

BOOK 2949

Subdivisions

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES OF

TOWNSHIP 14 NORTH, RANGE 19 WEST

2949

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Albert Smith Jr., U. S. Surveyor

and

Deane J. Wolff, U. S. Transitman

2949

~~In the capacity of U. S. Surveyor~~, under instructions dated December 28, 1914, issued by the United States Surveyor General to govern surveys included in Group No. 42, which were approved by the Commissioner of the General Land Office, January 22, 1915.

Survey commenced January 20, 1916

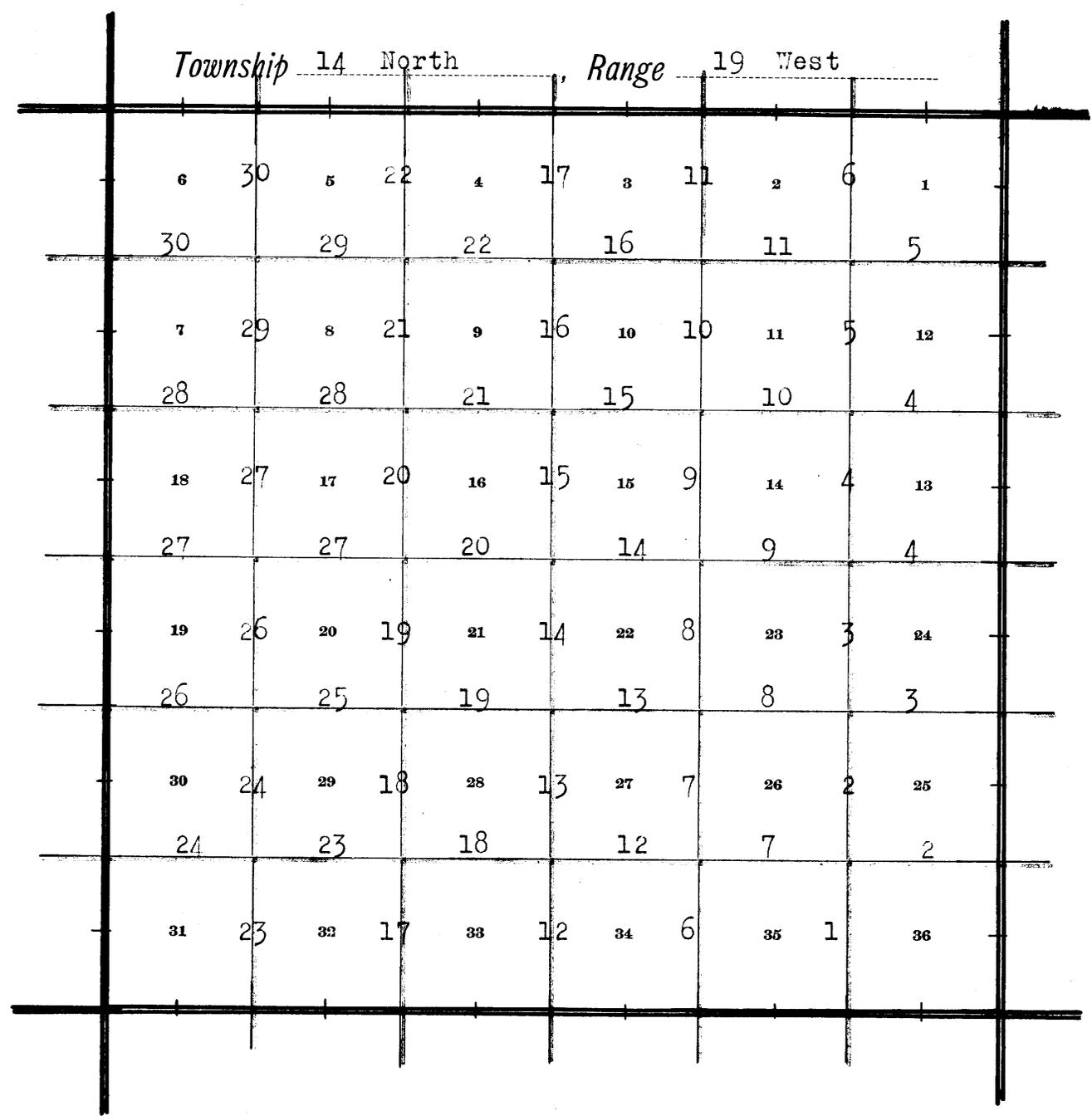
Survey completed February 9, 1916

52.
1A

BOOK 2940

Book "Q"
Group 42, Arizona
(Subdivisions)

INDEX DIAGRAM.



———— Township Exteriors. Notes in Book "A"

———— Subdivision lines surveyed under this Group.

Subdivision of T. 14 N. R. 19 W.

Chains

Survey commenced Jan. 20, 1916., and executed jointly by Albert Smith Jr., U. S. surveyor, and D. J. Wolff, U. S. Transitman, with Young and Sons light mountain transits Nos. 8583 and 8396, respectively, with Smith solar attachments. For description of instruments and certificate of approval see Book "F".

In the following field notes, the initials A. S. and D. J. W., refer to Albert Smith Jr., U. S. Surveyor and D. J. Wolff, U. S. transitman, respectively.

Knowing from recent and repeated tests of these instruments on a meridian established by observation on Polaris at elongation, that they are in adjustment, we proceed to the subdivision of T. 14 N. R. 19 W.

Jan. 21, 1916. A. S.

At 9 h. 0m., a. m., l.m.t., I set off $34^{\circ} 30' 5''$ N. on the lat. arc, $20^{\circ} 04' 5''$ S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs 1, 2, 35 and 36, on the S. bdy. of the Tp., which is a stone established by J. M. M. as described in book "A".

Thence I run

N. $0^{\circ} 01'$ W. bet. secs. 35 and 36.

Over mountainous land, through scattering undergrowth.

Asc. steep rocky SW. slope 168 ft. to

6.90
13.00
20.60
28.40
31.40
40.00

Crest of spur, falls to W., desc. along W. slope 60 ft. to

Head of draw, drains SW., asc. SE. slope 178 ft. to

Rocky spur, falls to SW., asc. W. slope 132 ft. to

Ravine, course SW., asc. SW. slope 98 ft. to

Crest of ridge, bears N., SW. and SE., asc. up ridge 94 ft. to

Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in ground to solid rock, 20 ins. in mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap

1916 on S. rim;

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

S36 in E. and

S35 in W. half;

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

43.30

Continue to asc. up ridge 15 ft. to

Ridge bears off to NE. Spur falls to NW., desc. NW. slope 160 ft. to

48.80

Gulch, course W., asc. S. slope 110 ft. to

51.80

Crest of spur, falls to W., desc. NE. slope 395 ft. to

63.30

Gulch, course W., asc. S. slope 87 ft. to

66.50

Crest of spur, falls to W. 15.00 chs. dist., desc. N. slope 252 ft. to

72.10

Gulch, 12 lks. wide, course W., asc. S. slope 167 ft. to

80.00

Point for cor. falls on rocky ledge. I return to

79.32

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in ground to solid rock, 18 ins. in mound of stone for witness cor. to cor. of secs. 25, 26, 35 and 36, marked on brass cap

1916 on S. rim;

T14N R19W WC in N. half;

S26 in NW.,

S25 in NE.,

S36 in SE. and

S35 in SW. quadrant;

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

Land, rough mountainous.

Soil, shallow, rocky, 4th rate.

Undergrowth, sage, palo verde, mescal, cacti and greasewood.

No timber.

Jan. 21, 1916.

A. S.

Jan. 25, 1916. D. J. W. From true cor. point I run East on a random line bet, secs. 25 and 36.

Subdivision of T. 14 N. R. 19 W.

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Chains	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect the E. bdy. of the Tp., 15 lks. S. of the cor. of secs. 25, 30, 31 and 36, which is a stone, established by J. M. M. as described in book "A".
	Thence I run
	S. $89^{\circ} 54'$ W. on a true line bet. secs. 25 and 36.
	Over mountainous land through scattering undergrowth.
	Desc. along S. slope 15 ft. to
8.00	Wash. 15 lks. wide, course SE., asc. E. slope 150 ft. to
24.45	Crest of ridge, bears N. and S., desc. N. slope 170 ft. to
39.00	Gulch, course SW., asc. S. slope 40 ft. to
40.02	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in ground, 15 ins. in mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap
	1916 on S. rim;
	S25 in N.,
	S36 in S. and
	$\frac{1}{4}$ in W. half;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
41.00	Crest of spur, falls to S., desc. W. slope 30 ft. to
42.55	Gulch, course S., asc. E. slope 60 ft. to
45.70	Crest of spur, falls to SE., desc. SW. slope 25 ft. to
57.00	Ravine, course SE., asc. E. slope 70 ft. to
59.80	Crest of main ridge, Chemehuevis mountains, bears NE. and SW., desc. W. slope 40 ft. to
62.40	Crest of spur, falls to SW., desc. W. slope 100 ft. to
65.40	Head of ravine, course SW. continue to desc. 216 ft. to
80.04	The true point for cor. of secs. 25, 26, 35 and 36. Land, rough mountainous. Soil, rocky, very shallow, 4th. rate. Undergrowth, sage, greasewood, palo verde and cacti. No timber.
	N. $0^{\circ} 01'$ W. bet. secs. 25 and 26. from true cor. point
	Over mountainous land, through scattering undergrowth,
	Asc. rocky S. slope 290 ft. to
7.15	Crest of ridge, bears E. and W., desc. over broken, rocky NW. slope 310 ft. to
22.60	Narrow rocky canon, course W., asc. SW. slope 70 ft. to
23.50	Crest of spur, falls to W., desc. N. slope 50 ft. to
24.90	Gulch, course SW., asc. SW. slope 370 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	1916 on S. rim;
	$\frac{1}{4}$ in N.,
	S25 in E. and
	S26 in W. half;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	From $\frac{1}{4}$ sec. cor. continue to asc. 70 ft. to
44.90	Crest of spur, falls to W., continue to asc. SW. slope over broken rock ledges 300 ft. to
55.90	Crest of spur, falls to W., desc. NW. slope 100 ft. to
59.50	Ravine, course NW., asc. SW. slope 75 ft. to
62.60	Crest of spur, falls to W., desc. NE. slope over rock ledges 275 ft. to
71.05	Deep narrow canon, course W., asc. S. slope 230 ft. to
79.00	Crest of spur, falls to SW., along W. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. of secs. 23, 24, 25 and 26, marked on brass cap
	1916 on S. rim;
	T14N R19W in N. half;
	S23 in NW.,
	S24 in NE.,
	S25 in SE. and
	S26 in SW. quadrant;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Subdivision of T. 14 N. R. 19 W .

Chains

Land, rough mountainous.
Soil, very rocky, 4th. rate
Undergrowth, ocatillo, palo verde and cacti.
No timber.
Jan. 25, 1916. D. J. W.

40.00
79.95

Jan. 28, 1916. D. J. W.
At 9 h. 0 m., a.m., l.m.t., I set off 34° 32' N. on the
lat. arc, 18° 23 1/2' S. on the decl. arc, and determine
a meridian with the solar at the cor. of secs. 23,
24, 25 and 26
Thence I run
N. 89° 54' E. on a random line bet. secs. 24 and 25.
Set temp. 1/4 sec. cor.
Intersect the E. bdy. of the Tp., 37 lks. N. of the cor.
of secs. 19, 24, 25 and 30, which is a stone established
by J. M. M. as described in book "A".

5.20
17.80
35.70

Thence I run
N. 89° 50' W. on a true line bet. secs. 24 and 25.
Over mountainous land, through scattering undergrowth.
Desc. SW. slope 20 ft. to
Gulch, course S., asc. SE. slope 175 ft. to
Spur, falls to S., along broken S. slope to
Main ridge, Chemehuevis mountains, bears N. and S., desc.
W. slope 175 ft. to

39.97 1/2

Impracticable to set an iron post at this point. Set a
granite stone, 24 X 6 X 4 ins., 14 ins. in the
ground for 1/4 sec. cor., marked 1/4 on N. face; and
raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N.
of cor. Pits impracticable.

65.70
69.10
75.25
79.05
79.95

From 1/4 sec. cor. continue to desc., 545 ft. to
Narrow canon, course SW., asc. E. slope 50 ft. to
Crest of spur, falls to S., desc. W. slope 105 ft. to
Ravine, course S., asc. SE. slope 75 ft. to
Crest of spur, falls to SW., desc. W. slope 20 ft. to
The cor. of secs. 23, 24, 25 and 26.

Land, rough mountainous.
Soil, very shallow and rocky, 4th. rate.
Undergrowth, greasewood, palo verde and cacti.
No timber.
Jan. 28, 1916.

10.00
15.70
40.00

Jan. 31, 1916.
N. 0° 01' W. bet. secs. 23 and 24.
Over mountainous land, through scattering undergrowth.
Asc. steep rocky SW. slope 80 ft. to
Ravine, course SW., continue to asc. S. slope 305 ft. to
Crest of ridge, bears E. and W., desc. N. slope 235 ft. to
Impracticable to set an iron post at this point. Set a
granite stone, 18 X 10 X 6 ins., 15 ins. in the
ground, for 1/4 sec. cor., marked 1/4 on W. face; and
raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W.
of cor. Pits impracticable.

65.25
80.00

From 1/4 sec. cor. continue to desc. N. slope 477 ft. to
Wash, 2.00 chs. wide, course W., asc. broken S. slope
150 ft. to

Impracticable to set an iron post at this point. Set a
granite stone, 18 X 6 X 6 ins., 9 ins. in ground,
for cor. of secs. 13, 14, 23, and 24, marked with
1 notche on E. and 3 notches on S. edges; and raise
a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of
cor. Pits impracticable.

Land, rough mountainous.
Soil, rocky, 4th. rate.
Undergrowth, palo verde, sage and cacti.
No timber.

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

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Chains
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.22 Intersect the E. bdy. of the Tp., 3 lks. N. of the cor. of secs. 13, 18, 19 and 24, which is a stone established by J. M. M. as described in book "A".
Thence I run
N. $89^{\circ} 49'$ W. on a true line bet. secs. 13 and 24. Over mountainous land, through scattering undergrowth. Desc. along steep rocky N. slope 195 ft. to
40.11 Impracticable to set an iron post at this point. Set a granite stone 16 X 7 X 5 ins., 14 ins. in ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
From $\frac{1}{4}$ sec. cor., U S L M 1429 bears $N39^{\circ} 16'$ E. 43.55 chs. dist.
From $\frac{1}{4}$ sec. cor., along N. slope to
41.30 Crest of ridge, bears NW. and SE., desc. along steep rocky SW. slope 665 ft. to
80.22 The cor. of secs. 13, 14, 23 and 24. Land, rough mountainous. Soil, very shallow and rocky, 4th. rate. Undergrowth, greasewood, ocatillo and cacti. No timber.

Jan. 31, 1916.

Feb. 1, 1916. D. J. W.
At 8 h. 30 m., a.m., l.m.t., I set off $34^{\circ} 33'$ N. on the lat. arc, $17^{\circ} 18\frac{1}{2}'$ S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24.
Thence I run
N. $0^{\circ} 01'$ W. bet. secs. 13 and 14. Over mountainous land, through scattering undergrowth. Asc. broken S. slope 285 ft. to
15.61 Crest of ridge, bears E. and W., desc. N. slope 295 ft. to
32.70 Wash, 50 lks. wide, course W., asc. broken S. slope 260 ft. to
40.00 Impracticable to set an iron post at this point. Set a granite stone, 14 X 8 X 6 ins., 11 ins. in ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
From $\frac{1}{4}$ sec. cor. continue to asc. 300 ft. to
48.40 Crest of ridge, bears NE. and SW., along W. slope to
80.00 Impracticable to set an iron post at this point. Set a granite stone 16 X 7 X 7 ins., 10 ins. in ground for cor. of secs. 11, 12, 13 and 14, marked with 1 notch on E. and 4 notches on S. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits, impracticable.
Land, rough mountainous. Soil, very shallow and rocky, 4th. rate. Undergrowth, greasewood, ocatillo and cacti. No timber.

40.00 S. $89^{\circ} 49'$ E. on a random line bet. secs. 12 and 13. Set temp. $\frac{1}{4}$ sec. cor.
80.02 Intersect the E. bdy. of the Tp., 28 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is a stone established by J. M. M. as described in book "A".
Thence I run
S. $89^{\circ} 59'$ W. on a true line bet. secs. 12 and 13. Over mountainous land, through scattering undergrowth. Asc. along NE. slope 475 ft. to
33.20 Crest of main ridge, Chemehuevis Mtns., bears NW. and SE., desc. W. slope 160 ft. to
40.01 Impracticable to set an iron post at this point. Set a sandstone, 16 X 8 X 5 ins., 10 ins. in ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a

Chains

mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 Pits impracticable.
 From ¼ sec. cor. continue to desc. W. slope 125 ft. to
 45.00 Ravine, course SW., thence along S. slope to
 62.30 Crest of ridge, bears NE. and SW., desc. steep NW. slope
 435 ft. to
 80.02 The cor. of secs. 11, 12, 13 and 14.
 Land, rough mountainous.
 Soil, very shallow and rocky, 4th. rate.
 Undergrowth, greasewood, ocatillo and cacti.
 Timber, few scattering pinon.
 Feb. 1, 1916.

Feb. 2, 1916.
 At 9 h. 0 m., a.m., l.m.t., I set off 34° 34' N. on the
 lat. arc, 17° 01.5' S. on the decl. arc, and determine
 a meridian with the solar at the cor. of secs. 11,
 12, 13 and 14.
 Thence I run
 N. 0° 01' W. bet. secs. 11 and 12.
 Over mountainous land, through scattering undergrowth.
 Along NW. slope to
 15.00 Ravine, course SW., asc. S. slope 225 ft. to
 25.90 Crest of main ridge, Chemehuevis Mtns., bears NW. and
 SE., desc. NE. slope 294 ft. to
 40.00 Impracticable to set an iron post at this point. Set a
 granite stone, 13 X 12 X 10 ins., 10 ins. in the
 ground, for ¼ sec. cor., marked ¼ on W. face; and
 raise a mound of stone, 2 ft. base, 1½ ft. high, W.
 of cor. Pits impracticable.
 From ¼ sec. cor. continue to desc. NE. slope 190 ft. to
 47.75 Wash, 15 lks. wide, course NW., thence along W. slope to
 52.50 Crest of low spur, falls to W., desc. along W. slope
 260 ft. to
 77.70 Wash, 50 lks. wide, course NE., asc. SE. slope 25 ft. to
 80.00 Impracticable to set an iron post at this point. Set a
 granite stone, 20 X 12 X 12 ins., 15 ins. in the
 ground, for the cor. secs. 1, 2, 11 and 12, marked
 with 1 notch on E. and 5 notches on S. edges; and
 raise a mound of stone, 2 ft. base, 1½ ft. high, W.
 of cor. Pits impracticable.
 Land, rough mountainous.
 Soil, very shallow and rocky, 4th. rate.
 Undergrowth, greasewood, ocatillo, palo verde and cacti.
 No timber.

N. 89° 59' E. on a random line bet. secs. 1 and 12.
 40.00 Set temp. ¼ sec. cor.
 79.94 Intersect the E. bdy. of the Tp., 24 lks. S. of the cor.
 of secs. 1, 6, 7 and 12, which is a stone established
 by J. M. M. as described in book "A".
 Thence I run
 S. 89° 49' W. on a true line bet. secs. 1 and 12.
 Over rolling mountainous land, through scattering
 undergrowth.
 Asc. gradually along broken N. slope 50 ft. to
 20.90 Crest of spur, falls to N., desc. W. slope 65 ft. to
 23.10 Wash, 10 lks. wide, course NW., asc. E. slope 110 ft. to
 28.79 Crest of spur, falls to N., desc. NW. slope 55 ft. to
 36.30 Ravine, course NE., asc. E. slope 90 ft. to
 39.97 Impracticable to set an iron post at this point. Set a
 granite stone, 15 X 10 X 10 ins., 10 ins. in ground
 for ¼ sec. cor., marked ¼ on N. face; and raise a
 mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 Pits impracticable.
 From ¼ sec. cor. asc. E. slope 10 ft. to
 40.30 Crest of spur, falls to N., desc. NW. slope 150 ft. to
 48.10 Ravine, course NW., asc. NE. slope 65 ft. to
 63.10 Crest of spur, falls to N., desc. NW. slope 95 ft. to

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<p>Chains 68.50 71.80 77.70 79.94</p>	<p>Wash, 15 lks. wide, course N., asc. NE. slope 50 ft. to Crest of spur, falls to N., desc. NW. slope 60 ft. to Wash, 50 lks. wide, course NE., asc. SE. slope 35 ft. to The cor. of secs. 1, 2, 11 and 12. Land, rolling mountainous. Soil, rocky, 3rd. rate. Undergrowth, greasewood, ocatillo, palo verde, yucca and cacti. No timber. Feb. 2, 1916. D. J. W.</p>
<p>40.00 79.98 12.60 20.50 27.70 37.65 39.98 40.70 46.40 62.30 72.50 79.98</p>	<p>Feb. 5, 1916. A. S. At 8 h. 0 m., a.m., l.m.t., I set off 34° 35' N. on the lat. arc, 16° 09' S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 1, 2 11, and 12. Thence I run N. 0° 01' W. on a random line bet. secs. 1 and 2. Set temp. ¼ sec. cor. Intersect the N. bdy. of the Tp, 14 lks. E. of the cor. of secs. 1, 2, 35 and 36, which is a granite stone established by me as described in book "A". Thence I run S. 0° 07' E. on a true line bet. secs. 1 and 2. Over mountainous land, through scattering undergrowth. Desc. broken S. slope 110 ft. to Gulch, course E., asc. NW. slope 120 ft. to Spur, falls to NE. 10.00 chs. dist., desc. SE. slope 55 ft. to Draw, 1.50 chs. wide, drains NE., asc. NW. slope 150 ft. to Crest of spur, falls to NE., desc. S. slope 35 ft. to Impracticable to set an iron post at this point. Set a granite stone 24 X 12 X 8 ins., 16 ins. in ground, for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. From ¼ sec. cor. desc. S. slope 10 ft. to Head of draw, drains NE., asc. along broken E. slope 90 ft. to Crest of spur, falls to NE., desc. along E. slope 55 ft. to Wash, course NE., asc. NW. slope 160 ft. to Crest of spur, falls to NE., desc. SE. slope 65 ft. to The cor. of secs. 1, 2, 11 and 12. From this cor., Arrastre Wells bear N 70° E. 18.00 chs. dist. Land, rolling mountainous. Soil, rocky, 4 th. rate. Undergrowth, sage, ocatillo, palo verde, greasewood, yucca and cacti. No timber. Feb. 5, 1916.</p>
<p>.60 10.00 40.00</p>	<p>Jan. 22, 1916. At 8 h. 30 m., a.m., l.m.t., I set off 34° 30' 5" N. on the lat. arc, 19° 50' S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of the Tp., which is a stone established by J. M. M. as described in book "A". Thence I run N. 0° 01' W. bet. secs. 34 and 35. Over mountainous land, sharply broken by buttes and washes. Wash, 1.00 ch. wide, course SW. Wash, 60 lks. wide, 30 ft. deep, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for ¼ sec. cor., marked on brass cap 1916 on S. rim; ¼ in N., S35 in E. and S34 in W. half;</p>

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Chains

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

46.50 Wash, 10 lks. wide, course W., along W. slope to
 50.00 Point of spur, falls to W., desc. 40 ft. to
 51.70 Wash, course W., asc. steep S. slope 400 ft. to
 68.10 Rock cliff, bears E. and W. desc. along W. slope 60 ft. to
 70.35 Ravine, course W., continue to desc. NW. slope 115 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. secs. 26, 27, 34 and 35, marked on brass cap

- 1916 on S. rim;
- T14N R19W in N. half;
- S27 in NW.,
- S26 in NE.,
- S35 in SE. and
- S34 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Land, rolling mountainous.
 Soil, rocky, 4th. rate.
 Undergrowth, greasewood, ocatillo and cacti.
 No timber.

40.00 East on a random line bet. secs. 26 and 35.
 79.84 Set temp. ¼ sec. cor.
 Intersect the N. and S. line, at the true point for the cor. of secs. 25, 26, 35 and 36.
 Thence I run.
 West on a true line bet. secs. 26 and 35.
 Over mountainous land, sharply broken by deep washes.
 Asc. along S. slope 30 ft. to
 1.60 Crest of spur, falls to SW., desc. SW. slope 390 ft. to
 31.10 Gulch, 10 lks. wide, course SW., asc. SE. slope 70 ft. to
 35.30 Crest of spur, falls to SW., desc. NW. slope 40 ft. to
 39.92 Point for ¼ sec. cor falls on rock ledge. I return to
 38.92 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in ground, to solid rock, 18 ins. in mound of stone, for witness cor. ¼ sec. cor., marked on brass cap

- 1916 on S. rim;
- S26 in N.,
- S35 in S. and
- ¼ WC in W. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

From ¼ sec. cor continue to desc. 100 ft. to
 43.30 Wash, 10 lks. wide, course SW., asc. SE. slope 110 ft. to
 51.70 Crest of spur, falls to S., desc. W. slope 100 ft. to
 56.00 Head of gulch, course NW., asc. NE. slope 20 ft. to
 59.50 Crest of low spur, falls to N., desc. NW. slope 170 ft. to
 65.10 Gulch, 15 lks. wide, course SW., along S. slope to
 67.60 Ravine, 1.00 ch. wide, course SE., asc. SE. 115 ft. to
 76.10 Crest of ridge, bears N. and S., along N. slope to
 79.10 Crest of spur, falls to NW., desc. SW. slope 30 ft. to
 79.84 The cor. of secs. 26, 27, 34 and 35.

Land rough mountainous.
 Soil, rocky, 4th. rate.
 Undergrowth, ocatillo, mescal and cacti.
 No timber.

N. 0° 01' W. bet. secs. 26 and 27.
 Over mountainous land, through scattering undergrowth.
 Asc. SW. slope 10 ft. to
 .60 Crest of spur, falls to NW., desc. N. slope 150 ft. to
 8.70 Gulch, 25 lks. wide, course W. along W. slope to
 11.80 Crest of spur, falls to W., desc. N. slope 85 ft. to
 24.00 Wash, 25 lks. wide, course SW., asc. S. slope 130 ft. to
 36.80 Crest of spur, falls to W., desc. NW. slope 45 ft. to
 39.20 Head of gulch, course W. asc. S. slope to

Chains 40.00	<p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ in N., S26 in E. and S27 in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p> <p>From $\frac{1}{4}$ sec. cor. continue to asc, S. slope 118 ft. to Crest of spur, falls to W., desc. NW. slope 105 ft. to Gulch, 50 lks. wide, course SW., asc. S. slope 405 ft. to Crest of ridge, bears E. and W., desc. N. slope 250 ft. to Gulch, 50 lks. wide, course W., asc. S. slope 20 ft. to Crest of spur, falls to NW., desc. N. slope 40 ft. to</p> <p>Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. of secs. 22, 23, 26 and 27, marked on brass cap 1916 on S. rim; T14N R19W in N. half; S22 in NW., S23 in NE., S26 in SE. and S27 in SW. quadrant; and raise a mound of stone, 2 ft, base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p> <p>Land, rough mountainous. Soil, rocky, 4th. rate. Undergrowth, sage, greasewood and cacti. No timber.</p> <p style="text-align: right;">Jan. 22, 1916. A. S.</p>
43.80 48.40 64.50 75.40 78.50 80.00	<p>Jan. 28, 1916. D. J. W. East on a random line bet. secs. 23 and 26. Set temp. $\frac{1}{4}$ sec. cor. Intersect the N. and S. line, 23 lks. S. of the cor. of secs. 23, 24, 25 and 26. Thence I run S. $89^{\circ} 50'$ W. on a true line bet. secs. 23 and 26. Over mountainous land, through scattering undergrowth. Desc. W. slope 150 ft. to Gulch, course SW., asc. E. slope 260 ft. to Crest of spur, falls to S., desc. along SW. slope 524 ft. to Impracticable to set an iron post at this point. Set a granite stone, 14 X 8 X 4 ins., 9 ins. in ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.</p> <p>From $\frac{1}{4}$ sec. cor. continue to desc. 180 ft. to Enter wash, course W., thence down wash to Leave wash, course NW., asc. along N. slope 100 ft. to The cor. of secs. 22, 23, 26 and 27. Land, rough mountainous. Soil, rocky, 4th. rate. Undergrowth, mescal, oeatillo and cacti. No timber.</p> <p style="text-align: right;">Jan. 28, 1916.</p>
40.00 79.92	<p>Jan. 30, 1916. At 8 h. 30 m., a.m., l.m.t., I set off $34^{\circ} 32'$ N. on the lat. arc, $17^{\circ} 51.5'$ S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 22, 23, 26 and 27. Thence I run N. $0^{\circ} 01'$ W. bet. secs. 22 and 23. Over mountainous land, through scattering undergrowth. Desc. N. slope 50 ft. to Wash, course NW., Wash, course NW., asc. S. slope 145 ft. to Crest of spur, falls to W. 20.00 chs. dist., desc. N. slope 110 ft. to</p>
3.30 22.40 39.96	
53.55 64.45 79.92	
2.07 6.90 25.70	

Subdivision of T. 14 N. R. 19 W.

Chains
 34.10 Gulch, course W., asc. steep S. slope 90 ft. to
 40.00 Point for $\frac{1}{4}$ sec. cor. falls on rocky ledge, where same
 would be destroyed. I return to
 39.50 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in
 ground to solid rock, 10 ins. in mound of stone, for wit-
 ness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ WC in N.,
 S23 in E. and
 S22 in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 From $\frac{1}{4}$ sec. cor. asc. 270 ft. to
 47.30 Crest of spur, falls to W., desc. N. slope 315 ft. to
 59.30 Wash, 1.00 ch. wide, course SW., asc. S. slope 180 ft. to
 65.00 Crest of spur, falls to W., desc. NW. slope 50 ft. to
 75.00 Draw, 20 lks. wide, course SW., asc. S. slope 65 ft. to
 80.00 Impracticable to set an iron post at this point. Set an
 granite stone, 13 X 12 X 10 ins., 9 ins. in ground,
 for cor. of secs. 14, 15, 22 and 23, marked with 2
 notches on E. and 3 notches on S. edges; and raise a
 mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, rough mountainous.
 Soil, very shallow and rocky, 4th. rate.
 Undergrowth, sage, ocatillo, mescal and cacti.
 No timber.
 Jan. 30, 1916.

Jan. 31, 1916.
 N. $89^{\circ} 50'$ E. on a random line bet. secs. 14 and 23
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.20 Intersect the N. and S. line, 9 lks. N. of the cor. of
 secs. 13, 14, 23 and 24.
 Thence I run
 S. $89^{\circ} 54'$ W. on a true line bet. secs. 14 and 23.
 Over mountainous land, through scattering undergrowth.
 Desc. along broken S. slope 305 ft. to
 40.10 Impracticable to set an iron post at this point. Set a
 granite stone, 16 X 14 X 6 ins., 14 ins. in ground,
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound
 of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits
 impracticable.
 From $\frac{1}{4}$ sec. cor. asc. SE. slope 115 ft. to
 52.26 Crest of spur, falls to SW., desc. NW. slope 270 ft. to
 64.04 Draw, drains SW., asc. SE. slope 75 ft. to
 80.20 The cor. of secs. 14, 15, 22 and 23.
 Land, rolling mountainous.
 Soil, very rocky and shallow, 4th. rate.
 Undergrowth, sage, ocatillo, mescal and cacti.
 No timber.
 Jan. 31, 1916.

Jan. 30, 1916.
 N. $0^{\circ} 01'$ W. bet. secs. 14 and 15.
 Over mountainous land, through scattering undergrowth.
 Asc. S. slope 50 ft. to
 4.30 Crest of spur, falls to W., desc. NW. slope 45 ft. to
 22.30 Enter wash, course SW.
 27.25 Leave wash, course SW., asc. S. slope 294 ft. to
 40.00 Impracticable to set an iron post at this point. Set
 a granite stone, 30 X 12 X 12 ins., 15 ins. in ground,
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a
 mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 From $\frac{1}{4}$ sec. cor. asc. S. slope 240 ft. to
 49.30 Point of rocky spur, falls to SE., asc. S. slope 120 ft. to
 61.20 Crest of ridge, bears NE. and SW., desc. NW. slope 185 ft. to
 80.00 Impracticable to set an iron post at this point. Set a
 granite stone, 16 X 8 X 8 ins., 10 ins. in ground,

Chains

for cor. of secs. 10, 11, 14 and 15, marked with 2 notches on E. and 4 notches on S. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Land, rough mountainous.
Soil, very shallow and rocky, 4th. rate.
Undergrowth, sage, ocatillo and cacti.
No timber.

Jan. 30, 1916.

Feb. 2, 1916.

40.00
80.00

N. 89° 54' E. on a random line bet. secs. 11 and 14.
Set temp. ¼ sec. cor.
Intersect the N. and S. line, 16 lks. N. of the cor. of secs. 11, 12, 13 and 14.

Thence I run
N. 89° 59' W. on a true line bet. secs. 11 and 14.
Over rough mountainous land, through scattering undergrowth.

22.50
40.00

Desc. NW. slope 170 ft. to
Gulch, course SW., asc. E. slope 445 ft. to
Point for ¼ sec. cor. falls on ledge, where same would be destroyed.

40.15

Impracticable to set an iron post at this point. Set a granite stone, 15 X 6 X 5 ins., in mound of stone, for W. C. to ¼ sec. cor., marked ¼ WC on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

46.20

From ¼ sec. cor. continue to asc. E. slope 160 ft. to
Crest of spur, falls to S., desc. steep rocky, W. slope 940 ft. to

80.00

The cor. of secs. 10, 11, 14 and 15.

Land, extremely rough mountainous.
Soil, very shallow and rocky, 4th. rate.
Undergrowth, mesal, ocatillo and cacti.
No timber.

Feb. 2, 1916.

Feb. 3, 1916.

8.00
40.00

At 8 h. 30 m., a.m., l.m.t., I set off 34° 34' N. on the lat. arc, 16° 44' S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 10, 11, 14 and 15.

Thence I run
N. 0° 01' W. bet. secs. 10 and 11.
Over rolling mountainous land, broken by deep washes.

40.00

Asc. gradually over W. slope
Wash, 30 lks. wide, course W., asc. 370 ft. to
Rocky ravine, course SW. Point for ¼ sec. cor. falls in this ravine, where same would be destroyed.

40.80

Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 6 ins., 12 ins. in ground, for W. C. to ¼ sec. cor., marked ¼ WC on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

42.00

Base of slope bears E. and W., asc. steep S. slope, over cliffs and boulders, 1015 ft. to

63.11

Crest of main ridge, Chemehuevis Mtns., bears NW. and SE. desc. steep N. slope 435 ft. to

79.80

Gulch, course NE. asc. S. slope 20 ft. to

80.00

The point for sec. cor. falls on rock, 4 X 5 X 3 ft., in place; on which I

Cut a cross (X.) at the cor. point, mark 2 notches to E. and 5 notches to S. of same; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. of secs. 2, 3, 10 and 11.

Land, rough mountainous.
Soil, very shallow and rocky, 4th. rate.
Undergrowth, mesal, ocatillo and cacti.
No timber.

Chains

Feb. 3, 1916. D. J. W.

Feb. 6, 1916. A. S.

At 8 h. 0 m., a.m., l.m.t., I set off 34° 35' N. on the lat. arc, 15° 51' S. on the decl. arc, and determine meridian with the solar, at the cor. of secs. 2, 3, 10 and 11.

Thence I run

S. 89° 59' E. on a random line bet. secs. 2 and 11.

40.00

Set temp. 1/4 sec. cor.

79.94

Intersect the N. and S. line, 3 lks. S. of the cor. of secs. 1, 2, 11 and 12.

Thence I run

West on a true line bet. secs. 2 and 11.

Over mountainous land, through scattering undergrowth.

27.70

Asc. SE. slope 420 ft. to

32.50

Crest of spur, falls to NE., asc. along NW. slope 45 ft. to

39.97

Crest of spur, falls to N., desc. along N. slope 115 ft. to

Impracticable to set an iron post at this point. Set a granite stone, 18 X 10 X 6 ins., 5 ins. in ground to solid rock, 8 ins. in mound of stone, for 1/4 sec. cor., marked 1/4 on N. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

63.45

From 1/4 sec. cor. desc. along broken N. slope 100 ft. to

79.94

Gulch, course NE., asc. up gulch 205 ft. to

The cor. of secs. 2, 3, 10 and 11.

Land, rough mountainous.

Soil, very rocky and shallow, 4th. rate.

Undergrowth, mescal, ocatillo and cacti.

No timber.

Jan. 7, 1916.

N 0° 01' W. on a random line bet. secs. 2 and 3.

40.00

Set temp. 1/4 sec. cor.

79.70

Intersect the N. bdy. of the Tp., at the cor. of secs. 2, 3, 34 and 35, which is a stone established by me as described in book "A".

Thence I run

S. 0° 01' E. bet. secs. 2 and 3.

Over mountainous land, through scattering undergrowth.

10.00

Asc. NE. slope 340 ft. to

23.00

Crest of spur, falls to NW., asc. along W. slope 220 ft. to

35.70

Crest of spur, falls to NE., asc. NE. slope 270 ft. to

39.70

Crest of ridge, bears E. and W., desc. SW. slope 175 ft. to

Impracticable to set an iron post at this point. Set a limestone, 15 X 10 X 8 ins., 10 ins. in ground, for 1/4 sec. cor., marked 1/4 on W. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

43.00

From 1/4 sec. cor. continue to desc. SW. slope 70 ft. to

45.00

Draw, drains SE., asc. N. slope 20 ft. to

47.30

Crest of low spur, falls to E., desc. S. slope 50 ft. to

49.70

Draw, drains NE., asc. N. slope 85 ft. to

63.00

Crest of spur, falls to E., desc. S. slope 160 ft. to

70.30

Gulch, course E., asc. N. slope 275 ft. to

79.70

Crest of spur, falls to E., desc. S. slope 290 ft. to

The cor. of secs. 2, 3, 10 and 11.

Land, rough mountainous.

Soil, rocky, 4th. rate.

Undergrowth, sage, mescal, greasewood and cacti.

No timber.

Feb. 7, 1916.

A. S.

Jan. 22, 1916. D. J. W.

At 8 h. 30 m., a.m., l.m.t., I set off 34° 30' 15" N. on the lat. arc, 19° 50' S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp., which is a stone

Chains	established by J. M. M. as described in book "A". Thence I run N. 02° 02' W. bet. secs. 33 and 34. Over rolling land sharply broken by washes and buttes. 3.40 Enter wash, course SW. 10.20 Leave wash, course SW. 20.70 Wash, 50 lks. wide, course SW. 34.60 Wash, 40 lks. wide, course SW. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ in N., S34 in E. and S33 in W. half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. 43.00 Wash, 15 lks. wide, 15 ft. deep, course SW. 72.60 Wash, 50 lks. wide, course W. 79.60 Enter wash, course SW. 80.00 Point for cor. falls in wash. 80.70 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for W. C. to cor. of secs. 27, 28, 33 and 34, marked on brass cap 1916 on S. rim; T14N R19W in N. and WC in S. half; S28 in NW., S27 in NE., S34 in SE. and S33 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, very shallow and rocky, 4th. rate. Undergrowth, palo verde, ocatillo and cacti. No timber.
40.00	From true point for cor. of secs. 27, 28, 33 and 34, I run East on a random line bet, secs. 27 and 34. Set temp. $\frac{1}{4}$ sec. cor. D. J. W. Jan. 22, 1916. Jan. 21, 1916. A. S. Continue
80.02	East on a random line bet. secs. 27 and 34. Intersect the N. and S. line, 5 lks. S. of the cor. of secs. 26, 27, 34 and 35. Thence I run S. 89° 58' W. on a true line bet. secs. 27 and 34. Over mountainous land, broken by buttes and washes. Desc. SW. slope 170 ft. to 8.80 Wash, 10 lks. wide, course NW., asc. along N. slope 25 ft. to 11.20 Point of spur, falls to N., desc. W. slope 50 ft. to 12.50 Wash, 10 lks. wide, course SW., thence over rolling, broken land. 21.30 Pittsburg mine, unpatented, bears N. 32° W. about 12.00 chs. dist. 32.40 Wash, 15 lks. wide, 50 ft. deep, course SW. 38.60 Old wagon road, bears NE. and SW. 40.01 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; S27 in N., S34 in S. and $\frac{1}{4}$ in W. half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. 52.70 Enter wash, course SW. 57.60 Leave wash, course SW. 79.00 Enter wash, course SW. 80.02 The true point for the cor. of secs. 27, 28, 33 and 34. Land, rolling mountainous. Soil, rocky, 4th. rate. Undergrowth, palo verde, ocatillo and cacti.

Subdivision of T. 14 N. R. 19 W.

Chains

No timber.

From true cor. point I run
 N. 0° 02' W. bet. secs. 27 and 28.
 Over rolling mountainous land, through scattering undergrowth

.40 Leave wash, course SW.
 .70 Witness cor. to cor. of secs. 27, 28, 33 and 34.
 4.90 Wash, 1.00 ch. wide, 15 ft. deep, course SW.
 12.50 Wash, 3.00 chs. wide, course SW. Wagon road, along
 bottom of wash, bears NE. and SW.
 32.50 Wash, 3.00 chs. wide, course SW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{2}$ in N.,
 S27 in E. and
 S28 in W. half;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.

43.00 Wash, 20 lks. wide, course SW., asc. S. slope 230 ft. to
 73.00 Crest of spur, falls to W., desc. N. slope 80 ft. to
 76.60 Ravine, course SW., asc. S. slope 65 ft. to
 80.00 Point for cor. falls on rock ledge. I return to
 79.50 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
 ground, for W. c. to cor. of secs. 21, 22, 27 and 28,
 marked on brass cap
 1916 on S. rim;
 T14N. R19W WC in N. half;
 S21 in NW.,
 S22 in NE.,
 S27 in SE. and
 S28 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.

Land, rolling mountainous.
 Soil, rocky, 3rd. and 4th. rate.
 Undergrowth, palo verde, ocatillo and cacti.
 No timber.

D. J. W.

A. S.
 From true point for cor. of secs. 21, 22, 27 and 28, I run
 N. 89° 58' E. on a random line bet. secs. 22 and 27.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.95 Intersect the N. and S. line, 18 lks. S. of the cor. of secs.
 22, 23, 26 and 27.
 Thence I run
 S. 89° 50' W. on a true line bet. secs. 22 and 27.
 Over mountainous land, through scattering undergrowth.
 Along N. slope to

3.70 Crest of spur, falls to NW., desc. W. slope 150 ft. to
 16.40 Gulch, 40 lks. wide, course NW., asc. NE. slope 105 ft. to
 34.50 Crest of spur, falls to N., desc. along N. slope 40 ft. to
 39.97 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in
 ground to solid rock, 24 ins. in mound of stone, for
 $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 S22 in N.,
 S27 in S. and
 $\frac{1}{4}$ in W. half;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.

58.30 From $\frac{1}{4}$ sec. cor. desc. down ridge 105 ft. to
 Ridge, bears off to NW. Spur falls to SW., desc. W. slope
 185 ft. to

71.20 Wash, course NW., thence along N. slope to
 74.20 Crest of spur, falls to NW., desc. W. slope 40 ft. to
 79.95 The true point for the cor. of secs. 21, 22, 27 and 28.
 Land, rough mountainous.
 Soil, rocky, 4th. rate.

Subdivision of T. 14 N. R. 19 W.

14

Chains

Undergrowth, palo verde, ocatillo and cacti.
No timber.
Jan. 22, 1916. A. S.

Jan. 29, 1916. D. J. W.
At 8 h. 0 m., a.m., l.m.t., I set off 34° 32' N. on the lat.
arc, 18° 07' S. on the decl. arc, and determine a
meridian with the solar at the true point for the cor.
of secs. 21, 22, 27 and 28.

Thence I run
N. 0° 02' W. bet. secs. 21. and 22.
Over mountainous land, through scattering undergrowth.
Asc. S. slope 50 ft. to
1.20 Crest of spur, falls to W., desc. N. slope 50 ft. to
5.50 Wash, course W., asc. S. slope 40 ft. to
10.50 Crest of spur, falls to W., desc. N. slope 90 ft. to
24.00 Enter wash, course W.
29.30 Leave wash, course W.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in
ground, to solid rock, 18 ins. in mound of stone, for
 $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ in N.,
S22 in E. and
S21 in W. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor.
62.40 Wash, 50 lks. wide, course SW., asc. S. slope 110 ft. to
77.20 Crest of low spur, falls to W., desc. N. slope 20 ft. to
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
ground, for cor. of secs. 15, 16, 21 and 22, marked
on brass cap
1916 on S. rim;
T14N R19W in N. half;
S16 in NW.,
S15 in NE.,
S22 in SE. and
S21 in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor. Pits impracticable.
Land, rolling mountainous.
Soil, very shallow and rocky, 4th. rate.
Undergrowth, palo verde, ocatillo and cacti.
No timber.

40.00 N. 89° 50' E. on a random line bet. secs. 15 and 22.
Set temp. $\frac{1}{4}$ sec. cor.
Jan. 29, 1916.

79.94 Jan. 30, 1916. I continue
N. 89° 50' E. on a random line bet. secs. 15 and 22.
Intersect the N. and S. line, at the cor. of secs. 14, 15,
22 and 23.

Thence I run
S. 89° 50' W. on a true line bet. secs. 15 and 22.
Over mountainous land, through scattering undergrowth.
Asc. E. slope 50 ft. to
6.00 Crest of ridge, bears NE. and SW., desc. along N. slope
235 ft. to
34.00 Gulch, 1.00 ch. wide, course SW., asc. E. slope 90 ft. to
39.97 Point for $\frac{1}{4}$ sec. cor. falls on ledge.
40.38 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
ground, for W. C. to $\frac{1}{4}$ sed. cor., marked on brass cap
1916 on S. rim;
S15 in N.,
WC in E.,
S22 in S. and
 $\frac{1}{4}$ in W. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor. Pits impracticable.

Chains	From $\frac{1}{4}$ sec. cor. asc. E. slope 40 ft. to
48.00	Crest of ridge, bears NE. and SW., desc. W. slope 220 ft. to
57.80	Wash, 20 lks. wide, course SW., asc. E. slope 120 ft. to
68.00	Crest of spur, falls to SW., desc. NW. slope 160 ft. to
79.94	The cor. of secs. 15, 16, 21 and 22.
	Land, rolling mountainous.
	Soil, very shallow and rocky, 4th rate.
	Undergrowth, palo verde, ocatillo and cacti.
	No timber.
	Jan. 30, 1916. D.J.W.
	Feb. 2, 1916. A. S.
	At 8 h. 0 m., a.m., l.m.t., I set off $34^{\circ} 33'$ N. on the lat.
	arc, $17^{\circ} 01'$ S., on the decl. arc, and determine a
	meridian with the solar, at the cor. of secs. 15, 16,
	21 and 22.
	Thence I run
	N. $0^{\circ} 2'$ W., bet. secs. 15 and 16.
	Over mountainous land, broken by buttes and washes.
	Asc. S. slope 105 ft. to
6.60	Crest of ridge, bears NE. and SW., desc. NW. slope 75 ft. to
11.55	Wash, course SW., asc. SE. slope 75 ft. to
19.45	Crest of low hill, bears NE. and SW., desc. N. slope
	75 ft. to
25.00	Wash, 3.00 chs. wide, course SW., asc. S. slope 135 ft. to
38.15	Crest of spur, falls to W., desc. N. slope 10 ft. to
40.00	Impracticable to set an iron post at this point. Set a
	granite stone, 18 x 12 x 10 ins., 13 ins. in ground,
	for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound
	of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits
	impracticable.
	From $\frac{1}{4}$ sec. cor. desc. N. slope 75 ft. to
44.85	Head of wash, course SW., asc. SW. slope 100 ft. to
49.45	Crest of spur, falls to SW., 10.00 chs. dist., desc. NW.
	slope 130 ft. to
57.85	Head of wash, course SW., asc. steep SW. slope 443 ft. to
80.00	Point for sec. cor. falls on rocky ledge. I return to
79.70	Impracticable to set an iron post at this point. Set a
	granite stone 16 x 10 x 10 ins., 12 ins. in a mound
	of stone, for witness corner to cor. of secs. 9, 10, 15
	and 16, marked with 3 notches on E. and 4 notches on S.
	edges, and W C on NE. face; and raise a mound of stone,
	2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, rough mountainous.
	Soil, very shallow and rocky, 4th rate.
	Undergrowth, paloverde, ocatillo and cacti.
	No timber.
	From true point for sec. cor., I run
	N. $89^{\circ} 50'$ E., on a random line bet. secs. 10 and 15.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line, at the cor. of secs. 10, 11,
	14 and 15.
	Thence I run
	S. $89^{\circ} 50'$ W., on a true line bet. secs. 10 and 15.
	Over mountainous land, through scattering undergrowth.
	Desc. broken W. slope 70 ft. to
21.50	Wash, 1.50 chs. wide, 30 ft. deep, course SW., asc.
	broken SE. slope 190 ft. to
25.50	Crest of spur, falls to S. 10.00 chs. dist., desc. W.
	slope 135 ft. to
29.70	Wash, course S., asc. E. slope 160 ft. to
36.60	Crest of spur, falls to S. 20.00 chs. dist., desc. W.
	slope 130 ft. to
40.00	Impracticable to set an iron post at this point. Set a
	granite stone, 18 x 10 x 12 ins., 15 ins. in ground,
	for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a
	mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
	From $\frac{1}{4}$ sec. cor. desc. W. slope 50 ft. to
44.70	Wash, course S., asc. E. slope 285 ft. to

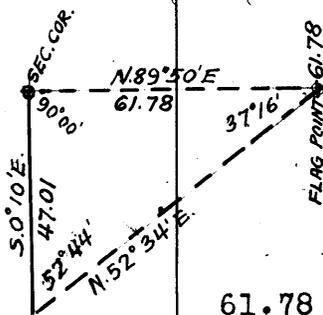
Chains
63.40 Crest of ridge, bears N. and S., desc. SW. slope 210 ft. to
80.00 The true point for cor. of secs. 9, 10, 15 and 16.
Land, rough mountainous.
Soil, very shallow and rocky, 4th rate.
Undergrowth, palo verde, mescal and cacti.
No timber. Feb. 2, 1916.

Feb. 4, 1916.
At 9 h. 0 m., a.m., l.m.t., I set off 34° 34' N. on the
lat. arc, 16° 26' 5" S. on the decl. arc; and determine
a meridian with the solar, at the true point for the cor.
of secs. 9, 10, 15 and 16.
Thence I run
N. 0° 02' W. bet. secs. 9 and 10.
Over mountainous land, through scattering undergrowth.
Asc. SW. slope 15 ft. to
.75 Crest of spur, falls to W., desc. N. slope 200 ft. to
11.30 Gulch, 20 lks. wide, course SW., asc. S. slope 170 ft. to
15.60 Crest of spur, falls to W. 10.00 chs. dist., desc. N.
slope 50 ft. to
21.40 Narrow canon, course W., asc. S. slope 335 ft. to
32.30 Crest of ridge, bears E. and W., desc. NW. slope 235 ft. to
40.00 Point for 1/4 sec. cor. falls on rocky ledge.
41.00 Impracticable to set an iron post at this point. Set a
granite stone, 20 x 12 x 6 ins., in mound of stone,
for witness cor. to 1/4 sec. cor., marked 1/4 on W. and WC
on E. face; and raise a mound of stone, 2 ft. base, 1 1/2
ft. high, W. of cor.
From 1/4 sec. cor. continue to desc. NW. slope 50 ft. to
46.00 Gulch, 10 lks. wide, course W., asc. S. slope 95 ft. to
49.95 Crest of spur, falls to W. 10.00 chs. dist., desc. N.
slope 170 ft. to
54.00 Gulch, 50 lks. wide, course W., asc. S. slope 290 ft. to
63.85 Crest of spur, falls to W., desc. N. slope 170 ft. to
75.40 Wash, course SW., asc. SE. slope 55 ft. to
80.00 Impracticable to set an iron post at this point. Set a
granite stone, 22 x 10 x 9 ins., 16 ins. in ground,
for cor. of secs. 3, 4, 9 and 10, marked with 3 notches
on E. and 5 notches on S. edge, and raise a mound of
stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits im-
practicable.
Land, rough mountainous.
Soil, very shallow and rocky, 4th rate.
Undergrowth, palo verde, ocatillo and cacti.
No timber. Feb. 4, 1916.

Feb. 6, 1916. On account of rugged cliffs and rock slides
it is impracticable to chain measurement on random line
E. from cor. of secs. 3, 4, 9 and 10, therefore I ob-
tain measurement of random line bet. secs. 3 and 10, by
triangulation as follows:

Set a flag on top of ridge N. 89° 50' E., from cor. of
secs. 3, 4, 9 and 10, and from same cor. measure a
base S. 0° 10' E., 47.01 chs. to a point from which
the flag bears N. 52° 34' E., the included angle being
52° 44'. From flag the S. end of base brs. S. 52° 34'
W.; the included angle being 37° 16'. Therefore the
dist., from cor. of secs. 3, 4, 9 and 10 to flag is
Cotang. 37° 16' X base of
1.31427 X 47.01 = 61.78 chs.

61.78 Flag point, on top of ridge. Thence continue measurement
N. 89° 50' E., on random line bet. secs. 3 and 10
79.97 Intersect N. and S. line 34 lks. N. of cor. of secs. 2, 3,
10 and 11.
Thence I run
N. 89° 55' W., on a true line, bet. secs. 3 and 10.
Over mountainous land, through scattering undergrowth.
Ascend E. slope 450 ft. to
18.19 Crest of main ridge of Chemehuevis Mts., bears NW. and SE.
Desc. SW. slope 15 ft. to
19.04 Impracticable to chain measurement farther W. on account



Subdivision of T. 14 N., R. 19 W.

Chains of cliffs and rock slides on SW. slope of this ridge. Point for $\frac{1}{4}$ sec. cor. is inaccessible, therefore at this point I establish a witness point as follows: Set a malpais stone 14 x 12 x 8 ins., 10 ins. in ground marked

W P. on N. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of point.

Impracticable to set iron post or dig pits.

Thence by triangulation measurement as described above.

79.97 The cor. of secs. 3, 4, 9 and 10, 1650 ft. below crest of ridge at 18.19 ch. point.
Land, extremely rough and mountainous.
Soil, very shallow, 4th rate.
Undergrowth, sage, ocatillo and cacti.
No timber. Feb. 6, 1916.

Feb. 8, 1916. N. $0^{\circ} 02'$ W. on a random line bet. secs. 3 & 4.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.61 Intersect the N. bdy. of the Tp., 10 lks. W. of cor. of secs. 3, 4, 33 and 34, which is a stone established by me as described in book "A".

Thence I run

S. $0^{\circ} 02'$ W. on a true line bet. secs. 3 and 4.
Over mountainous land, through scattering undergrowth.
Asc. along W. slope 50 ft. to

8.50 Main ridge, Chemehuevis Mtns., bears NW. and SE., desc. along SW. slope 810 ft. to

33.20 Gulch, 40 lks. wide, course SW., asc. NW. slope 50 ft. to

38.10 Crest of spur, falls to SW., desc. SE. slope 10 ft. to

39.10 Impracticable to set an iron post at this point. Set a granite stone, 18 x 10 x 8 ins., 12 ins. in ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

From $\frac{1}{4}$ sec. cor. continue to desc. SE. slope 135 ft. to

42.90 Gulch, 30 lks. wide, course SW., along W. slope to

60.40 Crest of spur, falls to SW., desc. SE. slope 70 ft. to

67.50 Gulch, 30 lks. wide, course SW., asc. along W. slope 90 ft. to

79.61 The cor. of secs. 3, 4, 9 and 10.
Land, rough mountainous.
Soil, rocky, 4th rate.
Undergrowth, mescal, ocatillo and cacti.
No timber. A. S. Feb. 8, 1916.

Jan. 21, 1916. D. J. W. At 10 h. 0 m., a.m., l.m.t., I set off $34^{\circ} 30' 5''$ N. on the lat. arc, $19^{\circ} 03' 5''$ S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., which is a stone, established by J. M. M. as described in book "A".

Thence I run

N. $0^{\circ} 02'$ W. bet. secs. 32 and 33.
Over rolling mountainous land, broken by buttes and washes; through scattering undergrowth.
Asc. S. slope 200 ft. to

16.20 Crest of small butte, desc. N. slope 165 ft. to

28.90 Enter wash, course SW.

29.50 Wagon road, bears NE. and SW.

33.90 Leave wash, course SW., thence over rolling land.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ in N.,
S 33 in E., and
S 32 in W. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

62.00 Wash, 15 lks. wide, 40 ft. deep, course SW.

74.90 Wash, 60 lks. wide, 50 ft. deep, course SW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for cor. of secs. 28, 29, 32 and 33, marked on brass cap

18

Subdivision of T. 14 N., R. 19 W.

Chains 1916 on S. rim;
 T 14 N R 19 W in N. half;
 S 29 in NW.,
 S 28 in NE.,
 S 33 in SE. and
 S 32 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Land, rolling mountainous.
 Soil, rocky, 4th rate.
 Undergrowth, greasewood, palo verde, ocatillo, sage and
 cacti.
 No timber. Jan. 21, 1916.

Jan. 22, 1916.
 East on a random line bet. secs. 28 and 33.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.97 Intersect the N. and S. line, at the true point for the
 cor. of secs. 27, 28, 33 and 34.
 Thence I run
 West on a true line bet. secs. 28 and 33.
 Over rolling land, broken by washes.
 .50 Leave wash, course SW.
 5.25 Wash, 60 lks. wide, 50 ft. deep, course SW.
 18.90 Enter wash, course SW.
 23.00 Wagon road, bears NE. and SW.
 23.60 Leave wash, course SW., asc. E. slope 30 ft. to
 29.10 Crest of small knoll, desc. W. slope 35 ft. to
 37.40 Enter wash, course SW.
 39.98 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 1916 on S. rim;
 S 28 in N.,
 S 33 in S., and
 $\frac{1}{4}$ in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor. Pits impracticable.
 41.50 Leave wash, course SW., asc. E. slope 25 ft. to
 42.50 Crest of low spur, falls to S. 2.00 chs., desc. W. slope
 25 ft. to
 47.10 Wash, 50 lks. wide, course S.
 59.10 Wash, 15 lks. wide, 30 ft. deep, course SW.
 74.30 Wash, 15 lks. wide, course SW.
 79.97 The cor. of secs. 28, 29, 32 and 33.
 Land, rolling.
 Soil, sandy gravel, 4th rate.
 Undergrowth, ocatillo, palo verde and cacti.
 No timber.
 Jan. 22, 1916. At this cor. I set off $19^{\circ} 49'$ S. on the
 decl. arc, and at apparent noon I observe the sun on
 the meridian. The resulting lat. is $34^{\circ} 31' 5''$ N.

N. $0^{\circ} 02'$ W. bet. secs. 28 and 29.
 Over rolling land, through scattering undergrowth.
 Asc. SE. slope 100 ft. to
 20.00 Crest of low flat topped hill, bears NE. and SW., desc.
 50 ft. to
 34.40 Wash, 15 lks. wide, course SW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ in N.,
 S 28 in E., and
 S 29 in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 45.00 Wash, 30 lks. wide, course SW.
 49.80 Wash, 30 lks. wide, course SW., asc. S. slope 35 ft. to

Chains
 52.70 Crest of low hill, bears NE. and SW., desc. NW. slope
 50 ft. to
 64.70 Enter wash, course SW.
 69.80 Leave wash, course SW.
 74.30 Wash, 1.00 ch. wide, 30 ft. deep, course SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in
 ground to solid rock, 6 ins. in mound of stone, for
 cor. of secs. 20, 21, 28 and 29, marked on brass cap
 1916 on S. rim;
 T14N R19W. in N. half;
 S20 in NW.,
 S21 in NE.,
 S28 in SE. and
 S29 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Pits impracticable.
 Land, rolling.
 Soil, sandy gravel, 4th. rate.
 Undergrowth, ocatillo, palo verde and cacti.
 No timber.

40.00 East on a random line bet. secs. 21 and 28.
 Set temp. ¼ sec. cor.

79.92 East on a random line bet. secs. 21 and 28.
 Intersect the N. and S. line, 9 lks. N. of the true point
 for the cor. of secs. 21, 22, 27 and 28

Thence I run
 N. 89° 56' W. on a true line bet. secs. 21 and 28.
 Over mountainous land, through scattering undergrowth.
 Asc. SE. slope 20 ft. to
 1.70 Crest of spur, falls to SW., desc. W. slope 140 ft. to
 15.00 Wash, course SW., thence over rolling land.
 35.00 Enter wash, course SW.
 39.96 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 S21 in N.,
 S28 in S. and
 ¼ in W. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Pits impracticable.

49.90 Leave wash, course SW., asc. E. slope 30 ft. to
 52.90 Low hill, bears NE. and SW., desc. W. slope 25 ft. to
 65.00 Wash, 30 lks. wide, course SW.
 79.92 The cor. of secs. 20, 21, 28 and 29.
 Land, E. 15.00^{chs.} mountainous; W. 65.00 chs., rolling.
 Soil, rocky, 4th. rate.
 Undergrowth, palo verde, ocatillo and cacti.
 No timber.

Jan. 22, 1916.

Jan. 24, 1916.
 N. 0° 02' W. bet. secs. 20 and 21.
 Over rolling land, through scattering undergrowth.
 Asc. S. slope 25 ft. to
 1.00 Low hill, bears E. and W., desc. N. slope 40 ft. to
 7.60 Wash, course SW., asc. S. slope 35 ft. to
 12.30 Low hill, bears E. and W., desc. N. slope 70 ft. to
 21.10 Wash, 60 lks. wide, course W.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼ in N.,
 S21 in E. and
 S20 in W. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,

Chains	W. of cor. Pits impracticable.
53.65	Enter wash, course SW.
60.10	Leave wash, course SW.
62.30	Wash, 50 ft. deep, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. of secs. 16, 17, 20 and 21, marked on brass cap 1916 on S. rim; T14N R19W. in N. half; S17 in NW., S16 in NE., S21 in SE. and S20 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, rolling. Soil, sandy gravel, 4th. rate. Undergrowth, ocatillo, palo verde and cacti. No timber.
40.00	S. 89° 56' E. on a random line bet. secs. 16 and 21.
79.90	Set temp. ¼ sec. cor. Intersect the N. and S. line, 18 lks. S. of the cor. of secs. 15, 16, 21 and 22. Thence I run S. 89° 56' W. on a true line bet. secs. 16 and 21. Over rolling mountainous land, sharply broken by buttes and washes; through scattering undergrowth. Desc. W. slope 50 ft. to 2.50 Wash, 20 lks. wide, course SW., asc. E. slope 70 ft. to 11.00 Crest of spur, falls to SW., desc. gradually over W. slope 90 ft. to 39.95 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for ¼ sec. cor., marked on brass cap 1916 on S. rim; S16 in N., S21 in S. and ¼ in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. From ¼ sec. cor. desc. 80 ft. to 53.30 Wash, 2.00 chs. wide, course SW., thence over rolling land. 79.90 The cor. of secs. 16, 17, 20 and 21. Land, rolling mountainous. Soil, very shallow and rocky, 4 th. rate. Undergrowth, palo verde, ocatillo and cacti. No timber.
	N. 0° 02' W. bet. secs. 16 and 17. Over rolling land, sharply broken by deep washes; through scattering undergrowth. 3.00 Wash, 20 lks. wide, 45 ft. deep, course W. 11.00 Wash, 40 ft. deep, course W. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for ¼ sec. cor., marked on brass cap 1916 on S. rim; ¼ in N., S16 in E. and S17 in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. 46.00 Wash, 40 ft. deep, course W. 70.00 Wash, 55 ft. deep, course SW. 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. of secs. 8, 9, 16 and 17, marked on brass cap 1916 on S. rim;

Chains

T14N R19W in N. half;
 S8 in NW.,
 S9 in NE.,
 S16 in SE. and
 S17 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Pits impracticable.
 Land, rolling.
 Soil, sandy gravel, 4th. rate.
 Undergrowth, palo verde, ocatillo and cacti.
 No timber

D. J. W. Jan. 24, 1916.

Feb. 4, 1916. A. S.

40.00
 79.98

 29.50
 35.50
 39.99
 39.60

 48.80
 54.85
 66.40
 76.10
 79.98

N. 89° 56' E. on a random line bet. secs. 9 and 16.
 Set temp. ¼ sec. cor.
 Intersect the N. and S. line, 18 lks. N. of the true
 point for cor. of secs. 9, 10, 15 and 16.
 Thence I run
 N. 89° 56' W. on a true line bet. secs. 9 and 16.
 Over mountainous land, through scattering undergrowth.
 Desc. along S. slope 485 ft. to
 Gulch, 2.00 chs. wide, course SW., asc. E. slope 40 ft. to
 Crest of low ridge, bears NE. and SW., desc. W. slope
 40 ft. to
 Point for ¼ sec. cor. falls on rock ledge. I return to
 Impracticable to set an iron post at this point. Set a
 granite stone, 18 X 12 X 8 ins., in a mound of
 stone, for W. C. to ¼ sec. cor., marked ¼ on N.
 and WC on E. face; and raise a mound of stone, 2 ft.
 base, 1½ ft. high, N. of cor.
 From ¼ sec. cor. desc. W. slope 20 ft. to
 Wash, 2.00 chs. wide, course SW., asc. SE. slope 80 ft. to
 Crest of low ridge, bears NE. and SW., desc. broken
 NW. slope 125 ft. to
 Enter wash, course S. 80° W., desc. down wash 40 ft. to
 Leave bed of wash, course NW., along N. slope to
 The cor. of secs. 8, 9, 16 and 17.
 Land, rough mountainous.
 Soil, veryshallow and rocky, 4th. rate.
 Undergrowth, mescal, ocatillo and cacti.
 No timber.

Feb. 4, 1916. A. S.

Feb. 8, 1916. D. J. W.

1.00
 6.00
 13.50
 40.00

 50.00
 53.65
 55.90
 66.45
 71.80

At 8h. 30m., a.m., 1.m.t., I set off 34° 34' N. on the
 lat. arc, 15° 13.5 S. on the decl. arc, and determine
 a meridian with the solar at the cor. of secs. 8, 9,
 16 and 17.
 Thence I run
 N. 0° 02' W. bet. secs. 8 and 9.
 Over rolling mountainous land, sharply broken by deep
 washes; through scattering undergrowth.
 Wash, 30 lks. wide, 20 ft. deep, course W.
 Enter wash, course SW.
 Leave wash, course SW.
 Impracticable to set an iron post at this point. Set a
 granite stone, 16 X 10 X 6 ins., 11 ins. in the
 ground, for ¼ sec. cor., marked ¼ on W. face; and
 raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Pits impracticable.
 Wash, 3.00 chs. wide, 30 ft. deep, course W., asc. S.
 slope 25 ft. to
 Crest of low hill, bears E. and W., desc. N. slope 25 ft. to
 Wash, course W., asc. S. slope 50 ft. to
 Crest of spur, falls to W. 8.00 chs. dist., desc. N. slope
 40 ft. to
 Wash, 40 lks. wide, course W.

Subdivision of T. 14 N. R. 19 W.

22.

22

Chains 80.00	<p>Impracticable to set an iron post at this point. Set a granite stone, 16 X 12 X 10 ins., 14 ins. in the ground, for the cor. of secs. 4, 5, 8 and 9, marked with 4 notches on E. and 5 notches on S. edge; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.</p> <p>Land, rolling. Soil, rocky gravel, 4th. rate. Undergrowth, palo verde, ocatillo and cacti, No timber.</p>
40.00	<p>S. 89° 56' E. on a random line bet. secs. 4 and 9. Set temp. ¼ sec. cor. D. J. W.</p>
79.78	<p>A. S. Continue S. 89° 56' E. on a random line bet. secs. 4 and 9. Intersect the N. and S. line, 16 lks. S. of the cor. of secs. 3, 4, 9 and 10. Thence I run S. 89° 57' W. on a true line bet. secs. 4 and 9. Over mountainous land, through scattering undergrowth. Along SW. slope to Wash, 50 lks. wide, 20 ft. deep, course SW., asc. E. slope 40 ft. to</p>
8.60	
12.10	Crest of spur, falls to SW., desc. W. slope 45 ft. to
14.40	Wash, course SW., along broken S. slope to
24.00	Crest of spur, falls to S., asc. along S. slope 70 ft. to
38.40	Crest of spur, falls to SW., desc. W. slope 40 ft. to
39.89	<p>Impracticable to set an iron post at this point. Set a granite stone, 18 X 8 X 8 ins., 10 ins. in ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.</p>
50.40	From ¼ sec. cor. desc. W. slope 315 ft. to
55.50	Ravine, course NW., asc. NE. slope 30 ft. to
76.00	<p>Crest of spur, falls to N., desc. along N. slope 150 ft. to Crest of spur, falls to NW., desc. abruptly over W. slope, 135 ft. to</p>
79.78	<p>The cor. of secs. 4, 5, 8 and 9. Land, rough mountainous. Soil, very shallow and rocky, 4th rate. Undergrowth, mes- cal, ocatillo and cacti. No timber. Feb. 8, 1916.</p>
	<p>Feb. 9, 1916. At 8 h. 0 m., a.m., 1.m.t., I set off 34° 35' N. on the lat. arc, 14° 54.5' S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 4, 5, 8 and 9. Thence I run N. 0° 02' W. on a random line bet. secs. 4 and 5. Set temp. ¼ sec. cor.</p>
40.00	
79.70	<p>Intersect the N. bdy. of the Tp., 30 lks. E. of the cor. of secs. 4, 5, 32 and 33, which is a granite stone, established by D. J. W. as described in book "A". Thence I run S. 0° 15' E. on a true line bet. secs. 4 and 5. Over mountainous land, through scattering undergrowth.. Asc. N. slope 40 ft. to</p>
1.00	Crest of spur, falls to SW., desc. SE. slope 300 ft. to
7.60	Draw, 10 lks. wide, drains SW., asc. NW. slope 20 ft. to
14.40	Crest of spur, falls to SW., desc. SE. slope 40 ft. to
19.55	Wash, 3.00 chs. wide, course SW., asc. NW. slope 270 ft. to
31.20	Crest of spur, falls to SW., desc. over broken W. slope 75 ft. to
39.40	Crest of spur, falls to SW.
39.70	Point for ¼ sec. cor. falls on rock ledge. I return to
39.52	<p>Impracticable to set an iron post at this point. Set a granite stone, 22 X 16 X 10 ins., 14 ins. in ground for W. C. to ¼ sec. cor., marked ¼ WC on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.</p>

Chains

49.00 From $\frac{1}{4}$ sec. cor. desc. SE. slope 260 ft. to Wash, 15 lks. wide, course SW., asc. broken W. slope 120 ft. to

59.00 Crest of spur, falls to SW., desc. SE. slope 145 ft. to

62.70 Wash, course SW., asc. N. slope 115 ft. to

66.20 Crest of spur, falls to W., desc. S. slope 180 ft. to

71.70 Enter wash, course SW.

77.60 Leave wash, course SW.

79.70 The cor. of secs. 4, 5, 8 and 9.
Land, rough mountainous.
Soil, very shallow and rocky, 4th. rate.
Undergrowth, mescal, ocatillo and cacti.
No timber.

Feb. 9, 1916. A. S.

Jan. 20, 1916. D. J. W.
At 10 h. 30 m., a.m., l.m.t., I set off $34^{\circ} 30' 5''$ N. on the lat. arc, $20^{\circ} 16'$ S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp., which is a stone established by J. M. M. as described in book "A".
Thence I run
N. $0^{\circ} 03'$ W. bet. secs. 31 and 32.
Over rolling land, cut by deep washes, through scattering undergrowth.

10.50 Wash, 60 lks. wide, 20 ft. deep, course SW.

26.80 Wash, 15 lks. wide, 15 ft. deep, course SW., asc. S. slope 40 ft. to

37.20 Low hill, bears NE. and SW., desc. N. slope 30 ft. to

39.60 Wash, 20 lks. wide, course SW., asc. S. slope 15 ft. to

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ in N.,
S32 in E. and
S31 in W. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

41.95 From $\frac{1}{4}$ sec. cor. asc. S. slope 35 ft. to

44.95 Low hill, bears NE. and SW., desc. NW. slope 40 ft. to

49.70 Wash, 10 lks. wide, course SW., asc. S. slope 40 ft. to

52.40 Low hill, bears NE. and SW., desc. N. slope 25 ft. to

57.80 Wash, 1.00 ch. wide, course SW., asc. S. slope 30 ft. to

65.30 Low hill, bears NE. and SW., desc. N. slope 20 ft. to

78.30 Wash, 15 lks. wide, course SW., asc. S. slope 50 ft. to

80.00 Low hill, bears NE. and SW., desc. NW. slope 30 ft. to
Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. of secs. 29, 30, 31 and 32, marked on brass cap
1916 on S. rim;
T14N R19W in N. half;
S30 in NW.,
S29 in NE.,
S32 in SE. and
S31 in SW. quadrant;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, rolling, cut by deep washes.
Soil, sandy gravel, 4th. rate.
Undergrowth, palo verde, ocatillo and cacti.
No timber.

Jan. 20, 1916.

Jan. 21, 1916.
East on a random line bet. secs. 29 and 32.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect the N. and S. line, 3 lks. N. of the cor. of secs. 28, 29, 32 and 33.

40.00

80.14

Chains	<p>Thence I run N. 89° 59' W. on a true line bet secs. 29 and 32. Over rolling land, cut by deep washes, through scattering undergrowth. Asc. E. slope 30 ft. to Low hill, bears NE. and SW.; desc. SW. slope 50 ft. to Wash, 20 lks. wide, course S., asc. E. slope 60 ft. to Low hill, bears NE. and SW.; desc. NW. slope 60 ft. to Wash, 20 lks. wide, course SW., asc. E. slope 50 ft. to Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; S29 in N., S32 in S. and $\frac{1}{4}$ in W. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. From $\frac{1}{4}$ sec. cor. asc. SE. slope 40 ft. to Crest of knoll, desc. W. slope 40 ft. to The cor of secs. 29, 30, 31 and 32. Land, rolling. Soil, rocky, 4th. rate. Undergrowth, palo verde, ocatillo, greasewood and cacti. No timber. Jan. 21, 1916. At this cor. I set off 20° 02' 5 S. on the decl. arc, and at apparent noon, I observe the sun on the meridian. The resulting lat. is 34° 31' 5 N.</p>
5.10 18.45 25.10 31.40 40.07	
78.00 80.14	<p>Jan. 20, 1916. West on a random line bet. secs. 30 and 31. Set temp. $\frac{1}{4}$ sec. cor. Intersect the W. bdy. of the Tp., 18 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is an iron post established by Otis Ross, as described in book "A". Thence I run N. 89° 52' E. on a true line bet. secs. 30 and 31. Over rolling land, through scattering undergrowth. Wash, 50 lks. wide, course SW. Enter wash, 9 chs. wide, from E. Leave wash, from NE. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground; for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; S30 in N., S31 in S. and $\frac{1}{4}$ in W. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Wash, 1.00 ch. wide, 10 ft. deep, course SW. Wash, 15 lks. wide, course SW., asc. W. slope 65 ft. to Low hill, bears NE. and SW., desc. SE. slope 25 ft. to Wash, 20 lks. wide, course S. 70° W., asc. W. slope 50 ft. to The cor. of secs. 29, 30; 31 and 32. Land, rolling, cut by broad washes. Soil, sandy gravel, 4th. rate. Undergrowth, greasewood, palo verde and cacti. No timber.</p>
40.00 79.55	
7.60 14.25 37.75 39.55	
51.35 56.65 64.70 77.05 79.55	
3.55 8.00 18.75 31.25 38.05 40.00	<p>N. 0° 03' W. bet. secs. 29 and 30. Over rolling land. Desc. NW. slope 55 ft. to Wash, 20 lks. wide, course SW., asc. S. slope 90 ft. to Low hill, bears NE. and SW., desc. NW., slope 30 ft. to Wash, 2.00 chs. wide, course SW. Enter wash, course SW. Leave wash, course SW., asc. S. slope 25 ft. to Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in</p>

Subdivision of T. 14 N. R. 19 W.

Chains ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ in N.,
 S29 in E. and
 S30 in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 From $\frac{1}{4}$ sec. cor. asc. S. slope 20 ft. to
 43.00 Low hill, bears E. and W., desc. abruptly 30 ft. to
 44.00 Enter wash, course SW.
 56.35 Leave wash, course S.
 68.15 Wash, 60 lks. wide, course W.
 71.95 Enter wash, course SW.
 75.45 Leave wash, course SW.
 75.85 Old wagon road, bears NE. and SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
 ground, for cor. of secs. 19, 20, 29 and 30, marked
 on brass cap
 1916 on S. rim;
 T14N R19W in N. half;
 S19 in NW.,
 S20 in NE.,
 S29 in SE. and
 S30 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Land, rolling, cut by deep washes.
 Soil, sandy gravel, 4th. rate.
 Undergrowth, palo verde, ocatillo, greasewood and cacti.
 No timber.

40.00 S. $89^{\circ} 59'$ E. on a random line bet. secs. 20 and 29.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.05 Intersect the N. and S. line, 5 lks. S. of the cor. of
 secs. 20, 21, 28 and 29.
 Thence I run
 S. $89^{\circ} 59'$ W. on a true line bet. secs. 20 and 29.
 Over rolling mountainous land, sharply broken by
 buttes and washes; through scattering undergrowth.
 Along S. slope to
 3.15 Crest of spur, falls to SW., desc. W. slope 65 ft. to
 13.25 Wash, 25 lks. wide, course SW., asc. E. slope 85 ft. to
 18.20 Crest of low ridge, bears NE. and SW., desc W. slope
 100 ft. to
 28.50 Wash, 15 lks. wide, course SW., asc. SE. slope 85 ft. to
 35.40 Crest of rocky spur, falls to S., along S. slope to
 40.02 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in
 ground to solid rock, 14 ins. in a mound of stone,
 for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 S20 in N.,
 S29 in S. and
 $\frac{1}{4}$ in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor. Pits impracticable.
 From $\frac{1}{4}$ sec. cor., desc. SW. slope 75 ft. to
 46.05 Ravine, course S., asc. E. slope 80 ft. to
 49.30 Crest of spur, falls to S., desc. W. slope 180 ft. to
 57.65 Ravine, course S., asc. SE. slope 80 ft. to
 59.70 Crest of spur, falls to S., desc. SW. slope 190 ft. to
 71.80 Wash, 60 lks. wide, course SW. Old wagon road, bears NE.
 and SW. along bottom of wash.
 80.05 The cor. of secs. 19, 20, 29 and 30.
 Land rolling mountainous.
 Soil, very rocky and shallow, 4th. rate.
 Undergrowth, palo verde, ocatillo and cacti.
 No timber.

26

Subdivision of T. 14 N. R. 19 W.

26.

Chains

40.00 S. $89^{\circ} 52'$ W. on a random line, bet. secs. 19 and 30.
 79.55 Set temp $\frac{1}{4}$ sec. cor.
 Intersect the W. bdy. of the Tp., 7 lks. S. of the cor. of
 secs. 19. 24. 25 and 30, which is an iron post establish-
 ed by Otis Ross as described in book "A".
 Thence I run
 N. $89^{\circ} 55'$ E. on a true line bet. secs. 19 and 30.
 Over rolling land, through scattering undergrowth.
 7.55 Enter wash, from E., course SW..
 39.55 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 S19 in N.,
 S30 in S. and
 $\frac{1}{4}$ in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor. Pits impracticable.
 63.60 Leave wash, from SE., course W.
 79.55 The cor. of secs. 19, 20, 29 and 30.
 Land, gently rolling.
 Soil, sandy gravel, 4th. rate.
 Undergrowth, greasewood, ocatillo, palo verde and cacti.
 No timber.

Jan. 20, 1916.

Jan. 24, 1916.

At 8 h. 10 m., a.m., l.m.t., I set off $34^{\circ} 32'$ N. on the
 lat. arc, $19^{\circ} 22'$ S. on the decl. arc, and determine a
 meridian with the solar, at the cor. of secs. 19, 20,
 29 and 30.

Thence I run

N. $0^{\circ} 03'$ W. bet. secs. 19 and 20.
 Over rolling land, through scattering undergrowth.
 .10 Enter wash, course SW.
 7.50 Leave wash, course SW., asc. S. slope 40 ft. to
 11.00 Low hill, bears E. and W., desc. NW. slope 65 ft. to
 15.00 Wash, 50 lks. wide, course SW., asc. SW. slope 65 ft. to
 24.20 Low hill, bears E. and W., desc. N. slope 20 ft. to
 26.75 Ravine, course SW., asc. S. slope 20 ft. to
 31.25 Low hill, bears E. and W., desc. N. slope 25 ft. to
 34.75 Enter wash, course SW.
 37.10 Leave wash, course SW..
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ in N.,
 S20 in E. and
 S19 in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 From $\frac{1}{4}$ sec. cor., asc. S. slope 20 ft. to
 41.00 Low hill, bears E. and W., desc. NW. slope 40 ft. to
 44.90 Wash, 40 lks. wide, course SW., asc. SW. slope 55 ft. to
 49.80 Low hill, bears E. and W., desc. NW. slope 15 ft. to
 54.80 Wash, 50 lks. wide, course SW., asc. S. slope 50 ft. to
 62.00 Low hill, bears NE. and SW., desc. NW. slope 55 ft. to
 76.60 Wash, 50 lks. wide, course S. 15° W.
 80.00 Point for sec. cor. falls in wash. I return to
 79.50 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
 ground, for W. C. to cor. of secs. 17, 18, 19 and
 20, marked on brass cap
 1916 on S. rim;
 T14N R19W WC in N. half;
 S18 in NW.,
 S17 in NE.,
 S20 in SE. and
 S19 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Land, rolling.
 Soil, sandy gravel, 4th. rate.

Chains
 Undergrowth, greasewood, ocatillo, palo verde and cacti.
 No timber.
 Jan. 24, 1916

40.00 Jan. 29, 1916. From true point for sec. cor. I run
 80.14 N. 89° 59' E. on a random line bet. secs. 17 and 20.
 Set temp. ¼ sec. cor.
 Intersect the N. and S. line, 5 lks. N. of the cor. of
 secs. 16, 17, 20 and 21.
 Thence I run
 N. 89° 59' W. on a true line bet. secs. 17 and 20.
 Over rolling land, sharply broken by deep washes, through
 scattering undergrowth.
 18.40 Wash, 50 lks. wide, 40 ft. deep, course SW.
 31.40 Wash, 1.00 ch. wide, 40 ft. deep, course NW.
 40.07 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 S17 in N.,
 S20 in S. and
 ¼ in W. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Pits impracticable.
 80.14 The true point for cor. of secs. 17, 18, 19 and 20.
 Land, rolling.
 Soil, sandy gravel, 4th. rate.
 Undergrowth, palo verde, ocatillo and cacti.
 No timber.
 Jan. 29, 1916.

40.00 Jan. 24, 1916. From true point for sec. cor., I run
 79.66 S. 89° 55' W. on a random line bet. secs. 18 and 19.
 Set temp. ¼ sec. cor.
 Intersect the W. bdy. of the Tp., 3 lks. S. of the cor. of
 secs. 13, 18, 19 and 24, which is an iron post,
 established by Otis Ross, as described in Book "A".
 Thence I run
 N. 89° 56' E. on a true line bet. secs. 18 and 19.
 Over rolling land, through scattering undergrowth.
 16.46 Enter wash, course SW.
 34.66 Leave wash, course SW.
 39.66 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 S18 in N.,
 S19 in S. and
 ¼ in W. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Pits impracticable.
 55.26 Wash, 15 lks. wide, 20 ft. deep, course S. 70° W.
 74.06 Enter wash, course SW.
 79.66 The true point for cor. of secs. 17, 18, 19 and 20.
 Land, rolling.
 Soil, sandy, gravel, 4th. rate.
 Undergrowth, palo verde, ocatillo and cacti.
 No timber.

From true point for sec. cor. I run.
 N. 0° 03' W. bet. secs. 17 and 18.
 Over rolling land, sharply broken by deep washes, through
 scattering undergrowth.
 1.00 Leave wash, course SW.
 9.50 Wash, 40 lks. wide, 15 ft. deep, course SW.
 24.95 Enter wash, course SW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼ in N.,
 S17 in E. and

Chains	<p>S18 in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.</p> <p>42.00 Leave wash, course SW., asc. S. slope 30 ft. to 43.70 Low hill, bears E. and W., desc. NW. slope 25 ft. to 58.90 Wash, 40 lks. wide, course SW. 68.90 Wash, 25 lks. wide, 15 ft. deep, course SW., asc. S. slope 55 ft. to 72.20 Low hill, bears E. and W., desc. N. slope 30 ft. to 75.85 Wash, 15 lks. wide, 20 ft. deep, course SW., asc. S. slope 50 ft. to 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in ground, for the cor. of secs. 7, 8, 17 and 18, marked on brass cap 1916 on S. rim; T14N R19W in N. half; S7 in NW., S8 in NE., S17 in SE. and S18 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.</p> <p>Land, rolling. Soil, very rocky and shallow, 4th. rate. Undergrowth, palo verde, ocatillo and cacti. No timber. Jan. 24, 1916; At this cor. I set off 19° 21' 5" S. on the decl. arc, and at apparent noon I observe the sun on the meridian. The resulting lat. is 34° 34' N.</p>
40.00 80.03 1.00 10.00 38.00 40.01½ 64.80 74.00 80.03	<p>S. 89° 59' E. on a random line bet. secs. 8 and 17. Set temp. ¼ sec. cor. Intersect the N. and S. line, 16 lks. S. of the cor. of secs. 8, 9, 16 and 17. Thence I run S. 89° 54' W. on a true line bet. secs. 8 and 17. Over mountainous land, through scattering undergrowth. Enter wash, course SW. Leave wash, course SW. Wash, 30 ft. deep, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for ¼ sec. cor., marked on brass cap 1916 on S. rim; S8 in N., S17 in S. and ¼ in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.</p> <p>Ravine, 40 ft. deep, course SW. Wash, 15 lks. wide, course SW. The cor. of secs. 7, 8, 17 and 18. Land, rolling mountainous. Soil, very rocky and shallow, 4th. rate. Undergrowth, palo verde, ocatillo, and cacti. No timber.</p>
40.00 79.55 17.30 24.75 32.65	<p>S. 89° 56' W. on a random line bet. secs. 7 and 18. Set temp. ¼ sec. cor. Intersect the W. bdy. of the Tp., 14 lks. N. of the cor. of secs. 7, 12, 13 and 18, which is an iron post established by Otis Ross, as described in book "A". Thence I run N. 89° 50' E. on a true line bet. secs. 7 and 18. Over rolling land, sharply broken by deep washes, through scattering undergrowth. Wash, 15 lks. wide, course SW., asc. NW. slope 50 ft. to Low hill, bears NE. and SW., desc. SE. slope 70 ft. to Enter wash, course SW.</p>

Chains
35.65
39.55

Leave wash, course SW.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S.rim;
S7 in N.,
S18 in S. and
 $\frac{1}{4}$ in W. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
Enter wash, course SW., thence asc. gradually up wash.
Leave wash, course W., from NE.
The cor. of secs. 7, 8, 17 and 18.
Land, rolling.
Soil, sandy gravel, 4th. rate.
Undergrowth, greasewood, ocatillo, palo,verde and cacti,
No timber.
Jan. 24, 1916.

52.25
68.65
79.55

5.30
27.60
35.00
39.00
40.00

Feb. 8, 1916.
N. $0^{\circ} 03'$ W. bet. secs. 7 and 8.
Over rolling land, sharply broken by deep washes, through scattering undergrowth.
Ravine, 30 ft. deep, course SW.
Wash, 4.00 chs.wide, course SW.
Enter wash, course SW.
Leave wash, course SW.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ in N.,
S8 in E. and
S7 in W. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Wash, 30 lks. wide, course SW.
Ravine, 25 ft. deep, course SW.
Impracticable to set an iron post at this point. Set a sandstone, 16 X 8 X 8 ins., 10 ins. in the ground, for the cor. of secs. 5, 6, 7 and 8, marked with 5 notches on the E. and 5 notches on the S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, rolling mountainous.
Soil, sandy gravel, 4th. rate.
Undergrowth, greasewood, ocatillo, palo verde and cacti.
No timber.

55.00
72.00
80.00

40.00
80.05

N. $89^{\circ} 54'$ E. on a random line bet. secs. 5 and 8.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect the N. and S. line; 5 lks. N. of the cor. of secs. 4, 5, 8 and 9.
Thence I run
S. $89^{\circ} 56'$ W. on a true line bet. secs. 5 and 8.
Over mountainous land, through scattering undergrowth.
Enter wash, course SW.
Leave wash, course SW., asc. S. slope 20 ft. to
Crest of low spur, falls to SW., desc. NW. slope 170 ft. to
Impracticable to set an iron post at this point. Set a lava stone, 14 X 14 X 8 ins., 10 ins. in ground, for $\frac{1}{4}$ sec. cor.; marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable;
From $\frac{1}{4}$ sec. cor. desc. 10 ft. to
Ravine, course SW., asc. SE. slope 50 ft. to
Crest of low ridge, bears NE. and SW., desc. W. slope 185 ft. to
Wash, 12 lks. wide, course NW., thence along N. slope to
The cor. of secs. 5, 6, 7 and 8.

2.00
17.90
21.10
40.02
41.50
58.60
64.10
80.05

to

Chains

Land, rolling mountainous.
Soil, very shallow and rocky, 4th. rate.
Undergrowth, palo verde, ocatillo and cacti.
No timber.

40.00 S. 89° 50' W. on a random line, bet. secs. 6 and 7.
79.58 Set temp. $\frac{1}{4}$ sec. cor.
Intersect the W. bdy. of the Tp., 3 lks. N. of the cor. of
secs. 1, 6, 7 and 12, which is an iron post established
by Otis Ross, as described in book "A".
Thence I run
N. 89° 49' E. on a true line bet. secs. 6 and 7.
Over rolling land, cut by broad washes, through scattering
undergrowth.
8.25 Wash, course SW.
27.60 Wash, 20 lks. wide, 20 ft. deep, course SW.
39.58 Impracticable to set an iron post at this point. Set a
granite stone, 16 X 10 X 6 ins., 12 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and
raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
of cor. Pits impracticable.
64.60 Wash, 25 lks. wide, 40 ft. deep, course SW.
79.58 The cor. of secs. 5, 6, 7 and 8.
Land, rolling.
Soil, sandy gravel, 4th. rate.
Undergrowth, greasewood, ocatillo, palo verde and cacti.
No timber.

Feb. 8, 1916.

Feb. 9, 1916.
At 8 h. 15 m., a.m., 1.m.t., I set off 34° 35' N. on the
lat. arc, 14° 54.5' S. on the decl. arc, and determine
a meridian with the solar, at the cor. of secs. 5, 6,
7 and 8.
Thence I run
N. 0° 03' W. on a random line bet. secs. 5 and 6.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.58 Intersect the N. bdy. of the Tp., 24 lks. E. of the cor.
of secs. 5, 6, 31 and 32, which is a stone, established
by me, as described in book "A".
Thence I run
S. 0° 13' E. on a true line bet. secs. 5 and 6.
Over mountainous land, through scattering undergrowth.
Asc. N. slope 20 ft. to
1.80 Crest of knoll, desc. S. slope 50 ft. to
6.00 Wash, 10 lks. wide, 30 ft. deep, course SW., asc. N. slope
40 ft. to
11.70 Low hill, bears E. and W., desc. S. slope 80 ft. to
18.30 Ravine, 20 ft. deep, course W., asc. N. slope 30 ft. to
26.20 Crest of knoll, desc. SW. slope 50 ft. to
34.60 Wash, 1.00 ch. wide, 15 ft. deep, course SW.
39.58 Impracticable to set an iron post at this point. Set a
malpais stone, 16 X 7 X 6 ins., 12 ins. in ground,
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a
mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
43.00 Wash, 60 lks. wide, course W., asc. NW. slope 145 ft. to
63.70 Crest of low ridge, bears E. and W., desc. S. slope 145 ft. to
72.80 Wash, 20 lks. wide, course SW., asc. N. slope 60 ft. to
74.60 Crest of spur, falls to SW., desc. S. slope 100 ft. to
77.00 Ravine, course W., asc. N. slope 100 ft. to
79.58 The cor. of secs. 5, 6, 7 and 8.
Land, rolling mountainous.
Soil, very shallow and rocky, 4th. rate.
Undergrowth, greasewood, palo verde, ocatillo and cacti.
No timber.

Feb. 9, 1916.

D. J. W.

General Description.

The surface of this Tp. varies from gently rolling in the western and southwestern part, to extremely rough mountainous in the eastern and northeastern part. The main ridge of the Chemehuevis mountains, bearing NW. and SE., traverses the NE. cor. of the Tp. From this main ridge, the land slopes to the SW. on one side, to the NE. on the other. The entire Tp. is drained by the Colorado river.

There is little soil in the Tp. This is mostly a sandy gravel and is wholly unfit for agricultural purposes.

The undergrowth consists of the shrub like palo verde tree, greasewood, ocatillo and many varieties of cacti.

There is no timber of commercial value in the Tp.

Water is very scarce, there being only one well in the Tp. This is located in sec. 1, and can be relied upon to furnish water at any season of the year.

There are numerous outcroppings of quartz in this Tp., and there are many indications that this region is highly mineralized.

U S L M 1429 is located in sec. 13.

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For Certificate of U.S. Surveyor and W.S. Transitman
see page II, Book "B" of this Group.

FINAL OATH OF UNITED STATES SURVEYOR.

BOOK 2949

32

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 accord-
ance 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____



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona April 10 _____, 1917

The foregoing field notes of the survey of the _____
Subdivision lines of _____
Township 14 North, Range 19 West
of the Gila and Salt River Base and Meridian
in the State of Arizona

executed by Albert Smith Jr., U.S. Surveyor & Deane J. Wolff, U.S. Transitman
under special instructions dated December 28, 1914 for Group 42 Arizona, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Surveyor General.
of Arizona.

~~I certify that the foregoing transcript of the field notes of the above described surveys in
Book "G" Group 42 _____, has been correctly copied from the original notes on file in this office.~~