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2405

Ordered filed G. L. O. letter "C" Sept. 6, 1913
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FEB 13 1911

Book C.

BOOK 2405

FIELD NOTES

OF THE SURVEY OF THE

Retracement of W. Boundary T1N R15 1/2 E
Subdivision of T1N R15 1/2 E

Of the Gt. S. P. B. & T. Meridian,

Arizona

AS SURVEYED BY

Wesley C. Allen, United States Deputy Surveyor,

Under his Contract No. 162, dated January 5, 1910

Survey commenced November 20, 1910

Survey completed December 2, 1910

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BOOK 2405

NAMES AND DUTIES OF ASSISTANTS.

Arthur M. Payne Chairman

Percy Bell Chairman

Jose Ortega Memberman

Philip Bell Flagman

BOOK 2405

INDEX DIAGRAM.

Township 1 N, Range 15 1/2 E

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	18		18		10		
2	105	17	1014	9	1013	18	13
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2	1022	15	2023	8	24	19	24
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R 15 1/2 E
R 16 E

White Mountain Indian Reservation

Meanders Page

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BOOK 2405

PRELIMINARY OATHS OF ASSISTANTS.

WE, Percy Bell and Arthur M. Pogue
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

TIN R 15 1/2 + 16 E

Percy Bell Chairman.

Arthur M. Pogue Chairman.

Subscribed and sworn to before me this 19th
day of November, 1910



W. H. ...
U.S. Deputy Surveyor

WE, Jose Ortega and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

TIN R 15 1/2 + 16 E

Jose Ortega, Moundman.

_____, Moundman.

Subscribed and sworn to before me this 19th
day of November, 1910



W. H. ...
U.S. Deputy Surveyor

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

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 19 _____



I, Philip Bell, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

TIN R 15 1/2 + 16 E

Philip Bell, Flagman.

Subscribed and sworn to before me this 19th
day of November, 1910



W. H. ...
U.S. Deputy Surveyor

Retracement of the W. Bdy. of Tp. 1 N., R. 15 1/2 E.

1 D

Chains.	<p>November 20, 1910: At the cor. of Tps. 1 N. Rs. 15 and 15 1/2 E., which I changed from T. 1 N., Rs. 15 and 16 E., to refer to T. 1 N., Rs. 15 and 15 1/2 E., I set off 19°35'S on the decl. arc; 33°23'N on the lat. arc; and at 9h a.m., l.m.t., determine a true meridian with the solar, which falls 0.3 ins. E. of mark on stone set November 10, 1910, by observation on Polaris.</p> <p>The 1/4 sec. cor. brs., N. 0°04' E.</p> <p>Therefore, I run</p> <p>N. 0° 04' E., bet. secs. 35 and 34, through dense catclaw</p> <p>2.50 Wire fence, brs. NE and SW. Leave catclaw. Descend</p> <p>13.50 E. 5 chs. Globe Water Works pumping plant.</p> <p>21.40 Bottom descent. Enter Pinal creek, brs. NW.</p> <p>31.00 Wagon road, Globe to Safford, brs. NW and SE.</p> <p>34.20 Center Pinal Creek, 1 ch. wide, brs. NW.</p> <p>35.58 Board fence, brs. NW and SE. Enter ball park.</p> <p>39.00 Board fence, brs. NW and SE. Leave ball park. Ascend.</p> <p>39.95 The 1/4 sec. cor. of secs. 34 and 36, which is a granite stone, 12x10x4 ins. above the ground, marked and witnessed as described by the surveyor general.</p> <p>From this 1/4 sec. cor., the sec. cor. brs. N. 0°05' E.</p> <p>Therefore I run</p> <p>N. 0°05' E. bet. secs. 34 and 36.</p> <p>40.40 Center Arizona & Eastern R.R. track, brs. NW and SE</p> <p>63.80 Wire fence, brs. NE and SW.</p> <p>69.10 Wire fence, brs. NE and SW. Top of ascent. Descend</p> <p>73.40 Center A & E. R.R. Copper Hill branch. NE and SW.</p> <p>78.60 Wash, 50 lks. wide, brs. S.</p> <p>79.92 The cor. secs. 25, 27, 34 and 36, which is a granite rock, 14x14x5 ins. above ground, marked and witnessed as described by the surveyor general.</p> <p>Magnetic declination, N. 14° 15' E.</p> <p>Land, mountainous.</p> <p>Soil, gravelly and rocky; 4th and 5th rate.</p> <p>No timber.</p> <p>Mountainous land, exceptional difficulties, 79.92 chs.</p> <hr/> <p>At the cor. of secs. 25, 27, 34 and 36</p> <p>November 20, 1910: I set off 19°37'S on the decl. arc; and at 11h 46m a.m. l.m.t., I observe the sun on the meridian, and obtain on the lat. arc, the reading, 33°24'N.</p> <p>The 1/4 sec. cor. brs. North.</p> <p>Therefore I run</p> <p>North bet. secs. 25 and 27</p> <p>Ascending over mountainous land</p> <p>22.22 Top ridge, brs. NE and SW and SW</p> <p>25.00 E. 3 chs. frame house of Gus Weinberg.</p> <p>32.50 Top ridge, brs. NE and SW. Wagon road, brs. NE and SW.</p> <p>Descend.</p> <p>40.02 The 1/4 cor. secs. 25 and 27, which is a sandstone, 12x3x5 ins. above ground, marked and witnessed as described by the surveyor general.</p> <p>Magnetic declination, N. 14° 15' E.</p> <p>51.00 Wash, 40 lks. wide, brs. SW. Ascend</p> <p>77.00 Top, ridge, brs. NE and SW. Descend</p> <p>80.02 The cor. of secs. 22, 24, 25 and 27, which is a quartz rock 12x6x6 12x6x6 ins. above ground, marked and witnessed, as described by the surveyor General.</p> <p>Magnetic declination, N. 14° 15' E.</p> <p>Land, mountainous.</p> <p>Soil, rocky; 4th and 5th rate.</p> <p>No timber.</p> <p>Mountainous land, exceptional difficulties, 80.02 chs.</p> <hr/> <p>of secs. 22 & 24</p> <p>The 1/4 sec. cor. brs. N. 0° 2' E.</p> <p>Therefore I run</p> <p>N. 0° 2' E. bet. secs. 22 and 24</p> <p>Descending over mountainous land</p>
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2 Retracement of the W. Bdy. of T. 1 N., R. 15 1/2 East

Chains.	
5.00	Bottom. Ascend.
11.70	Top ridge, brs. E and W., 300 ft. above gulch.
22.00	Gulch, 20 lks. wide, brs. SW. Ascend
27.00	Top ridge, brs. E and W., 200 ft. above gulch. Descend
35.40	Gulch, 35 lks. wide, brs. SW.
39.53	The 1/4 cor. secs. 22 and 24, which is a quartz rock in place, 24x12x3 ins. above ground, marked and witnessed as described by the surveyor general.
	The sec. cor. brs. N. 0° 03' E.
	Therefore I run
	N. 0° 03' E. from 1/4 sec. cor., bet. secs. 22 and 24
	Ascending
47.60	Top ridge, brs. E and W., 200 ft. above gulch. Descend
53.90	Gulch, 30 lks. wide, brs. SW. Ascend
57.00	Top ridge, brs. NW and SE, 200 ft. above gulch. Descend
69.40	Gulch, 35 lks. wide, brs. W. Ascend
72.00	Pipe line, brs. NE and SW.
72.09	Intersect line 1-2 of Cuprite mining claim, Survey No. 308, S. 52° 41' W., 12.68 chs. from cor. no. 2
72.50	Transmission line, brs. NE and SW.
74.45	Telephone line, brs. NE and SW.
75.80	Top ridge, brs. E and W., 400 ft. above gulch. Descend
79.00	The cor. secs. 22, 24, 13 and 15, which is a quartz rock in place, 12x12x12 ins. above ground, marked and witnessed as described by the surveyor general.
	Land, mountainous.
	Soil, rocky; 4th and 5th rate.
	No timber.
	Mountainous land, exceptional difficulties, 91.68 chs.
	Magnetic declination, N. 14° 15' E.
	November 20, 1910

	November 21, 1910: I set off 19° 48' S on the decl. arc; and 33° 26' N on the lat. arc; and at 9h a.m. l.m.t., determine a true meridian with the solar, at the cor. of secs. 13, 15, 22 and 24
	The 1/4 sec. cor. brs. N. 0° 13' W.:
	Therefore I run
	N. 0° 13' W., bet. secs. 13 and 15.
	Descending over mountainous land.
3.00	Bottom gulch, 30 lks. wide, brs. W.. Ascend
3.97	Intersect line 3-4 of Cuprite mining claim, Survey No. 308, S. 52° 41' W., 8.88 chs. from Cor. No. 3. N. 52° 41' E., 13.85 chs. from Cor. No. 4.
	A porphyry stone, 8x6x6 ins. above ground, marked C C on N. face; M S 308 on S. face; 6 grooves on E. and W. faces; a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor.
7.44	Intersect line 2-3 of Copper Hill mining claim, Survey No. 535, S. 77° 54' W., 18.62 chs. from Cor. No. 2. N. 77° 54' W., 3.81 chs. from Cor. No. 3.
7.47	A quartzite stone, 10x6x6 ins. above the ground, marked W C C C on S. face, and M S 535 on N. face; 6 grooves on E. and W. faces.
8.50	Top W. slope ridge. Descend
12.00	Shaft, 4x6x10 ft., 25 lks. E. of line.
17.00	Center R.R. side-track.
19.81	Copper Hill wash, 50 lks. wide, brs. SW. Wagon road, brs. SW and NE. Ascend
21.10	R.R. track, brs. NE and SW.
28.43	Intersect line 5-6 of Cochise M.C., Survey No. 631, S. 57° 55' W., 14.93 chs. from Cor. No. 6. N. 57° 55' E., 7.79 chs. to Cor. No. 5
	A quartzite stone, 8x6x6 ins. above ground, marked C C on N. face, and M S 631 on S. face; 6 grooves on E. and W. faces; and mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
38.87	The old 1/4 cor. secs. 13 and 15, which is a quartz rock, 12x8x5 ins. above ground, marked and witnessed as described by the surveyor general.

Retracement of the W. Bdy. of T. 1 N., R. 15 1/2 E.

Chains.	
38.87	S. 40° 45' E., 24.77 chs., to U.S.M.M. No. 2, which is an oak post 4x4 ins., x 4 ft. high, marked U S M M No 2 on NE face.
	N.E. 5 chs. from U.S.M.M. No. 2 to Copper Hill store, boarding house and group of buildings.
42.30	<i>The sec. cor. bears North thence 2 run N 85° E between Secs. 13 & 15 from 1/4 Cor.</i> Top ridge, brs. NE and SW, 800 ft. above wash. Descend
53.00	Wagon road, brs. NE and SW.
57.10	Gulch, 20 lks. wide, brs. NW, 700 ft. below ridge.
66.64	A porphyry stone, 8x4x6 ins. above ground, marked C C on S. face; M S 434 on N. face; 6 grooves on E. and W. faces. Intersect line 3-5 of Big Johnny mining claim, Survey No. 434, N. 51° 36' W., 1.00 ch. from Cor. No. 3.
68.75	Ore dump, 2 chs. E. of mining camp.
76.83	A quartzite stone, 6x6x6 ins. above ground, marked C C on N. face; M S 434 on S. face; 6 grooves on E. and W. faces. Intersect line 5-6, Big Johnny mining claim, Survey No. 434, N. 50° 18' E., 8.15 chs. from Cor. No. 5.
78.50	Wash, brs. SW.
78.78	The old cor. of secs. 10, 12, 13 and 15, which is a quartz rock, 6x3x10 ins. above ground, marked and witnessed as described by the surveyor general.
	Land, mountainous. Soil, rocky; 4th and 5th rate. No timber. Undergrowth, mesquite, scrub oak and catclaw. Mountainous land, exceptional difficulties, 155.81 chs. Magnetic declination, N. 14° 15' E.

	November 21, 1910: I set off 19° 50' S on the decl. arc; and at 11h 47m a.m., l.m.t., observe the sun on the meridian and obtain on the lat. arc, the reading, 33° 26 1/2' N.
	The 1/4 sec. cor. of secs. 10 & 12, brs. N. 0° 03' W.
	Therefore I run
	N. 0° 03' W., bet. secs. 10 and 12
	Over mountainous land, ascending wash.
1.00	House of Corbett on line.
10.73	Leave wash. Ascend
13.00	Top ridge, brs. E. and W. Descend
15.01	Wash, 1 ch. wide, brs. SE. Ascend
20.00	Wagon road, brs. NW and SE.
40.00	The 1/4 sec. cor. of secs. 10 and 12, which is a granite rock, 18x4x10 ins. above ground, marked and witnessed as described by the surveyor general.
	Magnetic declination, N. 14° 15' E.
	N. from 1/4 sec. cor., bet. secs. 10 and 12
43.00	Wash, 30 lks. wide, brs. SW. Ascend
49.00	Top ridge. Descend E. & W.
51.60	Gulch, 15 lks. wide, brs. W. Ascend
53.50	Cross same gulch, brs. SE.
54.60	Wash, brs. SW. Ascend along W. slope
75.00	Top ascent of W. slope. Descend
80.00	No cor. being visible, after diligent search, I therefore replace cor. of secs. 1, 3, 10 and 12, as follows: set a porphyry 18x6x6 ins., 14 ins. in the ground, marked 1 notch on N. edge; 5 notches on S. edge; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Magnetic declination N. 14° 15' E.
	Land, mountainous. Soil, rocky; 4th and 5th rate. No timber. Mountainous land, exceptional difficulties, 80.00 chs.

	The 1/4 cor. of secs. 1 and 3, brs. N. 0° 05' E.
	Therefore I run
	N. 0° 05' E., bet. secs. 1 and 3
	Descending over mountainous land

Chains.	
2.00	Wash, brs. SW, Ascend.
6.83	Read, brs. NE and SW.
14.23	Top ridge, brs. E and W, 300 ft. above wash. Descend
16.73	Gulch, brs. NW. Ascend
23.23	Top ridge, brs. E and W. Descend
23.79	A granite stone, 6x6x6 ins. above ground, marked C C on S. face; M S 313 on N. face; 6 grooves on E. and W. faces; mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Intersect S. side line Rescue M.C., Survey No. 313, S. 74° 20' W., 24.62 chs. from cor. No. 1
27.83	Gulch, 20 lks. wide, brs. E. Ascend
29.68	A quartz stone, 6x6x6 ins. above ground, marked C C on N. face; M S 313 on S. face; 6 grooves on E. and W. faces; mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor. Intersect line 1-4 of Rescue M.C., Survey No. 313, N. 24° 25' W 5.78 chs. from Cor. No. 1; S. 24° 25' E., 3.31 chs. from Cor. No. 4.
34.20	Top ridge, brs. E. and W. Descend
37.20	Gulch, 30 lks. wide, brs. E. Ascend
39.95	Top ridge, brs. E and W. Descend Old 1/4 cor. secs. 1 and 3, which is a granite rock, 10x8x8 ins. above ground, marked and witnessed as described by the surveyor general.
40.00	Magnetic declination, N. 14° 15' E. The old top cor. bears N. 65° 15' E. 1/2 S. W.
41.23	Gulch, 25 lks. wide, brs. SE. Ascend
42.88	Top ridge, brs. NW and SE. Descend
49.23	Gulch, 20 lks. wide, brs. SE. Ascend
54.00	Top ridge, brs. NW and SE. Descend
58.23	Gulch, 10 lks. wide, brs. SE. Ascend
61.20	Top, brs. NE and SW. Descend
62.60	Gulch, 40 lks. wide, brs. SE. Ascend
63.90	Top ridge, brs. NW and SE. Descend
65.90	Tunnel on line.
73.20	Gulch, 10 lks. wide, brs. SE. Ascend
77.60	Top ridge, brs. NW and SE. Descend
79.23	Gulch, brs. E. Ascend The old Tp. cor. as described by Sur. Genl. Land, mountainous. Soil, rocky; 4th and 5th rate. No timber. Undergrowth, scrub mesquite and oak. Mountainous land, exceptional difficulties, 90.60 chs. November 21, 1910.

Roscoe Ham
U.S. Deputy Surveyor

Chains.	<p>Survey commenced November 23, 1910, and executed with a Young & Sons light mountain transit No. 5609, equipped with a Smith solar attachment, the horizontal limb being provided with two opposite verniers reading to 1' of arc, which is also the least count of the verniers of the latitude and declination arcs.</p> <p>The instrument was examined, tested on the true meridian at Phoenix, found correct and was approved by the Surveyor General for Arizona.</p> <p>At the standard corner of sections 35 and 36, township 1 north, range 15$\frac{1}{2}$ east, at 3h.20m.a.m., l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground 5 chains north of my station.</p> <p>At 9h a.m., l.m.t., I set off 20°14'5" on the declination arc; 33°23'N on the latitude arc, and mark a point in the meridian determined with the solar by a cross on a stone 5 chains north of my station.</p> <p>I lay off the azimuth of Polaris 1°24' the east, and mark the meridian thus determined by a mark in the stone already set on which the meridian falls 0.3 ins. west of the mark determined by the solar; therefore I conclude that the adjustments of the instrument are satisfactory.</p> <p>Thence I run N. 0°1' W. bet secs. 35 and 36 Over mountainous land, ascending</p> <p>1.00 Ascend along E. slope of ridge 7.20 Top of E. slope, 100 ft. above sec. cor. Descend 8.20 Bottom gulch, brs. SE, 40 ft. below ridge. Ascend 18.66 Top, 100 ft. above gulch. Descend 19.80 Bottom gulch, brs. S., 125 ft. below ridge. Ascend along gulch.</p> <p>23.00 Leave gulch. Ascend 30.00 Top ridge, brs. NW and SE, 75 ft. above gulch. Descend 32.78 Bottom gulch, 10 lks. wide, brs. SE, 30 ft. below ridge. Ascend 35.30 Top ridge, brs. SE and NW, 45 ft. above gulch. Descend 38.30 Bottom gulch, 15 lks. wide, brs. SE, 100 ft. below ridge. Ascend 40.00 Top ridge. Set a quartz stone 18x6x6 ins., 14 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face. Raise mound of stone 2 ft. base 1$\frac{1}{2}$ ft. high W. of cor. Magnetic declination N. 14° 15' E.</p> <p>42.00 Bottom gulch, 5 lks. wide, brs. E. Ascend. 45.50 Top ridge, brs. E and W, 60 ft. above gulch. Descend 48.95 Bottom gulch, brs. E., 50 ft. below ridge. Ascend 51.30 Top ridge, brs. SE and NW, 100 ft. above gulch. Descend 54.70 Bottom gulch, 12 lks. wide, brs. E, 80 ft. below ridge. Ascend 56.20 Top ridge, brs. E and W, 60 ft. above gulch. Descend 58.51 Bottom gulch, 15 lks. wide, brs. E., 70 ft. below ridge. Ascend 60.70 Top ridge, brs. E and W., 20 ft. above gulch. Descend 62.00 Bottom gulch, 5 lks. wide, brs. E., 45 ft. below ridge. Ascend 63.00 Top ridge, brs. SE and NW, 30 ft. above gulch. Descend. 64.50 Bottom gulch, brs. SE, 75 ft. below ridge. Ascend 65.50 Top ridge, brs. SE, 50 ft. above gulch. Descend 67.50 Bottom gulch, 10 lks. wide, brs. NE, 70 ft. below ridge. Ascend 69.70 Top ridge, brs. NE and SW, 100 ft. above gulch. Drainage to the NE and SE from this ridge. Descend</p> <p>70.90 Wash, 5 lks. wide, 35 ft. below ridge, brs. NE. Ascend 72.00 Top ridge, brs. NE, 25 ft. above gulch. Descend. 74.25 Bottom gulch, brs. NE, 60 ft. below ridge. Ascend 77.00 Top ridge, brs. NE, 45 ft. above gulch. Descend 78.65 Bottom gulch, brs. NE, 65 ft. below ridge. Ascend 80.00 Set a quartz stone 17x6x6 ins., 13 ins. in the ground for cor. secs. 25, 26, 35 and 36, marked 1 notch on S. edge; 1 notch on E. edge; 1 N on N.E. face; 15$\frac{1}{2}$ E on S.E. face. Raise mound of stone 2 ft. base 1$\frac{1}{2}$ ft. high W. of cor. Magnetic variation N. 14° 30' E.</p> <p>Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. No timber Underbrush, scattered catclaw. Mountainous land exceptional difficulties, 80 chs.</p>
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Subdivision of Township 1 North, Range 15 $\frac{1}{2}$ East

Chains	E. on a random line bet. secs. 25 and 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect E. bdy. of Tp. 10 lks. N. of cor. of secs. 25, 30, 31 and 36.
	Thence I run
	N. 89° 56' W.; on a true line bet. secs. 25 and 36.
	Over mountainous land, ascending
1.20	Top. Descend
3.00	Bottom gulch, brs. NE.
5.10	Wash, brs. NE, 90 ft. below top. Ascend.
10.80	Top. Descend:
13.00	Bottom. Ascend along N. slope of E&W. ridge.
18.00	Top of N. slope, 75 ft. above bottom. Descend
22.10	Bottom wash, brs. NE, 50 lks. wide. Ascend
27.00	Top. Descend
32.70	Bottom. Ascend through gulch
39.95	N. bank of gulch. Set a quartz stone 17x9x6 ins., 13 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face. Raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Magnetic declination N. 14° 15' E.
	November 23, 1910: I set off 20° 16' S on the decl. arc; and at 11h 47m a.m., l.m.t., I observe the sun on the meridian, and obtain on the lat. arc the reading 33° 24' N.
40.80	Gulch, brs. SE. Ascend
45.70	Wash, brs. NE. Ascend
49.40	Top ridge, brs. NE and SW, 100 ft. above wash. Descend
50.75	Gulch, brs. NE, 50 ft. below ridge. Ascend
51.70	Top small ridge, brs. NE and SW, 35 ft. above wash. Descend
53.00	Gulch, brs. NE, 40 ft. below ridge. Ascend
54.40	Top small ridge, brs. NE, 75 ft. above gulch. Descend through dense Palo Cristo.
55.00	Leave dense Palo Cristo.
57.25	Bottom gulch, brs. NE, 65 ft. below ridge. Ascend
60.50	Top ridge, brs. SE and NW, 90 ft. above gulch. Descend
61.70	Bottom gulch, 15 lks. wide, brs. SE, 40 ft. below ridge. Ascend
61.90	Top ridge, brs. NE and SW, 125 ft. above gulch. Descend
70.00	Gulch, 10 lks. wide, brs. NE, 80 ft. below ridge. Ascend
79.90	The cor. secs. 25, 26, 35 and 36. Land, mountainous. Soil, 'rocky' and gravelly; 3rd and 4th rate. No timber. Undergrowth, Palo Cristo, catclaw. Mountainous land, exceptional difficulties, 79.90 chs.

	N. 0° 1' W., bet. secs. 25 and 26.
	Over mountainous land, descending.
1.75	Bottom gulch, brs. NE, 75 ft. below sec. cor. Ascend
3.30	Top.
4.50	Descend
7.00	Bottom gulch, brs. E., 50 ft. below top. Ascend
10.00	Top ridge, brs. E., 35 ft. above gulch. Descend
14.50	Bottom gulch, brs. NE, 60 ft. below ridge. Ascend
16.50	Top ridge, brs. NE and SW, 25 ft. above gulch. Descend
20.40	Bottom gulch, brs. NE, 40 ft. below ridge. Ascend
24.00	Top ridge, brs. NE and SW, 75 ft. above gulch. Descend
28.10	Bottom gulch, brs. NE, 100 ft. below ridge. Ascend
31.00	Top ridge, brs. NE and SW, 70 ft. above gulch. Descend
37.16	Bottom gulch, brs. NE, 125 ft. below ridge. Ascend
38.50	Top ridge, brs. NE and SW, road to Globe from Cutter, brs. NE and SW. Descend
40.00	Set a quartz stone 19x8x6 ins., 14 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face. Raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. Magnetic declination N. 14° 15' E.
	On W. bank of wash; descend along wash
44.00	Leave wash. Ascend
45.10	Top. Descend
46.00	Bottom wash, brs. E., 35 ft. below top. Ascend.

Subdivision of Township 1 North, Range 15½ East.

7.

Chains.	
48.50	Top. Descend over land sloping NE.
57.20	Steep descent
59.00	Bottom wash, brs.NE, 200 ft. below top.
62.90	Wash, 10 lks. wide, brs.NE. Ascend
65.00	Top. Descend
66.80	Bottom gulch, brs.E., 75 ft. below top. Ascend
67.55	Top ridge, brs.E and W, 50 ft. above gulch. Descend
68.82	Bottom gulch, brs.E., 60 ft. below ridge. Ascend
71.00	Top ridge, brs.E and W, 40 ft. above gulch. Descend
73.50	Bottom gulch, brs.E and W. Ascend
75.30	Top. Descend
76.40	Bottom, 60 ft. below top. Ascend
78.80	Top. Descend 40 ft. to cor.
80.00	Set a quartz stone 18x6x6 ins.; 14 ins. in the ground for cor. secs. 23, 24, 25 and 26; marked 2 notches on S. edge; 1 notch on E. edge. Raise mound of stone 2 ft. base 1½ ft. high W. of cor. Magnetic declination N. 14° 15' E. From which A Palo Cristo 3 ins. diam., brs.S., 39° E., 35 lks. dist., marked T 1 N R 15½ E S 25 B T A Palo Cristo 2 ins. diam., brs.N. 4° 03' W., 188 lks. dist./ marked T 1 N R 15½ E S 23 B T A Palo Cristo 3 ins. diam., brs.S. 71° 47' W., 118 lks. dist., marked T 1 N R 15½ E S 26 B T A Palo Cristo 3 ins. diam., brs.N. 8° E., 234 lks. dist., marked T 1 N R 15½ E S 24 B T Land, mountainous. Soil, rocky and gravelly; 3rd and 4th rate. No timber. Undergrowth, scrub palo Cristo, catclaw, Spanish bayonet. Mountainous land, exceptional difficulties, 80 chs. November 23, 1910.
	----- Nov. 24, 1910. At 9h a.m., l.m.t., I set off 20° 27' S on the decl. arc; 33° 25' N on the lat. arc, and determine a meridian with the solar, at the cor. of secs. 23, 24, 25 and 26. Thence I run S. 89° 56' E., on a random line bet. secs. 24 and 25 40.00 Set temp. ¼ sec. cor. 80.03 Intersect E. Tp. bdy., 19 lks. S. of cor. to secs. 19, 24, 25 and 30; therefore I run S. 89° 56' W. on a true line bet. secs. 24 and 25 Over mountainous land, ascending 14.63 Top of slope, 150 ft. above sec. cor. Descend 23.60 Bottom wash, 200 ft. below top. 25.95 Wagon road brs. NW and SE. 28.30 E. channel of wash, 25 lks. wide 29.83 Center main channel of wash, 50 lks. wide, running water, SE. 31.37 1 ch. S. to one story frame house, homestead of Luther Sigmund. 31.93 Wagon road, brs. NE and SW. 35.94 Fence post line of Luther Sigmund. 36.03 Leave draw. Ascend 40.01½ Set a quartz stone 15x12x6 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face. Raise mound of stone 2 ft. base 1½ ft. high, N. of cor. Magnetic declination N. 14° 15' E. 44.47 Top ridge, brs. SE and NE. Descend 46.46 Gulch, 15 lks. wide, brs. SE, 40 ft. below ridge. Ascend 50.63 Top ridge, brs. NW and SE, 100 ft. above gulch. Descend 52.83 Bottom gulch, 20 lks. wide, brs. SW, 50 ft. below ridge. Ascend 54.03 S. slope of ridge. Descend 55.54 Gulch, 15 lks. wide, brs. S., 40 ft. below ridge. Ascend 57.68 Top of S. slope of ridge; 70 ft. above gulch. Descend 63.39 Bottom, E. bank of draw, 90 ft. below ridge. 65.53 Main channel wash, 50 lks. wide, brs. SE. 66.02 W. bank of draw. Ascend 69.00 Top ridge, brs. SE, 50 ft. above wash. Descend

Chains	
77.02	Bottom, 75 ft. below top.
80.03	The cor. of secs. 23, 24, 25 and 26. Land, mountainous. Soil, rocky and gravelly; 3rd and 4th rate No timber. Undergrowth, scattered catclaw, mesquite, Spanish bayonet and palo verde. Mountainous land, exceptional difficulties, 80.03 chs.

	N. 0° 1' W., bet. secs. 23 and 24
0.40	Wash, 1 ch. wide, brs NE. Ascend
2.30	Top E. slope, 50 ft. above wash. Descend
4.00	Junction two gulches, brs. SW and SE, 60 ft. below top. Ascend
7.00	Top ridge, brs. E and W, 50 ft. above wash. Descend
8.90	Enter bottom.
9.00	Wash, 30 lks. wide, brs. NE, 60 ft. below ridge.
12.30	Leave bottom. Ascend
15.00	Top ridge, brs. SE and NW, 60 ft. above wash. Descend along E. slope.
27.50	Gulch, 30 lks. wide, brs. SE, 125 ft. below ridge. Ascend
40.00	Top of ascent on E. slope of ridge. Set a quartz stone, 18x10x6 ins., 14 ins. in the ground, marked for ¼ sec. cor., marked ¼ on W. face. Raise mound of stone 2 ft. base 1½ ft. high W. of cor. Magnetic declination N. 14° 15' E.
47.60	Bottom. Ascend
51.00	Top of slope, brs. E and W, 50 ft. above cor.
56.65	Trail, brs. Ne and SW.
58.35	Gulch, 14 lks. wide, brs. E., 60 ft. below top. Ascend along E. slope of ridge.
59.50	Top of E. slope. Descend along E. slope
63.60	Gulch, 30 lks. wide, brs. E., 60 ft. below top. Ascend
72.00	Top ridge, brs. NW and SE, 50 ft. above gulch. Descend
78.50	Bottom, 60 ft. below top.
80.00	Point for cor. falls in wash, 30 lks. wide, course E.
79.50	Set a quartzite 24x12x6 ins., 18 ins. in the ground for witness cor. to cor. secs. 13, 14, 23 and 24, marked 1 notch on E. edge; 3 notches on S. edge; W C 1 N on NE face; 15½ E on SE face. Raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Magnetic declination N. 14° 15' E.
	Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. No timber. Undergrowth, few catclaw and Spanish bayonet. Mountainous land, exceptional difficulties.

	November 24, 1910: I set off 20° 29' S on the decl. arc; and at 11h 47m a.m., l.m.t., I observe the sun on the meridian and obtain on the lat. arc, the reading 33° 26' N.
	Thence I run from pt. for cor. of secs. 13, 14, 23 and 24: N. 89° 56' E., on a random line, bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect the E. Tp. bdy. 2 lks. S. of cor. of secs. 13, 18, 19 and 24; therefore I run
	Thence I run S. 89° 55' W., on a true line bet. secs. 13 and 24. over mountainous land, ascending.
14.00	Small gulch, brs. SW.
17.70	Wagon road, brs NE and SW.
25.00	W. rim of mesa. Descend
30.00	Gulch, 15 lks. wide, brs. SW. Descend
31.60	Bottom draw, brs. S., 80 ft. below rim.
32.35	Main channel wash, 50 lks. wide.
38.40	Leave wash. Ascend
40.01	Set a quartz stone 18x10x8 ins., 14 ins. in the ground for ¼ sec. cor., marked ¼ on N. face. Raise mound of stone

Subdivision of Township 1 North, Range 15 1/2 East

Chains. 2 ft. base 1 1/2 ft. high N. of cor.
Magnetic declination N. 14° 15' E.

42.60 Top ridge, brs. NW and SE. Descend
46.00 Bottom gulch, brs. SW, 80 ft. below top. Ascend
49.80 Top ridge, brs. NW and SE, 65 ft. above wash. Descend
51.10 Barbed wire fence, brs. NW and SE.
56.00 Bottom draw, 3.78 chs. S. to frame house and tent, homestead of Jim Ortega.
57.30 Irrigation ditch, 2 lks. wide, brs. N and S.
58.40 Center main channel wash, 50 lks. wide, running water, brs. SE.
60.70 Wagon road to Globe, brs. NW and SE.
63.50 W. bank of draw, brs. NW and SE. Ascend
65.00 Top ridge, brs. NW and SE, 75 ft. above draw. 5 chs. N. to tent house, homestead of Jose Ortega.
65.25 Fence post line of Jim Ortega, brs. N and S.
67.00 Descend.
70.40 Bottom wash, 100 lks. wide, brs. S.. Ascend
75.00 Top ridge, brs. NE and SW, 70 ft. above wash. Descend
77.00 Bottom wash, brs. NE.
80.02 The point for cor. secs. 13, 14, 23 and 24
Land, mountainous. Soil, rocky and sandy; 2nd, 3rd and 4th rate
No timber. Mountainous land, exceptional difficulties, 55 chs.

November 24, 1910:
November 25, 1910:
At 9h a.m., l.m.t., I set off 20°39' S on the decl. arc; 33°26' N on the lat. arc; and determine a meridian with the solar at the true pt. for cor. of secs. 13, 14, 23 and 24.
Thence I run
N. 0° 1' W., bet. secs. 13 and 14.
Over mountainous land, ascending

0.50 Leave wash. Ascend
1.40 Top N. bank gulch, 50 ft. above wash. Ascend along E. slope of ridge
14.50 Gulch, 20 lks. wide, brs. SE. Ascend
24.00 Top E. slope ridge. Descend
26.60 Top of S. rim of draw, brs. SE and NW. Descend
28.84 Bottom draw, barbed wire fence brs. NW and SE. Enter garden patch of J.R. Watkins.
29.00 6.56 chs. E. to frame house and garden of W.N. Click.
30.00 70 lks. W., to frame house of J.R. Watkins.
30.69 Fence, brs. NW and SE. Leave garden of J.R. Watkins.
31.00 Wagon road to Globe, brs. NW and SE.
34.25 Center of wash, main channel, running water, 50 lks. wide, brs. SE..
37.00 2 chs. W. to spring at foot N. bank of wash. 4 chs. W., frame house of J.R. Smith. Leave wash. Ascend
39.00 Top of N. bank, 75 ft. above wash,
40.00 Set a quartz stone, 20x8x6 ins., 15 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face. Raise mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
Magnetic declination N. 14° 15' E.
43.35 Superior & Boston Triangulation station No. 32, 48 lks. E. of line.
63.00 Top ridge, brs. SE and NW, 100 ft. above 1/4 cor.. Descend
66.00 Bottom. Wire fence brs. NW and SW. Ascend along W. slope of ridge.
80.00 On W. slope of ridge set a quartz 18x8x6 ins., 14 ins. in the ground for cor. secs. 11, 12, 13 and 14, marked 4 notches on S. edge; 1 notch on E. edge; 1 N on NE face; 15 1/2 E on SE face. Raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor.
Magnetic declination N. 14° 15' E.
Land, mountainous.
Soil, rocky and sandy; 2nd, 3rd and 4th rate
No timber.
Undergrowth, scrub mesquite, catclaw, palo verde, in washes.
Spanish bayoney and nopal.
Mountainous land, exceptional difficulties, 67.60 chs.

Subdivision of Township 1 North, Range 15½ East

Chains N. 89° 55' E., on a random line, bet. secs. 12 and 13.
 40.00 Set temp. ¼ sec. cor.
 79.79 Intersect E. Tp. bdy., 23 lks. S. of cor. of secs. 7, 12, 13, 18
 Thence I run
 S. 89° 45' W., on a true line, bet. secs. 12 and 13.
 Descending over mesa
 8.29 Wagon road, brs. NE and SW.
 12.41 Wire fence, brs. N. 14° W., S. 14° E.
 18.79 W. rim of mesa. Descend
 24.09 Gulch, 35 lks. wide, brs. SW, 75 ft. below rim. Ascend
 27.79 Top ridge, brs. S., 50 ft. above gulch. Descend
 31.60 Gulch, 30 lks. wide, brs. SE, 75 ft. below ridge. Ascend
 39.895 Set a quartz 18x16x10 ins., 14 ins. in the ground, for
 ¼ sec. cor., marked ¼ on N. face. Raise a mound of stone
 2 ft. base 1½ ft. high N. of cor.
 42.79 Top ridge, brs. N and S. Descend
 48.09 Bottom gulch, 20 lks. wide, brs. SE, 50 ft. below ridge. Ascend
 57.20 Top of hill. Descend
 63.10 Gulch, 20 lks. wide, brs. SW, 50 ft. below top hill. Ascend
 72.80 Top of S. slope of ridge. Descend
 76.10 Gulch, 15 lks. wide, brs. N and S. Ascend
 79.00 Top ridge brs. N. and S. Descend
 79.79 The cor. of secs. 11, 12, 13 and 14.
 Land, rolling and mountainous.
 Soil, stony and clay; 3rd and 4th rate.
 No timber.
 Undergrowth, scrub mesquite in washes.
 Mountainous land, 50.00 chs.

November 25, 1910: I set off 20° 41' S on the decl. arc; and
 at 11h 47m a.m., l.m.t., I observe the sun on the merid-
 ian; and obtain on the lat. arc, the reading, 33° 26½' N.
 Thence I run

N. 0° 1' W., bet. secs. 11 and 12.
 Over mountainous land, ascending
 2.00 Top of rise. Ascend along W. slope of ridge.
 10.00 Top of W. slope, 50 ft. above sec. cor. Descend
 27.75 Gulch, 25 lks. wide, brs. SW, 100 ft. below ridge. Ascend.
 35.00 Top ridge, brs. NE and SW. Descend along W. slope
 40.00 Set a quartz stone, 18x6x6 ins., 14 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.
 Magnetic declination N. 14° 15' E.
 54.00 Leave W. slope. Descend
 59.90 Gulch, 10 lks. wide, brs. SW, 75 ft. below top of slope. Descend
 61.70 Gulch, 30 lks. wide, brs. SW. Descend.
 70.00 Begin ascent along W. slope of quartz-porphry mountain.
 80.00 On W. slope set a sandstone 20x8x6 ins., 15 ins. in the
 ground for cor. secs. 1, 2, 11 and 12, marked 5 notches on
 S. edge; 1 notch on E. edge; 1 N on NE face; 15½ E on SE
 face; and raise a mound of stone 2 ft. base 1½ ft. high
 W. of cor.
 Magnetic declination N. 14° 15½ E.
 Land, mountainous.
 Soil, gravelly and rocky; 3rd, 4th and 5th rate.
 No timber.
 Mountainous land, exceptional difficulties, 80 chs.
 November 25, 1910

November 26, 1910: At 9h a.m., l.m.t., I set off 20° 51' S on
 the decl. arc; 33° 27' N. on the lat. arc; and determine a
 meridian with the solar at the cor. of secs. 1, 2, 11 and 12
 Thence I run

N. 89° 45' E. on a random line bet. secs. 1 and 12.
 40.00 Set temp. ¼ sec. cor. (point of)
 80.08 Intersect E. Tp. bdy., 1 lks. N. of cor. of secs. 1, 6, 7 and 12.
 Thence I run
 S. 89° 46' W. on a true line bet. secs. 1 and 12

Subdivision of Township 1 North, Range 15 $\frac{1}{2}$ East.

11

Chains. Ascending from wash over mountainous land.
 4.40 Leave wash. Ascend
 12.00 Top ridge, brs. NW and SE, 175 ft. above wash. Descend
 15.00 Gulch, 35 lks. wide, brs. SE, 75 ft. below ridge. Ascend
 30.85 Barbed wire fence, brs. NW and SE.
 32.00 Top ridge, brs. NW and SE, 250 ft. above wash. Descend
 40.04 ON W. slope of ridge. Set a porphyry stone, 19x8x6 ins.,
 14 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
 41.30 Bottom gulch; 35 lks. wide, brs. SE; 300 ft. below top of ridge
 Ascend
 48.00 Top ridge, brs. N. and S.; 200 ft. above gulch. Descend
 61.00 Gulch, brs. SW, 150 ft. below ridge. Ascend along S. slope of
 ridge.
 71.50 Top of S. slope. Descend
 80.08 The cor. of secs. 1, 2, 11 and 12.
 Land, mountainous.
 Soil, rocky; 3rd and 4th rate.
 No timber.
 Mountainous land; exceptional difficulties, 80 chs.

November 26, 1910: I set off 20°53' S on the decl. arc; and at
 11h 46m a.m., l.m.t., I observe the sun on the meridian,
 and obtain on the lat. arc, the reading 33° 27' N.

Thence I run
 N. 0° 1' W., on a random line, bet. secs. 1 and 2
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.71 Intersect N. Tp. bdy., 12 lks. W. of cor. of secs. 1, 2, 35 and 36
 Thence I run
 S. 0° 4' W., on a true line, bet. secs. 1 and 2
 Over mountainous land, descending
 33.00 Gulch, 20 lks. wide, brs. SE. Descend
 19.30 Gulch, 10 lks. wide, brs. SE. Descend
 22.50 Gulch, 40 lks. wide, brs. SW, 250 ft. below sec. cor. Ascend
 33.00 Top of ascent, 150 ft. above gulch; descend.
 36.00 Wagon road, Fame mine to Globe, brs. NE and SW
 40.71 Set a quartz stone, 24x10x8, ins., 18 ins. in the 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.
 Magnetic declination N. 14° 15' E.
 46.00 Bottom, 175 ft. below ridge. Ascend
 48.00 Open cut, 20 lks. W. of line.
 55.50 Top ridge, brs. NE and SW, 100 ft. above wash.
 61.40 Shaft, 4x6x10 ft., 10 lks. W. of line.
 70.00 Wire fence, brs. E and W.
 71.50 Wash N. bank, brs. SW.
 74.50 S. bank of wash, brs. SW. Ascend
 80.71 The cor. of secs. 1, 2, 11 and 12.
 Land, mountainous.
 Soil, rocky; 4th and 5th rate.
 No timber.
 Mountainous land, exceptional difficulties, 80.71 chs.
 November 26, 1910

November 27, 1910: at 9h a.m., l.m.t., I set off on the decl.
 arc 21°02' S; 33°23' N on the lat. arc; and determine a meri-
 dian with the solar, at the std. cor. of secs. 34 and 35

Thence I run
 N. 0° 1' W., bet. secs. 34 and 35
 Ascending over mountainous land.
 1.00 Top of ascent. Descend.
 6.00 Gulch, brs. W., 125 ft. below top. Ascend
 9.00 Top, 100 ft. above gulch; Descend
 13.60 Bottom gulch, brs. W., 75 ft. below top.
 20.50 Top ridge, brs. NW and SE, 100 ft. above gulch. E. 4 chs. to
 corrugated water tank. Descend
 28.50 Bottom gulch, brs. NW, 100 ft. below ridge. Ascend
 29.80 Telephone line, Globe to Pioneer Slaughter House, brs. NW.

Chains.	
30.50	Barbed wire fence, brs. N. 35° W. Ascend
33.57	Top, 75 ft. above gulch. Descend
35.70	Bottom gulch, brs. W., 60 ft. below top. Ascend
40.00	On S. slope; set a porphyry stone, 18x8x8 ins., 14 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. Magnetic declination N. 14° 15' E.
44.00	Top, 125 ft. above gulch. Descend
47.60	Bottom gulch, brs. W., 60 ft. below top. Ascend
50.00	Top, 50 ft. above gulch. Descend
52.25	Bottom gulch, brs. SW, 60 ft. below top. Ascend
54.73	Top ridge, brs. SW and NE, 40 ft. above gulch. Descend
57.48	Bottom gulch, brs. SW, 150 ft. below ridge. Ascend
61.18	Pine post 3ft. x 4x4 ins.
63.00	Top, 100 ft. above gulch. Descend
65.90	Bottom gulch, brs. SW, 60 ft. below top. Ascend
67.00	Barbed wire fence, brs. NW and SE.
68.00	Top. Descend 100 ft. to cor.
80.00	Set a quartz stone 17x10x8 ins., 13 ins. in the ground for cor. secs. 26, 27, 34 and 35, marked 2 notches on E. edge; 1 notch on S. edge; 1 N on NE face; 1 1/2 on SE face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Magnetic declination N. 14° 15' E.
	Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. No timber. Undergrowth, scattered catclaw in gulches. Mountainous land, exceptional difficulties, 80 chs.

	E. on a random line, bet. secs. 26 and 35
40.00	Set temp. 1/4 sec. cor.
79.86	Intersect N. and S. line, 12 lks. S. of cor. of secs. 25, 26, 35 and 36. Thence I run S. 89° 55' W., on a true line bet. secs. 26 and 35 Ascending over mountainous land
10.00	Bottom gulch, 14 lks. wide, brs. NW, 75 ft. below sec. cor. Ascend
15.26	Top ridge, brs. SW and NE, 60 ft. above gulch. Descend
20.00	Bottom gulch, 1 ch. wide, brs. N., 75 ft. below ridge. Ascend
25.00	Top ridge, brs. NW and SE, 80 ft. above gulch. Descend
28.10	Gulch, 10 lks. wide, brs. NE, 30 ft. below ridge. Ascend
31.50	Top ridge, brs. NE and SW, 25 ft. above gulch. Descend
34.00	Bottom gulch, 50 lks. wide, brs. NE, 50 ft. below ridge. Ascend
36.00	Top ridge, brs. N and S, 25 ft. above gulch. Descend
39.50	Gulch, 15 lks. wide, brs. NW, 50 ft. below ridge. Ascend
39.93	Set a quartz stone, 17x8x8 ins., 12 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. Magnetic declination, N. 14° 15' E. November 27, 1910: I set off 21° 04' S. on the decl. arc; and at 11h 48m a.m., l.m.t., I observe the sun on the meridian and obtain on the lat. arc, the reading, 33° 24' N.
40.90	Top of N. slope of ridge. Descend
42.33	Gulch, 1 ch. wide, brs. NE, 40 ft. below ridge. Ascend
47.35	Top ridge, brs. SW and NE, 60 ft. above gulch. Descend
50.45	Gulch, 50 lks. wide, brs. SW, 40 ft. below ridge. Ascend
52.00	Top S. slope of ridge, 35 ft. above gulch. Descend
53.35	Gulch, brs. SW, 25 ft. below top. Ascend
56.00	Top ridge, brs. NE and SW, 60 ft. above gulch. Descend
60.43	Bottom gulch, 12 lks. wide, brs. NW, 45 ft. below ridge. Ascend
62.00	Top, 30 ft. above gulch. Descend
66.70	Gulch, 20 lks. wide, brs. NW. Ascend
68.58	Wagon road, brs. NW and SE
70.33	Small gulch, brs. NE. Ascend 100 ft.
79.86	The cor. of secs., 26, 27, 34 and 35 Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate No timber. Mountainous land, exceptional difficulties, 79.86 chs.

Subdivision of Township 1 North, Range 15 $\frac{1}{2}$ East.

13.

Chains	W. on a random line, bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.65	Intersect W. Tp. bdy., .07 lks. N. of cor. of secs. 25, 27, 34 & 36
	Thence I run
	N. $89^{\circ} 57' E.$, on a true line bet. secs. 27 and 34
	Over mountainous land.
.60	S. $40^{\circ} 43' E.$, 4.16 chs. to SW cor. of Geo. W. Margrum's Home-
	stead; frame house, garden and windmill.
0.82	Gulch, 20 lks. wide, brs. SW.
2.84	Enter wash. Wagon road, brs. NE and SW.
6.65	Leave wash. Ascend
6.71	N. E. cor. of wire fence.
10.24	Barbed wire fence, brs. NE and SW.
11.65	Center Arizona & Eastern R.R. track. Copper Hill to Globe,
	brs. NE and SW
14.37	R. R. fence, brs. NE and SW.
19.65	Top, 300 ft. above sec. cor. Descend
26.65	Bottom gulch, 30 lks. wide, brs. NE, 200 ft. below ridge. Ascend
27.25	Top ridge, 75 ft. above gulch. Descend
28.70	Barbed wire fence, brs. NW and SE.
29.85	Wash, 25 lks. wide, brs. NW.
31.30	Road, brs. NW and SE.
32.84	Shaft, 4x6x20 ft.
35.00	Gulch, 20 lks. wide, brs. SW. Ascend
39.65	100 ft. above gulch. Set a quartz stone, 20x6x6 ins., 15
	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
	Magnetic declination, N. $14^{\circ} 15' E.$
40.65	Wagon road, Globe to Copper Hill, brs. NE and SW.
44.35	Shaft, 4x6x10 ft., 25 lks. N. of line.
55.10	Gulch, brs. S.
70.15	Top ridge, brs. SW; 200 ft. above $\frac{1}{4}$ sec. cor. Descend
75.55	Bottom gulch, 15 lks. wide, brs. W. Ascend.
79.25	Top ridge, 125 ft. above gulch.
79.65	The cor. of secs. 26, 27, 34 and 35.
	Land, mountainous.
	Soil, gravelly and rocky; 3rd and 4th rate.
	No timber.
	Mountainous land, exceptional difficulties, 79.65 chs.
	November 27, 1910.

	November 28, 1910: At 9h a.m., l.m.t., I set off $21^{\circ} 13' S$ on
	the decl. arc; $33^{\circ} 24' N$ on the lat. arc; and determine a
	meridian with the solar at the cor. of secs. 26, 27, 34 & 35
	Thence I run
	N. $0^{\circ} 1' W.$, bet. secs. 26 and 27
	Descending over mountainous land.
5.50	Bottom, 125 ft. below sec. cor.
6.20	Wagon road, Globe to Copper Hill, brs. NW and SE.
8.80	Wash, 20 lks. wide, brs. NW.
10.00	Wagon road, Globe to Copper Hill, brs. NE and SW.
19.20	Wash, 35 lks. wide, brs. SW.
20.50	Ascend.
21.50	Center of track Arizona & Eastern R.R., on curve, brs. NE
	and SW
34.00	Enter porphyry boulders.
40.00	200 ft. above bottom. A cross (X) on porphyry rock in place
	18x24x8 ins. above 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.
	A cross (X) on a porphyry boulder, in place, 5x3x2 $\frac{1}{2}$ ft.
	high, brs. N. $83^{\circ} 10' E.$, 31 lks. dist., marked $\frac{1}{4}$ S 26 B O
	A cross (X) on a porphyry boulder 4x2x1 $\frac{1}{2}$ ft. high,
	brs. S. $64^{\circ} 51' W.$, 20 lks. dist., marked $\frac{1}{4}$ S 27 B O.
	Magnetic Declination N. $15^{\circ} 14' E.$
45.00	Top, 150 ft. above sec. cor. Descend
50.00	Bottom. Ascend along W. slope.
59.00	Descend
65.00	Gulch, 10 lks. wide, brs. SW, 200 ft. below top. Ascend

Chains	
70.00	Top E. slope. Descend
76.59	Gulch, brs. E and W. Contact, lime and porphyry. Ascend
78.70	Top of lime ridge. Descend
80.00	Set a limestone, 18x12x10 ins., 14 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked, 2 notches on S. edge; 2 notches on E. edge; 1 N. on NE face, 15½ E on SE face; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Magnetic declination N. 14° 15' E. Land, mountainous. Soil, gravelly and rocky; 4th and 5th rate. No timber Undergrowth, few Spanish bayonet and catclaw. Mountainous land, exceptional difficulties, 65.00 chs. Mountainous land, 15.00 "
40.00	N. 89° 55' E., on a random line, bet. secs. 23 and 26; Set temp. ¼ sec. cor.
80.11	Intersect N. and S. line, 21 lks. N. of cor. of secs. 23, 24, 25 and 26. Thence I run N. 89° 56' W., on a true line, bet. secs. 23 and 26 Ascending through dense palo verde over mountainous land
5.31	Leave dense palo verde.
18.00	Gulch, 20 lks. wide, brs. SE. Ascend
23.00	Top N. slope of ridge, 500 ft. above sec. cor. Descend
32.65	Gulch, 30 lks. wide, brs. NE, 300 ft. below ridge. Ascend
35.60	Center Arizona & Eastern R.R. track on curve, brs. NE & SW.
40.05½	Set a porphyry stone, 19x8x6 ins., 14 ins. in the 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. Magnetic declination, N. 14° E. November 28, 1910: I set off 21° 15' on the decl. arc; and at 11h 46m a.m., l.m.t., I observe the sun on the meridian, and obtain on the lat. arc, the reading, 33° 25' N.
45.00	Discovery shaft 6x6x10 ft., 15 lks. S. of line.
55.50	Top ridge, brs. NE and SW, 500 ft. above R.R. track. Descend
63.30	Bottom gulch, 10 lks. wide, brs. SW, 350 ft. below ridge.
69.09	Wash, 20 lks. wide, brs. S. Ascend
73.00	Top ridge, brs. N. and S., 175 ft. above wash. Descend
75.50	Gulch, 20 lks. wide, brs. S., 125 ft. below ridge. Ascend
80.11	The cor. of secs. 22, 23, 26 and 27. Land, mountainous Soil, rocky; 4th and 5th rate. No timber Undergrowth, few Spanish bayonet and catclaw. Mountainous land, exceptional difficulties, 80.11 chs.
40.00	S. 89° 57' W., on a random line, bet. secs. 22 and 27. Set temp. ¼ sec. cor.
79.55	Intersect W. Tp. bdy., 2 lks. S. of cor. of secs. 22, 24, 25 and 27 Thence I run N. 89° 58' E., on a true line, bet. secs. 22 and 27. Ascending over mountainous land
2.55	Top ridge, brs. NE and SW, 50 ft. above sec. cor. Descend
10.55	Wash, 50 lks. wide, brs. SW, 125 ft. below ridge. Ascend
12.15	Wagon road, brs. NE and SW.
12.55	Top ridge, brs. NE and SW, 75 ft. above wash. Descend
15.75	Wash, 40 lks. wide, brs. SW, 100 ft. below ridge. Ascend
17.55	Wagon road, brs. NE and SW.
25.35	Top ridge, brs. NE and SW, 150 ft. above gulch. Descend
26.45	Road, brs. NE and SW
29.15	Bottom, gulch, 15 lks. wide, brs. SW, 100 ft. below ridge. Ascend
39.55	On W. slope. Set a quartz stone, 17x9x7 ins., 13 ins. in the 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. Magnetic declination N. 14° 15' E.

Subdivision of Township 1 North, Range 15½ East. 15.

Chains.	
44.05	Top ridge, brs. N and S, 500 ft. above wash. Descend
45.55	Enter Indian graveyard.
50.95	Gulch, 10 lks. wide, brs. S. Ascend
57.50	Top S. slope of ridge. Descend
58.05	Leave Indian graveyard
63.85	Gulch, brs. SE. Ascend
65.55	Top N. slope ridge. Descend
71.05	Shaft, 6x6x10 ft., 55 lks. N. of line. Descend
79.55	The cor. of secs. 22, 23, 26 and 27.
	Land, mountainous.
	Soil, rocky; 4th and 5th rate.
	No timber.
	Undergrowth, Spanish bayonet and nopal.
	Mountainous land, exceptional difficulties, 79.55 chs. November 28, 1910.

	November 29, 1910; At 9h a.m., l.m.t., I set off 21°23' S on the decl. arc; 33°25' on the lat. arc; and determine a meridian with the solar at the cor. of secs. 22, 23, 26 & 27
	Thence I run
	N. 0° 1' W., bet. secs. 22 and 23.
	Over mountainous land.
1.50	Gulch, 15 lks. wide, brs. SE. Ascend along E. slope.
5.00	Small gulch, 20 lks. wide, brs. SE. Ascend
8.00	Top W. slope of ridge, brs. NW and SE, 100 ft. above sec. cor. Descend
15.68	Bottom, junction two gulches, brs. SW, 75 ft. below top. Ascend
32.87	Shaft, 4x6x10 ft.
37.20	Top ridge, brs. SW and NE, 1000 ft. above sec. cor. Descend
40.00	Set a porphyry stone, 18x9x6 ins., 14 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.
	A cedar, 8 ins. diam., brs. N. 62°22' W., 71 lks. dist., marked ¼ S 22 B T No other tree available.
	Magnetic declination, 14° 15' E.
42.30	Gulch, 15 lks. wide, brs. SW, 150 ft. below ridge. Ascend
49.00	Top ridge, brs. E and W, 300 ft. above gulch. Descend
62.30	Trail, brs. NE and SW.
64.90	Gulch, 40 lks. wide, brs. SE, 900 ft. below ridge. Ascend
71.90	Open cut, 6x10x12 ft., 5 lks. E. of line.
79.00	Top ridge, brs. NW and SE, 1000 ft. above gulch.
80.00	On N. slope same hill, set a quartzite stone 18x6x6 ins., 14 ins. in the ground for cor. secs. 14, 15, 22 and 23, marked, 2 notches on E. edge; 3 notches on S. edge; 1-N on NE face; 15½ E on SE face; and raise a mound of stone 2 ft base 1½ ft. high, W. of cor.
	Magnetic declination, 14° 15' E.
	Land, mountainous.
	Soil, rocky; 4th and 5th rate.
	No timber.
	Undergrowth, Spanish bayonet, catclaw and nopal.
	Mountainous land, exceptional difficulties, 80 chs.

	S. 89° 56' E., on a random line, bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor. true pt. for
80.12	Intersect N. and S. line, 4 lks. S. of cor. of secs. 13, 14, 23 and 24.
	Thence I run
	N. 89° 58' W., on a true line, bet. secs. 14 and 23.
	Ascending over mountainous land.
12.00	Leave wash. Ascend
24.00	Old wagon road, brs. NW and SE.
34.30	Center Arizona & Eastern R.R. track, Copper Hill branch on curve, brs. NW and SE, 600 ft. above sec. cor.
37.00	Top N. slope.
40.06	On steep N. slope, set a limestone 19x8x6 ins., 14 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; and raise a

16. Subdivision of Township 1 North, Range 15 $\frac{1}{2}$ East

Chains	mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, N. of cor. November 29, 1910: I set off 21°25'S on the decl. arc; and at 11h 48m a.m., l.m.t., I observe the sun on the meridian; and obtain on the lat. arc, the reading, 33° 26' N.
46.00	Gulch, 20 lks. wide, brs. NE. Ascend
80.12	The cor. of secs. 14, 15, 22 and 23, 900 ft. above $\frac{1}{4}$ sec. cor. Land, mountainous. Soil, rocky; 4th and 5th rate. No timber. Undergrowth, mesquite, palo Cristo. Mountainous land, exceptional difficulties, 80.12 chs.

	Judging by my resurvey of the W. bdy. of Tp. 1 N., R. 15 $\frac{1}{2}$ E., that a random line S. 89°58'W., bet. secs. 15 and 22, will not intersect said bdy. within the limits required for closing, I therefore run S. 89°58'W., on a true line, bet. secs. 15 and 22 Over mountainous land, ascending
2.00	Shaft, 4x6x10 ft., 1 ch. N. of line.
3.00	Top ridge, brs. NW and SE, 75 ft. above cor. Descend
4.00	Open cut, 40 lks. N. of line.
5.30	Shaft, 4x6x10 ft., 45 lks. S. of line.
17.45	Bottom gulch, brs. SE, 150 ft. below ridge. Ascend
20.00	Top ridge, brs. SW and NE, 100 ft. above gulch. Descend
31.00	Gulch, brs. SW, 200 ft. below ridge. Ascend
35.00	Top ridge, brs. NE and SW, 100 ft. above gulch. Descend
40.00	Set a quartzite stone, 18x7x6 ins., 14 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. Magnetic declination, N. 14° 15' E.
40.90	Gulch, 10 lks. wide, brs. NE. Ascend
41.79	Intersect line 3-4 Buckeye mining claim, Survey No. 1106, S. 43°37'W., 11.93 chs. from cor. No. 3; N. 43°37'E., 10.79 chs. from cor. No. 4
46.00	Old shaft, 40 lks. N. of line.
48.00	Top ridge, brs. N and S, 200 ft. above $\frac{1}{4}$ cor. Descend along W. slope
57.25	Transmission line, pipe line, Old Dominion to Buckeye mine, brs. NE and SW.
61.00	Rocky point.
65.00	Top big ledge, brs. NE and SW
61.91	Intersect line 2-3 Annie Laurie mining claim, Survey No. 2297, S. 12°E., 10.00 chs. from cor. No. 2; N. 12°W., 5.61 chs. from cor. No. 3.
65.00	Top big ledge, brs. NE and SW.
69.58	Intersect line 2-3 of Cuprite mining claim, Survey No. 308, S. 19°34'E., 8.59 chs. from cor. No. 3; N. 19°34'W., 0.5 ch. from cor. No. 2.
79.50	Intersect W. bdy. Tp., 1.25 chs. N. of cor. of secs. 13 and 24. Set a quartz stone 24x12x8 ins., in a mound of stone, for C C Secs. 15 and 22, marked C C on E. face; 3 grooves on N. face; 3 grooves on S. face; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high E. of cor. Magnetic declination, N. 14° 15' E. Land, mountainous. Soil, rocky; 4th and 5th rate. No timber. Undergrowth, Yucca, Spanish bayonet, and catclaw. Mountainous land, exceptional difficulties, 79.50 chs. November 29, 1910.

	November 30, 1910: At 9h a.m., l.m.t., I set off 21°33 $\frac{1}{2}$ on the decl. arc; 33°26' N on the lat. arc; and determine a meridian with the solar at the cor. of secs. 14, 15, 22 and 23. Thence I run N. 0° 1' W., bet. secs. 14 and 15. Descending over mountainous land.
8.00	Bottom, gulch, brs. E., 500 ft. below cor. Ascend

Chains.	
13.53	Intersect line 1-2 of Japan mining claim, Survey No. 2297, N. 32° 30' W., 3.23 chs. from cor. No. 2; S. 32° 30' E., 5.86 chs. from cor. No. 1.
22.00	Top, rocky point, 800 ft. above gulch. Descend.
40.00	Set a quartz stone, 18x10x6 ins., 14 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. Magnetic declination, N. 14° 15' E., 800 ft. below ridge
43.00	Wagon road, brs. E. and W.
43.12	Telephone line, brs. E. and W.
47.79	Intersect line 1-4 of the Vulcan mining claim, Survey No. 2297, N. 54° 14' E., 1.66 chs. from cor. No. 1; S. 54° 14' W., 19 chs. from Cor. No. 4.
49.23	Gulch, 30 lks. wide, brs. NE. Ascend
49.30	Intersect line 2-3 of Black Hawk mining claim, Survey No. 524, S. 53° 25' W., 6.95 chs., from Cor. No. 3; N. 53° 25' E., 13.59 chs. from Cor. No. 2.
51.50	Top ridge, brs. E and W. Descend
54.70	Wagon road, brs. NE and SW.
55.10	Center Arizona & Eastern R.R. track, Copper Hill branch, brs. SE and NW.
58.00	Two oil tanks, 30 ft. in diam., 25 lks. apart, E and W. of line
58.49	Intersect line 5-6 of Black Hawk mining claim, Survey No. 524, S. 58° 58' W., 1.94 chs. from Cor. No. 5; N. 58° 58' E., 18.60 chs. from Cor. No. 6.
59.79	Intersect line 3-4 of Wedge mining claim, Survey No. 2297, S. 28° 49' E., 1.49 chs. from Cor. No. 3; N. 28° 49' W., 5.80 chs. from Cor. No. 4.
60.20	Bottom wash, 30 lks. wide, brs. E. Ascend
60.70	Wooden aqueduct, brs. E and W.
61.60	Intersect line 2-3 of Wedge mining claim, Survey No. 2297, S. 55° 09' W., 2.31 chs. from Cor. No. 2; N. 59° 09' E., 0.87 chs. from Cor. No. 3.
65.00	4 chs. E. to shaft house and workings Superior & Boston Mining Co. About 10 chs. W. to concentrator, smelter and shaft house Arizona Commercial Mining Co.
69.90	Warehouse Superior & Boston Mining Co., on line.
74.00	Gulch, 20 lks. wide, brs. E. Ascend
79.00	Top of hill. Descend
80.00	Set a porphyry stone, 18x6x6 ins., 14 ins. in the ground for cor. secs. 10, 11, 14 and 15; marked, 2 notches on E. edge; 4 notches on S. edge; and raise mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Magnetic declination, N. 14° 15' E. Land, mountainous. Soil, rocky; 4th and 5th rate. No timber. Undergrowth, scrub oak and mesquite. Mountainous land, exceptional difficulties, 160.43 chs.

	November 30, 1910: I set off 21° 35' S on the decl. arc; and at 11h 49m a.m., l.m.t., observe the sun on the meridian, and obtain on the lat. arc, the reading 33° 26' N. Thence I run S. 89° 58' E., on a random line, bet. secs. 11 and 14.
39.98	Intersect N. and S. line, 3 lks. S. of cor. secs. 11, 12, 13 and 14 Thence I run N. 89° 59' W., bet. secs. 11 and 14 Descending over mountainous land
40.00	Set temp. 1/4 sec. cor.
79.96	Intersect N. and S. line, 3 lks. S. of cor. secs. 11, 12, 13 and 14 Thence I run N. 89° 59' W., bet. secs. 11 and 14 Descending over mountainous land
4.00	Bottom wash, brs. S.
8.00	Fence, brs. SE and NW.
9.50	Ascend
11.00	Top, 6 ft. above wash. Descend
14.00	Bottom, wash, brs. S. Ascend
15.00	Top ridge, brs. N and S, 50 ft. above wash. Descend

Subdivision of Township 1 North, Range 15 $\frac{1}{2}$ East

Chains	
22.00	Wash, running water, 40 lks. wide, brs. S. and SE, 150 ft. below ridge. Ascend
37.50	Wagon road, brs. N and S.
39.98	Set a porphyry, 18x8x6 ins., 14 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. Magnetic declination, N. 14° 15' E.
44.00	Top of ascent on S. bank of wash. Descend
45.00	Bottom, wash, 20 lks. wide, running water. Ascend along S. slope. Course of wash, NE.
50.00	Top of S. slope of ridge. Descend
54.00	Ascend 350 ft. to cor.
79.96	The cor. of secs. 10, 11, 14 and 15. Land, mountainous. Soil, rocky and gravelly; 3rd, 4th and 5th rate. No timber. Undergrowth, mesquite and catclaw. Mountainous land, exceptional difficulties, 79.96 chs.

	Judging by my retracement of the W. bdy. of the Tp., that a random course S. 89° 58' W., bet. secs. 10 and 15, will not intersect the W. bdy. of the Tp., within the limits for closing
	I run S. 89° 58' W., on a trueline, bet. secs. 10 and 15. Ascending over mountainous land.
12.20	A tunnel, 4x6 ft. x 60 ft. Long, 0.5 chs. N. of line
17.65	Top of small hill, 300 ft. above sec. cor. Descend
25.00	Gulch, 25 lks. wide, brs. NE. Ascend
28.30	Gulch, 20 lks. wide, brs. NE. Ascend steep, rocky black butte
40.00	Set a porphyry stone, 18x8x6 ins., 14 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. Magnetic declination, N. 14° 15' E. On steep E. slope of black butte.
48.00	Top of ascent, S. slope of black butte, 2 chs. N. of top of black butte, 600 ft. above gulch. Descend along W. slope
62.00	Intersect line 2-3 of O' Dougherty M.O., Survey No. 433; N. 31° 30' E., 0.49 chs. from cor. No. 2; S. 31° 30' W., 22.24 chs. from Cor. No. 3.
67.20	Tunnel, brs. NE.
68.25	60 ft. bluff.
73.50	Wagon road, brs. NW and SE.
74.71	Intersect line 5-6 of Big Johnny M.C., Survey No. 434, S. 50° 18' W., 7.51 chs. from Cor. No. 6.
79.50	Center wash, 50 lks. wide, brs. SW.
79.76	Intersect W. bdy. of Tp., 2.24 chs. N. of cor. of secs. 10, 12, 13 and 15. Point for cor. falls in wash.
80.00	On W. bank of wash. Set a porphyry stone, 18x6x6 ins., 14 ins. in the ground for witness cor. of secs. 10 and 15, marked 2 grooves on N. & 4 grooves on S. face; W C C Con. E. face N on NE face; 15 $\frac{1}{2}$ E on SE face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor. Magnetic declination, N. 14° 15' E. Land, mountainous. Soil, rocky; 4th and 5th rate. No timber. Mountainous land, exceptional difficulties, 107 chs. November 30, 1910.

	December 1, 1910: I set off 21° 43' S on the decl. arc; 33° 26' N on the lat. arc, and at 9h a.m., l.m.t., determine a true meridian with the solar. Thence I run N. 0° 1' W., bet. secs. 10 and 11 Over mountainous land, descending

Subdivision of Township 1 North, Range 15 1/2 East. 19.

Chains.	
2.77	Road, brs.E and W.
3.20	Gulch, 20 lks.wide, brs.NE. Ascend
5.00	Top ridge, brs.NE and SW. Descend
13.00	Gulch, 15 lks.wide, brs.NE, 100 ft. below ridge. Ascend
17.00	Top ridge, brs.E and W, 75 ft. above gulch. Descend
19.40	Gulch, 10 lks.wide, brs.NE. Ascend
21.00	Top ridge, brs.E and W. Descend
21.50	Wagon road, brs.NW and SE. Ascend
23.00	Gulch, brs.E. Ascend
35.70	Top hill, 200 ft. above gulch.
40.00	Set a porphyry stone, 18x10x6 ins., 14 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. Magnetic declination, N. 14° 15' E.
41.50	Gulch, 20 lks.wide, brs.NE, 100 ft. below ridge. Ascend
49.50	Top ridge, brs.NW and SE, 200 ft. above gulch.
54.50	Top (E. slope of ridge. Descend
61.50	Gulch, 10 lks.wide, brs.NE, 100 ft. below ridge. Ascend
62.80	Shaft, 6x10x10 ft. Top of hill. Descend
65.60	Wash, 50 lks.wide, brs.SE. Ascend
66.30	Wagon road, brs.NW and SE.
70.70	Ascend along W. slope of bluff.
74.40	Gulch, 10 lks.wide, brs.W. Ascend
75.40	Top ridge, brs.W. Descend
76.70	Gulch, 15 lks.wide, brs.W. Ascend
7.09	Intersect line 2-6 of Telfair M.C., Survey No. 667, N. 37° 30' W 5.15 chs. from Cor. No. 6; S. 37° 30' E., 3.93 chs. from Cor. No. 2.
12.20	Intersect line 2-3 of Telfair M.C., Survey No. 667, N. 50° 05' E 3.11 chs. from Cor. No. 2; S. 50° 05' W., 15.13 chs. from Cor. No. 3.
80.00	Set a porphyry stone, 18x12x8 ins., 14 ins. in the ground, for cor. secs. 2, 3, 10 and 11; marked, 2 notches on E. edge; 5 notches on S. edge; 1 N on NE. face; 15 1/2 E. on SE face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of Cor. Magnetic declination, N. 14° 15' E. Land, mountainous. Soil, gravelly and rocky; 3rd, 4th and 5th rate. No timber. Undergrowth, scrub mesquite and palo Cristo, catclaw, Spanish bayonet and nopal. Mountainous land, exceptional difficulties, 80.00 chs.

	Thence I run S. 89° 59' E., on a random line, bet. secs. 2 and 11
40.00	Set temp. 1/4 sec. cor.
79.82	Intersect N. and S. line at cor. of secs. 1, 2, 11 and 12 Thence I run N. 89° 59' W., on a true line, bet. secs. 2 and 11
2.00	Descending over mountainous land Wash, 20 lks.wide, brs.SW. Ascend
10.50	Ridge, brs.N and S. Descend
16.10	Barbed wire fence, brs.NE and SW.
16.60	Gulch, 50 lks.wide, brs.SW. Ascend
23.00	Top ridge, brs.NE and SW. Descend
27.00	Wagon road, Fame mine to Globe, brs.NE and SW.
33.00	8 chs. S. to slaughter house.
39.91	Set a porphyry stone, 18x10x8 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.
46.00	Gulch, 10 lks.wide, brs.SW.
48.70	Wash, 2 chs.wide, brs.SE. Ascend
61.80	Wagon road, brs.NW and SE.
74.50	Top ridge, brs.NE and SW.
79.82	The cor. of secs. 2, 3, 10 and 11. Land, mountainous. Soil, gravelly and rocky; 3rd, 4th and 5th rate.

20. Subdivision of Township 1 North, Range 15 $\frac{1}{2}$ East.

Chains. No timber.

Mountainous land, 79.82 chs.

Magnetic declination, N. 14° 15' E.

December 1, 1910: I set off 21° 45' on the decl. arc; and at 11h 49m a.m., l.m.t., observe the sun on the meridian, and obtain on the lat. arc, the reading, 33° 27' N.

Judging from my retracement of the W. Tp. bdy., that a random line S. 89° 58' W., bet. secs. 3 and 10, will not intersect the W. Tp. bdy. within the limits for closing;

Therefore I run

S. 89° 58' W., on a true line, bet. secs. 3 and 10
Descending over mountainous land

- 6.00 Wagon road, hrs. NE and SW.
7.80 Gulch, 40 lks. wide, hrs. SE. Ascend
9.50 Top small ridge, hrs. NE and SW. Descend
11.00 Wash, 40 lks. wide, hrs. E. Ascend along wash.
14.00 Leave wash. Ascend
19.70 Shaft 4x6x10 ft. on line.
28.50 Wash, 40 lks. wide, hrs. SE. Ascend
31.00 Gulch, 30 lks. wide, hrs. NE. Ascend.
38.00 Top ridge, hrs. NW and SE. Descend
40.00 Set a porphyry stone, 18x12x8 ins., 14 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.
Magnetic declination, N. 14° 15' E.
Bottom along South slope.. Ascend
47.00 Top E. slope of ridge.
50.00 Top W. slope of ridge. Descend
56.60 Gulch, 10 lks. wide, hrs. SE. Ascend
59.40 Top ridge, hrs. NW and SE. Descend
60.60 Gulch, 10 lks. wide, hrs. SE. Ascend
72.00 Top ridge, hrs. N and S. Descend 300 ft.
79.50 Intersect W. bdy. of Tp., 2.24 chs. N. of cor. of secs. 1 and 12, reestablished by me.
Set a porphyry stone, 18x10x6 ins., 14 ins. in the ground, for ~~xxxxxxx~~ for cor. of secs. 3 and 10, marked 1 notch on N. edge; 5 notches on S. edge; 1 N on NE face; 15 $\frac{1}{2}$ E on SE face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor.
Land, mountainous.
Soil, gravelly and rocky; 4th and 5th rate.
No timber.
Mountainous land, exceptional difficulties, 79.50 chs.

N. 0° 1' W., on a random line, bet. secs. 2 and 3.

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

80.51 Intersect N. Tp. bdy., 35 lks. W. of cor. of secs. 2 and 3

Thence I run

S. 0° 14' W. on a true line, bet. secs. 2 and 3.

Over mountainous land, descending over S. slope

40.51 The point for $\frac{1}{4}$ sec. cor. falls in a wash, 2 chs. wide, SE.39.13 Set a quartz stone, 18x8x6 ins., 14 ins. in the ground, for ~~xxx~~ witness cor. $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of Cor.

Magnetic declination, N. 14° 15' E.

N. 83° 18' W., 20/41 chs. to Cor. No. 4 Centennial M.C., Survey No. 406, ~~xxxxxxx~~ from which a pile of rock, hrs.

N. 28° 53' W., 93 lks., which I judge to be remains of

U.S.M.M. No. 8

46.50 Leave wash. Ascend

51.50 Wagon road, hrs. NW and SE.

65.60 Top ridge. Wagon road, hrs. NW and SE. Descend

76.25 Wagon road, hrs. NE and SW.

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

Land, mountainous.

Soil, gravelly and rocky; 3rd, 4th and 5th rate.

No timber. Undergrowth, catclaw and mesquite in gulches.

Mountainous land, 80.51 chs.

Subdivision of Township 1 North, Range 15 $\frac{1}{2}$ East, 21.

December 1, 1910.

December 1, 1910: at 3h p.m., l.m.t., at my camp, I set off $21^{\circ}46'$ on the decl. arc; $33^{\circ}26'$ on the lat. arc; and mark the meridian thus determined by a groove on a stone, set 5 chs. N. of my station.

December 2, 1910: at 2h 44m a.m., l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual, and mark the line thus determined by a tack in a wooden peg, set in the ground, 5 chs. N. of my station.

December 2, 1910: at 8h a.m., l.m.t., I turn off the azimuth of Polaris, $1^{\circ}24'$ to the E., and mark the meridian thus determined by cutting a mark on the stone set last evening, which falls 0.4 ins. E. of mark determined by p.m. solar observation.

December 2, 1910: at 9h a.m., l.m.t., I set off $21^{\circ}52'$ on the decl. arc; $33^{\circ}26'$ on the lat. arc; and mark the meridian thus determined by a groove on the stone 5 chs. N. of my station, which mark falls 0.3 ins. E. of mark determined by Polaris observation.

I therefore judge that my instrument is in correct adjustment.



U.S. Deputy Surveyor.

December 2, 1910.

Red ink corrections outlined by letter from Deputy, dated Nov. 21 - 1911.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Pascas C. Ham
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of

TIN RIST + 16 E

showing the respective capacities in which they acted:

Curry Bell, Chairman.

Arthur H. Cooper, Chairman.

José Ortega, Moundman.

....., Moundman.

....., Axman.

....., Axman.

Philip Bell, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Pascas C. Ham
....., United States Deputy Surveyor, in surveying all

those parts or portions of the TIN RIST + 16 E
.....

..... of the

G + S R 94 meridian, of Arizona which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor

General for Arizona

Curry Bell, Chairman.

Arthur H. Cooper, Chairman.

José Ortega, Moundman.

....., Moundman.

....., Axman.

....., Axman.

Philip Bell, Flagman.

Subscribed and sworn to before me this 2
day of December, 1910



Pascas C. Ham
U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Russell Ham, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S Ingalls, United States Surveyor General for Arizona, bearing date of the 5th day of January, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of T. 1 N. R. 15 1/2 + R. 16 E. E. + S. 4 B. + M.

of the Tula and Salt River Base meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Russell Ham
United States Deputy Surveyor.

Subscribed by said Russell Ham, and sworn to before me
this 6 day of December, 1910

W. H. ...



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz MAY 14 1913

The foregoing field notes of the survey of the retracement of the West Boundary of T. 1 N. R. 15 1/2 E. and Subdivisions of fractional T. 1 N. R. 15 1/2 E. of the Tula and Salt River Base and Meridian, Arizona

executed by Russell E. Ham, U.S.D.
under his contract No. 162, dated January 5, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S Ingalls
United States Surveyor General.

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

United States Surveyor General.