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrants;
G S R M on E., and
1914 on 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.

From this cor., the original ¼ sec. cor. of secs. 7 and 12, which is a stake, 2 ft. above ground, with marks almost obliterated, brs. S.86°50'W., 9.02 chs. dist. I destroy all trace of this old cor.

Land, level.

Soil, sandy loam, 1st rate.

Timber, ironwood, palo verde and catsclaw.

Undergrowth, greasewood brush.

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South, bet. secs. 7 and 12.

Over level land, through greasewood brush, 3 to 4 ft. high.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked

¼ S 12 on W., and
S 7 on E. half;
G S R M on E., and
1914 on S. rim;

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.;

Chains.

and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

From this cor., the original cor. of secs. 7, 12, 13 and 18, which is a post 3x3x2½ ft. down, with marks invisible, brs. S. 84° 25' W., 9.25 chs. dist. I destroy all trace of this old cor.

61.10 Wash, 15 lks. wide, 2 ft. banks, course N. 30° E.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7, 12, 13 and 18, with brass cap, marked

T 5 S in N. half;
R 1 W S 12 in NW.,
R 1 E S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrants;
G S R M on E., and
1914 of Srim;

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.

From this cor. the original ¼ sec. cor. of secs. 13 and 18, which is a post 4 ins. square, 3 ft. long, with marks almost obliterated, brs. S. 82° 30' W., 9.46 chs. dist., I destroy all signs of this old cor.

Land, level.

Soil, sandy loam, 1st rate.

Timber, ironwood, palo verde and mesquite, scattering.

Undergrowth, greasewood brush 3 to 5 ft. high.

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South, bet. secs. 13 and 18.

Over level land, through greasewood brush.

37.40 Wash, 20 lks. wide, 1 ft. banks, course east.

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 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked

¼ S 13 on W., and
S 18 on E. half;
G S R M on E., and
1914 on S. rim; ~~from which~~

from which,

A mesquite, 8 ins. in diam., brs. N. 62° E., 138 lks. dist., marked ¼ S 18 B T.

A mesquite, 6 ins. in diam., brs. N. 54° 15' W., 49 lks. dist., marked ¼ S 13 B T.

At this cor., I set off 33° 00' N. on the lat. arc; 15° 19' S. on the decl. arc, and at 4h. p.m., l.m.t., I determine a meridian with the solar; then at 4h. 33m. p.m., l.m.t., I observe Polaris at Eastern elongation (still light) and lay off the azimuth of Polaris 1° 22' to the west. From flags set at cors. I find that my line is within ½' of arc.

41.31 From this point the original cor. of secs. 13, 18, 19 and 24, which is a tree, with marks plainly visible, bears N. 89° 30' W., 9.40 chs. dist. I destroy the marks on this old cor., and the marks on the bearing tree, described in the notes of the original survey.

55.00 Small hill, about 25 chs. across, 100 ft. high, brs. E. 12.00 chs. dist.

Difference bet. measurements of 80.00 chs. by two sets of chainmen, is 1 lk., position of middle point.

By 1st set, 79,955 chs.
By 2nd set, 80.005 chs., the mean of which is

Chains.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for the reestablished cor.of secs.13,18,19 and 24, with brass cap, marked,
T 5 S in N.half;
R 1 W S 13 in NW.,
R 1 E S 18 in NE.,
S 19 in SE., and
S 24 in SW. quadrants;
G S R M on E., and
1914 on 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.
From this cor.,the original ¼ sec.cor.of secs.19 and 24, which is a palo verde post, 3 ins.square, 3 ft.long,down and worm eaten, marks obliterated, brs.S.78°30'W.,9.84 chs.dist. I destroy all signs of this old cor.
Land,level.
Soil, sandy loam, caliche,18 ins.,1st rate on N.60.00 chs. 2nd rate on S 20 chs.
Timber, mesquite,ironwood and catclaw.
At this cor.,I set off 15°17'N.on the decl.arc; and at 11h. 43m.38s., I observe the sun on the meridian;the resulting lat,is 32° 59½'N.

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South,bet. secs.19 and 24.
Over level land,through greasewood brush.
No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked
¼ S 24 on W., and
S 19 on E.half;
G S R M on E., and
1914 on S.rim;
dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W.of cor.
From this cor., the original cor.of secs.19,24,25 and 30, which is a palo verde post 3 ins.square, 3 ft.long, with marks obliterated, bears S.78°W., 9.95 chs.dist.
I destroy all signs of this old cor., and the marks on bearing trees.
Difference bet. measurements of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point
By 1st set, 79.995 chs.
By 2nd set, 80.005 chs.; the mean of which is
80.00 Set an iron post 3 ft.long, 3 ins. in diam.,24 ins. in the ground for reestablished cor.of secs.19,24,25 and 30, with brass cap, marked
T 5 S in N.half;
R 1 W S 24 on NW.,
R 1 E S19 in NE.,
S 30 in SE., and
S 25 in SW. quadrants;
G S R M on E., and
1914 on S.rim; from which
A palo verde, 6 ins. in diam., brs.S.38°30'W., 177 lks.dist., marked T 5 S R 1 W S 25 B T.
No other trees within limits; 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.
From this cor.,the original ¼ sec.cor. of secs.25 and 30, which is a palo verde post 3 ins.square, 3 ft. long, decayed, and marks obliterated, brs.S.77°05'W., 10.45 chs.dist.; I destroy all signs of this old.cor.
Land, level.
Soil, sandy loam, 2nd rate.

| Chains. | |
|---|---|
| | Timber, palo verde,ironwood and mesquite.<br>Undergrowth, greasewood brush.<br>Nov. 4, 1914. |
| | Nov.5, 1914.<br>At 8h. a.m.,l.m.t., I set off 32°58'N.on the lat.arc;15° 31'S.on the decl.arc, and determine a meridian with the solar at the reestablished cor.of secs.19,24,25 and 30.<br>Thence I run,<br>South,bet. secs.25 and 30.<br>Over level land,through greasewood brush. |
| 20.00 | N. end of rocky range brs.W. 8 chs.dist.,100 to 150 ft. high.<br>No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long,1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked<br>¼ S 25 on W.half;<br>S 30 on E.half;<br>1914 on S. rim;<br>dig pits 18x18x12 ins., N.and S.of cor.3 ft. dist., and raise a mound of earth 3½ ft. base,1½ ft. high,W. of cor.<br>From this cor.,the original cor.of secs.25,30,31 and 36, which is a mound of stone, no trace of marked stone, brs. S.77°30'W., 10.96 chs. dist. I destroy mound and all traces of this old cor. |
| 52.00 | South end of rocky ridge, brs.W. 3 chs. |
| 76.00 | Ascend over W. point of mountain, extends E. 3.00 chs.<br>Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point<br>By 1st set, 79.995 chs.<br>By 2nd set, 80.005 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam.,12 ins. in the ground (could not set deeper for solid rock)for reestablished cor.of secs.25,30,31 and 36, with brass cap, marked,<br>T 5 S in N.half;<br>R 1 W, S 25 in NW.,<br>R 1 E S 30 in NE.,<br>S 31 in SE., and<br>S 36 in SW. quadrants;<br>C S R M on E., and<br>1914 in S.rim; from which,<br>A palo verde, 6 ins. in diam., brs.N.79°E.,69 lks.dist., marked T 5 S R 1 E S 30 B T.<br>A palo verde, 5 ins. in diam.,brs.S.36°W.,78 lks.dist., marked T 5 S R 1 W S 36 B T.<br>No other trees within limits. Pits impracticable.<br>Build a mound of stone 5 ft. base,1½ ft.high,around post.<br>Build a mound of stone 4 ft.base, 3 ft.high,W.of cor.<br>After diligent search no trace of the original ¼ sec.cor. of secs. 31 and 36 can be found.<br>Land,north 76 chs. level; south 4 chs. mountainous.<br>Soil, sandy, caliche,12 ins., 2nd rate.<br>Timber, mesquite,palo verde,ironwood.<br>Undergrowth, greasewood and catclaw brush. |
| | South, bet. secs. 31 and 36.<br>Over rolling land, along foot of steep rocky E.slope,100 to 150 ft.high.<br>No difference between measurements of 40.00 chs.by two. sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked |

Chains.

¼ S 36 on W., and
S 31 on E.half;
G S R M on E., and
1914 on S.rim; from which
A palo verde, 6 ins. in diam., brs.N.33°45'E.,84 lks.dist.,marked ¼ S 31 B T.
A palo verde, 5 ins. in diam., brs.N.23° 45'W., 95 lks.dist.,marked ¼ S 36 B T.

Dig pits 18x18x12 ins.N.and S.of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,W.of cor.

At this cor.I set off 15°35' S. on the decl.arc;and at 11h.43m.a.m.l.m.t.,I observe the sun on the meridian; the resulting lat.is 32° 57' N.

No difference bet. measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of Ts.5 and 6 S.,Rs. 1 E.and 1 W., and initial point for the 1st.Standard Parallel South, E. and W.of the Gila and Salt River Meridian, with brass cap, marked
T 5 S in N., and
T 6 S in S.half;
R 1 W S 36 in NW.,
R 1 E S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrants;
G S R M on E edge, and
1914 on S rim; from which,
A palo verde,8 ins. in diam., brs.N.33°E.,49 lks.dist., marked T 5 S R 1 E S 31 B T.
A giant cactus (with 8 branches)14 ins.in diam., 32½ ft.high brs.N.85°W.,145 lks. dist.,

No other trees within limits. Dig pits 24x24x12 ins. in each line E.,W. and N. 4 ft. and S.of cor. 8 ft.dist.

Raise a mound of earth 5½ ft. base, 2½ ft. high,S.of cor.

From this cor. the original Tp.cor., which is a granite stone in place, marked 6 notches on N.and S. faces, and X on top, brs.N.26° 35'W., 22.79 chs.dist., the old bearing tree and giant cactus being dead. I destroy mound and all traces of marks on stone.

Land,north 60 chs., rolling; south 20 chs.level;2nd and 3rd rate soil.

Timber, palo verde,ironwood and catclaw.

Undergrowth, greasewood brush; ocotillo and giant cactus.

November 5, 1914.

| Chains. | |
|---|---|
| | November 6,1914. |
| | At 9h.a.m., l.m.t., I set off 32° 56½'N. on lat.arc; 15°51' S.on the decl.arc, and determine a meridian with the solar at the reestablished cor.of Ts.5 and 6 S.,Rs.1 E. and 1 W. |
| | Thence I run, |
| | South, bet. secs.1 and 6. |
| | Over mountainous land. |
| 9.00 | Ascend steep rocky N.slope. |
| 33.04 | Top of rocky ridge, 430 ft. above Tp. cor. Build a mound of stone 3 ft. base, 2 ft. high at this point on line, and set flag to use as reference. |
| | Descend S. slope. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 12 ins.in the ground (could not set deeper for solid rock);build a mound of stone around post 3 ft.base, 2 ft. high for reestablished ¼ sec.cor., with brass cap, marked<br>¼ S 1 on W., and<br>S 6 on E.half;<br>G S R M on E., and<br>1914 on S.rim;<br>build a mound of stone 4 ft.base, 2½ ft. high,W.of cor. |
| | From the 20 chs. pt. in this mile, the original ¼ sec.cor. of secs.1 and 6, which is a stohe 2x4 ins., 3½ ft. long, marked ¼ on top, brs.west 10.00 chs.dist. Obliterate marking on this old cor. |
| | November 6, 1914. |
| | November 11,1914. |
| | At this cor. at 10h. a.m.,l.m.t., I set off 32°56'N.on the lat.arc; 17°19'S.on the decl.arc, and determine a meridian with the solar. Continue measurement. |
| 45.00 | Enter level land. |
| 65.00 | From this point the original cor. of secs.1,6, 7 and 12, which is a granite stone in place marked,1 notch on N., and 5 notches on S.face, X on top, brs.N.54°20' W., 12.90 chs. dist. I destroy marks and mound. Destroy marks on bearing tree. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs.1,6,7 and 12, with brass cap, marked<br>T 6 S in N.half;<br>R 1 W S 1 in NW.,<br>R 1 E S 6 in NE.,<br>S 7 in SE., and<br>S 12 in SW. quadrants;<br>G S R M on E., and<br>1914 on S.rim;<br>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. |
| | After diligent search, find no trace of original ¼ sec. cor. of secs. 7 and 12. |
| | Land,north 45 chs. mountainous; south 35 chs. level. |
| | Soil, sandy loam on level, 2nd rate. |
| | Timber, palo verde,ironwood and mesquite. Ocotillo and giant cactus. |
| | Undergrowth, greasewood brush. |
| | South, bet. secs.7 and 12. |
| | Over level land, through greasewood brush. |
| 38.70 | Dry wash, 20 lks.wide, 1 ft. banks, course S.80°E. |
| | Difference bet. measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point<br>By 1st set, 40.005 chs.<br>By 2nd set, 39.995 chs., the mean of which is |

20. Resurvey of the Gila and Salt River Mer., through T.6 S.

| Chains. | |
|---|---|
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 12 on W., and<br>S 7 on E. half;<br>G S R M on E., and<br>1914 on S.rim; from which<br>An ironwood,10 ins. in diam., brs.N.55°15'E., 104 lks.dist., marked ¼ S 7 B T.<br>An ironwood,10 ins. in diam., brs.S.57°W.,75 lks.dist., marked ¼ S 12 B T. |
| | South end of hill, brs.W 15 chs. |
| | South end of hill brs.E. 12 chs. |
| 47.00 | Wash, 25 lks. wide, 1 ft. banks, course east. |
| 60.00 | From this point the original cor. of secs. 7,12,13 and 18, which is a decayed post, with marks almost obliterated, brs.N.81°45'W. I destroy this stake and the marks on an ironwood tree, described as a bearing tree in the notes of the original survey. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs.7,12,13 and 18, with brass cap, marked<br>T 6 S in N.half;<br>R 1 W S 12 in NW.<br>R 1 E S 7 in NE.,<br>S 18 in SE., and<br>S 13 in SW. quadrants;<br>G S R M on E., and<br>1914 on S rim; from which,<br>An ironwood 12 ins. in diam., brs.S. 8°W., 157 lks.dist., marked T 6 S R 1 W S 13 B T. |
| | No other trees within limits. Dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise a mound of earth 5½ ft. base, 2½ ft. high, W.of cor. |
| | After diligent search, find no trace of original ¼ sec.cor. of secs.13 and 18. |
| | At this cor.,I set off 17°20' S.on the decl.arc, and at 11h. 54m.a.m.l.m.t., I observe the sun on the meridian; the resulting lat. is 32° 54' N. |
| | Land,level. |
| | Soil, sandy loam, 2nd rate. |
| | Timber, ironwood, palo verde and mesquite. |
| | Undergrowth, greasewood brush. Ocotillo and giant cactus. |
| | --- |
| | South, bet. secs.13 and 18. |
| | Over level land, through greasewood brush. |
| 8.50 | Dry wash, 20 lks.wide, 1 ft. banks, course E. |
| 22.00 | Small knoll, 15 chs. across, bears E.20 chs. |
| | Difference bet. measurements of 40.00 chs. by two sets of chainmen is 1 link;position of middle point,<br>By 1st set, 40.005 chs.<br>By 2nd set, 39.995 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked<br>¼ S 13 on W., and<br>S 18 on E.half;<br>G S R M on E., and<br>1914 on S.rim;<br>dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist., and raise a mound of earth 3½ ft.base, 1½ ft. high, W.of cor. |
| | After diligent search, find no trace of original cor. of secs. 13,18,19 and 24. |
| 51.00 | Ascend over east point of mountains, extends 3 chs.E. |
| | Point 85 ft.high; higher to the west |
| | Difference bet. measurements of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point, |

| Chains. | |
|---|---|
| | By 1st set, 79.995 chs.<br>By 2nd set, 80.005 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs.13,18,19 and 24, with brass cap, marked<br>T 6 S on N. half;<br>R 1 W S 13 in NW.,<br>R 1 E S 18 in NE.,<br>S 19 in SE., and<br>S 24 in SW. quadrants;<br>G S R M on E., and<br>1914 on S. rim;<br>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.<br>Land,level and mountainous.<br>Soil, sandy, 2nd rate.<br>Timber, palo verde,and ironwood.<br>Undergrowth, greasewood brush; ocotillo and giant cactus. |
| | --- |
| | South, bet. secs.19 and 24.<br>Over level land. |
| 5.00 | South end of mountains, bear west 5 chs.dist. |
| 7.30 | Dry wash, 90 lks.wide, 1 ft. banks, course N.80°E. |
| 18.50 | Original ¼ sec.cor. of secs.19 and 24, which is a post in fair state of preservation, marked ¼ S on W.face, bears N.77°30'W., 11.96 chs. dist. I destroy all signs of this old cor.<br>No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked<br>¼ S 24 on W., and<br>S 19 on E.half;<br>G S R M on E., and<br>1914 on S.rim; from which,<br>A palo verde, 6 ins. in diam., brs.S.63°30'E., 106.1lks.dist., marked ¼ S 19 B T.<br>No other tree within limits. Dig pits 18x18x12 ins.,N. and S.of cor. 3 ft. dist., and raise a mound of earth 3½ ft base, 1½ ft. high,W.of cor.<br>November 11, 1914.<br>November 12, 1914:<br>At this cor. at 8h.30m. a.m., l.m.t., I set off 32°53'N. on the lat.arc; 17°34'S. on the decl.arc; and determine a meridian with the solar. Continue measurement. |
| 55.00 | Fromthis point, the original cor.of secs. 19,24,25 and 30, which is a post 3 ft.long, marked<br>S XXIV,<br>R 1 W S XXV,<br>T VI S XIX,<br>R 1 E XXX, brs.S.83°30'W., 13.48 chs.dist.<br>Destroy this old post and also palo verde bearing tree.<br>No difference bet. measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs.19,24,25 and 30, with brass cap, marked<br>T 6 S on N.half;<br>R 1 W S 24 in NW.,<br>R 1 E S 19 in NE.,<br>S 30 in SE., and<br>S 25 in SW.quadrants;<br>G S R M on E., and<br>1914 on S.rim;<br>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. |

22. Resurvey of Gila and Salt River Mer., throug. T. 6 S.

chains.

Land, level.
Soil, sandy, 2nd rate.
Undergrowth, greasewood brush.
Timber, ironwood, and palo verde; ocotillo and giant cactus.

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South, bet. secs. 25 and 30.
Over level land, through greasewood brush.

19.50 Ascend over east end of rocky ridge, which extends 1 chain East.

20.00 From this point, the original ¼ sec.cor. of secs. 25 and 30, would be on a steep rocky E. slope. After diligent search in this locality find no trace of said cor.

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, 40.02chs., the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid rock) build a mound of stone, 3 ft. base, 2 ft. high around post for reestablished ¼ sec.cor., with brass cap, marked,
¼ S 25 on W., and
S 30 on E. half;
G S R M on E., and
1914 on S. rim;
pits impracticable. Build a mound of stone 4 ft. base, 2½ ft. high, W. of cor.

45.00 Top of rocky mountain ridge extends 4 chs. east.

60.00 Point for original cor. of secs. 25, 30, 31 and 36 falls on rocky and rough mountains. After diligent search in this locality, I fail to find any trace of said cor.

65.00 East end of rocky ridge brs. W. 5 chs. dist.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 25, 30, 31 and 36, with brass cap, marked
T 6 S on N. half;
R 1 W S 25 in NW.,
R 1 E S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrants;
G S R M on E., and
1914 on S. rim; from which
An ironwood, 10 ins. in diam., brs. N. 28° E., 222 lks. dist., marked T 6 S R 1 E S 30 B T.
An ironwood, 5 ins. in diam., brs. S. 64° W., 98 lks. dist., marked T 6 S R 1 W S 36 B T.
No other trees within limits. 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 and mountainous.
Soil, sandy, 2nd rate.
Timber, palo verde and ironwood.
Undergrowth, greasewood brush. Ocotillo and giant cactus.

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South, bet. secs. 31 and 36.
Over rolling land.

6.00 Wash, 15 lks. wide, 1 ft. banks, course N. 80° E.

14.50 Wash, 25 lks. wide, 1 ft. banks, course S. 80° E.

15.00 From this point, the original ¼ sec.cor. of secs. 31 and 36, which is a stone in place, 24x16x14 ins. above ground, marked X ¼ on N. face, with mound of stone 3 ft. base, 2 ft. high S. of cor. brs. W. about 12.00 chs. dist. I destroy all trace of this old cor.

19.30 Top of low hill brs. E. and W. Build a mound of stone on line 3 ft. base 2 ft. high, at this point.

28.80 Wash, 15 lks. wide, 2 ft. banks, course E. Thence over N. slope. Ascend 220 ft.

Chains.

Difference between measurements of 40.00 chs. by two sets of chainmen is 5 lks., position of middle point,
By 1st set, 39.975 chs.,
By 2nd set, 40.025 chs., the mean of which is

40.00 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid rock) build a mound of stone 3 ft.base, 1½ ft. high, around post for reestablished ¼ sec.cor., with brass cap, marked
¼ S 36 on W., and
S 31 on E.half;
G S R M on E., and
1914 on S. rim;
pits impracticable. Build a mound of stone 3 ft. base, 2 ft.high, W.of cor.

43.28 Top of ascent, brs.S.80°E. and N.80°W.
Build a mound of stone 3 ft.base, 2 ft.high on line at this point.
Descend SW. slope.

70.26 Foot of descent. Wash 20 lks.wide, 1½ ft. banks, course S.80°E.
At this point, I set off 17°37'S. on the decl.arc; and at 11h. 44m.a.m.l.m.t. observe the sun on the meridian; the resulting lat. is 32° 52' N.

77.85 From this point, the original cor. of Tps. 6 and 7 S., Rs. 1 E. and 1 W., which is a stone and mound of stone, brs. N.23° 15'W. about 20.00 chs. dist. I destroy all traces of this old cor.

Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks., position of middle point is
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. in diam., 24 ins. in the ground for reestablished cor.of Ts. 6 and 7 S., Rs.1 E. and 1 W., with brass cap, marked
T 6 S on N. and
T 7 S on S.half;
R 1 W S 36 in NW.,
R 1 E S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrants;
G S R M on E., and
1914 on S.rim;
pits impracticable. Build a mound of stone 4 ft.base, 2½ ft. high, S.of cor.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering palo verde.
Undergrowth, greasewood brush; ocotillo and giant cactus.

Nov.12,1914.

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24. Resurvey of the Gila and Salt River Meridian thru.T.7 S.

Chains.

Nov.12,1914: continued.
From reestablished cor.of Ts.6 and 7 S., Rs.1 E. and 1 W., I run,
South, bet. secs. 1 and 6.
Over rolling land.
2.50 Wash, 30 wide, 2 ft.banks, course east.
20.00 Ascend small hill. After diligent search, find no trace of original ¼ sec.cor. of secs.1 and 6.
27.27 Descend SW. slope.
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 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked,
¼ S 1 on W., and
S 6 on E.half;
G S R M on E., and
1914 on S.rim; from which,
A palo verde, 7 ins. in diam., brs.S.77°30'E., 20 lks.dist., marked ¼ S 6 B T.
A palo verde, 8 ins. in diam., brs.S.73°30'W., 60 lks.dist., marked ¼ S 1 B T.
45.00 Wash, 50 lks.wide, 2 ft. banks,course E.
54.00 Wash, 60 lks.wide, 1½ ft. banks, course N.70°E.
55.00 After diligent search, find no trace of original cor.of secs. 1,6,7 and 12.
70.80 Dry wash, 15 lks.wide, 3 ft.banks, course E.
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. in diam., 24 ins. in the ground for reestablished cor. of secs. 1,6,7 and 12, with brass cap, marked
T 7 S in N. half;
R 1 W S 1 in NW.,
R 1 E S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrants;
G S R M on E., and
1914 on 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, north half rolling; southhalf level.
Soil,sandy and gravelly, 2nd and 3rd rate.
Timber, palo verde and ironwood.
Undergrowth, greasewood brush.

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South, bet. secs.7 and 12.
Over level land, through greasewood brush.
15.00 After diligent search, find no trace of original ¼ sec. cor.of secs.7 and 12.
16.00 Wash, 12 lks. wide, 2 ft. banks, course N.80°E.
25.00 Enter rolling land.
Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point,
By 1st set, 40.005 chs.,
By 2nd set, 39.995 chs., the mean of which is
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked
¼ S 12 on W., and
S 7 on E. half;
G S R M on E., and
1914 on S.rim;
dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist.,

Chains.

and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

A small butte, 10 chs. base, 100 ft.high, brs.E.12 chs.; mound of stone on summit.

48.60 At this point, at 4h.p.m., l.m.t., I set off 32°50'N.on the lat.arc; 17°39'S.on the decl.arc, and determine a meridian with the solar. The meridian thus determined falls on flag on line 2 miles dist.

At 4h.02m., p.m.,l.m.t.,(still light) I observe Polaris at Eastern elongation, and lay off the azimuth of Polaris 1°22' to the W., and find that the meridian thus determined coincides with the meridian determined by the solar apparatus. I conclude that the adjustments of the solar apparatus are satisfactory.

November 12, 1914.

November 13, 1914.

At same point on line at which above observations were taken, at 8h. a.m., l.m.t., I set off 32° 50'N.on the lat.arc; 17°49'S. on the decl.arc, and determine a meridian with the solar.

A round mountain 20 chs.base, 225 ft.high, brs.W.20 chs. dist. This being the only round mountain in this vicinity, and as such a topographical feature is described in field notes of original survey as being bet. secs.19 and 24, there is evidently about 2 miles difference in comparative measurement.

51.50 Wash, 20 lks.wide, 2 ft.banks, course N.85°E.

After diligent search in this locality I failed to find any trace of original cor.of secs.7,12,13 and 18, with No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs.7,12,13 and 18, with brass cap,marked

T 7 S in N.half;
R 1 W S 12 in NW.,
R 1 E S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrants;
G S R M on E., and
1914 on S.rim;

dig pits 18x18x12 in each sec. 5½ ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high,W.of cor.

Land, north 25 chs.,level; south 55 chs.,rolling.

Soil, on level,sandy, rolling, gravelly and rocky, 2nd and 3rd rate.

Timber, palo verde, mesquite,ironwood.

Undergrowth, greasewood, catsclaw, 4 to 5 ft.high;ocotillo and giant cactus.

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South, bet. secs.13 and 18.

Over rolling land.

3.20 Wash, 50 lks.wide, 2 ft. banks, course N.70° E.

20.00 Old trail, brs.S.70°W. and N.70°E.

At this point, I search for original ¼ sec.cor.of secs. 13 and 18, but fail to find any trace of same.

37.60 Wash, 20 lks.wide, 4 ft.banks, course N.70°E.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam.,26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked

¼ S 13 on W., and
¼ S 18 on E.half;
G S R M on E., and
1914 on S. rim;

dig pits 18x18x12 ins.N.and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high

Chains.

W.of cor.

55.00 After diligent search in this vicinity failed to find any trace of original cor.of secs. 13,18,19 and 24.

56.30 Ravine, 30 lks.wide, 6 ft. deep, course N.15°E.

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. in diam., 24 ins. in the ground, for reestablished cor.of secs.13,18,19 and 24, with brass cap, marked

T 7 S in N.half;
R 1 W S 13 in NW.,
R 1 E S 18 in NE.,
S 19 inSE., and
S 24 in SW. quadrants;
G S R M on E., and
1914 on 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, rolling.

Soil, sandy and gravelly, 3rd rate. Caliche subsoil 18 ins. below surface.

Timber, palo verde, ironwood and mesquite.

Undergrowth, greasewood brush. Ocotillo and giant cactus.

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South, bet. secs.19 and 24.

Over rolling land.

14.50 Wash, 15 lks.wide, 3 ft.banks, course N.60°E.

15.00 In vicinity of this point,I make diligent search for orig. ¼ sec.cor.of secs.19 and 24, but find no trace of same.

36.00 Dry wash, 15 lks.wide, 3 ft.banks, course N.70°E.

No difference bet. measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked

¼ S 24 on W.,and
S 19 on E.half;
G S R M on E., and
1914 on S.rim; from which

A palo verde, 6 ins. in diam., brs.N.76°45'W., 34 lks.dist., marked ¼ S 24 B T.

A palo verde, 10 ins.in diam., brs.N.48°15'E., 75 lks.dist., marked ¼ S 19 B T.

51.60 Wash, 15 lks.wide, 5 ft.banks, course N.45°E.

60.00 Diligent search in vicinity of this point reveals no trace of original cor.of secs.19,24,25 and 30.

71.00 Wash, 20 lks.wide, 2 ft.banks, from S.70°W.,to E.

No difference between measurements of 80.00 chs. by two sets of chainmen.

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

T 7S on N.half;
R 1 W S 24 in NW.,
R 1 E S 19 in NE.,
S 30 in SE., and
S 25 in SW. quadrants;
G S R M on E., and
1914 on 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,rolling.

Soil,sandy and gravelly, 3rd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood and catsclaw.

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| Chains. | |
|---|---|
| | South, bet. secs. 25 and 30. |
| | Over rolling land. |
| 3.10 | Wash, 25 lks.wide, 3 ft.banks, course N.30°E. |
| 20.00 | Diligent search in vicinity of this point reveals no trace of the original ¼ sec.cor.of secs.25 and 30. |
| 28.40 | Wash, 25 lks.wide, 4 ft.banks, course N.30°E. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked<br>¼ S 25 on W., and<br>S 30 on E.half;<br>G S R M on E. and<br>1914 on S.rim;<br>dig pits 18x18x12 ins., N.and S.of cor.3 ft. dist.,and raise a mound of earth 3½ ft.base, 1½ ft. high,W.of cor. |
| | At this corner, I set off 17° 53' S. on the decl.arc,and at 11h.44m.a.m.l.m.t. I observe the sun on the meridian; the resulting lat.is 32° 47' 30"N. |
| 50.30 | Ravine, 50 lks.wide, 6 ft. deep, course N.40°E. |
| 56.40 | Ravine, 20 lks.wide, 5 ft. deep, course N.35°E. |
| 60.00 | Diligent search in vicinity of this point reveals no trace of the original cor.of secs. 25,30,31 and 36. |
| 70.00 | Ravine, 15 lks.wide, 4 ft.deep, course N.20°E. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point,<br>By 1st set, 79.995 chs.<br>By 2nd set, 80.005 chs., the mean of which is |
| 80.00 | Set an iron post, 3 ft.long, 3 ins. in diam., 12 ins. in the ground (could not set deeper for solid rock)build a mound of stone 4 ft.base, 2 ft.high, around post for reestablished cor.of secs. 25,30, 31 and 36, with brass cap, marked<br>T 7 S on N.half;<br>R 1 W S 25 in NW.,<br>R 1 E S 30 in NE.,<br>S 31 in SE., and<br>S 36 in SW. quadrants;<br>G S R M on E., and<br>1914 on S. rim; from which,<br>A palo verde, 8 ins. in diam., brs.N.37° 30'E., 138 lks.dist., marked T 7 S R 1 E S 30 B T.<br>A palo verde, 6 ins. in diam., brs.S 64°30'E.,132 lks.dist., marked T 7 S R 1 E S 31 B T.<br>A palo verde, 6 ins. in diam., brs.S.49°30'W.- 205 lks.dist., marked T.7 S R 1 W S 36 B T.<br>A palo verde, 5 ins. in diam., brs.N.60°W.,153 lks.dist., marked T 7 S R 1W S 25 B T. |
| | Land, rolling. |
| | Soil,sandy and gravelly, 3rd rate. |
| | Timber, palo verde, and ironwood. |
| | Undergrowth, greasewood brush. Ocotillo and giant cactus. |
| | --- |
| | South, bet. secs.31 and 36. |
| | Over mountainous land. |
| 10.00 | Ascend rocky NE. slope. Quartz and mica schist formation. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 5 lks., position of middle point<br>By 1st set 39.975 chs.,<br>By 2nd set, 40.025 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., in a mound of stone 4 ft.base, 2½ ft. high for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 36 on W., and<br>S 31 on E.half; |

28. Resurvey of the Gila and Salt River Mer., thru T. 7 S.

Chains.

G S R M on E., and
1914 on S.rim; pits impracticable.
Build a mound of stone 4 ft. base, 2½ ft. high W. of cor.
This cor. is established on top of ridge 430 ft. high, brs. E. and W.
This ridge in the original field notes is described as being at the 31.00 chain point on line bet. secs. 1 and 6, T. 8 S., which makes a difference of 70 chs. in the topography of the two lines.
Nov. 13, 1914.

November 14, 1914.
At this cor. at 10h. a.m., l.m.t. I set off 32°46½' N. on the lat. arc; 18°08' S. on the decl. arc, and determine a meridian with the solar. Continue measurement.

40.10 Build a mound of stone on line 3 ft. base, 2 ft. high, with flag which I use as reference point.
40.50 Over S. slope. Descend 200 ft. to
48.20 Ravine, course SW.
Ascend NW. slope.
50.20 Change to W. slope.
58.00 Over S. slope. Descend 120 ft. to
64.00 Ravine, 50 lks. wide, 10 ft. deep, course SW.
Ascend N. slope.
75.00 Change to E. slope.
Difference bet. 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 Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground, (could not set deeper for solid rock), build a mound of stone 4 ft. base, 2 ft. high around post for reestablished cor. of Ts. 7 and 8 S., Rs. 1 E. and 1 W., with brass cap, marked
T 7 S on N., and
T 8 S on S half;
R 1 W S 36 in NW.,
R 1 E S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrants;
G S R M on E., and
1914 on S.rim; pits impracticable.
Build a mound of stone 3 ft. base, 2½ ft. high, S. of cor.
A giant cactus brs. S. 1° W., 10 lks. dist.
Diligent search in proximity to line through preceeding mile failed to reveal any trace of original ¼ sec. cor. or Tp. cor.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, palo verde.
Undergrowth, greasewood brush. Ocotillo and giant cactus.
Nov. 14, 1914.

| Chains. | |
|---|---|
| | Nov.14, 1914, continued. |
| | From reestablished cor.of Ts.7 and 8 S.,Rs.1 E. and 1 W., I run, |
| | South, bet. secs.1 and 6. |
| | Over mountainous land. |
| | On east slope. |
| 2.00 | Over SE. slope. Descend 50 ft.to |
| 7.00 | Ravine, course SW. Ascend NW. slope. |
| 12.00 | Change to west slope. |
| 17.50 | Enter level land. |
| | Diffference 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 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked |
| | ¼ S 1 on W., and |
| | S 6 on E.half; |
| | G S R M on E., and |
| | 1914 on S rim; from which, |
| | A palo verde, 8 ins. in diam., brs.N 43°30'E., 248.1lks.dist., marked ¼ S 6 B T. |
| | An ironwood 8 ins. in diam., brs.N.57°15'W., 106 1lks.dist., marked ¼ S 1 B T. |
| | At this cor.,I set off 18°9'S., on the decl.arc, and at 11h.44m.a.m.l.m.t., I observe the sun on the meridian; the resulting lat.is 32°45'N. |
| | November 14, 1914. |
| | November 18, 1914. |
| | At above cor., at 8h. a.m.,l.m.t., I set off 32° 45½N.on the lat.arc; 19°07'S. on the decl.arc and determine a meridian with the solar. |
| | Continue measurement. |
| 64.00 | Wash, 20 lks.wide, banks shallow, course S.80°E. |
| 72.30 | Wash, 30 lks.wide, 2 ft. banks, course E. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs.1,6,7 and 12, with brass cap, marked |
| | T 8 S on N.half; |
| | R 1 W S 1 in NW., |
| | R 1 E S 6 in NE., |
| | S 7 in SE., and |
| | S 12 in SW. quadrants; |
| | G S R M on E., and |
| | 1914 on 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. |
| | Diligent search in proximity to line through preceding mile failed to reveal any trace of original ¼ sec.or sec.cor. |
| | Land,north 17 chs., mountainous; south 63 chs. rolling. |
| | Soil, sandy and gravelly, caliche 12 to 18 ins., 3rd rate. |
| | Timber, ironwood and palo verde. |
| | Undergrowth, greasewood and catclaw brush. |
| | Ocotillo and giant cactus. |
| | --- |
| | South, bet. secs.7 and 12. |
| | Over rolling land. |
| 13.00 | Wash, 10 lks.wide, 1 ft. banks, course N.80°E. |
| 21.00 | Ravine, 90 lks.wide, 6 ft. deep, course NE. |
| 32.70 | Ravine,120 lks.wide, 12 ft. deep, course N.75°E., which has thick growth of ironwood and palo verde along banks. |
| | Difference between measurements of 40.00 chs. by two sets |

Chains.

of chainmen is 1 lk., position of middle point.
By 1st set, 40.005 chs.,
By 2nd set, 39.995 chs., the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked
¼ S 12 on W., and
S 7 on E.half;
G S R M on E., and
1914 on S.rim;
dig pits 18x18x12 ins., N.and S.of cor., 3 ft.dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

59.20 Wash, 10 lks.wide, 1 ft.banks, course N.60°E.

68.00 Wash, 15 lks.wide, 2 ft. banks, course E.

78.20 Wash, 15 lks.wide, 3 ft. banks, course N.85°E.

No difference between measurements of 80.00 chs.by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 7, 12, 13 and 18, with brass cap, marked
T 8 S on N.half;
R 1 W S 12 in NW.,
R 1 E S 7 in NE.,
S 18 in SE., and
S 13 in SW.quadrants;
G S R M on E., and
1914 on S.rim;
pits impracticable. Build a mound of stone 4 ft. base, 2½ ft. high, W. of cor.

Diligent search in proximity to line through preceding mile failed to reveal any trace of old ¼ sec.cor.

Land, rolling.

Soil, gravelly, 3rd rate.

Timber, ironwood and palo verde.

Undergrowth, greasewood and catclaw brush; ocotillo and giant cactus.

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South, bet. secs.13 and 18.

Over rolling land.

6.00 Wash, 120 lks.wide, 3 ft. banks, course N.80° E.

9.00 Wash, 80 lks.wide, 2 ft.banks, course N.80°E.

30.20 Wash, 10 lks.wide, 1 ft. banks, course E.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked
¼ S 13 on W., and
S 18 on E half;
G S R M on E., and
1914 on S.rim;
dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W.of cor.

East end of low hill, 12 chs.long, brs.W.8 chs.

42.00 Wash, 20 lks.wide, 4 ft.banks, course N.80°E.

55.80 Wash, 15 lks.wide, 3 ft. banks, course E.

62.70 Wash, 10 lks.wide, 2 ft. banks, course E.

70.20 Wash, 15 lks.wide, 3 ft. banks, course S.85° E.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs. 13, 18, 19 and 24, with brass cap, marked
T 8 S on N.half;
R 1 W S 13 in NW.,
R 1 E S 18 in NE.,

| Chains. | |
|---|---|
| | S 19 in SE., and<br>S 24 in SW. quadrants;<br>G S R M on E., and<br>1914 on S. rim;<br>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.<br>Diligent search in proximity to line through preceding mile failed to reveal any trace of original ¼ sec. or sec. cor.<br>Land, rolling.<br>Soil, gravelly with caliche, 1 ft. deep, 3rd rate.<br>Timber, ironwood and palo verde.<br>Undergrowth, greasewood and catclaw brush. Ocotillo and giant cactus. |
| | --- |
| | South, bet. secs. 19 and 24.<br>Over rolling land. |
| 5.60 | Wash, 40 lks. wide, N. bank 2 ft. S. bank, 8 ft. high, course N. 80° E. |
| 28.20 | Ravine, 40 lks. wide, 6 ft. banks, course E. |
| 35.40 | Ravine, 40 lks. wide, 6 ft. banks, course E. |
| 38.60 | Ravine, 50 lks. wide, 5 ft. banks, course E. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 1 link, position of middle point,<br>By 1st set, 40.005 chs.<br>By 2nd set, 39.995 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 24 on W., and<br>S 19 on E. half;<br>G S R M on E., and<br>1914 on S. rim;<br>dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.<br>At this cor. I set off 19° 09' S. on the decl. arc, and at 11h. 45m. a.m. l.m.t., I observe the sun on the meridian; the resulting lat. is 32° 43' N. |
| 49.50 | Wash, 20 lks. wide, 3 ft. banks, course N. 50° E. |
| 63.20 | Wash, 15 lks. wide, 3 ft. banks, course E. |
| 70.00 | Small hill, 12 chs. long, 80 ft. high, brs. W. 12 chs. |
| 76.90 | Wash, 20 lks. wide, 4 ft. banks, course E. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks., position of middle point<br>By 1st set, 79.97 chs.<br>By 2nd set, 80.03 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 19, 24, 25 and 30, with brass cap, marked<br>T 8 S on N. half;<br>R 1 W S 24 in NW.,<br>R 1 E S 19 in NE.,<br>S 30 in SE., and<br>S 25 in SW. quadrants;<br>G S R M on E., and<br>1914 on S. rim;<br>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.<br>Diligent search in proximity to line through preceding mile fails to reveal any trace of old ¼ sec. or sec. cor.<br>Land, rolling.<br>Soil, gravelly, 3rd rate.<br>Undergrowth, greasewood brush.<br>Timber, palo verde, and ironwood. Ocotillo and giant cactus. |
| | --- |

| Chains. | |
|---|---|
| | South, bet. secs.25 and 30. |
| | Over rollingland. |
| 12.47 | Build a mound of stone 3 ft.base, 2 ft.high, at this point on line. |
| 12.60 | Road, Gila Bend to Vekol brs.N.70°W. and S.70°E. |
| | Good well on this road 5 miles W. |
| 21.00 | Ravine, 50 lks.wide, 6 ft. deep, course E. |
| 29.50 | Ravine, 20 lks.wide, 3 ft. deep, course N.80°E. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point, |
| | By 1st set, 39.995 chs., |
| | By 2nd set, 40.005 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked |
| | ¼ S 25 on W., and |
| | S 30 on E.half; |
| | G S R M on E., and |
| | 1914 on S.rim; |
| | dig pits 18x18x12 ins., N.and S. of cor. 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W.of cor. |
| 44.80 | Left bank of wash, 100 lks.wide, 8 ft.banks, course N.80° E. |
| 48.00 | Right bank of same wash. |
| 62.20 | Wash, 20 lks.wide, 3 ft.banks, course N.80°E. |
| 71.20 | Wash, 20 lks.wide, 3 ft.banks, course E. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk., 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. in diam., 24 ins. in the ground, for reestablished cor.of secs. 25,30,31 and 36, with brass cap, marked |
| | T 8 S on N.half; |
| | R 1 W S 25 in NW., |
| | R 1 E S 30 in NE., |
| | S 31 in SE., and |
| | S 36 in SW.quadrants; |
| | G S R M on E., and |
| | 1914 on 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. |
| | Diligent search in proximity to line through preceding mile failed to reveal any trace of original ¼ sec.or sec.cor. |
| | Land, rolling. |
| | Soil, gravelly, 3rd rate. |
| | Timber, ironwood and palo verde. |
| | Undergrowth, greasewood and catclaw brush; ocotillo and giant cactus. |
| | --- |
| | South, bet. secs.31 and 36. |
| | Over rolling land, covered with malpais rock. |
| | Ascend gradual NE. slope. |
| 24.20 | Ravine, 50 lks.wide, 4 ft.deep, course N.70°E. |
| 25.00 | Ascend N.slope of low hill. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point |
| | By 1st set, 39.995 chs. |
| | By 2nd set, 40.005 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid rock); build a mound of stone 3 ft.base, 1½ ft.high around post for reestablished ¼ sec.cor., with brass cap, marked, |
| | ¼ S 36 on W., and |
| | S 31 on E.half; |
| | G S R M on E., and |
| | 1914 on S. rim; pits impracticable. |

| Chains. | |
|---|---|
| | Build a mound of stone 3 ft.base, 2½ ft. high,W.of cor. |
| | At this cor.,I set off 32°41'N. on the lat.arc;19°10'S. on decl.arc, and at 3h.30m.p.m.,l.m.t., I determine a meridian with the solar. |
| | At same cor. at 3h.38m. p.m.,l.m.t., I observe Polaris at Eastern elongation, and lay off the azimuth of Polaris 1°22' to the W. The meridian thus determined intersects a flag set 6 miles N. of this point, as does the meridian determined by the solar. |
| | November 18, 1914. |
| | November 19, 1914: |
| | At same cor. at 8h. a.m.,l.m.t., I set off 32° 41'N., on the lat.arc; 19°20'S. on the decl.arc, and determine a meridian with the solar. |
| | Continue measurement. |
| 40.50 | Top of hill, 70 ft. above level, brs.W. and S.80°E. |
| | Descend S. slope. |
| 49.90 | Foot of hill. |
| 50.50 | Wash, 90 lks.wide, 4 ft.banks, course from S.70° W. to E. |
| 61.80 | Ravine, 30 lks.wide, 4 ft. deep, course N.80°E. |
| 69.10 | Ravine, 30 lks.wide, 3 ft.deep, course N.80° E. |
| | 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 | Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of Ts.8 and 9 S.,Rs. 1 E.and 1 W., with brass cap, marked |
| | T 8 S on N., and |
| | T 9 S on S.half; |
| | R 1 W S 36 in NW., |
| | R 1 E S 31 in NE., |
| | S 6 in SE., and |
| | S 1 in SW. quadrants; |
| | G S R M on E., and |
| | 1914 in S.rim; |
| | dig pits 24x24x12 ins., on each line E.,W.and N.,4 ft. and S.of cor.8 ft. dist., and raise a mound of earth 5½ ft.base, 2½ ft.high,S.of cor. |
| | Diligent search in proximity to line through preceding mile fails to reveal any trace of original ¼ sec. cor. of Tp. cor. |
| | Land, rolling. |
| | Soil, gravelly, 3rd rate. |
| | Timber, ironwood and palo verde. |
| | Undergrowth, greasewood and catclaw brush. Ocotillo and giant cactus. |
| | Nov. 19,1914. |

| Chains. | |
|---|---|
| | Nov.19, 1914: continued: |
| | From reestablished cor.of Ts. 8 and 9 S., Rs.1 E. and 1 W., I run, |
| | South, bet. secs.1 and 6. |
| | Over rolling land. |
| 7.50 | Ravine, 30 lks.wide, 4 ft.banks, course N.70°E. |
| 12.00 | Foot of west end of hill 80 ft.high, which extends 15 chs.E. |
| 37.70 | Ravine, 100 lks.wide, 5 ft. deep, course N.70°E. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks., position of middle point<br>By 1st set, 40.01 chs.<br>By 2nd set, 39.99 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked,<br>¼ S 1 on W.,and<br>S 6 on E half;<br>G S R M on E., and<br>1914 on S.rim;<br>dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist.,& raise a mound of earth 3½ ft. base, 1½ ft. high,W.of cor. |
| 48.00 | Ravine, 100 lks. wide, 5 ft. deep,course N.70°E. |
| 58.60 | Ravine, 60 lks.wide, 4 ft. deep, course E. |
| 73.90 | Ravine, 60 lks.wide,N.bank, 4 ft., S.bank, 16 ft.high, course E. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 1,6,7 and 12, with brass cap, marked<br>T 9 S on N.half;<br>R 1 W S 1 in NW.,<br>R 1 E S 6 in NE.,<br>S 7 in SE., and<br>S 12 in SW. quadrants;<br>G S R M on E., and<br>1914 on S.rim;<br>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. |
| | Diligent search in proximity to line through preceding mile fails to reveal any trace of original ¼ sec.cor. sec.cor. |
| | Land, rolling |
| | Soil, gravelly, 3rd rate. |
| | Timber, ironwood and palo verde. |
| | Undergrowth, greasewood and catclaw brush. Ocotillo and giant cactus. |
| | --- |
| | South,bet. secs.7 and 12. |
| | Over rolling land. |
| 10.20 | Ravine, 40 lks.wide, 4 ft. deep, course E. |
| 19.50 | Ravine, 30 lks.wide, 3 ft. deep, course E. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks., position of middle point<br>By 1st set, 40.01 chs.<br>By 2nd set, 39.99 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked<br>¼ S 12 on W., and<br>S 7 on E.half;<br>G S R M on E.,and<br>1914 on S.rim;<br>dig pits 18x18x12 ins. N.and S.of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,W. of cor. |
| | A giant cactus 12 ins. in diam., 35 ft.high, brs.SE.,14 |

| Chains | |
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| | lks.dist. |
| 62.60 | Ravine, 60 lks.wide, N. bank 5 ft., S bank 16 ft.,course N.80°E. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs. 7,12,13 and 18, with brass cap, marked<br>T 9 S on N.half;<br>R 1 W S 12 in NW.,<br>R 1 E S 7 in NE.,<br>S 18 in SE., and<br>S 13 in SW. quadrants;<br>G S R M on E., and<br>1914 on S.rim;<br>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. |
| | Diligent search in proximity to line,through preceding mile fails to reveal any trace or original ¼ sec.or sec.cor. |
| | Land rolling. |
| | Soil, gravelly, 3rd rate. |
| | Timber, ironwood and palo verde. |
| | Undergrowth, greasewood and catclaw brush. Ocotillo and giant cactus. |
| | --- |
| | South, bet. secs.13 and 18. |
| | Over rolling land. |
| 4.30 | Ravine, 30 lks.wide, 4 ft.deep, course S.80°E. |
| 11.00 | Ravine, 100 lks.wide, 6 ft.deep,course E. |
| 19.50 | Ravine, 30 lks.wide, 3 ft.deep, course N.70°E. |
| | Difference between measurements of 40.00 chs., by two sets of chainmen is 1 lk., position of middle point<br>By 1st set, 39.995 chs.<br>By 2nd set, 40.005 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 18 ins. in the ground (could not set deeper for solid rock ); build a mound of stone 1½ ft. base, 1 ft. high around post for reestablished ¼ sec.cor.,with brass cap, marked<br>¼ S 13 on W., and<br>S 18 on E half;<br>G S R M on E.,and<br>1914 on S.rim; pits impracticable;<br>build a mound of stone 3 ft.base, 2 ft.high,W.of cor. |
| | At this cor.,I set off 19° 23'S. on the decl.arc,and at 11h.45m.a.m.l.m.t., observe the sun on the meridian;the resulting lat.is 32° 39' N. |
| 40.60 | Ravine, 40 lks.wide, 4 ft.deep, course E. |
| 45.00 | Small hill, 12 chs.long, 80 ft.high, extending E.and W., brs.E. 4.00 chs.dist. |
| 75.60 | Ravine, 30 lks.wide, 4 ft. deep, course N.80°E. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk.; position of middle point,<br>By 1st set,80.005 chs.<br>By 2nd set.79.995 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam.,6 ins. in the ground (could not set deeper for solid rock)build a mound of stone 3 ft.base, 2 ft.high around post for reestablished cor.of secs.13,18,19 and 24, with brass cap, marked<br>T 9 S on N.half;<br>R 1 W S 13 in NW.,<br>R 1 E S 18 in NE.,<br>S 19 in SE., and<br>S 24 in SW.quadrants;<br>G S R M on E., and<br>1914 on S.rim; pits impracticable. |

Chains.

Build a mound of stone 3 ft.base, 2½ ft.high,W.of cor.
Diligent search in proximity to line through preceding mile fails to reveal any trace of original ¼ sec. or sec.cor.
Land rolling.
Soil, gravelly,3rd rate.
Timber, ironwood and palo verde.
Undergrowth, greasewood and catclaw brush. Ocotillo and giant cactus.

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South, bet. secs.19 and 24.
Over mountainous land on NE. slope. Ascend 210 ft.to
18.50 Top of ridge, brs.N.40°W. and S 40°E.
Build a mound of stone 3 ft.base, 2 ft.high at this point on line.
Descend SW. slope.
28.20 Foot of descent.
32.40 Wash, 80 lks.wide, 3 ft.banks, course E.
37.20 Wash, 50 lks.wide, 3 ft.banks, course E.
Difference bet. measurements of 40.00 chs. by two sets of chainmen is 6 lks., position of middle point
By 1st set, 39.97 chs.
By 2nd set, 40.03 chs., the mean of which is
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked
¼ S 24 on W., and
S 19 on E half;
G S R M on E., and
1914 on S.rim;
dig pits 18x18x12 ins., N.and S of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,W. of cor.

November 19, 1914.

November 21, 1914.
At this cor., at 9h. a.m., l.m.t., I set off 32° 38'N. on the lat.arc; 19°49'S. on the decl.arc; and determine a meridian with the solar.
Continue measurement.
70.00 Wash,100 lks.wide, 3 ft.banks, course E.
No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs. 19,24,25 and 30, with brass cap, marked
T 9 S on N.half;
R 1 W S 24 in NW.,
R 1 E S 19 in NE.,
S 30 in SE., and
S 25 in SW. quadrants;
G S R M on E., and
1914 on 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.
Diligent search in proximity to line through preceding mile fails to reveal any trace of original ¼ sec.or sec.cor.
Land, north 28 chs. mountainous. South 52 chs. rolling.
Soil in mountains rocky, 4th rate; on rolling, gravelly, 3rd rate.
Timber, palo verde and ironwood; mesquite.
Undergrowth, greasewood and catclaw brush.
Ocotillo, cholla and giant cactus.

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South, bet. secs.25 and 30.
Over rolling land.
18.90 Wash,20 lks.wide, 3 ft.banks, course S.85°E.

| Chains. | |
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| 27.10 | Wash, 30 lks. wide, 3 ft. banks, course E. |
| 28.00 | Enter land, covered with malpais rock. |
| 35.00 | Ascend steep N. slope, covered with malpais boulders. Ascend 145 ft. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk.; position of middle point<br>By 1st set, 40.005 chs.<br>By 2nd set, 39.995 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid rock); build a mound of stone 3 ft. base, 1½ ft. high around post for reestablished ¼ sec. cor., with brass cap, marked,<br>¼ S 25 on W., and<br>S 30 on E. half;<br>G S R M on E., and<br>1914 on S. rim; pits impracticable. |
| | Build a mound of stone 3 ft. base, 2 ft. high, W. of cor. |
| 49.65 | Top of ascent. |
| 52.90 | Build a mound of stone 3 ft. base, 2 ft. high at this point on line. |
| 53.25 | Descend SW. slope to |
| 62.70 | Dry wash 50 lks. wide, 3 ft. banks, course S. 70° E. |
| 66.00 | Ascend steep NE slope. |
| 76.00 | Change to N. slope. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks., position of middle point<br>By 1st set, 79.99 chs.<br>By 2nd set, 80.01 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 4 ft. base, 2½ ft. high for reestablished cor. of secs. 25, 30, 31 and 36, with brass cap, marked<br>T 9 S on N. half;<br>R 1 W S 25 in NW.,<br>R 1 E S 30 in NE.,<br>S 31 in SE., and<br>S 36 in SW. quadrants;<br>G S R M on E. [illegible], and<br>1914 on S. rim; pits impracticable. |
| | Build a mound of stone 3 ft. base, 2½ ft. high, W. of cor. |
| | Diligent search in proximity to line through preceding mile fails to reveal any trace of original ¼ sec. or sec. cor. |
| | Land, mountainous, covered with malpais. |
| | Soil, rocky, 4th rate. |
| | Timber, palo verde and ironwood. |
| | Undergrowth, greasewood and catclaw. |
| | Ocotillo and giant cactus. |
| | November 21, 1914. |
| | --- |
| | November 23, 1914: At 8h. a.m., l.m.t., I set off 32°36½' N. on the lat. arc; 20°13' S. on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 25, 30, 31 and 36. |
| | Thence I run, |
| | South, bet. secs. 31 and 36. |
| | Ascend N. slope. |
| 3.00 | Top of ascent; thence along nearly level top. |
| 39.00 | Descend S. slope. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks., position of middle point<br>By 1st set 40.01 chs.,<br>By 2nd set, 39.99 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone 4 ft. base, 2½ ft. high, for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 31 on W. half;<br>S 36 on E. half;<br>G S R M on E. ~~edge~~, and<br>1914 on S. rim; |

| Chains. | |
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| | Build a mound of stone 3 ft. base, 2½ ft. high, W. of cor. |
| 49.00 | Dry wash, 50 lks. wide, 3 ft. banks, course S. 60° E. |
| 54.84 | Ascend NE. slope to |
| 57.80 | Top of ridge; descend into ravine 20 lks. wide, course E. |
| 60.00 | Change to NE. slope. |
| 78.00 | Change to N. slope. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point<br>By 1st set, 80.005 chs.<br>By 2nd set, 79.995 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 4 ft. base, 2½ ft. high for reestablished cor. of Ts. 9 and 10 S., Rs. 1 E. and 1 W., and initial point for the 2nd Standard Parallel South west of the Gila and Salt River Meridian, with brass cap, marked<br>T 9 S on N., and<br>T 10 S on S. half;<br>R 1 W S 36 in NW.,<br>R 1 E S 31 in NE.,<br>S 6 in SE., and<br>S1 in SW. quadrants;<br>G S R M on E., and<br>1914 on S. rim; pits impracticable. |
| | Build a mound of stone 4 ft. base, 3 ft. high, S. of cor. |
| | Diligent search in proximity to line through preceding mile fails to reveal any trace of original ¼ sec. cor., but at a point N. 82° 45' W., 56.84 chs. dist. from above described reestablished Tp. cor., I find the original Tp. cor., which is a palo verde post, with marks obliterated, in a mound of stone 5 ft. base, 3 ft. high, and bearing tree as described in the original notes. I destroy all trace of this old cor. and bearing tree. |
| | Land, mountainous, covered with malpais rock. |
| | Soil, gravelly and rocky, 4th rate. |
| | Timber, palo verde. |
| | Undergrowth, catclaw and greasewood. Ocotillo and giant cactus. Cholla. |
| | Nov. 23, 1914, to be continued. |

| Chains. | |
|---|---|
| | Nov. 23, 1914; continued: |
| | From reestablished cor. of Ts. 9 and 10 S., Rs. 1 E. and 1 W., I run, |
| | South, bet. secs. 1 and 6. |
| | Over mountains. |
| | Ascend N. slope. |
| 5.90 | Top of ridge, brs. E. and W. Build a mound of stone 5 ft. base, 3 ft. high at this point on line. |
| | At this point, at 10h. a.m., l.m.t., I set off 32°35½' N. on the lat. arc; 20°15' S. on the decl. arc, and determine a meridian with the solar, which meridian intersects my flag set 24 miles north. |
| | Descend S. slope. |
| 20.80 | Ravine, 50 lks. wide, 3 ft. deep, course S. 70° E. |
| 22.00 | Ascend N. slope. |
| 29.60 | Top of ridge, brs. E. and W., extends 15 chs. E. Descend S. slope. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 5 lks., position of middle point |
| | By 1st set, 40.025 chs., |
| | By 2nd set, 39.975 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper on account of solid rock); build a mound of stone 2 ft. base, 1½ ft. high, around post for reestablished ¼ sec. cor., with brass cap, marked |
| | ¼ S 1 on W., and |
| | S 6 on E. half; |
| | G S R M on E., and |
| | 1914 on S. rim; pits impracticable. |
| | Build a mound of stone 3 ft. base, 2 ft. high, W. of cor. |
| | Enter rolling land. |
| 46.80 | Wash, 40 lks. wide, 3 ft. banks, course S. 85° E. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 1, 6, 7 and 12, with brass cap, marked |
| | T 10 S on N. half; |
| | R 1 W S 1 in NW., |
| | R 1 E S 6 in NE., |
| | S 7 in SE., and |
| | S 12 in SW. quadrants; |
| | G S R M on E., and |
| | 1914 on S. rim; from which |
| | A mesquite, 10 ins. diam., brs. S. 4° 45' W., 148 lks. dist., marked T 10 S R 1 W S 12 B T. |
| | A mesquite, 10 ins. in diam., brs. N. 37° 45' W., 123 lks. dist., marked T 10 S R 1 W S 1 B T. |
| | No other trees within limits; pits impracticable. |
| | Build a mound of stone 3 ft. base, 2½ ft. high, W. of cor. |
| | At this cor. I set off 20° 17' S. on the decl. arc, and at 11h. 46m. a.m. l.m.t. I observe the sun on the meridian; the resulting lat. is 32° 35' N. |
| | Land, north half hilly; south half rolling. |
| | Soil, rocky and gravelly, 3rd and 4th rate. |
| | Palo verde and mesquite. |
| | Undergrowth, greasewood and catsclaw brush. |
| | Ocotillo, giant cactus and cholla. |
| | --- |
| | South, bet. secs. 7 and 12. |
| | Over a gradual E. slope. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point |
| | By 1st set, 40.005 chs., |
| | By 2nd set, 39.995 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. lomg, 1 in. in diam., 12 ins. in the ground (could not set deeper on account of solid rock). build a mound of stone 3 ft. base 1½ st. high |

Chains.

around post for reestablished ¼ sec.cor., with brass cap, marked
¼ S 12 on W., and
S 7 on E.half;
G S R M on E., and
1914 on S.rim; pits impracticable.
Build a mound of stone 4 ft. base, 3 ft.high, W.of cor.

50.00 Enter rolling land.

61.00 Wash, 100 lks.wide, 3 ft.banks, course S.75°E.

Difference between measurements of 80.00 chs.by two sets of chainmen is 1 lk. Position of middle point
By 1st set, 80.05 chs.
By 2nd set, 79.995 chs., the mean of which is

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 12 ins. in the ground (could not set deeper on account of solid rock) build a mound of stone 3 ft.base, 1½ ft. high around post for reestablished cor.of secs.7,12,13 and 18, with brass cap, marked
T 10 S on N.half;
R 1 W S 12 in NW.,
R 1 E S 7 in NE.,
S 18 in SE., and
S 13 in SW.quadrants;
G S R M on E., and
1914 on S.rim; pits impracticable.
Build a mound of stone 4 ft.base, 3 ft.high, W.of cor.
Land, rolling with gradual E.slope.
Soil, rocky and gravelly, 3rd and 4th rate.
Timber, palo verde, mesquite.
Undergrowth, greasewood and catsclaw. Ocotillo and giant cactus.

November 23, 1914.

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November 24, 1914.
At 8h. a.m., l.m.t., I set off 32°34'N.on the lat.arc; 20° 26'S.on the decl.arc; and determine a meridian with the solar, at reestablished cor.of secs.7,12,13 & 18.
Thence I run,
South, bet. secs.13 and 18.
Over rolling land.

22.00 Wash, 30 lks.wide, 3 ft.banks, course S.70°E.

32.90 Wash, 60 lks.wide, 6 ft.banks, course E.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked
¼ S 13 on W., and
S 18 on E.half;
G S R M on E., and
1914 on S.rim;
dig pits 18x18x12 ins., N.and S of cor., 3 ft.dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W.of cor.
Enter level land, with gradual E.slope.
Difference between 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.in diam., 24 ins.in the ground for reestablished cor.of secs. 13,18,19 and 24, with brass cap, marked
T 10 S on N.half;
R 1 W S 13 in NW.,
R 1 E S 18 in NE.,
S 19 in SE., and
S 24 in SW. quadrants;
G S R M on E., and

| Chains | |
|---|---|
| | 1914 on S.rim;<br>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, north half, rolling; south half, level. |
| | Soil, rolling, gravelly and rocky, 3rd rate on S. half; sandy loam, 2nd rate on N. half. |
| | Timber, palo verde and mesquite. |
| | Undergrowth, greasewood and catsclaw. |
| | Yucca palms. |
| | --- |
| | South, bet. secs. 19 and 24. |
| | Over level land, through greasewood brush. |
| 17.80 | Wash, 20 lks. wide, 2 ft. banks, course E. |
| 33.80 | Wash, 10 lks. wide, 1 ft. banks, course E. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 24 on W., and<br>S 19 on E. half;<br>G S R M on E., and<br>1914 on S. rim;<br>dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor. |
| 47.80 | Wash, 10 lks. wide, 1 ft. banks, course S. 80° E. |
| 62.60 | Wash, 10 lks. wide, 2 ft. banks, course S. 85° E. |
| 75.80 | Wash, 15 lks. wide, 1 ft. banks, course E. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft. long, 3 ins, in diam., 24 ins. in the ground for reestablished cor. of secs. 19, 24, 25 and 30, with brass cap, marked<br>T 10 S on N. half;<br>R 1 W S 24 in NW.,<br>R 1 E S 19 in NE.,<br>S 30 in SE., and<br>S 25 in SW. quadrants;<br>G S R M on E., and<br>1914 on S. rim; from which,<br>A mesquite, 12 ins. in diam., brs. N. 38° 45' E., 68 lks. dist., marked T 10 S R 1 E S 19 B T.<br>A mesquite, 10 ins. in diam., brs. S. 25° E., 186 lks. dist., marked T 10 S R 1 E S 30 B T.<br>A mesquite, 10 ins. in diam., brs. S. 34° W., 133 lks. dist., marked T 10 S R 1W S 25 B T.<br>A mesquite, 4 ins. in diam., brs. N. 85° W., 23 lks. dist., marked T 10 S R 1 W S 24 B T. |
| | Land, level. |
| | Soil, sandy loam, 1st rate. |
| | Timber, mesquite, catsclaw and palo verde. |
| | Undergrowth, greasewood. Yucca palms. |
| | --- |
| | South, bet. secs. 25 and 30. |
| | Over level land, through greasewood brush. |
| 1.50 | Wash, 10 lks. wide, 1 ft. banks, course east. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked,<br>¼ S 25 on W., and<br>S 30 on E. half;<br>G S R M on E., and<br>1914 on S. rim;<br>dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., |

42. Resurvey of Gila and Salt River Meridian, through T. 10 S.

Chains.

and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

40.75 Old road brs. S. 70° E. and N. 70° W.

57.80 Wash, 80 lks. wide, 2 ft. banks, course N. 80° E.

No difference between measurements of 80.00 chs. by two sets of chainmen.

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

T 10 S on N. half;
R 1 W S 25 on NW.,
R 1 E S 30 in NE.,
S 31 in SE. and
S 36 in SW. quadrants,
G S R M on E., and
1914 on S rim; from which

See 1934 description

A mesquite 4 ins. in diam., brs. S. 32° E., 139 lks. dist., marked T 10 S R 1E S 31 B T.

A mesquite 6 ins. in diam., brs. N. 61° 30' W., 168 lks. dist., marked T 10 S R 1 W S 25 B T.

No other trees within limits. 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.

Soil, sandy loam, 1st rate.

Timber, mesquite and palo verde.

Undergrowth, greasewood and catsclaw.

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South, bet. secs. 31 and 36.

Over level land, through greasewood brush.

7.45 Road Cazalon to Maricopa brs. NE. and SW.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft. long 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked

¼ S 36 on W., and
S 31 on E. half;
G S R M on E., and
1914 on S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

Cazalon brs. S. 52° 30' W., about 60.00 chs. dist.,

50.96 Small rocky ridge, 5.00 chs. wide. Raise a mound of stone 5 ft. base, 3 ft. high on line at this point.

62.10 Fence brs. E. and W. Enter field about 4.00 chs. wide, 10.00 chs. long.

66.00 leave field.

76.80 Road brs. NE. and SW.

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 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of Ts. 10 and 11 S., Rs. 1 E. and 1 W., and initial point for the 2nd. Standard Parallel S., E. of the Gila and Salt River Meridian, with brass cap, marked

T 10 S on N., and
T 11 S on S. half;
R 1 W S 36 in NW.,
R 1 E S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrants,
G S R M on E., and
1914 on S. rim; from which

A mesquite 4 ins. in diam., brs. N. 24° 20' W., 113 lks. dist., marked T 10 S R 1 W S 36 B T.

No other trees within limits.

| Chains. | |
|---|---|
| | Dig pits 24x24x12 ins., on each line E.,W.and N.,4 ft.,and S.of cor. 8 ft. dist., and raise a mound of earth 5½ ft. base, 2½ ft. high,S.of cor. |
| | Land,level. |
| | Soil, sandy loam, 1st rate. |
| | Timber, mesquite and palo verde. |
| | Undergrowth, greasewood brush. |
| | Note: A diligent search was made to locate the old corners in T.10 S., and failed to find any signs of same. |
| | W.H.T. |
| | November 24, 1914. |

44. Resurvey of Second Std.Parallel S., thru.Range 1 East.

| Chains. | |
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| | Resurvey commenced November 28, 1914, and executed by W. H.Thorn,U.S.Surveyor, with a Young and Sons' light mountain transit No.8592, with Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. |
| | I examine the adjustments of the transit, and correct the level and collimation errors; also adjust the adjustments of the solar apparatus. |
| | At 9h. a.m.,l.m.t., I set off 32° 30½' N. on the lat.arc; 21° 13' S. on the decl.arc, and determine a meridian with the solar at the reestablished cor.of Ts.10 and 11 S., Rs.1 E. and 1 W. hereinbefore described. No subdivision lines being connected to the Parallel through Rs.1,2,3,4,5,6 and 7 E., of the G.and S.R.Meridian, I resurvey the same independent of the old cors., destroying same where found. |
| | East, on a true line on S.bdy.of sec.31. |
| | Over nearly level land. |
| 4.00 | Enter rocky ground, brs.N 40°E. and S.40°W. |
| 8.60 | Build mound of stone 3 ft.base, 2 ft.high,on line. |
| 14.00 | Leave rocky ground and enter level land. |
| 24.00 | After diligent search no signs of the old standard cor. of secs.31 and 32 are found. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long, 1 in, in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with grass cap, marked<br>S C ¼ S 31 in N.half;<br>1914 on S.rim;<br>dig pits 18x18x12 ins. E.and W.of cor.,3 ft. dist., and raise a mound of earth 3½ ft. base,1½ ft. high,N. of cor. |
| 48.50 | Enter rolling, rocky land, bearing N.15°E. and S.80°W. |
| 63.00 | Two Indian huts bear N.15.00 chs.dist. |
| 67.50 | The old standard ¼ sec.cor. of sec.32, which is a stone marked ¼ S C on N. face, brs. N 26°W., 6.06 chs.dist. I destroy all signs of the old cor. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs. 31 and 32, with brass cap, marked<br>S C on N.half<br>T 10 S S 31 in NW. and [illegible];<br>R 1 E S 32 in NE. quadrant,<br>1914 on S.rim. |
| | Build a mound of stone 3 ft.base, 2½ ft. high,N,of cor. |
| | Land,level and rolling. |
| | Soil,level,adobe,1st rate. Rolling, gravelly and rocky, 3rd rate. |
| | Timber, mesquite,palo verde and catclaw. |
| | Undergrowth, greasewood. Scattering yucca palms. |
| | East,on a true line on S.bdy. of sec.32. |
| | Over rolling land. |
| 11.00 | Enter level land, which is 8.00 chs.wide, and extending S.15.00 chs. This strip of level brs. S. 10°E. and N.10° W. |
| 25.00 | The old standard cor. of secs. 32 and 33, which is a stone marked S C brs. N. 5.56 chs. dist., I destroy this old cor. |
| | Ascend gradual NW. slope of low rocky hill. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point<br>By 1st set, 40.01 chs.,<br>By 2nd set, 39.99 chs., the mean of which is |

| Chains. | |
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| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., in a mound of stone 3 ft.base, 2½ ft. high,for reestablished standard ¼ sec.cor., with brass cap, marked<br>S C ¼ S 32 on N.half;<br>1914 on S.rim;<br>build a mound of stone 3 ft.base, 2 ft.high,N.of cor. |
| 62.04 | Build mound of stone 3 ft.base, 2 ft.high on line. |
| 63.00 | Descend over a N and NE. slope. |
| 65.00 | The old standard ¼ sec.cor. of sec.33, which is a stone marked ¼ S C on N. face brs. N.5°E., 2.25 chs.dist. I destroy this old cor. |
| 73.60 | Ravine,10 lks.wide, 3 ft. deep, course N. 30° E. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 12 ins. in the ground (could not set deeper on account of solid stone); build a mound of stone 4 ft.base, 1½ ft. high, around post for reestablished standard cor.of secs.32 and 33, with brass cap, marked<br>S C on N.half,<br>T 10 S, S 32 in NW., and<br>R 1 E, S 33 in NE.quadrant;<br>1914 on S.rim;<br>build a mound of stone 3 ft.base, 2½ ft. high,N,of cor. |
| | Land,rolling. |
| | Soil, gravelly with caliche, 3rd rate. |
| | Timber, palo verde, mesquite and ironwood. |
| | Undergrowth, greasewood brush. Ocotillo and giant cactus. |
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| | East, on a true line, along south bdy.of sec.33. |
| | Along north slope. |
| 8.60 | Change to NE. slope. |
| 26.13 | The old standard cor.of secs. 33 and 34, which is a malpais stone 14x8x4 ins., marked S C on N.face, 3 notches on E. and W.faces, brs.S.10 lks.dist. I destroy this old cor. |
| 29.00 | Enter level land, bearing N.and S. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked<br>S C ¼ S 33 on N.half; and<br>1914 on S.rim;<br>dig pits 18x18x12 ins., E.and W. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,N. of cor. |
| 55.67 | At this point, I set off 21°15'S. on decl.arc,and at 11h. 47m. a.m.,l.m.t., observe the sun on the meridian; the resulting lat.is 32°30½'N. |
| 64.10 | Road brs.N.80°W. and S.80°E. |
| 65.00 | After diligent search, no signs of the old standard ¼ sec. cor. of sec.34 are found. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point<br>By 1st set, 80.00½ chs.<br>By 2nd set, 79.99½ chs., the mean of which is |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs.33 and 34, with brass cap, marked<br>S C on N.half;<br>T 10 S, S 33 in NW., and<br>R 1 E S 34 in NE. quadrant;<br>1914 on S.rim;<br>dig pits 24x18x12 ins. crosswise on each line E.and W. 3 ft., and N.of cor. 7 ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor. |
| | Land, west 29 chs. rolling, east 51 chs.,level. |
| | Soil, gravel,3rd rate on rolling land; sandy loam,1st rate on level land. |

Chains.

Mesquite, catclaw and palo verde; greasewood brush, ocotillo and giant cactus.

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East, on a true line, on S.bdy.of sec.34.
Over level land.

23.20 Trail, brs. N.30°E. and S.30°W.

25.00 After diligent search no signs of the old standard cor. of secs. 34 and 35 are found.

27.40 Wash, 20 lks.wide, 4 ft.banks, course N.10°E.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked

S C ¼ S 34 on N.half;
1914 on S.rim

dig pits 18x18x12 ins., E.and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.

65.00 Wash, 30 lks.wide, 3 ft. banks, course SW.

65.59 The old standard ¼ sec.cor.of sec.35, which is a palo verde stake 3½ ft. long with marks almost obliterated. Stake on line, and no other signs of the old cor.are found. Destroy corner stake.

73.10 Old road brs. N.and S.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 18 ins. in the ground (could not set deeper on account of solid rock); build a mound of stone 3 ft.base, 1 ft.high around post for reestablished standard cor. of secs.34 and 35, with brass cap, marked

S C on N.half;
T 10 S, S 34 in NW., and
R 1 E, S 35 in NE.quadrant,
1914 on S.rim;

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

Land, level.
Soil, gravelly, 2nd rate.
Timber, mesquite, palo verde and catclaw, ironwood.
Undergrowth, greasewood brush.

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East, on a true line, on S.bdy.of sec.35.
Over gradual NW. slope.

17.00 Ascend rocky NW. slope of round mountain.

Difference between measurements of 40.00 chs. by two sets of chainmen is 3 lks., position of middle point
By 1st set, 39.98½ chs.
By 2nd set, 40.01½ chs., the mean of which is

40.00 Set an iron post 3 ft.long, 1 in. in diam., in a mound of stone 4 ft.base, 2½ ft. high for reestablished standard ¼ sec.cor., with brass cap, marked

S C ¼ S 35 on N.half;
1914 on S.rim;

build a mound of stone 3 ft.base, 2 ft.high, N.of cor.

53.65 Ravine, 30 lks.wide, 4 ft.deep, course N.10°W.

58.20 Mound of stone 4 ft.base, 2 ft.high, brs.S.15 lks.dist.

From this point, the highest peak of the mountain (400 ft.high) bears S. 16.00 chs.dist.

Descend over NE. slope to cor.

68.95 The old standard ¼ sec.cor. of sec.36 brs.S.1.45 chs. dist., This cor.is a malpais stone 24x8x8 ins. above ground, marked S C ¼ S. I destroy this old cor.

Difference between measurements of 80.00 chs. by two sets of chainmen is 5 lks., position of middle point,
By 1st set, 79.97½ chs.
By 2nd set, 80.02½ chs., the mean of which is

Chains.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., in a mound of stone 4 ft.base, 2½ ft. high, for reestablished standard cor. of secs.35 and 36, with brass cap,marked
S C on N.half;
T 10 S, S 35 in NW., and
R 1 E S 36 in NE. quadrant;
1914 on S.rim;
build a mound of stone 3 ft.base, 2 ft.high,N.of cor.
Land, rolling and mountainous.
Soil, gravelly on rolling portion, 3rd rate. On mountainous portion, 4th rate, rocky.
Timber, palo verde.
Undergrowth, greasewood brush. Ocotillo and giant cactus.
November 28,1914.

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November 30,1914:
At 9h.a.m.,l.m.t., I set off 32°30½' N.on lat.arc;21°34'S. on decl.arc, and determine a meridian with the solar at the reestablished standard cor.of secs.35 and 36.
Thence I run,
East, on a true line, on S. bdy.of sec.36.
Over rolling land.
Descend gradual NE. slope.
21.90 Ravine, 20 lks.wide, 3 ft.deep, course N.10°W.
Ascend gradual SW.slope.
28.90 The old standard cor.of Ts.10 S.,Rs.1 and 2 E., brs.S. 4.35 chs.dist. This cor.is a mound of stone 3 ft. base,1 ft.high. No other signs of the old cor.are found. Destroy mound.
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 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished standard ¼ sec.cor.,with brass cap, marked
S C ¼ S 36 on N.half;
1914 on S.rim;
build a mound of stone 3 ft.base,2½ ft.high,N.of cor.
42.60 Ravine, 25 lks.wide, 3 ft.deep, course N.20°E.
Ascend W. and SW.slope.
77.00 Ravine, 25 lks.wide, 5 ft.deep, course N.10° W.
After diligent search no signs of the old standard ¼ sec. cor.of sec.31 are found.
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. in diam.,24 ins. in the ground for reestablished standard cor.of Ts.10 S., Rs.1 and 2 E., with brass cap, marked
S C T 10 S in N.half;
R 1 E S 36 in NW.,and
R 2 E S 31 in NE. quadrant;
1914 on S. rim;
dig pits 30x24x12 ins., crosswise on each line nE.and W.4 ft.,and N.of cor. 8 ft.dist.; raise a mound of earth 5 ft.base, 2½ ft. high N.of cor.
Land, hilly.
Soil, gravel and rock, 4th rate.
Timber, palo verde,ironwood and catclaw.
Undergrowth, greasewood brush. Ocotillo and giant cactus.
Nov. 30, 1914.

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Chains.

Nov.30,1914: continued.
From reestablished standard cor.of Ts.10 S., Rs.1 and 2 E., hereinbefore described, I run,
East, on a true line, on S.bdy.of sec.31.
Over rolling land and low hills.

28.00 After diligent search no signs of the old standard cor. of secs.31 and 32 are found.

39.00 Ravine, 50 lks.wide, 12 ft.deep, course N.20°W.

Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point
By 1st set 40.00½ chs.
By 2nd set,39.99½ chs., the mean of which is

40.00 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground (could not set deeper on account of solid rock); build a mound of stone 3 ft.base, 1½ ft. high, around post for reestablished standard ¼ sec.cor.,with brass cap, marked
S C ¼ S 31 inN.half;
1914 on S rim;
build a mound of stone 3 ft.base, 2 ft.high,N.of cor.

52.00 At this point, I set off 21°36'S. on the decl.arc;and at 11h.48½m., a.m.,l.m.t., I observe the sun on the meridian; the resulting lat.is 32° 30½'N.

62.58 Ravine, 20 lks.wide, 4 ft. deep, course N.10°W.

68.00 After diligent search no signs of the old standard ¼ sec. cor.of sec.32 are found.

Difference between measurements of 40.00 chs. by two sets of chainmen is 3 lks., position of middle point,
By 1st set, 79.98½ chs.
By 2nd set, 80.01½ chs., the mean of which is

80.00 True point for reestablished standard sec.cor. falls in ravine, 40 lks.wide,12 ft.deep, course west.
Therefore continue measurement, and at

81.10 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for witness cor.to reestablished standard cor. of secs.31 and 32, with brass cap, marked
S C in N.½, W C W.of center;
T 10 S S 31 in NW., and
R 2 E S 32 in NE. quadrant;
1914 on S.rim;
build a mound of stone 4 ft. base, 2½ ft. high,N.of cor.

NOTE: I build a mound of stone 3 ft.base, 2½ ft. high, at the true cor.point and build a mound of stone 2½ ft.base, 2 ft.high, 10 lks.N.

Land, hilly.
Soil, gravel and rock, 4th rate.
Timber, palo verde,ironwood and catclaw.
Undergrowth, greasewood brush; ocotillo, giant cactus and cholla.

November 30, 1914.

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December 1, 1914: From true point for standard cor.of secs. 31 and 32, I run,
East, on true line on S.bdy.of sec.32.
Over hilly land.

1.10 Witness cor. to standard sec.cor. hereinbefore described.

12.77 At this point at 10h. a.m., l.m.t., I set off 32°30½'N.on lat.arc; 21°44'S.on decl.arc, and determine a meridian with the solar.

20.30 Ravine, 40 lks.wide, 5 ft. deep, course N.10°W.

28.00 After diligent search no signs of the old standard cor. of secs. 32 and 33 are found.

Difference between measurements of 40.00 chs. by two sets of chainmen is 4 links; position of middle point
By 1st set, 39.98 chs.
By 2nd set, 40.02 chs., the mean of which is

40.00 Set an iron post 3 ft.long, 1 in. in diam.,12 ins. in the ground (could not set deeper on account of solid

| Chains. | |
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| | rock); build a mound of stone 3 ft.base, 2 ft.high,around post for reestablished standard ¼ sec.cor., with brass cap, marked<br>S C ¼ S 32 in N.half;<br>1914 on S. rim;<br>build a mound of stone 3 ft.base, 2 ft. high, south of cor.(Impracticable to build mound on N.) |
| 66.12 | Foot of ledge on N.slope. Ledge 20 ft. high and 20 ft. wide. |
| | Descend over E. and SE. slope of corner. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks., position of middle point,<br>By 1st set, 80.02 chs.,<br>By 2nd set, 79.98 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 12 ins. in the ground (could not set deeper on account of solid rock). Build a mound of stone 4 ft.base, 2 ft. high around post for reestablished standard cor. of secs. 32 and 33, with brass cap, marked<br>S C in N.half;<br>T 10 S S 32 in NW., and<br>R 2 E S 33 in NE.quadrant;<br>1914 on S.rim;<br>build a mound of stone 4 ft.base, 2½ ft. high,N.of cor. |
| | Land, hilly and mountainous. |
| | Soil, gravel and rocks, 4th rate. |
| | Timber, palo verde, catclaw and ironwood. |
| | Undergrowth, greasewood brush. Ocotillo, giant cactus and cholla. |
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| | East, on a true line, on S bdy.of sec.33. |
| | Over mountainous land. |
| | Descend over E.slope. |
| 9.88 | Ravine, 30 lks.wide, 6 ft. deep, course S. 50°W. |
| | Ascend over SW. slope. |
| 14.80 | Change to broken S.slope. |
| 38.00 | Ascend W. slope. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks., position of middle point<br>By 1st set, 39.97 chs.,<br>By 2nd set, 40.03 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground (could not set deeper on account of solid rock); build a mound of stone 3 ft.base, 1½ ft. high around post for reestablished standard ¼ sec.cor., marked<br>S C ¼ S 33 on N.half;<br>1914 on S rim;<br>build a mound of stone 3 ft.base, 2 ft.high, N.of cor. |
| | Ascend W. slope of mountain. |
| 43.10 | Cor.No.4 of mining claim (Gold Rock lode), brs.N.70 lks. dist. |
| 43.50 | Change to SW. slope. |
| 59.26 | Top of mountain. Descend SE. slope. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 5 links; position of middle point<br>By 1st set, 79.97½ chs.,<br>By 2nd set, 80.02½ chs., the mean of which is |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 18 ins. in the ground (could not set deeper on account of solid stone) build a mound of stone 3 ft. base, 1 ft.high around post for reestablished standard cor. of secs. 33 and 34, with brass cap, marked<br>S C on N.half;<br>T 10S S 33 in NW., and<br>R 2 E S 34 in NE. quadrant;<br>1914 on S.rim. |
| | Build a mound of stone 3 ft.base, 2½ ft. high,N.of cor. |
| | Land, mountainous. |
| | Soil, rocky, 4th rate. |

Chains.

Palo verde and ironwood. Greasewood brush.
Ocotillo, giant cactus and cholla.

December 1, 1914.

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December 4, 1914.
East, on a true line on S.bdy.of sec.34.
Over rolling land.
3.00 Foot of mountain, 305 ft. descent.
7.30 Ravine, 40 lks.wide, 4 ft. deep, course N. 10°E.
8.80 Trail brs.N.10°E. and S.
No difference between measurements of 40.00 chs., by two sets of chainmen.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 18 ins. in the ground (could not set deeper on account of solid rock); build a mound of stone 3 ft.base, 1½ ft. high around post for reestablished standard ¼ sec.cor., marked on brass cap,
S C ¼ S 34 on N.half;
1914 on S.rim;
dig pits 18x18x12 ins., E.and W. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.
At this cor. at 1h. p.m., l.m.t., I set off 32°30½'N.on the lat.arc; and 22°12'S. on the decl.arc, and determine a meridian with the solar.
69.30 Wash, 30 lks.wide, 2 ft. banks, course N.80°E.
71.40 Road to Casa Grande, brs.N.45°E. and S.40°W.
No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor.of secs.34 and 35, with brass cap, marked
S C on N.half;
T 10 S, S 34 in NW., and
R 2 E, S 35 in NE. quadrant;
1914 on S rim;
dig pits 24x18x12 ins., crosswise on each line E.and W.3 ft., and N.of cor. 7 ft.dist.
Raise a mound of earth 4 ft.base, 2 ft.high, N.of cor.
Land, rolling.
Soil, gravelly, 3rd rate.
Timber, palo verde, ironwood and catclaw.
Undergrowth, greasewood brush. Ocotillo and giant cactus.

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East, on a true line on S bdy.of sec.35.
Over slightly rolling land.
26.80 Wash, 20 lks.wide, 3 ft. deep, course N.60°E.
Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk.; position of middle point
By 1st set, 40.00½ chs.
By 2nd set, 39.99½ chs., the mean of which is
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished std.¼ sec.cor., with brass cap, marked
S C ¼ S 35 on N.half;
1914 on S rim;
dig pits 18x18x12 ins., E.and W.of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor. From this corner
An ironwood 18 ins. in diam., brs.S.88°15'E., 235 lks. dist., marked S C ¼ S 35 B T.
At this cor., at 2h.35m.p.m., l.m.t., I observe Polaris at eastern elongation, and lay off the azimuth of Polaris 1°22'to the West. I test my line with this observation, and find it to be within 1' of arc.
43.80 Wash, 80 lks.wide, 2 ft.banks, course N 40°E.

Chains.

65.00 Old road, brs.N.and S.
78.00 Wash, 40 lks.wide, 2 ft.banks, on N., 12 ft.banks on S., course N. 10°E.
No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 18 ins. in the ground (could not set deeper on account of solid stone); build a mound of stone 3 ft. base, 1 ft. high around post for reestablished standard cor. of secs. 35 and 36, with brass cap, marked
S C on N.half;
T 10 S, S 35 in NW., and
R 2 E S 36 in NE. quadrant;
1914 on S rim;
dig pits 24x18x12 ins., crosswise on each line E.and W. 3 ft., and N.of cor., 7 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor.
Land, nearly level.
Soil, sandy and gravelly, 2nd and 3rd rate.
Timber, palo verde,ironwood and catclaw.
Undergrowth, greasewood brush. Ocotillo and giant cactus.
December 4, 1914.

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December 5, 1914.
East, on a true line on S.bdy.of sec.36.
Over nearly level land.
2.00 Road brs.N.20°E. and S.20°W.
17.60 Wash, 15 lks.wide, 2 ft.banks, course N.60°E.
28.00 The old standard cor.of Ts.10 S., Rs.2 and 3 E. brs.S. 5.00 chs.dist. Cor. is mound of stone which I destroy.
38.30 Wash, 100 lks.wide, 4 ft. deep, course N. 10°E.
Difference between measurements of 40.00 chains by two sets of chainmen is 1 lk.; position of middle point
By 1st set, 39.99½ chs.
By 2ndset, 40.00½ chs., the mean of which is
40.00 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground (could not set deeper on account of solid rock); build a mound of stone 3 ft.base,1½ ft. high, around post for reestablished standard ¼ sec.cor., with brass cap, marked
S C ¼ S 36 on N.half;
1914 on S rim;
dig pits 18x18x12 ins., E.and W.of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor.
73.10 Wash, 30 lks.wide, 3 ft. banks, course N.70° E.
No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor.of Ts. 10 S., Rs.2 and 3 E., with brass cap, marked
S C T 10 S in N.half;
R 2 E S 36 in NW., and
R 3 E, S 31 in NE.quadrant;
1914 on S rim; from which,
An ironwood, 5 ins. in diam., brs. N. 85½°E.,358 lks. dist., marked T 10 S R 3 E S 31 B T.
No other trees within limits. Dig pits 30x24x12 ins., crosswise on each line E.and W.4 ft.,and N.of cor.8 ft.dist. Raise a mound of earth 5 ft.base, 2½ ft. high N.of cor.
Land,slightly rolling.
Soil, sandy loam and gravel, 3rd rate.
Timber, palo verde,ironwood and catclaw; cholla,ocotillo and giant cactus.
December 5, 1914.

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Chains.

December 5, 1914, continued:
At 10h. a.m., l.m.t., I set off 32° 30½'N. on the lat.arc; 22°19'S. on the decl.arc, and determine a meridian with the solar at the reestablished standard cor.of Ts.10 S., Rs. 2 and 3 E., hereinbefore described.
Thence I run,
East, on a true line, on S. bdy.of sec.31.
Over slightly rolling land.
16.20 Wash, 40 lks.wide, 2 ft.banks, course N.50°E.
19.40 Road brs.N.40°W. and S.40°E.
37.60 Wash, 15 lks.wide, 1 ft.banks, course N.20°E.
No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked
S C ¼ S 31 on N.half;
1914 on S rim; from which
An ironwood, 10 ins. in diam., brs.N.89°W., 210 lks.dist., marked S C ¼ S 31 B T.
No other trees within limits. Dig pits 18x18x12 ins., E.and W.of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor.
69.80 Wash, 15 lks.wide, 2 ft. banks, course N.80°E.
Difference between measurements of 80.00 chs. by two sets of chainmen is 1 link; position of middle point
By 1st set, 79.99½ chs.
By 2nd set, 80.00½ chs., the mean of which is
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs.31 and 32, with brass cap, marked
S C on N.half;
T 10 S S 31 in NW., and
R 3 E, S 32 in NE.quadrant;
1914 on S.rim;
dig pits 24x18x12 ins. crosswise on each line E.and W.of cor. 3 ft., and N.of cor. 7 ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high, N.of cor.
Land, west half, slightly rolling; east half, level.
Soil, sandy loam with rocky surface, 2nd rate.
Timber, palo verde, ironwood and catclaw.
Undergrowth, greasewood brush; ocotillo and giant cactus; cholla.

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East, on a true line, on S.bdy.of sec.32.
Over level land, through greasewood brush.
36.00 Wash, 10 lks.wide, 1 ft. banks, course N.70°E.
Difference between measurements of 40.00 chs. by two sets of chainmen is 1 link; position of middle point
By 1st set, 39.99½ chs.,
By 2nd set, 40.00½ chs., the mean of which is
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked
S C ¼ S 32 on N.half;
1914 on S rim;
dig pits 18x18x12 ins., E.and W.of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.
67.30 Wash, 15 lks.wide, 1 ft.banks, course N.60°E.
No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins.in the ground for reestablished standard cor. of secs.32 and 33, with brass cap, marked
S C on N.half;
T 10 S, S 32 in NW., and
R 3 E S 33 in NE.quadrants;
1914 on S.rim; from which
An ironwood, 12 ins. in diam., brs.N.85°30'W.,

Chains.

122 lks. dist., marked T 10 S R 3 E S 32 B T.
An ironwood, 5 ins. diam., brs. S. 20° 15' W., 48 lks. dist., marked B T only.
Dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft. and N. of cor., 7 ft. dist. Raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
Land, level.
Soil, sandy loam, 2nd rate.
Timber, palo verde, ironwood and catclaw.
Undergrowth, greasewood brush; ocotillo and giant cactus.
December 5, 1914.

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December 26, 1914:
At 9h. a.m., l.m.t., I set off 23° 21' S. on decl. arc; 32° 30½' N. on lat. arc, and determine a meridian with the solar at the reestablished standard cor. of secs. 32 and 33, hereinbefore described.
Thence I run,
East, on a true line, on south bdy. of sec. 33.
Over level land.

28.00 No trace of the old standard cor. of secs. 33 and 34 can be found.
No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec. cor., with brass cap, marked
S C ¼ S 33 on N. half;
1914 on S. rim; from which,
An ironwood 4 ins. in diam., brs. S. 87° 30' E., 140 lks. dist., marked S C ¼ S 33 B T.
No other tree within limits. Dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.
Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point
By 1st set, 80.00½ chs.
By 2nd set, 79.99½ chs., the mean of which

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs. 33 and 34, with brass cap, marked
S C on N. half;
T 10 S S 33 in NW. and [illegible];
R 3 E S 34 in NE. quadrant;
1914 on S. rim; from which,
An ironwood, 10 ins. in diam., brs. N. 34° W. 124 lks. dist., marked T 10 S R 3 E S 33 B T.
No other trees within limits; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft., and N. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
Land, level.
Soil, sandy loam, 1st rate.
Timber, ironwood, mesquite, palo verde and catclaw.
Greasewood brush.

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East, on a true line on S. bdy. of sec. 34.
Over nearly level land.

28.00 No trace of the old standard cor. of secs. 34 and 35.
Difference between measurements of 40.00 chs. by two sets of chainmen is 1 link, position of middle point,
By 1st set, 40.00½ chs.
By 2nd set, 39.99½ chs., the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec. cor., with brass cap, marked

Chains.

S C ¼ S 34 in N. half;
1914 on S. rim; from which
A mesquite, 8 ins. in diam., brs. N. 53°30' W., 132 lks. dist., marked S C ¼ S 34 B T.

No other tree within limits; dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.

At this cor. I set off 23°22' S. on the decl. arc; and at 11h, 0m., a.m., l.mt., I observe the sun on the meridian; the resulting lat. is 32° 30½ N.

Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk.; position of middle point,
By 1st set, 79.99½ chs.
By 2nd set, 80.00½ chs., the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs. 34 and 35, with brass cap, marked
S C on N. half;
T 10 S, S 34 in NW., and
R 3 E, S 35 in NE. quadrant;
1914 on S. rim;
dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft., and N. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.

Land, level.
Soil, sandy loam, 1st rate.
Timber, ironwood, mesquite, palo verde and catclaw.
Undergrowth, greasewood brush.

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East, on a true line on S. bdy. of sec. 35.
Over level land.
No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec. cor., with brass cap, marked
S C ¼ S 35 on N. half;
1914 on S. rim;
dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs. 35 and 36, with brass cap, marked,
S C on N. half;
T 10 S, S 35 in NW., and
R 3 E, S 36 in NE. quadrants;
1914 on S. rim;
dig pits 24x18x12 ins., crosswise on each line E. and W. 3 ft., and N. of cor., 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.

Land, level.
Soil, sandy loam and adobe, 1st rate.
Timber, scattering mesquite and ironwood.
Undergrowth, greasewood and catclaw brush.

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East, on a true line, on S. bdy. of sec. 36.
Over level land, through greasewood brush.
No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec. cor., with brass cap, marked
S C ¼ S 36 on N. half;
1914 on S. rim;
dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist.,

| Chains. | |
|---|---|
| | and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor. |
| 46.00 | Old road, brs. N. and S. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of Ts. 10 S., Rs. 3 and 4 E., with brass cap, marked<br>S C, T 10 S in N. half;<br>R 3 E S 36 in NW., and<br>R 4 E, S 31 in NE. quadrant;<br>1914 on S. rim;<br>dig pits 30x24x12 ins., crosswise on each line E. and W. 4 ft., and N. of cor. 8 ft. dist. |
| | Raise a mound of earth 5 ft. base, 2½ ft. high, N. of cor. |
| | Land, level. |
| | Soil, sandy loam, 1st rate. |
| | Timber, scattering mesquite. |
| | Undergrowth, greasewood brush, 4 to 6 ft. high. |
| | December 26, 1914. |

Chains.

December 27, 1914.
At 9h. a.m., l.m.t., I set off 23°19'S. on the decl.arc; and 32°30½'N. on the lat.arc, and determine a meridian with the solar at the reestablished standard cor. of Ts.10 S., Rs.3 and 4 E., hereinbefore described.
Thence I run,
East, on a true line on S bdy. of sec.31.
Over level land, through greasewood brush.
No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked
S C ¼ S 31 on N.half;
1914 on S.rim;
dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.
No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs. 31 and 32, with brass cap, marked
S C on N.half;
T 10 S, S 31 in NW., and
R 4 E, S 32 in NE. quadrant;
1914 on S.rim; from which
A mesquite, 5 ins. in diam., brs. N.87°E., 98 lks. dist., marked T 10 S R 4 E S 32 B T.
No other trees within limits; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft., and N. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
Land, level.
Soil, sandy loam, 1st rate.
Timber, scattering mesquite, greasewood brush.

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East, on a true line, on S. bdy. of sec.32.
Over level land.
Difference between measurements of 40.00 chs. by two sets of chainmen is 1 link, position of middle point,
By 1st set 39.99½ chs.
By 2nd set, 40.00½ chs., the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked
S C ¼ S 32 on N.half;
1914 on S.rim;
dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.
No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished std. cor. of secs. 32 & 33 mkd. on brass cap,
S C on N.half;
T 10 S S 32 in NW., and
R 4 E S 33 in NE. quadrant,
1914 on S.rim; from which
A mesquite 5 ins. in diam., brs. N.74°45'E., 89 lks. dist., marked T 10 S R 4 E S 33 B T.
No other trees within limits. Dig pits 24x18x12 ins., crosswise on each line E. and W. 3 ft., and N. of cor. 7 ft. dist. Raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
This corner was removed sometime between December 27, 1914 and January 11, 1915. Second post was set on January 11, 1915.

| Chains. | |
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| | Land, level.<br>Soil, sandy loam, 1st rate.<br>Timber, scattering mesquite.<br>Undergrowth, catclaw and greasewood brush 4 to 8 ft.high. |
| | --- |
| | East, on a true line, on the S bdy.of sec. 33. |
| | Over level land, through greasewood brush. |
| 15.00 | Road brs.N.40°W. and S 45°E. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked<br>S C ¼ S 33 on N.half;<br>1914 on S. rim;<br>dig pits 18x18x12 ins., E.and W of cor.3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N,of cor. |
| 55.70 | Wash, 25 lks.wide, 3 ft.banks, course N. |
| 62.00 | Road brs.N.20°E. and S. |
| 72.70 | Indian house on line. |
| 74.50 | Indian village which extends N.and S.; about 30 huts. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor.of secs.33 and 34, with brass cap, marked<br>S C on N.half;<br>T 10 S S 33 in NW., and<br>R 4 E, S 34 in NE. quadrant; (see 1931 location)<br>1914 on S rim;<br>dig pits 24x18x12 ins., crosswise on each line E.and W., 3 ft., and N,of cor. 7 ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor. |
| | Land,level.<br>Soil, sandy loam, 1st rate.<br>Timber, scattering mesquite. Undergrowth, catclaw,greasewood brush, 4 to 6 ft.high. |
| | --- |
| | East, on a true line, on S bdy.of sec.34. |
| | Over level land, through scattering greasewood brush. |
| 25.50 | Road brs.N.50°W. and S.50°E. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks., position of middle point,<br>By 1st set 39.99 chs.,<br>By 2nd set, 40.01 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked<br>S C ¼ S 34 on N. half;<br>1914 on S rim;<br>dig pits 18x18x12 ins. E.and W. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor. |
| 50.70 | Road, brs. N.75° W. and S 75°E. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor.of secs. 34 and 35, with brass cap, marked<br>S C on N half;<br>T 10 S S 34 in NW.,and<br>R 4 E S 35 in NE. quadrants,<br>1914 in S.rim; from which<br>An ironwood, 5 ins. in diam., brs.N.46°30'E., 109 lks.dist., marked T 10 S., R 4 E S 35BT. |

Chains.

No other trees within limits; dig pits 24x18x12 ins., crosswise on each line E.and W. 3 ft.,and N.of cor.7 ft.dist., and raise a mound of stone 4 ft.base, 2 ft. high,N.of cor.
Land,level.
Soil, sandy loam, 1st rate.
Timber, very scattering mesquite and ironwood.
Undergrowth, greasewood brush, 4 ft.high.
December 27,1914.

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January 4,1915.
At 9h. a.m.,l.m.t., I set off 22°45'S. on the decl.arc; 32°30½'N.on the lat.arc, and determine a meridian with the solar at the reestablished standard cor. of secs. 34 and 35, hereinbefore described.
Thence I run,
East, on a true line, on S.bdy.of sec.35.
5.00 Ascend over S. end of low hill.
24.00 Road brs.N. and S.20° E.
25.00 Road brs.N.and S. 45°E.
No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked
S C ¼ S, 35 on N.half;
1915 on S.rim;
dig pits 18x18x12 ins., E.and W.of cor. 3 ft.dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor.
44.80 Road brs.N. 85° E. and S 85° W.
52.30 Road brs.N.85°E. and S 30°W.
69.30 Wash, 15 lks.wide, 1 ft. banks, course S 50°W.
Difference between measurements of 80.00 chs. by two sets of chainmen is 1 link, position of middle point,
By 1st set, 80.00½ chs.
By 2nd set, 79.99½ chs., the mean of which is
80.00 Set an iron post 3 ft.long, 3 ins. in diam.,24 ins. in the ground for the reestablished standard cor.of secs. 35 and 36, with brass cap, marked
S C on N.half;
T 10 S S 35 in NW., and
R 4 E, S 36 in NE.quadrant;
1915 on S.rim; from which
An ironwood, 8 ins. in diam.,brs.N 26°10'W., 180 lks.dist., marked T 10 S R 4 E S 35 B T.
No other trees within limits. Dig pits 24x18x12 ins., crosswise on each line E.aand W. 3 ft.,and N.of cor. 7 ft. dist.
Raise a mound of earth 4 ft.base, 2 ft.high,N.of cor.
Land,slightly rolling, with a gradual E slope.
Soil, gravelly, 3rd rate.
Timber, ironwood, palo verde and cacti.
Undergrowth, greasewood brush. Ocotillo and giant cactus.

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East, on a true line on S.bdy.of sec.36.
Over rolling land.
32.75 Wash, 25 lks.wide, 3 ft.banks, course N 80°W.
No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked
S C ¼ S 36 on N.half;
1915 on S. rim;
dig pits 18x18x12 ins.E. and W.of cor. 3 ft. dist.,and raise a mound of earth 3½ ft. base,1½ ft. high,N.of cor.

Chains.

46.00 Wash, 25 lks.wide, 3 ft.banks, course S.70°W.

63.80 Road brs.N.60°W. and S.60°E.

77.05 Wash, 15 lks.wide, 3 ft.banks, course S.70°W.

No difference between measurements of 80.00 chs.by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished std.cor.of Ts.10 S., Rs.4 & 5 E.with brass cap, marked

S C, T 10 S in N.half;
R 4 E, S 36 in NW., and
R 5 E S 31 in NE.quadrant;
1915 on S rim; from which

An ironwood, 6 ins. in diam., brs.S.57°E., 24 lks.dist., marked B T only.

An ironwood, 6 ins. in diam., brs.S.69°45'W., 76 lks.dist., marked B T only.

No trees north of the cor.

Build a mound of stone 3 ft.base, 2 ft.high, N.of cor.

Land, rolling.

Soil, gravelly and rocky, 3rd and 4th rate.

Timber, ironwood and paloverde.

Undergrowth, greasewood brush. January 4, 1915.

60. Resurvey of 2nd. Standard Parallel S., through Range 5 East.

Chains.

January 12, 1915.

At 9h. a.m., l.m.t., I set off 21° 43'S. on the decl.arc; 32°30½'N. on the lat.arc, and determine a meridian with the solar at the reestablished standard cor. of T.10 S., Rs.4 and 5 E., hereinbefore described.

Thence I run,

East, on a true line, on S. bdy. of sec.31.

Over rolling land.

15.00 Road brs.N.45°E. and S.45°W.

29.10 Ravine, 80 lks.wide, 10 ft.deep, course S.60°W.

33.60 Ravine, 40 lks.wide, 5 ft.deep, course N.85°W.

Difference between measurements 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 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked

S C ¼ S 31 on N. half;
1915 on S. rim;

build mound of stone 3 ft.base, 2 ft.high, N. of cor.

41.90 Ravine, 30 lks.wide, 4 ft. deep, course S.40°W.

55.50 Wash, 50 lks.wide, 1 ft. banks, course S.40°W.

79.50 Ravine, 50 lks.wide, 6 ft. deep, course N.85°W.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 True point for the standard sec.cor. falls in a ravine; therefore continue measurement and at

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

S Con N.half;
W C, W. of center,
T 10 S, S 31 in NW., and
R 5 E, S 32 in NE. quadrant,
1915 on S rim; from which

An ironwood, 5 ins. in diam., brs.S.44°30'E., 13 lks.dist., marked W C B T only.

An ironwood, 3 ins. in diam., brs.N 44°W., 32 lks.dist., marked T 10 S R 5 E S 31 WCBT.

No other trees within limits. Build a mound of stone 3 ft.base, 2½ ft. high, N. of cor.

Land, rolling.

Soil, rocky and gravelly, 3rd and 4th rate.

Timber, ironwood and palo verde.

Undergrowth, greasewood brush.

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From true point for std.cor. of secs. 31 and 32, I run,

East, on a true line, on S. bdy. of sec. 32. Over hilly land.

0.92 Witness cor. to reestablished standard cor. of secs. 31 and 32.

13.80 Dim road brs. N. and S.

24.00 Ravine, 40 lks.wide, 4 ft.deep, course S 10°W.

Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point,

By 1st set, 40.00½ chs.

By 2nd set, 39.99½ chs., the mean of which is

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked

S C ¼ S 32 on N.half;
1915 on S.rim;

build a mound of stone 3 ft. base, 2 ft.high, N. of cor.

48.00 Ravine, 30 lks.wide, 6 ft.banks, course S.10°E.

52.60 Ravine, 20 lks.wide, 4 ft.deep, course S.10°W.

No difference between measurements of 80.00 chs. by two sets of chainmen,

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 12 ins. in the ground (could not set deeper on account of solid stone; build a mound of stone 4 ft.base, 2 ft.high

| Chains. | |
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| | around post for reestablished standard cor. of secs. 32 and 33, with brass cap, marked<br>S C on N.half;<br>T 10 S S 32 in NW., and<br>R 5 E S 33 in NE. quadrant;<br>1915 on S rim;<br>build a mound of stone 3 ft.base, 2 ft.high, N.of cor. |
| | Land, hilly. |
| | Soil, rocky, 4th rate. |
| | Timber, ironwood and palo verde. |
| | Undergrowth, greasewood brush. |
| | January 12, 1915. |
| | --- |
| | January 15, 1915. |
| | At 9h. a.m., l.m.t., I set off 21°14'S.on the decl.arc; 32° 30½'N. on the lat.arc; and determine a meridian with the solar at the reestablished standard cor, of secs. 32 and 33, hereinbefore described. |
| | Thence I run, |
| | East, on a true line, on S bdy. of sec. 33. |
| | Over mountainous land. |
| 5.88 | Summit of mountain range, brs. N. and S., 250 ft. ascent. |
| | Descend E. slope. |
| 28.00 | Ravine, 20 lks. wide, 5 ft. deep, course N. 75°E. |
| 38.35 | Ravine, 50 lks. wide, 6 ft. deep, course S. 45°E. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 3 lks., position of middle point,<br>By 1st set, 39.98½ chs.<br>By 2nd set, 40.01½ chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked<br>S C ¼ S 33 on N. half;<br>1915 on S rim;<br>build a mound of stone 3 ft. base, 2 ft. high, N. of cor. |
| 47.80 | Ravine, 60 lks. wide, 12 ft. deep, course S 50°E. |
| 60.00 | At this point, at 11h.43m. a.m., l.m.t., I observe Polaris at Eastern elongation, and lay off the azimuth of Polaris 1°21½' to the west. I find my meridian established at 9h.a.m., l.m.t., with the solar to be correct. |
| 80.00 | True point for reestablished standard sec.cor. falls in wash 20 lks. wide, 5 ft. banks, course S. 70°E.; therefore return to 78.50. |
| | No difference between measurements by two sets of chainmen. |
| 78.50 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for witness cor. to reestablished standard cor. of secs. 33 and 34, with brass cap, marked<br>S C on N.half;<br>W C E.of center,<br>T 10 S S 33 in NW, and<br>R 5 E S 34 in NE. quadrant;<br>1915 on S rim;<br>build a mound of stone 3 ft. base, 2½ ft. high, N.of cor. |
| | Land, mountainous and rolling. |
| | Soil, rocky and gravelly, 4th rate. |
| | Timber, palo verde, ironwood and catclaw. |
| | Undergrowth, greasewood brush; ocotillo and giant cactus; cholla. |
| | --- |
| | From true point for reestablished standard cor. of secs. 33 and 34, I run, |
| | East, on a true line on S bdy. of sec. 34. |
| | Descend gradual east slope. |
| 25.00 | Wash, 20 lks. wide, 5 ft. banks, course S. 70°E. |

62. Resurvey of 2nd Standard Par.South, through Range 5 East.

Chains.

Difference between measurements of 40.00 chs.by two sets of chainmen is 1 lk., position of middle point,
By 1st set,40.00½ chs.
By 2nd set, 39.99½ chs., the mean of which is

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked
S C ¼ S 34 on N.half;
1915 on S.rim;
dig pits 18x18x12 ins., E.and W.of cor. 3 ft. dist.,and raise a mound of earth,4½ ft. base, 1½ ft. high,N.of cor.

48.40 Wash, 30 lks.wide, 4 ft.banks, course N.85°E.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. indiam., 24 ins. in the ground for reestablished standard cor.of secs. 34 and 35, with brass cap, marked
S C on N.half;
T 10 S, S 34 in NW., and
R 5 E S 35 in NE. quadrant;
1915 on S rim; from which
An ironwood,6 ins.diam., brs.S 34°45'W.,67 lks. dist., marked B T only.
An ironwood, 5 ins. in diam.,brs.N.59°30'W.,118 lks.dist.,marked T 10 S R 5 E S 34 B T.
Dig pits 24x18x12 ins., crosswise on each line E.and W. 3 ft.,and N.of cor. 7 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor.
Land,level with very gradual E.slope.
Soil, gravelly, 3rd rate.
Timber, palo verde,ironwood and catclaw.
Undergrowth, greasewood brush. Ocotillo and giant cactus.

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East, on a true line on S.bdy.of sec.35.
Over level land.
Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point
By 1st set 40.00½ chs.
By 2nd set, 39.99½ chs., the mean of which is

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.;with bfass cap, marked
S C ¼ S 35 on N.half;
1915 on S.rim;
dig pits 18x18x12 ins. E.and W.of cor. 3 ft. dist.,and raise a mound ofnearth 3½ ft. base, 1½ ft. high,N.of cor.

Difference between measurements of 80.00 chs. by two sets of chainmen is 1 link; position of middle point
By 1st set, 80.00½ chs.
By 2nd set,79.99½ chs., the mean of which is

80.00 Set an iron post 3 ft.long, 3 ins. indiam., 24 ins. in the ground for reestablished standard cor.of secs.35 and 36, with brass cap, marked
S C on N.half;
T 10S S 35 in NW.,and
R 5 E, S 36 in NE. quadrant;
1915 on S rim;
dig pits 24x18x12 ins. crosswise on each line E.and W. 3 ft. and N.of cor. 7 ft.dist.,and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor.
Land,level.
Soil, saddy loam, 1st rate.
Timber, very scattering ironwood and palo verde.
Undergrowth, greasewood and mesquite brush.

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Resurvey of 2nd Standard Parallel South through Range 5 E. 63.

| Chains. | |
|---|---|
| | East, on a true line on S. bdy. of sec. 36. |
| | Over level land. |
| 4.80 | Wash, 20 lks. wide, 1 ft. banks, course north. |
| | No difference between measurements of 40.00 chs. by two sets. of chainmen. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec. cor., with brass cap, marked<br>S C ¼ S 36 on N. half;<br>1915 on S. rim;<br>dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of Ts. 10 S., Rs. 5 and 6 E., with brass cap, marked<br>S C T 10 S in N. half;<br>R 5 E S 36 in NW., and<br>R 6 E S 31 in NE. quadrant;<br>1915 on S. rim;<br>dig pits 30x24x12 ins. crosswise on each line E. and W. 4 ft.; and N. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base, 2½ ft. high, N. of cor. |
| | Land, level. |
| | Soil, adobe, 1st rate. |
| | No timber. |
| | Undergrowth, greasewood and mesquite brush. |
| | January 15, 1915. |

64. Resurvey of 2nd.Standard Parallel South,through Range 6 E.

Chains.

January 16, 1915.
At 9h,a.m., l.m.t., I set off 21°01' S.on the decl.arc; 32°30½'N.on the lat.arc; and determine a meridian with the solar at the reestablished standard cor.of Ts.10 S., Rs.5 and 6 E. hereinbefore described.
Thence I run,
East, on S bdy.of sec.31.
Over level land, through dense undergrowth.
31.00 Corral about 5 chs.square, with well in the center on line.
35.60 Frame house 12x12 ft. brs.S.100 lks.dist.
No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked
S C ¼ S 31 on N.half;
1915 on S.rim;
dig pits 18x18x12 ins., E.and W.of cor. 3 ft. dist.,and raise a mound of earth 3½ ft. base, 1½ ft. high,N.of cor.
65.00 Irrigation canal 30 lks.wide, 4 ft.banks, course north.
75.00 Wash, 15 lks.wide, 1 ft.banks, course N.
No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor.of secs.31 and 32, with brass cap, marked
S Con N.half;
T 10 S S 31 in NW., and
R 6 E, S 32 in NE.quadrant;
1915 on S.rim;
dig pits 24x18x12 ins., crosswise on each line E.and W. 3 ft., and N.of cor., 7 ft.dist.
Raise a mound of earth 4 ft.base, 2 ft.high, N.of cor.
Land,level.
Soil, adobe, 1st rate.
Timber, none.
Undergrowth, very scattering mesquite and greasewood brush.

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East,on a true line on S.bdy.of secs.32.
Over level land.
No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked
S C ¼ S 32 on N.half;
1915 on S.rim;
dig pits 18x18x12 ins., E.and W of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base,1½ ft. high, N.of cor.
No difference between measurements of 80.00 chs.by two sets of chainmen.
80.00 Set an iron post 3 ft.long, 3 ins. in diam.,24 ins. in the ground for reestablished standard cor.of secs.32 and 33, with brass cap, marked
S C on N.half;
T 10 S S 32 in NW., and
R 6 E, S 33 in NE. quadrant;
1915 on S rim;
dig pits 24x18x12 ins.,crosswise on each line,E.and W. 3 ft., and N.of cor.7 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high.N.of cor.
Land,level.
Soil, adobe, 1st rate.
Timber, none.
Undergrowth, mesquite and greasewood brush.

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Chains.

East,on a true line on S. bdy.of sec.33.
Over level land.
No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked
S C ¼ S 33 on N.half;
1915 on S rim;
dig pits 18x18x12 ins., E.and W of cor.3 ft. dist., and raise a mound of earth 3½ ft.base, 1½ ft. high,N. of cor.

65.40 Wash, 20 lks.wide, 6 in. banks, course N.

75.20 Wash, 15 lks.wide, 6 ins. banks, course N.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam.,24 ins. in the ground for reestablished standard cor. of secs.33 and 34, with brass cap, marked, SC on N.half,
R 6 E. S.34 in NE. and
T 10 S S 33 in NW.quadrant;
1915 on S.rim;
dig pits 24x18x12 ins. crosswise on each line E.and W. 3 ft.,and N.of cor. 7 ft. dist.; and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor.

Land, level.
Soil, adobe, 1st rate.
Timber, none.
Undergrowth, greasewood and mesquite brush.

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East, on a true line on S.bdy.of sec.34.
Over level land.

13.00 Wash, 25 lks.wide, 1 ft. banks, course N.

29.30 Wash, 20 lks.wide, 1 ft. banks, course N.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam.,26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked
S C ¼ S 34 on N.half;
1915 on S.rim;
dig pits 18x18x12 ins., E.and W. of cor., 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high,N. of cor.

70.00 Enter scattering palo verde timber.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor.of secs. 34 and 35, with brass cap, marked
S C on N.half;
T 10 S S 34 in NW.,and
R 6 E, S 35 in NE.quadrant;
1915 on S.rim;
dig pits 24x18x12 ins., crosswise on each line E and W. 3 ft.,and N.of cor. 7 ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor.

Land, level.
Soil, adobe, 1st rate.
Timber, scattering palo verde.
Undergrowth, scattering mesquite and greasewood brush.

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East, on a true line on S.bdy.of sec.35.
Over level land.

22.10 Wash, 15 lks.wide,1 ft. banks, course N.30°W.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam.,26 ins. in

Chains.

the ground for reestablished standard ¼ sec.cor., with brass cap, marked
S C ¼ S 35 on N.half;
1915 on S.rim;
dig pits 18x18x12 ins., E.and W of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor. At this cor.at 11h.41m. a.m., l.m.t., I observe Polaris at Eastern elongation, and lay off the azimuth of Polaris 1°21½' to the west. I find the meridian established by solar observations to be correct.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs.35 and 36, with brass cap, marked
S C in N.half;
T 10 S S 35 in NW., and
R 6 E, S 36 in NE.quadrant;
1915 on S rim;
dig pits 24x18x12 ins., crosswise on each line, E.and W. 3 ft., and N.of cor. 7 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high, N.of cor.

Land, level.
Soil, sandy loam, 1st rate.
Timber, scattering palo verde.
Undergrowth, greasewood and mesquite brush.

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East, on a true line, on S bdy.of sec.36.
Over level land.
No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, lin. in diam. 26 ins. in the ground for reestablished standard ¼ sec.cor., with brass cap, marked
S C ¼ S 36 on N.half;
1915 on S. rim;
dig pits 18x18x12 ins., E.and W. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.

Ascend gradual NW. slope.
No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of Ts.10 S., Rs.6 and 7 E., with brass cap, marked
S C T 10 S on N.half;
R 6 E, S 36 in NW., and
R 7 E, S 31 in NE. quadrant;
1915 on S.rim; from which,
A palo verde, 6 ins. in diam., brs.N.54°30'E., 193 lks.dist., marked T 10 S R 7 E S 31 B T.
A palo verde, 5 ins. in diam., brs.N.35°W., 44 lks.dist., marked T 10 S R 6 E S 36 B T.

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

Land, level.
Soil, samdy and gravelly, 2nd rate.
Timber, palo verde.
Undergrowth, greasewood brush.

January 16, 1915.

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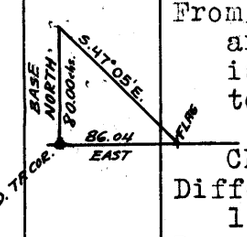
Resurvey of 2nd.Standard Parallel South.through Range 7 East. 67

| Chains | |
|---|---|
| | January 26, 1915. |
| | At 9h. a.m., l/m.t., I set off 18°51'S. on the decl.arc; 32°30½'N.on the lat.arc, and determine a meridian with the solar at the reestablished standard cor. of T.10 S., Rs.6 and 7 E., hereinbefore described. |
| | Thence I run, |
| | East, on a true line on S bdy.of sec.31. |
| | Ascend gradual NW. slope. |
| 21.00 | Foot of hill. Ascend steep,rocky W. slope. |
| 34.00 | Change to N.slope. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., in a mound of stone 4 ft.base, 2½ ft. high for reestablished standard ¼ sec.cor., with brass cap, marked<br>S C ¼ S 31 on N.half;<br>1915 on S.rim;<br>post set on a rocky spur, witnessed by large granite stone to the west. |
| | Thence along broken N.slope. |
| 71.70 | Change to W. slope. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs. 31 and 32, with brass cap, marked<br>S C on N.half;<br>T 10 S S 31 in NW., and<br>R 7 E, S 32 in NE.quadrant;<br>1915 in S rim;<br>build a mound of stone 3 ft.base,2½ ft. high,N.of cor. |
| | Land, mountainous (granite). |
| | Soil, rocky, 4th rate. |
| | Timber, scrub palo verde. |
| | Undergrowth, greasewood brush, ocotillo and giant cactus. |
| | --- |
| | East, on a true line, on S.bdy.of sec.32. |
| | Over mountainous land. |
| 6.03 | Summit of mountains,765 ft. above level brs.N.10°E. and S. |
| | To test the distance to this point, I triangulate as follows: |
| | Set flag at this point. From standard cor.of Ts.10 S., Rs. 6 and 7 E., I lay off a base, N. 80 chs. |
| | From N.end of base, flag brs.S.47° 05' E. The included angles are 90°00', 47° 05' and 42°55', the sum of which is 180° 00'. Dist. on parallel from Standard Tp.cor. to flag is obtained by<br>Tang. 47°05' x base or 1.0755x80=86.04 chs.<br>Chained dist. to flag =86.03 chs. |
| | Difference between the two measurements to this point is 1 link. |
| | Descend steep rocky E. slope. |
| 27.00 | Foot of mountains; enter rolling land. |
| 28.40 | Wash, 50 lks.wide, 4 ft. banks, course from S.to N.60°E. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked<br>S C ¼ S 32 on N.half;<br>1915 on S.rim;<br>dig pits 18x18x12 ins., E.and W. of cor.,3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks., position of middle point,<br>By 1st set 79.98 chs.<br>By 2nd set, 80.02 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft.long, 3 ins.in diam.,24 ins. in the ground for reestablished standard cor.of secs.32 and 33, with brass cap, marked<br>S C on N.half; |



Chains.

T 10 S, S 32 in NW., and
R 7 E, S 33 in NE. quadrant;
1915 on S.rim;
dig pits 24x18x12 ins., crosswise on each line E.and W. 3 ft., and N.of cor. 7 ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor.
Land, mountainous and rolling.
Soil, west half rocky, 4th rate; east half, sandy and gravelly, 3rd rate.
Timber, palo verde.
Undergrowth, greasewood brush. Ocotillo and giant cactus.

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East, on a true line, on S. bdy.of sec. 33.
Over level land.
10.50 Wash, 15 lks.wide, 6 in. banks, course N.60° E.
11.40 Road brs.N.30°E. and S. 30°E.
No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked S C ¼ S 33 in N.half;
1915 on S.rim; from which,
A palo verde, 8 ins. in diam., brs.N.20°30'E., 203 lks.dist., marked S C ¼ S 33 B T.
A palo verde, 6 ins. in diam., brs.N.48°E.,18 lks.dist., marked S C ¼ S 33 B T.
Dig pits 18x18x12 ins., E,and W.of cor., 3 ft. dist.,and raise a mound of earth 3½.ft. base, 1½ ft. high,N.of cor.
69.80 Wash, 15 lks.wide, 6 ins. banks, course N.20°E.
74.60 Wash, 20 lks.wide, 6 ins. banks, course N.20°E.
No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished standard cor.of secs. 33 and 34, with brass cap, marked
S C on N.half;
T 10 S, S 33 in NW., and
R 7 E, S 34 in NE. quadrant;
1915 on S rim; from which
A palo verde 10 ins. in diam., brs.N.54°50'E., 231 lks.dist., marked T 10 S R 7 E S 34 B T.
An ironwood, 18 ins. in diam., brs.S.32¼°W.,161 lks.dist., marked T 11 S R 7 E B T.
Dig pits 24x18x12 ins. crosswise on each line E.and W.3 ft. and N.of cor. 7 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor.
Land,level.
Soil, sandy and gravelly, 2nd rate.
Timber, dense growth of palo verde and ironwood.
Undergrowth, greasewood brush, ocotillo and giant cactus.

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East, on a true line on S.bdy.of sec.34.
Over level land, through greasewood brush.
37.00 Wash, 20 lks.wide,1 ft. banks, course N.
No difference between measurements of 40.00 chs.by two sets of chainmen.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked
S C ¼ S 34 on N.half;
1915 on S.rim,from which,
A palo verde, 12 ins.in diam., brs.N.43°W.,231 lks.dist., marked S C ¼ S 34 B T.
Dig pits 18x18x12 ins., E.and W.of cor. 3 ft. dist.,and raise a mound of earth 3½ ft. base, 1½ ft. high,N.of cor.

| Chains. | |
|---|---|
| 53.40 | Wash, 180 lks.wide, 2 ft. banks, course N.10°E. |
| 73.50 | Wash, 20 lks.wide,1 ft. banks, course N. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs.34 and 35, with brass cap, marked<br>S C on N.half;<br>T 10 S S 34 in NW., and<br>R 7 E S 35 in NE. quadrant;<br>1915 on S. rim;<br>dig pits 24x18x12 ins. crosswise on each line, E.and W. 3 ft., and N.of cor. 7 ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor. |
| | Land, level. |
| | Soil, sandy loam, 2nd rate. |
| | Timber, palo verde and ironwood; greasewood brush. |
| | --- |
| | East, on a true line, on S.bdy.of sec.35. |
| 9.60 | Old road, brs.S.40°E. and N.40°W. |
| 19.00 | Wash, 20 lks.wide, 1 ft. banks, course N.20°W. |
| 34.70 | Wash, 15 lks.wide, 2 ft. banks, course N. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked<br>S C ¼ S 35 in N.half;<br>1915 on S.rim; from which,<br>A palo verde,6 ins. in diam., brs.N.23°W., 78 lks.dist., marked S C ¼ S 35 B T. |
| | Dig pits 18x18x12 ins., E.and W.of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,N.of cor. |
| 50.20 | Wash, 15 lks.wide, 1 ft. banks, course N. |
| 79.20 | Wash, 20 lks.wide, 1 ft. banks, course N.10° E. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor.of secs.35 and 36, with brass cap, marked<br>S Con N.half;<br>T 10 S S 35 in NW., and<br>R 7 E S 36 in NE. quadrant;<br>1915 on S.rim; from which,<br>A palo verde 6 ins.in diam., brs.N.1°E., 70 lks.dist., marked T 10 S R 7 E S 36 B T. |
| | Dig pits 24x18x12 ins. crosswise on each line E.and W.3 ft., and N.of cor. 7 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high,N.of cor. |
| | Land,level. |
| | Soil, sandy loam and gravel, 2nd rate. |
| | Timber, scattering palo verde. |
| | Undergrowth, greasewood brush. |
| | --- |
| | East, on a true line, on S.bdy.of sec.36. |
| | Over level land, through greasewood brush, 4 to 6 ft.high. |
| 4.70 | Wash, 10 lks.wide, 1 ft. banks, course north. |
| 23.50 | Wash, 15 lks.wide, 1 ft. banks, course north. |
| | No difference beteeen measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished standard ¼ sec.cor.,with brass cap, marked,<br>S C ¼ S 36 on N.half;<br>1915 on S.rim;<br>dig pits 18x18x12 ins., E.and W.of cor. 3 ft. dist., |

| Chains | |
|---|---|
| | and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor. |
| 46.30 | Wash, 20 lks.wide, 1 ft. banks, course N. |
| 99.00 | Road, brs.N.30°W. and S.30°E. |
| 113.40 | Road brs.N.and S. |
| 150.00 | Wash, 20 lks.wide, 3 ft. banks, course N.30°W. |
| 163.94 | Intersect W. bdy.of T.10 S., R.8 E., 10.28 chs.S.0°19'W., of the ¼ sec.cor.of sec.31, which is an iron post properly set, marked and witnessed. At point of intersection, |
| | I set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for standard closing cor.of T.10 S.,R.7 E., with brass cap, marked |
| | SC T 10 S R 7 E S 36 C C in NW.quadrant; 1915 on S. rim; from which |
| | An ironwood 10 ins.in diam., brs.N.8° 45' W.,86 lks.dist., marked T 10 S R 7 E S 36 B T. |
| | Dig pits 36x36x12 ins.,N.and W.of cor.8 ft. dist,and raise a mound of earth 5 ft.base, 2½ ft.high,NW.of cor. |
| | From this cor. the old standard cor.of T.10 S., R.7 E.,brs. S.0° 19'W., 35.74 chs. dist.,which is a pine post 4 ins. square, 5 ft. above ground, in a mound of earth and stone 4 ft.base, 2 ft.high. Post properly marked. |
| | I destroy this old cor. |
| | The standard cor.of T.10 S., R.8 E., brs.S.0°19'W.,29.75 chs. dist., which was set under group No.30. |
| | Land,level. |
| | Soil, sandy loam, surface gravelly, 2nd rate. |
| | Timber, palo verde and ironwood. |
| | Undergrowth, greasewood brush; giant cactus. |
| | January 26, 1915. |
| | W. H.T. |

BOOK 2891

Independent resurvey of
1st Guide Meridian E. through Ts.10 S. bet. Rs.4 and 5 East. 71.

| Chains. | |
|---|---|
| | W.H.T. |
| | Resurvey commenced Jan.4,1915, and executed with a Young and Son's light mountain transit No.8592. No subdivision lines having been connected to the 1st Guide Meridian East in Ts.8,9, and 10 S., I resurvey the line north without reference to location of old cors. From the resurvey of the 2nd. Parallel South through Rs.1, 2,3,4,5,6, and 7 E.developing an excess length of 83.94 chs. as hereinbefore described, I assume that the 1st. Guide Meridian East is over 80 chs.west of its original location. |
| | Jan.4, 1915: At 9h. a.m.,l.m.t., I set off 32°30½' N.on the lat.arc; 22°26'S. on the decl.arc, and determine a meridian with the solar at the standard cor. of Ts.10 S., Rs.4 and 5 E., reestablished by me and hereinbefore described. |
| | Thence I run, |
| | North, bet. secs.31 and 36. |
| | Over rolling land. |
| 14.10 | Wash, 25 lks.wide, 4 ft.deep, course S.60°W. |
| 25.90 | Wash, 10 lks.wide, 1 ft. deep,course S.45°W. |
| 33.10 | Build a mound of stone 2 ft.base, 2 ft.high on line,and at this point at 12h.33m. p.m.,l.m.t., I observe Polaris at Eastern elongation, and lay off the azimuth 1° 21½' to the W. The meridian thus determined intersects a flag at the cor. 33.10 chs. to the S. |
| | 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 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked ¼S 36 on W. and<br>S 31 on E., half,<br>1915 on S rim; |
| | no trees within limits; pits impracticable. |
| | Build a mound of stone 3 ft.base, 2½ ft. high,W.of cor. |
| 46.20 | Wash, 40 lks.wide, 5 ft. deep, course S.70°W. |
| 60.00 | Ravine, 50 lks.wide, 6 ft. deep, course S.60°W. |
| 62.40 | Wash, 40 lks.wide, 4 ft. deep, course S 80°W. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft.long 3 ins. in diam.,18 ins. in the ground (could not set deeper on account of solid rock) in a mound of stone 3 ft.base, 1½ ft. high, for reestablished cor.of secs. 25.30,31 and 36, with brass cap marked<br>T 10 S on N.half,<br>R 5 E S 30 in NE.,<br>S 31 in SE.,<br>S 36 in SW., and<br>R 4 E S 25 in NW. quadrants;<br>1915 on S.rim; |
| | no trees within limits. Pits impracticable. |
| | Build a mound of stone 3 ft.base, 2 ft.high,W.of cor. |
| | Land, rolling. |
| | Soil, rocky and gravel and decomposed gravel, 3rd rate. |
| | Timber, scattering palo verde and ironwood. |
| | Undergrowth, greasewood and cactus. |
| | --- |
| | North,bet. secs.25 and 30. |
| | Over rolling land. |
| 4.50 | Ravine, 40 lks.wide, 6 ft. deep, course S. 75°W. |
| 16.90 | Ravine, 15 lks.wide, 6 ft. deep, course W. |
| 21.74 | Top of small spur extends W. about 10 chs. |
| 33.75 | Ravine, 40 lks.wide, 6 ft. deep, course S.70° W. |
| 38.15 | Ravine, 60 lks.wide, 16 ft. deep, course S.70°W. |

Independent survey of the
72. 1st Guide Meridian E., through Ts. 10 S., Bet. Rs. 4 and 5 E.

| Chains. | |
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| | Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks.; position of middle point<br>By 1st set, 40.03 chs.<br>By 2nd set, 39.97 chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground (could not set deeper on account of solid rock) in a mound of stone 3 ft. base, 1 ft. high, for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 25 on W., and<br>S 30 on E. half;<br>1915 on S. rim; pits impracticable. |
| | No trees within limits. Build a mound of stone 3 ft. base, 2 ft. high, W. of cor. |
| | Ascend gradual SW. slope. |
| 63.00 | Ravine, 50 lks. wide, 12 ft. deep, course S. 40° W. |
| 72.95 | Ravine, 40 lks. wide, 8 ft. deep, course S. 75° W. |
| | Difference of measurement of 80.00 chs. by two sets of chainmen is 1 lk.<br>By 1st set, 80.00½ chs.<br>By 2nd set, 79.99½ chs., the mean of which is |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground (could not set deeper on account of solid rock) in a mound of stone 3 ft. base, 1 ft. high, for reestablished cor. of secs. 19, 24, 25 and 30, with brass cap, marked<br>T 10 S on N. half;<br>R 5 E S 19 in NE.,<br>S 30 in SE.,<br>S 25 in SW., and<br>R 4 E S 24 in NW. quadrants,<br>1915 on S. rim; |
| | No trees within limits. Pits impracticable. |
| | Build a mound of stone 4 ft. base, 2½ ft. high, W. of cor. |
| | Land, rolling. |
| | Soil, rocky and decomposed granite, 4th rate. |
| | Timber, scattering palo verde and ironwood. |
| | Undergrowth, greasewood brush and cactus. |
| | Jan. 4,, 1915 |

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| | Jan. 5, 1915. |
| | At 9h. a.m., l.m.t., I set off 32° 32' N. on the lat. arc; 22°39'S. on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 19, 24, 25 and 30. |
| | Thence I run, |
| | N. bet. secs. 19 and 24. |
| | Over mountainous land. |
| | Ascend SW. slope. |
| 3.40 | Ravine, 60 lks. wide, 16 ft. deep, course S. 80° W. |
| 7.90 | Top of spur, 70 ft. high, brs. E. and W. |
| | Descend 85 ft. to |
| 12.75 | Ravine, 40 lks. wide, 10 ft. deep, course N. 80° W. |
| | Ascend SW. slope, 120 ft. to ¼ sec. cor. |
| | Difference of measurements of 40.00 chs. by 2 sets of chainmen is 7 lks.<br>By 1st set, 39.96½ chs.<br>By 2nd set, 40.03½ chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper on account of solid rock), in a mound of stone 3 ft. base, 1½ ft. high, for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 24 on W., and<br>S 19 on E. half;<br>1915 on S. rim; pits impracticable. |
| | No trees within limits. Build a mound of stone 4 ft. base, 2 ft. high, W. of cor. |
| | Ascend gradual S. slope. |
| 52.50 | Ascend steep S. slope. |
| 69.30 | Top of ridge, brs. S. 65° E. and N. 80° W., 468 ft. high. |

Chains.

From this point a signal on the highest peak (Prieto Peak) about 2000 ft. high, brs. S. 64° 20' E.
Descend N. slope 219 ft.
Difference of measurement of 80.00 chs. by 2 sets of chainmen is 3 lks.
By 1st set, 79.98½ chs.
By 2nd set, 80.01½ chs. the mean of which is
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground (could not set deeper on account of solid rock) in a mound of stone 4 ft. base, 2 ft. high, for re-established cor. of secs. 13, 18, 19 and 24, with brass cap, marked
T 10 S on N. half;
R 5 E S 18 in NE.,
S 19 in SE.,
S 24 in SW., and
R 4 E S 13 in NW. quadrants;
1915 on S. rim; pits impracticable.
No trees within limits. Build a mound of stone 3 ft. base, 2 ft. high, W. of cor.
Land, mountainous.
Soil, stony, granite formation, 4th rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood and cactus.

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North, bet. secs. 13 and 18.
Over mountainous land.
Descend N. slope, 300 ft. to
19.60 Ravine, 30 lks. wide, 6 ft. deep, course N. 40° W.
Ascend 50 ft. to
27.30 Over W. end of spur, brs. E. and W.
Descend NE. slope, 63 ft. to
34.28 Ascend steep rocky S. slope, 90 ft.
Difference between measurements of 40.00 chs. by two sets of chainmen is 7 lks., position of middle point
By 1st set, 39.96½ chs.
By 2nd set, 40.03½ chs., the mean of which is
40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper on account of solid rock) in a mound of stone 3 ft. base, 2 ft. high, for reestablished ¼ sec. cor., with brass cap, marked
¼ S 13 on W., and
S 18 on E half;
1915 on S. rim.
No trees within limits. Pits impracticable.
Build a mound of stone 3 ft. base, 2 ft. high, W. of cor.
44.93 Top of spur, brs. E. and W. Signal on highest peak (Prieto Peak) brs. S. 22° E.
69.93 Top of small ridge, brs. S. 70° E. and N. 70° W.
Descend steep rocky N. slope 350 ft. to sec. cor.
Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks., position of middle point
By 1st set 80.03 chs.
By 2nd set, 79.97 chs., the mean of which is
80.00 True point for reestablishment of sec. cor. falls on precipitous N. slope; therefore, at
79.34 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 4 ft. base, 3 ft. high (could not set in the ground on account of solid rock) for witness cor. to reestablished cor. of secs. 7, 12, 13 and 18, with brass cap, marked
T 10 S on N. half;
R 5 E S 7 in NE.,
S 18 in SE.,
S 13 in SW., and
R 4 E S 12 in NW. quadrants,
1915 on S. rim; pits impracticable.
No trees within limits. Build a mound of stone 3 ft.

Chains.

base, 2 ft.high, W.of cor.
Land, mountainous.
Soil, rocky, granite formation, 4th rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood and cactus.
Jan. 5, 1915.

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January 6, 1915.
At 9h. a.m., l.m.t., I set off 32°34'N., on the lat.arc; 22°33'S. on the decl.arc; and determine a meridian with the solar at the true point for reestablished cor. of secs. 7,12,13 and 18.
Thence I run,
North, bet. secs. 7 and 12.
Over mountainous land, stony. NW. slope.
14.60 West end of spur brs.E.and W.
22.60 Ravine, 20 lks.wide, 5 ft. deep, course W.
24.40 Ascend rocky S. slope, 225 ft.to
38.10 Top of ridge, brs.E.and W.; descend steep NE. slope to ¼ sec.cor.
Difference bet. measurements of 40.00 chs.by two sets of chainmen is 9 lks., position of middle point
By 1st set 39.95½ chs.
By 2nd set, 40.04½ chs., the mean of which is
40.00 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground (could not set deeper on account of solid rock) in a mound of stone 3 ft.base, 1½ ft. high for reestablished ¼ sec.cor., with brass cap, marked
¼ S 7 on W., and
S 12 on E-half;
1915 on S.rim.
No trees within limits. Pits impracticable.
Build a mound of stone 3 ft.base, 2 ft.high, W.of cor.
Descend NW. slope, 170 ft.to
44.50 Ravine, 15 lks.wide, 3 ft. deep, course N.40°W.
Thence over rolling N.slope to sec.cor.
Difference between measurements of 80.00 chs. by 2 sets of chainmen is 0 lks.
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs.1,6,7 and 12, with brass cap, marked
T 10 S on N.half;
R 5 E S 6 in NE.,
S 7 in SE.,
S 12 in SW. and
R 4 E S 1 in NW. quadrants;
1915 on S.rim.
Build a mound of stone, 3ft. base, 2½ft. high, W.of cor.
Land, mountainous and hilly.
Soil, granite formation, covered with gravel&stone, 4th rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood and cactus.

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North, bet. secs. 1 and 6.
Over rolling land.
22.37 At this point at 12h. 25m. p.m., l.m.t., I observe Polaris at Eastern elongation, I lay off the azimuth of Polaris 1° 21½' to the W. From flags set on the ridges for back sights I find the line to be due N.and S.
I line in a flag 78.00 chs.N. of this point and mark the line thus determined by a mound of stone 2 ft. base, 1½ ft. high.
23.37 I raise a mound of stone 4 ft. base, 3 ft. high with flag to be used as reference point.
40.00 Prospect shaft brs.1 chain E.
No difference between measurements of 40.00 chs. by 2 sets of chainmen.
Set an iron post 3 ft.long, 1 in. in diam., 18 ins.in the

Chains.

ground (could not set deeper on account of solid rock) in a mound of stone 3 ft. base, 1½ ft. high for reestablished ¼ sec.cor., with brass cap, marked
¼ S 1 on W., and
S 6 on E half;
1915 on S.rim;
no trees within limits. Pits impracticable.
Build a mound of stone 3 ft. base, 2 ft. high, W. of cor.
Thence over rolling land, with general slope to the N.
Difference between measurements of 80.00 chs. by two sets of chainmen is 0 lks.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of Ts. 9 and 10 S., Rs. 4 and 5 E., with brass cap, marked
T 9 S on N.half;
R 5 E S 31 in NE.,
S 6 in SE.,
S 1 in SW., and
R 4 E S 36 in NW. quadrants;
T 10 S on S.half;
1915 on S.rim; from which
An ironwood tree 6 ins. in diam., brs. S. 83° E., 113 lks. dist., marked T 10 S R 5 E S 6 B T.
An ironwood tree, 4 ins. in diam., brs. N. 28° W., 4 lks. dist., marked T 9 S R 4 E S 36 B T.
No other trees within limits; dig pits 24x24x12 ins., E., W. and N. of cor. 4 ft. dist., and S of cor. 8 ft. dist. and raise a mound of earth 5 ft. base, 2½ ft. high, S. of cor.
Land, hilly and rolling.
Soil, stony with gravel surface, 3rd and 4th rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood.

Jan. 6, 1915.

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| Chains. | |
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| | From recent tests, I know the transit and solar attachment to be in satisfactory adjustment. |
| - | Jan.13. 1915. At 8h/, a.m.,l.m.t., I set off 32°35½'N.on the lat.arc; 21°33'S. on the decl.arc, and determine a meridian with the solar at the reestablished cor.of Ts.9 and 10 S., Rs.4 and 5 E. |
| | Thence I run, |
| | North, bet. secs. 31 and 36. |
| | Over rolling land. |
| 3.50 | Wash, 20 lks.wide, 3 ft. deep, course W. |
| 4.00 | Ascend SE. slope of hill, 105 ft.to |
| 11.25 | Change to E.slope of hill. Prospect shaft brs.5 chs.E. |
| | Descend gradual NE.slope. |
| 20.39 | U.S.M.M. No.1353 brs.N.31°35'E. |
| 34.50 | Road brs.N.30°E.,and S.30°W. |
| 35.80 | Road brs.E and W. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap marked<br>¼ S 31 on W., and<br>S 36 on E half;<br>1915 on S rim;<br>no trees within limits. Dig pits 18x18x12 ins., N.and S of cor. 3 ft. dist., and raise a mound of earth 3½ ft.base, 1½ ft. high,W.of cor. |
| 47.69 | From this point, Cor.No.3 of patented mining claim (Sahuarro lode) Survey No.2441, brs.N.15°35'E., 1.82 chs. dist., and cor.No.4 of same claim brs.S.59°10'E.,3.60 chs.dist. |
| 49.02 | Intersect SE. side line of patented mining claim (Jack Rabbit No.1 lode) Survey No.2441 at 1.65 chs.N.43°03' E.,of cor.No.4. |
| 59.90 | House brs.E 1 chain dist. |
| 60.00 | Frame house on line. |
| 62.34 | Intersect NW.side line of same claim at 11.23 chs.N.43° 03'E. of cor.No.3. |
| 62.40 | Road to Casa Grande,Ariz., brs.NE. and SW. |
| 62.90 | Adobe house, 20 ft.x 60 ft. brs.W. 132 lks.dist. |
| | U.S.M.M. No.1353 brs.N.84° 47' E. |
| | Stone in SE. cor.of foundation of adobe house, marked + 15382 brs.S.82° 30' W., 132 lks.dist. |
| 67.40 | Wire fence brs.E. and W. |
| 69.40 | Wire fence brs.N.80°E. and S.80° W. |
| 80.00 | U.S.M.M. No.1353 brs.S.62°20'E. |
| | Set an iron post 3 ft.long, 2 ins. in diam.,24 ins. in the ground for reestablished cor.of secs.25,30,31 and 36, with brass cap, marked,<br>T 9 S on N.half;<br>R 5 E S 30 in NE.,<br>S 31 in SE.,<br>S 36 in SW. and<br>R 4 E S 25 in NW. quadrants;<br>1915 on S.rim. |
| | No trees within limits. 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, rolling. |
| | Soil, stony and gravelly, 3rd and 4th rate. |
| | Timber, scattering palo verde and ironwood. |
| | Undergrowth, catclaw, greasewood brush,ocotillo and cacti. |
| | --- |
| | North, bet. secs.25 and 30. |
| | Over level land, through greasewood brush. |
| 11.00 | Wash, 20 lks.wide, 3 ft. deep, course W. |
| 12.90 | Wire fence brs.E and W. |
| 14.50 | Wash, 15 lks.wide, 3 ft. deep, course W. |
| 24.50 | Road brs.N.50°W. and S.50°E. |
| 30.00 | Foot of hill. Ascend SW. slope,over W.end of low hill. |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam.,6 ins. in the |

Chains.

ground to solid rock, in a mound of stone 4 ft. base, 2½ ft. high for reestablished ¼ sec.cor., with brass cap, marked
¼ S 25 on W., and
S 30 on E.half;
1915 on S.rim; pits impracticable.
Notrees within limits. Build a mound of stone 3 ft. base, 2 ft.high,W.of cor.
Descend N.slope.
58.55 Change to level land.
59.15 Road brs.E and W.
68.05 Road brs.N.80°W. and S.80°E.
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs. 19,24,25 and 30, with brass cap, marked
T 9 S on N.half;
R 5 E S 19 in NE.,
S 30 in SE.,
S 25 in SW., and
R 4 E S 24 in NW. quadrants;
1915 on S rim.
No trees within limits; 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 and rolling.
Soil, sandy loam, 2nd rate; hills limestone formation, 4th rate.
Timber, scattering scrub palo verde and ironwood.
Undergrowth, greasewood, catclaw. ocotillo and cacti.
Jan. 13. 1915.

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Mar. 9, 1915: At 8h.21m., a.m., l.m.t.,I observe Polaris at Eastern elongation in accordance with instructions in the Manual, and turn off the azimuth, 1° 21' to the west. The meridian thus determined varies less than 1' with the line thus far established.
At 8h. 30m., a.m.,l.m.t., I set off 32° 37½'N.on the lat. arc; 4°44' S. on the decl.arc; and determine a meridian with the solar. The meridian thus determined coincides with the line already established. I conclude that the adjustments of the transit and solar apparatus are satisfactory.
Thence I run,
North, bet. secs. 19 and 24.
Over rolling land, through greasewood brush and scrub palo verde timber.
17.90 Wash, 15 lks.wide, 2 ft. deep, course S.10° W.
21.70 Wash, 15 lks.wide, 2 ft. deep, course SE.
30.00 Change to stony ground.
33.50 Wash, 15 lks.wide, 3 ft. deep, course S.30° W.
Ascend gradual 1° slope.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground, to solid rock, in a mound of stone, 3 ft. base,1½ ft. high, for reestablished ¼ sec. cor.,with brass cap, marked
¼ S 24 on W., and
S 19 on E.half;
1915 on S.rim;
no trees within limits. Pits impracticable.
Build a mound of stone, 3 ft. base, 2 ft. high,W.of cor.
57.10 Wash, 15 lks.wide, 1 ft. deep, course S.40°E.
68.10 Top of ascent,46 ft.
Descend over E. end of hill, 40 ft.to
79.10 Wash, 10 lks.wide, 1 ft.deep, course E.
80.00 Set an iron post 3 ft.long, 3 ins. in diam.,24 ins. in the ground for reestablished cor.of secs.13,18,19 and 24, with brass cap, marked
T 9 S on N.half;

Chains.

R 5 E S 18 in NE.,
S 19 in SE.,
S 24 in SW.,and
R 4 E S 13 in NW. quadrants;
1915 on S.rim; from which
An ironwood 6 ins. in diam., brs.S.8°10'E.,85 lks.dist., marked T 9 S R 5 E S 19 B T.

No other trees within limits. 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, rolling and hilly.
Soil,gravel to 30 chs., 3rd and 4th rate; remainder stony, 4th rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood brush, catclaw, ocotillo and cacti.

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North, bet. secs. 13 and 18.
Over rolling land, through greasewood brush and palo verde timber.
25.00 Ascend gradual S.slope.
40.00 Set an iron post, 3 ft.long, 1 in. in diam., 12 ins. in the ground, to solid rock, in a mound of stone,3 ft. base, 1½ ft. high,for reestablished ¼ sec.cor., with brass cap, marked,
¼ S 13 on W., and
S 18 on E half;
1915 on S.rim;
No trees within limits. Pits impracticable.
Build a mound of stone, 3 ft.base, 2 ft.high,W.of cor.
Ascend stony S slope of mountain 420 ft.to
55.60 Top of ascent.
Change to broken E.slope.
65.60 Change to SE. slope, and ascend 89 ft.to
70.80 Top of ridge, brs.S.20°W. and N.20°E.
Descend over broken E.slope, 75 ft.to
80.00 Set an iron post, 3 ft.long, 3 ins. in diam.,12 ins. in the ground to solid rock, in a mound of stone 3 ft.base, 20 ins. high for reestablished cor.of secs.7,12,13 and 18, with brass cap, marked
T 9 S on N.half;
R 5 E S 7 in NE.,
S 18 in SE.,
S 13 in SW., and
P I R R 4 E S 12 in NW.quadrants;
1915 on S. rim.
No trees within limits. Build a mound of stone 3 ft. base, 2 ft.high,W.of cor.
NW. of this cor. is located a Papago Indian Reservation created by executive order dated May 28,1912,towhich area the letters "P I R" on above cor.marking refer.
Land, south half level; north half, mountainous.
Soil, sand and gravel, 2nd rate; mountains, stony with granite and limestone formation and volcanic rock on the tops of the ridges, 4th rate.
Timber, scattering scrub palo verde and ironwood.
Undergrowth, greasewood brush, catclaw, ocotillo and cacti.
At this cor.I set off 4°40'S. on the decl.arc; and at apparent noon observe the sun on the meridian; the resulting lat.is 32°39' N.

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North, bet. secs.7 and 12, east of Papago Indian Reservation.
Descend over broken NE. slope, 57 ft.to
5.00 Ascend SE. slope, 74 ft.to
9.80 Descend NE. slope, 103 ft.to
14.70 Ascend SE. slope, 16 ft.to
17.80 Top of ridge, brs.N.20°E. and S.20°W.
Descend over brokwn W.slope,154 ft.to

| Chains. | |
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| 27.57 | Ascend NE. slope, 14 ft.to |
| 30.70 | Descend N.slope, 29 ft.to |
| 38.89 | Ascend rocky S. slope, 25 ft.to |
| 40.00 | Set an iron post 3 ft.long, 1 in. in diam.,on surface rock in a mound of stone, 4 ft.base, 2½ ft. high,for re-established ¼ sec.cor., with brass cap, marked<br>¼ S 12 P I R on W., and<br>S 7 on E.half,<br>1915 on S.rim;<br>no trees within limits. Pits impracticable. |
| | Build a mound of stone 3 ft.base, 2 ft.high,W.of cor. |
| | Ascend stony S slope, 294 ft.to |
| 53.90 | Top of ridge, brs.E.and W. |
| | Descend over broken NW slope, 273 ft. |
| 63.60 | Change to N.slope. |
| 69.80 | Change to NW slope. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., on surface rock, in a mound of stone, 4 ft.base, 2½ ft. high for reestablished cor.of secs.1,6,7 and 12, with brass cap, marked<br>T 9 S on N.half;<br>R 5 E S 6 in NE.,<br>S 7 in SE., a<br>S 12 in SW, and<br>R 4 E S 1 in NW. quadrant,<br>P I R on W-half;<br>1915 on S.rim;<br>no trees within limits. Pits impracticable. |
| | Build a mound of stone, 3 ft.base, 2 ft.high,W.of cor. |
| | Land, mountainous. |
| | Soil,stony,granite formationwith quartzite, 4th rate. |
| | Timber, scattering scrub palo verde. |
| | Undergrowth, greasewood brush,ocotillo and cacti. |

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North, bet. secs. 1 and 6, east of Papago Indian Reservation.

Over hilly and rolling land, through palo verde and greasewood brush.

Descend over broken NW. slope. 81 ft.to

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| 9.90 | Ascend S. slope, 46 ft.to |
| 13.54 | Descend N.slope, 97 ft.to |
| 23.37 | Ascend S. slope, 31 ft.to |
| 25.70 | Descend N.slope, 126 ft.to |
| 40.00 | Set an iron post 3 ft.long, 1 in.in dian., 12 ins. in the ground to solid rock, in a mound of stone 3 ft. base, 1½ ft. high, for reestablished ¼ sec.cor.,with brass cap, marked<br>¼ S 1 P I R on W., and<br>S 6 on E.half;<br>1915 on S.rim. |
| | No trees within limits. Pits impracticable. Build a mound of stone, 3 ft.base, 2 ft.high,W.of cor. |
| | Over W. slope. |
| 44.00 | Wash, 60 lks.wide, 6 ft. deep, course N.60°W. |
| | Over gentle NW. slope, |
| 59.80 | Wash, 20 lks.wide, 3 ft. deep, course N.40°W. |
| 79.70 | Wash, 40 lks.wide, 3 ft. deep, course SW. |
| 80.00 | Set an iron post 3 ft.long, 3 ins. in diam., 18 ins. in the ground, to solid rock in a mound of stone 4 ft. base, 1½ ft. high, for reestablished cor.of Ts.8 and 9 S., Rs.4 and 5 E., with brass cap, marked<br>T 8 S on N.half;<br>R 5 E S 31 in NE., and<br>S 6 in SE quadrant;<br>T 9mS on S., and<br>P I R on W.half;<br>1915 on S.rim. |
| | No trees within limits. Pits impracticable. |
| | Build a mound of stone 3 ft.base, 2 ft.high, S.of cor. |

Independent Resurvey of the
80 1st Guide Meridian East through Ts. 8 S., bet. Rs. 4 and 5 E.

Chains.

Land, hilly and rolling.
Soil, stony, granite and volcanic formation, 4th rate.
Timber, scattering palo verde.
Undergrowth, greasewood brush, ocotillos and cacti.

March 9, 1915.

Independent Resurvey of the 1st. Guide Meridian East, thru. Ts. 8 S., bet. Rs. 4 and 5 East.

March 10, 1915. At 10h. a.m., l.m.t., I set off 32°41'N. on the lat. arc; 4°18'S. on the decl. arc, and determine a meridian with the solar at reestablished cor. of Ts. 8 and 9 S., Rs. 4 and 5 E., hereinbefore described.
Thence I run,
North, bet. secs. 31 and 36, east of Papago Indian Reservation.
Ascend SE. slope of conical peak, 230 ft. to
14.73 Change to E. slope.
17.13 Descend NE. slope, 80 ft. to
25.38 Small ridge, brs. S. 60°W. and N. 60°E. Descend. NW. and N. slope, 170 ft. to
40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, to solid rock, in a mound of stone, 4 ft. base, 2 ft. high for reestablished ¼ sec. cor., with brass cap, marked
¼ S, 36 P I R on W., and
S 31 on E. half;
1915 on S. rim.
No trees within limits. Pits impracticable.
Build a mound of stone 3 ft. base, 2 ft. high, W. of cof.
Descend N. slope, 20 ft. to
46.90 Ravine, 30 lks. wide, 3 ft. deep, course N. 50°W.
Ascend S. slope of hill, 79 ft. to
56.27 Top of hill. Descend N. slope 50 ft. to
62.21 Ravine, 15 lks. wide, 5 ft. deep, course S. 70°W.
Ascend rocky S. slope 243 ft. to
76.40 Top of ridge brs. W. and N. 70°E.
80.00 Set an iron post 3 ft. long, 3 ins. in diam., on surface rock, in a mound of stone 4 ft. base, 2 ft. high, for reestablished cor. of secs. 25, 30, 31 and 36, with brass cap, marked, T 8 S on N. half,
R 4 E S 25 in NW.,
R 5 E S 30 in NE.,
S 31 in SE. and
S 36 in SW. quadrants;
P I R on W. half;
1915 on S. rim; pits impracticable.
No trees within limits.
Build a mound of stone 4 ft. base, 2 ft. high, W. of cor.
Land, mountainous.
Soil, stony, 4th rate.
Timber, scattering palo verde.
Undergrowth, greasewood brush, catclaw, ocotillo and cacti.

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North, bet. secs. 25 and 30, east of Papago Indian Reservation.
Over hilly and rolling land.
Descend NW. slope, 263 ft. to
27.45 Wash, 25 lks. wide, 3 ft. deep, course N. 40°E.
Ascend SE. slope, 36 ft. to
36.00 Top of ascent.
Descend over gradual N. slope.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground, to solid rock, in a mound of stone, 3 ft. base, 1½ ft. high, for reestablished ¼ sec. cor., with brass cap, marked
¼ S 25 P I R on W., and
S 30 on E. half;
1915 on S. rim.

Chains.

No trees within limits. Pits impracticable.
Build a mound of stone, 3 ft.base, 2 ft.high,W.of cor.
45.00 Ascend S.slope of hill.
49.00 Top of hill brs.E.and W.
Descend N.slope, 89 ft.to
69.09 Wash, 20 lks.wide, 4 ft. deep, course NE.
80.00 Set an iron post 3 ft.long, 3 ins. in diam.,on surface rock,in a mound of stone, 4 ft.base, 2½ ft.high, for reestablished cor.of secs. 19,24,25 and 30, with brass cap, marked
T 8 S on N.half,
R 4 E S 24 in NW.,
R 5 E S 19 in NE.,
S 30 in SE., and
S 25 in SW.quadrants,
P I R on W.half,
1915 on S.rim.
No trees within limits. Pits impracticable.
Build a mound of stone, 3 ft.base, 2 ft.high,W.of cor.
Land, hilly and rolling.
Soil,stony,granite and volcanic formation, 4th rate.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush, catclaw, ocotillo and cacti.
March 10, 1915.

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March 11, 1915.
North, bet. secs.19 and 24, east of Papago Indian Reservation.
Ascend rocky SE.slope, 17 ft.to
1.80 Cross E. slope, and descend NE. slope, 116 ft.to
11.48 Wash, 20 lks.wide, 4 ft.deep, course E.
Ascend over E.end of hill, to
16.20 Top of ascent; descend NE slope, 52 ft.to
32.20 Enter level land.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., with brass cap, marked
¼ S 24 P I R on W., and
S 19 on E half;
1915 on S.rim.
No trees within limits. Dig pits 18x18x12 ins., N.and S.of cor.3 ft. dist., and raise a mound of earth 3½ ft. base,1½ ft. high,W.of cor.
46.90 Road, brs.E.and W.
66.20 Wash,10 lks.wide, 1 ft. deep, course N.40°E.
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor.of secs.13,18,19 and 24, with brass cap, marked
T 8 S on N.half;
R 4 E S 13 in NW.,
R 5 E S 18 in NE.,
S 19 in SE. and
S 24 in SW. quadrants;
P I R on W. half;
1915 on S.rim.
No trees within limits. 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, south 32 chs. hilly; north 48 chs.level.
Soil, stony, 4th rate and sandy loam, 2nd rate.
Timber, scattering scrub palo verde.
Undergrowth, greasewood brush,ocotillo, mesquite and cacti.
March 11,1915.

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March 12, 1915: At 8h. a.m.,l.m.t., I set off 32°43½'N. on the lat.arc; 3°33'S. on the decl.arc; and determine a meridian with the solar, at the reestablished

Independent Resurvey of the
82. 1st Guide Meridian East, through Ts. 8 S., bet. Rs. 4 & 5 E.

| Chains. | |
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| | cor. of secs. 13, 18, 19 and 24. |
| | Thence I run, |
| | North, bet. secs. 13 and 18, east of Papago Indian Reservation. |
| | Over level land, through scattering greasewood brush. |
| 3.80 | Road, brs. N. 40°E. and S. 40°W. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked<br>¼ S 13 P I R on W., and<br>S 18 on E. half,<br>1915 on S. rim. |
| | No trees within limits. Dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor. |
| 58.40 | Wash, 20 lks. wide, 1 ft. deep, course N. 20°E. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 7, 12, 13 and 18, with brass cap, marked<br>P I R T 8 S on N. half;<br>S 7 R 5 E in NE.,<br>S 12 R 4 E in NW.,<br>S 18 in SE. and<br>S 13 in SW. quadrant,<br>1915 on S. rim. |
| | No trees within limits. Dig a pit 36x36x12 ins. in sec. 18, 8 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, SE. of cor. |
| | Papago Indian Reservation brs. NE., NW. and SW. of this cor. |
| | Land, level. |
| | Soil, adobe, 1st rate. |
| | Timber, scattering palo verde. |
| | Undergrowth, greasewood brush. |
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| | North, bet. secs. 7 and 12, within the Papago Indian Reservation. |
| | Over level land, through very scattering mesquite brush. |
| 2.20 | Wash, 20 lks. wide, 1½ ft. deep, course N. 20° W. |
| 35.00 | Wash, 15 lks. wide, 2 ft. deep, course N. 10°W. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked, P I R on N.<br>¼ S 12 on W. and<br>S 7 on E. half.<br>1915 on S. rim.<br>dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor. |
| | Thence through dense mesquite brush. |
| 41.70 | Wash, 15 lks. wide, 3 ft. deep, course N. 20°W. |
| 44.00 | Wash, 15 lks. wide, 3 ft. deep, course N. 20°W. |
| 55.00 | Leave mesquite brush and enter thick growth of greasewood brush, brs. NW. and SE. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 1, 6, 7 and 12, with brass cap, marked<br>P I R T 8 S on N. half;<br>R 5 E S 6 in NE.,<br>S 7 in SE.,<br>S 12 in SW., and<br>R 4 E S 1 in NW. quadrants,<br>1915 on S. rim;<br>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. |
| | At this cor. I set off 3°30'S. on the decl. arc; and at apparent noon, observe the sun on the meridian; the resulting latitude is 32° 45' N. |
| | Land, level. |

| Chains. | |
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| | Soil, adobe, 1st rate.<br>No timber.<br>Undergrowth, greasewood brush and scattering mesquite. |
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| | North, bet. secs. 1 and 6, within the Papago Indian Reservation.<br>Over level land, through greasewood brush. |
| 1.00 | Dim road brs. NE. and SW. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with brass cap, marked<br>P I R on N.,<br>¼ S 1 on W.,<br>S 6 on E. half; and<br>1915 on S. rim;<br>dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.<br>March 12, 1915. |
| | April 16, 1915. Continue measurement. |
| 79.10 | Intersect S. bdy. of sec. 36, T. 7 S., R. 4 E., 38.22 chs. E. of ¼ sec. cor. of sec. 36, established by W.K.K., and described in Book "B."<br>At point of intersection,<br>Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for closing cor. of Ts. 8 S., Rs. 4 and 5 E., with brass cap, marked<br>C C S. of center,<br>S 6 R 5 E in SE.,<br>S 1 R 4 E in SW. quadrants;<br>T 8 S on S. half;<br>1915 on S. rim;<br>dig pits 30x24x12 ins., crosswise on each line, E. and W. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base, 2½ ft. high, S. of cor. Papago Indian Reservation SE. and SW. of this cor.<br>Land, level.<br>Soil, adobe on south 60 chs.; sandy loam, 1st rate on N. 19.10 chs.<br>No timber.<br>Undergrowth, greasewood brush and mesquite brush.<br>April 16, 1915.<br>W.H.T. |
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84. Retracement of 1st Guide Meridian East through T. 7 S.

| Chains. | |
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| | Retracement and resurvey commenced April 16,1915,and executed by W H.Thorn,U.S.Surveyor,with a Young & Son's light mountain transit No.8592,hereinbefore described. From recent and repeated field tests, I know the transit and solar attachment to be in satisfactory adjustment. At 9h. a.m., l.m.t., I set off 32°46'N.on the lat.arc;9° 55'N. on the decl.arc; and determine a meridian with the solar at the original cor.of Ts. 7 and 8 S.,Rs.4 and 5 E., which is a mesquite post 4 ins. square, 18 ins. above ground, marked and witnessed as described by the Surveyor General. Thence I run, |
| | North, on a random line bet. secs.31 and 36. |
| 40.14 | Fall 11 lks.E.of original ¼ sec.cor., which is a mesquite post 3 ins. square, 24 ins. above ground, marked and witnessed as described by the Surveyor General. |
| | True course and dist. of S.½, bet. secs.31 and 36 is therefore N.0°9'W., 40.14 chs. |
| | Set over ¼ sec.cor., and run |
| | North, on a random line on N.half, bet. secs.31 and 36. |
| 40.20 | Fall 11 lks.E. of original cor.of secs.25,30,31 and 36, which is a mesquite post, 3 ins. square, 18 ins. above ground, marked and witnessed as described by the Surveyor General. |
| | True course and distance of N.half bet. secs.31 and 36 is therefore N. 0°9' W., 40.20 chs. |
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| | From original cor.of secs.25,30,31 and 36,I run, |
| | North, on a random line, bet. secs.25 and 30. |
| 40.09 | Fall 11 lks.E. of original ¼ sec.cor., which is a mesquite post 3 ins. square, 18 ins. above ground, marked and witnessed as described by the Surveyor General. |
| | True course and dist. of S.½, bet. secs.25 and 30 is therefore N. 0°9'W., 40.09 chs. |
| | Set over ¼ sec.cor., and run, |
| | North, on a random line, on N.half;bet.secs.25 and 30. |
| 40.11 | Fall 10 lks.E. of original cor.of secs. 19,24,25 and 30, which is a mesquite post 4 ins.square,18 ins. above ground, marked and witnessed as described by the Surveyor General. |
| | True course and distance of N.half, bet. secs.25 and 30 is therefore N.0° 9' W.,40.11 chs. |
| | --- |
| | From original cor.of secs. 19,24,25 and 30,I run, |
| | North,on a random line, bet. secs.19 and 24. |
| 40.29 | Fall 21 lks.E. of original ¼ sec.cor., which is a mesquite post 4 ins.square, 18 ins. above ground, marked and witnessed as described by the Surveyor General. |
| | True course and dist. of S.half, bet. secs.19 and 24 is therefore N.0°18'W.,40.29 chs. |
| | Set over ¼ sec.cor., and run |
| | North,on a random line on N.half, bet.secs.19 and 24. |
| 40.29 | Fall 10 lks.W. of original cor.of secs.13,18,19 and 24, which is a mesquite post 4 ins.square, 24 ins. above ground, marked and witnessed as described by the Surveyor General. |
| | True course and dist.of N.half bet. secs. 19 and 24 is therefore N.0° 9'E., 40.29 chs. |
| | --- |
| | From original cor.of secs. 13,18,19 and 24,I run, |
| | North,on a random line, bet. secs. 13 and 18. |
| 40.00 | After diligent search in this vicinity, find no trace of original ¼ sec.cor. |
| | Set temp.¼ sec.cor., and continue measurement. |
| 80.16 | Fall 3 lks.E. of original cor.of secs.7,12,13 and 18,which is a mesquite post, 4 ins.square, 24 ins. above ground, marked and witnessed, as described by the Surveyor General. |

Chains.

True course and dist. of line between secs. 13 and 18 is therefore N. 0°1'W., 80.16 chs.

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From original cor. of secs. 7, 12, 13 and 18, I run, North, on a random line, bet. secs. 7 and 12.

40.00 After diligent search in this vicinity, find no trace of original ¼ sec. cor.

Set temp. ¼ sec. cor., and continue measurement.

80.38 Fall 28 lks. E. of original cor. of secs. 1, 6, 7 and 12, which is a mesquite post, 3 ins. square, 24 ins. above ground marked and witnessed as described by the Surveyor General.

True course and dist. of line bet. secs. 7 and 12 is therefore N. 0° 12'W., 80.38 chs.

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From original cor. of secs. 1, 6, 7 and 12, I run, North, on a random line, bet. secs. 1 and 6.

40.15 Fall 17 lks. E. of original ¼ sec. cor., which is a mesquite post 3 ins. square, broken off and lying on ground, with markings visible.

True course and dist. of south half bet. secs. 1 and 6 is therefore N. 0°15' W., 40.15 chs.

Set over ¼ sec. cor., and run North on a random line on N. half, bet. secs. 1 and 6.

40.12 Fall 7 lks. W. of original cor. of Ts. 6 and 7 S., Rs. 4 and 5 E., which is a mesquite post, 5 ins. square, 30 ins. above ground, marked and witnessed as described by the Surveyor General.

True course and dist. of N. ½ bet. secs. 1 and 6 is therefore N. 0°6'E., 40.12 chs.

W. H. T.
April 16, 1915.

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Chains.

April 16, 1915, continued. W. H. T.

Knowing from the closing of the S.bdy.of T.7 S.,R.4 E. against the 1st Guide Meridian East, made this day by W.K.K. as described in Book "B," that the corners on said Guide Meridian,must be changed to refer to secs. of T.7 S.,R.5 E. only,I proceed to resurvey the line as follows:

I destroy the original cor.of Ts.7 and 8 S.,Rs.4 and 5 E. hereinbefore described, and in same place set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished SW.cor.of T.7 S.,R.5 E., with brass cap, marked

T 7 S R 5 E S 31 in NE.quadrant,
1915 on S.rim;

dig pits 36x36x12 ins. on each line N.and E.of cor.8 ft.dist., and raise a mound of earth 5 ft.base, 2½ ft. high,NE.of cor. This cor. is within Papago Indian Reserve.

Thence I run, as per result of retracement hereinbefore described.

N.0° 9' W., on a true line on W bdy.of sec.31.

Over level land, through scattering undergrowth.

26.35 SE cor.of T.7 S.,R.4 E.,established by W.K.K. as described in Book "B." Papago Indian Reservation brs. NE., SE., and SW.of this cor." Thence along west of said Reservation.

40.14 Original ¼ sec.cor., which I destroy, and in same place set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor. of sec.31, with brass cap, marked

¼ S 31 on E.half;
1915 on S.rim;

dig pits 18x18x12 ins., N.and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, E.of cor.

80.34 Original cor.of secs. 25,30, 31 and 36, which I destroy, and in same place, set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor,of secs. 30 and 31, with brass cap, marked

T 7 S R 5 E S 30 in NE., and
S 31 in SE. quadrants;
1915 in S.rim;

dig pits 24x24x12 ins., NE. and SE. of post, 6 ft. dist., and raise a mound of earth 4 ft.base, 2 ft. high,E.of cor.

Land,level.

Soil, adobe, 1st rate.

No timber.

Undergrowth, greasewood brush and sagebrush.

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N.0°9'W. on a true line on W.bdy.of sec.30, west of Papago Indian Reservation.

Over level land,through dense undergrowth.

40.09 Original ¼ sec.cor., which I destroy, and in same place set an iron post 3 ft.long, 1 in. in diam.,26 ins. in the ground for reestablished ¼ sec.cor.of sec.30,with brass cap, marked

¼ S 30 on E half;
1915 on S.rim;

dig pits 18x18x12 ins. N.and S.of cor.,3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, E.of cor.

80.20 Original cor.of secs.19,24, 25 and 30, which I destroy, and in same place set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 19 and 30, with brass cap, marked

T 7 S R 5 E S 19 in NE., and
S 30 in SE quadrants;
1915 on S.rim;

dig pits 24x24x12 ins. NE. and SE.of post 6 ft. dist.,

| Chains | |
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| | and raise a mound of earth 4 ft.base, 2 ft.high,E.of cor. Papago Indian Reservation SE.of this cor. |
| | Land,level. |
| | Soil, adobe, 1st rate. |
| | Timber, none. |
| | Undergrowth, greasewood brush and sage brush. |
| | --- |
| | N.0°18'W., on a true line, on W. bdy.of sec.19. |
| | Over level land, through scattering undergrowth. |
| .60 | Old road brs.NE. and SW. |
| 40.29 | Original ¼ sec.cor., which I destroy, and in same place, set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor. of sec.19,with brass cap, marked<br>¼ S 19 on E.half;<br>1915 on S.rim;<br>dig pits 18x18x12 ins., N.and S. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, E.of cor. |
| | Thence I run, |
| | N.0°9'E., on a true line on N.half of W.bdy.of sec.19. |
| 40.29 | Original cor.of secs.13,18,19 and 24, which I destroy,and in same place set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs.18 and 19, with brass cap,marked<br>T 7 S R 5 E S 18 in NE., and<br>S 19 in SE. quadrants;<br>1915 on S.rim;<br>dig pits 24x24x12 ins. NE. and SE.of post 6 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high,E.of cor. |
| | Land,level. |
| | Soil, adobe, 1st rate. |
| | No timber. |
| | Undergrowth, greasewood brush and scattering mesquite. |
| | --- |
| | N. 0° 1' W., on a true line on W bdy.of sec.18. |
| | Over level land, through scattering undergrowth. |
| 40.08 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec.cor.of sec.18,with brass cap, marked<br>¼ S 18 on E half;<br>1915 on S rim;<br>dig pits 18x18x12 ins., N.and S. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,E. of cor. |
| 80.16 | Original cor.of secs. 7,12,13 and 18, which I destroy,and in same place set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7 and 18, with brass cap, marked<br>T 7 S R 5 E S 7 in NE., and<br>S 18 in SE. quadrants,<br>1915 on S rim;<br>dig pits 24x24x12 ins. NE. and SE.of post 6 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high,E. of cor. |
| | Land,level. |
| | Soil, adobe, 1st rate. |
| | No timber. |
| | Undergrowth, greasewood brush and scattering mesquite. |
| | --- |
| | N.0°12'W., on a true line on W. bdy.of sec.7. |
| | Over level land, through scattering undergrowth. |
| 25.00 | Leave greasewood brush, brs.NW. and SE. |
| 40.19 | Set an iron post 3 ft.long, 1 in.in diam., 26 ins. in the |

| Chains | |
|---|---|
| | ground, for reestablished ¼ sec.cor.of sec.7, with brass cap, marked<br>¼ S 7 on E.half;<br>1915 on S.rim;<br>dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist., and raise a mound of earth 3½.ft. base, 1½ ft. high, E. of cor. |
| 53.30 | Wash, 200 lks.wide, 4 ft. deep, course NW. |
| 60.00 | Enter greasewood brush, brs.NW. and SE. |
| 80.38 | Original cor.of secs.1,6,7 and 12, which I destroy, and in same place set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor.of secs. 6 and 7, with brass cap, marked<br>T 7 S.R 5 E S 6 in NE., and<br>S 7 in SE.quadrants,<br>1915 on S.rim;<br>dig pits 24x24x12 ins. NE. and SE.of post 6 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high, E.of cor. |
| | Land, level.<br>Soil, sandy adobe, 1st rate.<br>No timber.<br>Undergrowth, greasewood brush and sagebrush. |
| | --- |
| | N.0°15'W. on a true line, on W bdy.of sec.6.<br>Over level land, through scattering undergrowth. |
| 40.15 | Original ¼ sec.cor., which I destroy, and in same place, set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec.cor., of sec.6, with brass cap, marked<br>¼ S 6 on E.half;<br>1915 on S.rim;<br>dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, E. of cor. |
| | Thence I run,<br>N.0°6'E., on a true line on N.half of W.bdy.of sec.6. |
| 40.12 | Original cor.of Ts.6 and 7 S., Rs.4 and 5 E., which I destroy, and in same place, set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of Ts.6 and 7 S., Rs. 4 and 5 E., with brass cap marked<br>T 6 S on N.half;<br>R 5 E S 31 in NE.,<br>S 6 in SE.,<br>S 1 in SW., and<br>R 4 E S 36 in NW. quadrants,<br>T 7 S on S. half;<br>1915 on S.rim;<br>dig pits on each line N., E and W 4 ft., and S.of cor. 8 ft.dist., and raise a mound of earth 5 ft.base, 2½ ft. high, S.of cor. |
| | Land, level.<br>Soil, sandy adobe, 1st rate.<br>No timber.<br>Undergrowth, greasewood brush and sage brush.<br>April 16, 1915.<br>W.H.T. |
| | --- |

Chains.

In the following field notes, the initials "W.H.T." and "W.K.K." are inserted at the beginning and end of those portions of the notes describing the surveys by W.H.Thorn, U.S.Surveyor, and W.K.Kierulff, U.S.Transitman, respectively.

Survey commenced Nov.6, 1914, by W. H. T., and executed with a Young and Sons' light mountain transit No.8592, hereinbefore described.

From recent and repeated field tests on the Gila and Salt River Meridian, which I have tested by numerous observations on Polaris by a.m. and p.m. solar observations, I know the transit and solar attachment to be in satisfactory adjustment.

Having this day determined a meridian on the G. and S.R. M., I deflect 90° from the N. to the right, at the standard cor. of Ts.5 and 6 S., Rs.1 E. and 1 W., and run E on a true parallel of latitude, as determined by frequent solar observations.

East along south bdy.of sec. 31.

Over level land, through scattering timber and undergrowth.

27.90 Wash, 20 lks.wide, 1½ ft. deep, course N.10°W.

30.00 Ascend rocky W slope, 60 ft.to

40.00 No difference between measurements of 40.00 chs. by two sets of chainmen.

Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground, to solid rock, in a mound of stone, 3 ft. base, 2 ft.high, for the standard ¼ sec.cor.,with brass cap, marked

S C ¼ S 31 on N.half;
1915 on S rim.

Build a mound of stone 3 ft.base, 2½ ft. high,N.of cor.

42.17 Top of ridge, brs.S.10°E. and N.20°W.,100 ft. ascend.

At this point, I build a mound of stone, 3 ft. base, 2 ft.high on line.

Descend E slope, 100 ft.to

56.70 Wash, 15 lks.wide,1 ft. deep, course N. 45° E.

Thence over rolling land, to

59.50 Enter level land.

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

By 1st set, 79.97 chs.
By 2nd set, 80.03 chs., the mean of which is

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

S C T 5 S R 1 E on N.half;
S 32 in NE., and
S 31 in NW. quadrants;
1915 on S.rim, from which
An ironwood, 6 ins. in diam., brs. N. 46¾°W., 176 lks.dist., marked T 5 S R 1 E S 31 B T.

No other trees within limits., Dig pits 24x18x12 ins., crosswise on each line,E.and W. 3 ft. and N.of cor., 7 ft. dist., and raise a mound of earth 4 ft.base,2 ft. high,N.of cor. Land, hilly for 30 chs., remainder,level.

Soil,on hilly portion,stony,4th rate;on level land,sandy loam,2nd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood brush, ocotillo and cacti.

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East along S.bdy.of sec.32.

Over level land, through scattering timber and undergrowth.

8.00 Wash, 12 lks,wide, 1 ft. deep, course N.10° E.

16.60 Wash,20 lks.wide, 1 ft. deep, course N.15° E.

Difference between measurements of 40 chs. by two sets of chainmen is 1 lk.; position of middle point

Chains.

By 1st set, 39.99½ chs.
By 2nd set, 40.00½ chs., the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec.cor., with brass cap, marked

S C ¼ S 32 on N.half; and
1914 on S.rim; from which
A mesquite, 12 ins. in diam., brs.N.78¾°E., 235 lks.dist., marked ¼ S 32 B T.

At this cor. I set off 15° 54'S. on the decl.arc; and at apparent noon, observe the sun on the meridian; the resulting lat.is 32° 57'N.

At 1h. p.m.,l.m.t., I set off 32° 56½'N.on the lat.arc;15° 54'S. on the decl.arc; and determine a meridian with the solar.

Thence continue line east.

46.30 Wash, 20 lks.wide, 1½ ft. deep, course N.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for standard cor. of secs.32 and 33, with brass cap, marked

S C T 5 S R 1 E on N.half;
S 33 in NE., and
S 32 in NW. quadrants;
1914 on S.rim;

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

Land, level.
Soil, sandy loam, 1st rate.
Timber, scattering palo verde, mesquite and ironwood.
Undergrowth, greasewood brush and catclaw.

Nov. 6, 1914.
W.H.T.

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W.K.K.
Survey commenced May 3, 1915, and executed with a Young and Sons' light mountain transit No.8492, described in Book "B."

From recent and repeated field tests I know the transit and solar attachment to be in satisfactory adjustment.

At 10h. a.m.,l.m.t., I set off 32° 56½' N. on the lat.arc; 15°30'N. on the decl. arc; and determine a meridian with the solar at the standard cor.of secs. 32 and 33, established by W.H.Thorn, U.S.Surveyor, as hereinbe-before described.

Thence I run,
East along S. bdy. of sec.33.
Over level land, through scattering timber and undergrowth.

No difference between measurements of 40 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft,long, 1 in. in diam.,26 ins. in the ground for standard ¼ sec.cor., with brass cap, marked

S C ¼ S 33 on N.half;
1915 on S.rim;

dig pits 18x18x12 ins., E.and W.of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor.

79.50 Low round hill, brs.S. about 2 chs.dist.

No difference between measurements of 80 chs. by two sets of chainmen.

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

S C T 5 S R 1 E on N. half;
S 34 in NE., and
S 33 in NW. quadrants;
1915 on S.rim;

build a mound of stone 3½ ft. base, 2½ ft. high,N.of cor.

| Chains. | |
|---|---|
| | Land, level. |
| | Soil, sandy loam, 2nd rate. |
| | Timber, scattering mesquite. |
| | Undergrowth, greasewood brush. |
| | ---------- |
| | East, along south bdy. of sec. 34. |
| | Over level land, through scattering timber and undergrowth. |
| 23.60 | Wash, 14 lks. wide, 3 ft. deep, course NE. |
| | No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec. cor., with brass cap, marked, S C ¼ S 34 in N. half; 1915 in S. rim; dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for standard cor. of secs. 34 and 35, with brass cap, marked S C T 5 S R 1 E on N. half; S 35 in NE., and S 34 in NW quadrants; 1915 on S. rim; dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft., and N. of cor., 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor. |
| | Land, level. |
| | Soil, sandy loam, 1st rate. |
| | Timber, scattering mesquite and palo verde. |
| | Undergrowth, greasewood brush. |
| | ---------- |
| | East, along south bdy. of sec. 35. |
| | Over level land, through scattering timber and undergrowth. |
| | Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk.; position of middle point By 1st set, 40.00½ chs. By 2nd set, 39.99½ chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec. cor., with brass cap, marked S C ¼ S 35 on N. half; 1915 on S. rim; dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for standard cor. of secs. 35 and 36, with brass cap, marked S C T 5 S R 1 E on N. half; S 36 in NE., and S 35 in NW. quadrants; 1915 on S. rim; dig pits 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor. |
| | Land, level. |
| | Soil, sandy loam, 1st rate. |
| | Timber, scattering mesquite. |
| | Undergrowth, greasewood brush. |
| | ---------- |

92. Survey of First Standard Parallel S., through Range 1 E.

| Chains. | |
|---|---|
| | East, along south bdy. of sec. 36. |
| | Over level land, through scattering timber and undergrowth. |
| 6.80 | Wash, 20 lks. wide, 2 ft. deep, course NE. |
| 11.70 | Wash, 100 lks. wide, 4 ft. deep, course NE. |
| | No difference bet. measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec. cor., with brass cap, marked<br>S C ¼ S 36 on N., half;<br>1915 on S. rim; from which<br>A palo verde, 12 ins. in diam., brs. N. 48° E., 132 lks. dist., marked ¼ S 36 B T. |
| | At this cor., I set off 15° 32' N. on the decl. arc; and at apparent noon, observe the sun on the meridian; the resulting latitude is 32° 56' N. |
| 40.50 | Wash, 50 lks. wide, 4 ft. deep, course N. |
| 70.00 | Ascend over gentle SW. slope, along foot of high ridge. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for standard cor. of Ts. 5 S., Rs. 1 and 2 E., with brass cap, marked<br>S C T 5 S on N. half;<br>R 2 E S 31 in NE., and<br>R 1 E S 36 in NW. quadrants,<br>1915 on S. rim;<br>build a mound of stone 4 ft. base, 3 ft. high, N. of cor. |
| | From this cor. an old mound of stone, brs. S. 32° 10' W., 168 lks. dist. No marks visible. |
| | Land, level except last 10 chs. |
| | Soil, 1st 40 chs., sandy loam, 1st rate; remainder, stony, 3rd rate. |
| | Timber, scattering palo verde and mesquite. |
| | Undergrowth, greasewood brush and catclaw. |
| | May 3, 1915. |

Chains.

May 3, 1915, continued.
From standard cor. of Ts. 5 S., Rs.1 and 2 E.,I run,
East along south bdy. of sec. 31.
Over rolling ridges, through scattering timber and undergrowth.
Ascend steep W. slope, 70 ft. to
12.60 Top of ridge, brs. N. and S.
Descend SE. slope, 60 ft. to
17.46 Wash, 10 lks. wide, 4 ft. deep, course S.
Thence over rolling land, to
25.00 Ascend SW. slope, 56 ft. to
35.15 Top of ridge, brs. N. and S., slopes S.
Descend E. slope, 57 ft. to ¼ sec. cor.
Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point,
By 1st set, 40.00½ chs.
By 2nd set, 39.99½ chs., the mean of which is
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec. cor., with brass cap, marked
S C ¼ S 31 in N. half;
1915 on S. rim.
Build a mound of earth and stone, 3 ft. base, 2 ft. high, N. of cor.
55.50 Wash, 35 lks. wide, 2 ft. deep, course S.
No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for standard cor. of secs. 31 and 32, with brass cap, marked
S C T 5 S R 2 E on N. half;
S 32 in NE., and
S 31 in NW. quadrants;
1915 on S rim;
dig pits 18x18x12 ins., crosswise on each line, E. and W 3 ft., and N. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
Land, level and hilly.
Soil, stony and sandy, 4th and 2nd rate.
Timber, scattering palo verde.
Undergrowth, greasewood brush, ocotillo and cacti.

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East along S. bdy. of sec. 32.
Over level land, through scattering timber and undergrowth.
No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec. cor., with brass cap, marked
S C ¼ S 32 on N. half;
1915 on S. rim;
dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.
47.90 Wash, 20 lks. wide, 2 ft. deep, course NE.
No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for standard cor. of secs. 32 and 33, with brass cap, marked
S C T 5 S R 2 E on N. half;
S 33 in NE., and
S 32 in NW. quadrants; and
1915 on S. rim;
dig pits 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
Land, level.
Soil, sandy loam, 1st rate.

| Chains. | |
|---|---|
| | Timber, scattering palo verde and ironwood.<br>Undergrowth, greasewood brush. |
| | --- |
| | East, along S. bdy. of sec. 33.<br>Over level land, through scattering timber and undergrowth.<br>No difference between measurements of 40.00 chs. by two sets of chainmen. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec. cor., with brass cap, marked,<br>S C ¼ S 33 on N. half,<br>1915 on S. rim;<br>dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor, |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for standard cor. of secs. 33 and 34, with brass cap, marked<br>S C T 5 S R 2 E on N. half;<br>S 34 in NE., and<br>S 33 in NW. quadrants;<br>1915 on S. rim;<br>dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft., and N. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor. |
| | Land, level.<br>Soil, sandy loam, 1st rate.<br>Timber, scattering palo verde and ironwood, and mesquite.<br>Undergrowth, greasewood brush. |
| | --- |
| | East, along S. bdy. of sec. 34.<br>Over level land, through scattering timber and undergrowth.<br>Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk.; position of middle point,<br>By 1st set, 39.99½ chs.<br>By 2nd set, 40.00½ chs., the mean of which is |
| 40.00 | Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec. cor., with brass cap, marked<br>S C ¼ S 34 on N. half;<br>1915 on S. rim;<br>dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor. |
| | No difference between measurements of 80.00 chs. by two sets of chainmen. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for standard cor. of secs. 34 and 35, with brass cap, marked<br>S C T 5 S R 2 E on N. half;<br>S 35 in NE., and<br>S 34 in NW. quadrants;<br>1915 in S. rim;<br>dig pits 24x18x12 ins., crosswise on each line, E. and W., 3 ft., and N. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor. |
| | Land, level.<br>Soil, sandy loam, 1st rate.<br>Timber, scattering ironwood.<br>Undergrowth, greasewood brush.<br>May 3, 1915. |
| | --- |

Chains.

May 4, 1915: At 9h. a.m., l.m.t., I set off 32°56½'N., on the lat.arc; 15°47'N. on the decl.arc, and determine a meridian with the solar at the standard cor.of secs. 34 and 35.

Thence I run,

East, along south bdy. of sec.35.

Over level land, through scattering timber and undergrowth.

34.50 Road, brs.NE. and SW.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec.cor., with brass cap, marked,

S C ¼ S 35 on N.half;
1915 on S.rim;

dig pits 18x18x12 ins., E.and W. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor.

Difference between measurements of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point

By 1st set, 80.00½ chs.
By 2nd set, 79.99½ chs., the mean of which is

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

S C T 5 S R 2 E on N.half;
S 36 in NE., and
S 35 in NW.quadrants;
1915 on S.rim;

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

Land, level.

Soil, sandy loam, 1st rate.

Timber, scattering ironwood.

Undergrowth, greasewood brush.

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East along south bdy.of sec.36.

Over level land, through scattering timber and undergrowth.

No difference between measurements of 40.00 chs. by two sets of chainmen .

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec.cor., with brass cap, marked

S C ¼ S 36 on N.half;
1915 on S.rim;

dig pits 18x18x12 ins., E.and W.of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor.

77.70 Intersect W. bdy.of Tp.5 S., R.3 E., 13.60 chs.N, of cor. of Ts.5 S., Rs.2 and 3 E., which is an iron post 3 ft. long, 3 ins. in diam., 12 ins. above ground, marked and witnessed as described by the Surveyor General. I change the markings to T.5 S., R.3 E. S 31 in NE.quadrant, destroy the pits and mound, dig pits 36x36x12 ins. on each line N.and E.of cor.8 ft. dist., and raise a mound of earth 5 ft.base, 2½ ft. high, NE. of cor.

At point of intersection,

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for standard closing cor.of Ts.5 and 6 S., R.2 E., with brass cap, marked

S 1 in SW., and
T 5 S R 2 E S 36SCCC in NW.quadrants;
1915 on S rim;

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

96. Survey of First Standard Parallel South, thru. Range 2 East.

Chains.

Land, level.
Soil, sandy loam, 1st rate.
Timber, scattering palo verde and mesquite.
Undergrowth, greasewood brush.

W. K. K. May 4, 1915.

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BOOK 2891

~~98~~ 97

FOR CERTIFICATES

~~FINAL OATH~~ OF UNITED STATES SURVEYOR,

AND UNITED STATES TRANSITMAN.

See page 2 of this book.

I, ....., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

.....

*U. S. Surveyor.*

Subscribed by said ....., and sworn to before me this ..... day of ....., 191 .

.....

SEAL

.....

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ariz., 1917

The foregoing field notes of the ~~survey of~~ Resurvey of THE GILA AND SALT RIVER MERIDIAN thru 5½ of T. 2 S., & thru Ts. 3, 4, 5, 6, 7, 8, 9 and 10 South; THE SECOND STANDARD PARALLEL SOUTH thru Rs. 1, 2, 3, 4, 5, 6 and 7 East and the FIRST GUIDE MERIDIAN EAST thru Ts. 7, 8, 9 and 10 South and Survey of THE FIRST STANDARD PARALLEL SOUTH thru Rs. 1 and 2 East OF THE GILA & SALT RIVER BASE AND MERIDIAN - IN THE STATE OF ARIZONA.

executed by W. H. Thorn, U. S. Surveyor and W. K. Kierulff, U. S. Transitman under special instructions dated July 29, 1914 for Group 38 - Arizona, , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys and surveys they describe, are hereby approved.

Frank O. Wyatt

*U. S. Surveyor General. of Arizona.*

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

.....

~~U. S. Surveyor General.~~

6—2761