

2787

BOOK 2787

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4-679.

Book "G"

# FIELD NOTES

OF THE SURVEY OF THE

*Subdivision of T6 N. R. 4 E*

Of the *Gila and Salt River Base* Meridian,

*Arizona*

AS SURVEYED BY

*Roscoe C. Adams*, United States Deputy Surveyor,

Under his Contract No. *162*, dated *Jan 5*, 19*10*

Survey commenced *Dec 28*, 19*10*

completed *Jan 22*, 19*11*

NAMES AND DUTIES OF ASSISTANTS.

R B Miller

Chairman

E E Ross

L M Smith

Wardman

T T Pope

W G Smith

Barman

Clue Moore

Andy Schermyer

Steward

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Township 6N R. 4E.

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*Supplement to Book 2787*

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PRELIMINARY OATHS OF ASSISTANTS.

WE, R B Miller and E E Barr  
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 Subs of T671 R4 E

R B Willis, Chainman.  
E E Barr, Chainman.

Subscribed and sworn to before me this 11<sup>th</sup>  
day of Dec, 1910



WE, Geo W Bond and T Thorne  
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 Subs of T671 R4 E

George W Bond, Moundman.  
T Thorne, Moundman.

Subscribed and sworn to before me this 11<sup>th</sup>  
day of Dec, 1910



WE, Clare Inear and W G Smith  
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 Subs of T671 R4 E

Clare Inear, Axman.  
W G Smith, Axman.

Subscribed and sworn to before me this 11<sup>th</sup>  
day of Dec, 1910



I, A H Schramm, 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 Subs of T671 R4 E

A H Schramm, Flagman.

Subscribed and sworn to before me this 11<sup>th</sup>  
day of Dec, 1910



Rose G Mann  
U S Deputy Surveyor

4751 N. Fifteenth St.  
120 Morningside NE

Phoenix, Arizona 85014  
Albuquerque, N.M. 87108

602-264-1397  
505-265-0727

1D

Boyd Owens said to place this letter with the field notes for 19 N., 20 W. for information purposes only.  
6-12-79 ml

RECEIVED  
B.L.M. AZ STATE OFFICE

JUN 12 1979

10:00 A.M.  
PHOENIX, ARIZONA

PRINCIPALS:  
CARL H. ADAM, P.E.  
RICHARD L. HAMLYN, P.E.  
JAMES D. ANDERSON, P.E.  
DOYLE L. WISTE, P.E.

ASSOCIATE:  
JOHN F. SPISZ, P.E.

June 11, 1979

Bureau of Land Management  
201 North Central Avenue  
Phoenix, Arizona 85003

Gentlemen:

Recently our firm was engaged in a survey of a portion of the East 1/2 of Section 29 and the West 1/2 of Section 28, Township 6 North, Range 4 East, of the Gila and Salt River Base and Meridian, Maricopa County, Arizona.

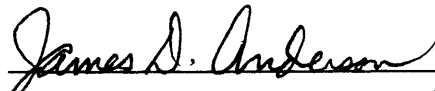
We obtained through your office a copy of the original survey notes for the subdivision of the above mentioned Township, shown as Book "G", Contract Number 162, dated January 5, 1910; and recorded as Book 2787.

During the course of our survey field work we found two porphyry stones lying loose on the ground, and in close proximity evidence of two rock cairns which had been disturbed by campers to be used as fire pits. We were able to determine by use of the original field notes, that the one stone was in fact the 1/4 corner between said Sections 28 and 29, and the other stone was the South 1/4 corner of said Section 29. This fact was ascertained by locating the bearing trees as called out in the original field notes.

On May 30, 1979, under my direction, and using the original field notes to duplicate the location of said Stones, a 2" diameter crown head brass cap was driven affixed into a 4' long galvanized steel pipe, placed in the ground at natural ground elevation, and reinforced with placed concrete. The brass caps were stamped respectively; E 1/4 29 E 1/4 28 and S 1/4 29 N 1/4 32, thereby perpetuating the original corners as established in the original survey.

If we can be of any further assistance in this matter, please contact me at our office.

Very truly yours,



James D. Anderson, Registered Land Surveyor 9075

JDA/bh

## Subdivision of Township 6 North, Range 4 East.

1E

Chains	Survey commenced December 28, 1910, and executed with a Young and 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. The instrument was examined, tested on the true meridian at Phoenix, found correct and was approved by the Surveyor General for Arizona. I examine the adjustments of the transit, and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows: At the cor. of secs. 1, 2, 35 and 36, latitude 33° 48' 40" N. Long., 111° 54' 26" W., I set off 23° 16' S., on the decl. arc, 33° 49' N., on the lat. arc, and at 3 h. p.m., l.m.t., determine with the solar a meridian, and mark the meridian thus determined by a stone firmly set in the ground 5.00 chs. N. of the cor. At 12 h. 57 m., a.m., l.m.t., Dec. 29, 1910, I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, by a tack in a wooden stake set firmly in the ground, 5.00 chs. N. of my station. December 29, 1910: at 8 h., a.m., l.m.t., I lay off the azimuth of Polaris, 1° 24' to the east, and mark the meridian thus determined by a cross (X) on the stone set December 28, 1910, on which the meridian falls 0.2 ins. east of the mark determined by the solar. December 29, 1910: at 9 a.m., l.m.t., I set off 23° 13' 30" S., on the decl. arc; 33° 49' 00" N., on the lat arc, and mark the meridian thus determined by a groove on the stone already set 5.00 chs. N. of my station; this mark falls 0.2 ins. E. of the meridian established by Polaris observation. I, therefore, conclude that the adjustments of the instrument are satisfactory. Thence I run N. 0° 1' W., bet. secs. 35 and 36. Over mountainous and rolling land, descending.
1.40	Wash, 10 lks. wide, course W, ascend.
2.00	Top of ascent, descend.
3.15	Wash, 1.25 chs. wide, course S.W., ascend 30 ft.
8.00	Top of ascent, descend.
13.00	Enter dense palo verde.
13.75	Bottom of slope, ascend 20 ft.
15.00	Leave dense palo verde.
16.25	Road, McDowell to Cave Creek, brs. N.W. and S.E., descend.
18.10	Bottom of slope, wash 15 lks. wide, course S.W., ascend.
20.15	Top of ascent, descend.
21.50	Wash, 10 lks. wide, course S.W., ascend.
23.25	Top of ascent, gradual descent 50 ft.
27.80	Wash, 20 lks. wide, course W., ascend 40ft.
29.15	Enter dense palo verde.
30.45	Top of ascent, leave dense palo verde, descend.
34.85	Wash, 20 lks. wide, course S.W., ascend 50 ft.
36.50	Top of ascent, descend.
40.00	Set a limestone 15 x 10 x 4 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which A palo verde 3 ins. in diam., brs. S. 81° 30' W., 62 lks. dist., marked $\frac{1}{4}$ S 35 B T. A palo verde, 4 ins. in diam., brs. N. 62° 34' E., 94 lks. dist., marked $\frac{1}{4}$ S 36 B T. Thence over rolling land, descending.
42.00	Wash, 30 lks. wide, course N.W., ascend.
43.00	Top of ascent, descend 30 ft.
45.12	Wash, 30 lks. wide, course N.W., ascend.
48.00	Top of ascent, descend.
50.25	Bottom of descent, ascend 20 ft.
51.70	Top of ridge, brs. N.W. and S.E., descend 15 ft.
53.70	Wash, 15 lks. wide, course N.W., ascend.
57.20	Top of ascent, descend.
59.25	Enter wash, course NW.

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## Subdivision of Township 6 North, Range 4 East.

Chains	
62.30	Leave wash, ascend 50 ft.
64.35	Top of ascent, descend 35 ft.
66.85	Wash, 40 lks. wide, course N.W., ascend.
71.00	Top of ascent, descend.
75.85	Wash, 10 lks. wide, course S.W., ascend.
77.00	Top of ascent, descend.
78.05	Palo verde, 10 ins. in diam., on line.
79.50	Palo verde, 4 ins. in diam., on line.
80.00	Set a limestone, 15 x 12 x 4 ins., 10 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. edge, and 1 notch on E. edge; 6 N on N.E., face; 4 E on S.E. face; from which
	A palo verde 3 ins. in diam., brs. N. 61° 25' E., 1.15 chs. dist., marked T 6 N R 4 E S 25 B T.
	A palo verde 4 ins. in diam., brs. S. 82° 15' E., 1.25 chs. dist., marked T 6 N R 4 E S 36 B T.
	A palo verde 3 ins. in diam., brs. S. 10° W., 40 lks. dist., marked T 6 N R 4 E S 35 B T.
	A palo verde 3 ins. in diam., brs. N. 89° 05' W., 50 lks. dist., marked T 6 N R 4 E S 26 B T.
	Land, mountainous and rolling.
	Soil, gravelly and rocky, 2nd and 3rd rate.
	Undergrowth, scrub palo verde and mesquite.
	No timber.
	Mountainous land, exceptionally difficult to survey, 80.00 chs.
	-----
	From the cor. of secs. 25, 26, 35 and 36, I run N. 89° 58' E.; on a random line, bet. secs. 25 and 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect E. bdy. of the Tp. 5 lks. S. of the cor. of secs. 25; 30, 31 and 36.
	Thence I run S. 89° 56' W., on a true line bet. secs. 25 and 36, descending.
6.20	Wash, 10 lks. wide, course S.W., ascend.
10.00	Top of ascent, descend 30 ft.
21.90	Bottom of descent; ascend 20 ft., enter dense undergrowth.
23.00	Top of ridge, brs. N. and S., descend steep slope 30 ft.
25.60	Wash, 10 lks. wide, course S., ascend.
26.35	Top of ascent, descend 20 ft.
27.70	Wash, 10 lks. wide, course S.W., ascend 20 ft.
29.40	Top of slope, brs. N.E. and S.W., descend.
34.00	Wash, 10 lks. wide, course S.W., ascend 25 ft.
35.70	Top of slope, brs. N.E. and S.W., descend.
40.06	Set a sandstone, 14 x 10 x 6 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which
	A palo verde 4 ins. in diam., brs. N. 63° 58' W., 72 lks. dist., marked $\frac{1}{4}$ S 25 B T.
	A palo verde 3 ins. in diam., brs. S. 21° 49' E., 50 lks. dist., marked $\frac{1}{4}$ S 36 B T.
	Magnetic declination N. 14° 35' E.
	December 29, 1910: I set off 23° 14' S., on the decl. arc, and at 12 h. 2 m., p.m., l.m.t., I observe the sun on the meridian, and obtain on the lat. arc, the reading 33° 50' N.
44.75	Bottom of descent, ascend.
48.00	Top of ridge, brs. N.E. and S.W., descend 40 ft.
54.30	Wash, 10 lks. wide, course S.W., ascend.
57.00	Top of ascent, descend.
57.65	Palo verde, 10 ins. in diam., on line.
62.50	Bottom of descent, ascend 20 ft.
63.55	Top of ascent, descend 30 ft.
66.00	Bottom of descent, ascend.
68.70	Top of ascent, descend.
70.00	Bottom of descent.
72.85	Wash, 10 lks. wide, course S.W., ascend.
75.00	Top of slope, brs. N.E. and S.W., descend 25 ft.
78.00	Leave dense undergrowth.
80.12	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous and rolling.
	Soil, 2nd and 3rd rate.

## Subdivision of Township 6 North, Range 4 East.

3

Chains	No timber. Undergrowth: dense palo verde, palo cristo and mesquite. Land mountainous and rolling, extremely difficult to survey, 80.12 chs.
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	N. 0° 1' W., bet. secs. 25 and 26. Ascending over rolling land.
2.50	Top of ridge, brs. N.E. and S.W., descend 40 ft.
5.40	Enter wash, course S.W.
10.95	Road, brs. E. and W.
12.00	Leave wash, ascend 40 ft.
14.95	Palo verde, 10 ins. in diam., on line.
21.00	Top of ascent, brs. N.E. and S.W., descend 50 ft.
26.00	Palo verde, 5 ins. in diam., on line.
30.95	Wash, 75 lks. wide, course S.W., ascend 60 ft.
33.70	Top of ascent, descent 40 ft.
36.45	Wash, 10 lks. wide, course S.W., ascend 125 ft.
38.20	Top of ridge, brs. N.E. and S.W., descend along wash.
40.00	$\frac{1}{4}$ cor. secs. 25 and 26 on S. slope near bottom. Set a sandstone, 15 x 8 x 6 ins., 10 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° 35' E. Thence ascend over rolling land, 75 ft.
45.50	Top of ascent, descend 80 ft.
52.00	Enter dense palo verde.
53.25	Wash, 15 lks. wide, course S.W., leave dense palo verde, ascend 50 ft.
57.50	Top of ascent, descend 40 ft.
64.60	Wash, 25 lks. wide, course S.W., ascend.
71.00	Top of ascent, descend 25 ft.
73.85	Bottom of descent, ascend 30 ft.
75.00	Top of ascent, descend steep slope to wash.
78.00	Bottom of steep slope, descend to wash.
80.00	Set a porphyry stone, 14 x 6 x 4 ins., 10 ins. in the ground for cor. of secs. 25, 26, 23 and 24, marked with 2 notches on S. edge, 1 notch on E. edge, 6 N on N.E. face, 4 E on S.E. face, from which A mesquite 5 ins. in diam., brs. N. 69° 53' E., 132 lks. dist., marked T 6 N R 4 E S 24 B T. A mesquite 4 ins. in diam., brs. S. 68° 10' E., 145 lks. dist., marked T 6 N R 4 E S 25 B T. A palo verde 3 ins. in diam., brs. S. 27° 30' W., 144 lks. dist., marked T 6 N R 4 S 26 B T. A palo verde 4 ins. in diam., brs. N. 83° 40' W., 81 lks. dist., marked T 6 N R 4 E S 23 B T. Land, rolling. Soil, gravelly and rocky, 2nd and 3rd rate. No timber. Undergrowth: palo verde, scrub mesquite and ocotillo. Land, rolling, 80.00 chs. December 29, 1910.
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	Nov. 30, 1911, At the cor. of secs. 23, 24, 25, and 26, I set off 21° 31' S., on the decl. arc, 33° 50' on the lat. arc, and at 9 a.m., l.m.t., determine a meridian with the solar. Thence I run, N. 89° 55' E., on a random line, bet. secs. 24 and 25. Over rolling and mountainous land, ascending from wash.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect E. Bdy. of Tp. 33 lks. N. of cor. of secs. 24 and 25. Thence I run, N. 89° 51' W., on a true line bet. secs. 24 and 25. Ascending 75 ft. from cor. through dense ocotillo.
6.50	Top of ascent, descend 50 ft.
16.00	Bottom of descent, ascend 40 ft.
24.00	Top of ascent, descend 60 ft.
30.65	Bottom of descent, ascend 40 ft.
36.00	Top of ascent, descend 60 ft.



Chains	
40.01	Set a porphyry stone 14 x 12 x 8 ins., 10 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. Thence descending.
50.00	Bottom of descent, ascend 20 ft.
50.65	Top of ascent, descend and enter dense palo verde.
54.00	Leave dense palo verde.
57.50	Bottom of descent, ascend steep slope, 100 ft.
61.25	Top of ascent, descend 50 ft.
68.35	Bottom of descent, ascend 50 ft.
74.00	Top of ascent, descend steep slope 75 ft.
80.02	The cor. of secs. 23, 24, 25 and 26, as heretofore described. Land mountainous and rolling. Soil gravelly and rocky, 2nd and 3rd rate. No timber. Undergrowth: palo verde, mesquite, cat-claw, and ocotillo. Mountainous land, or land covered with dense brush, 76.67. Mountainous land, or land covered with dense brush, and exceptionally difficult to survey 5.41 chs. Nov. 30, 1911.
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	December 30, 1910: At 9 a.m., l.m.t., I set off $23^{\circ} 10'$ S., on the decl. arc, $33^{\circ} 50'$ N., on the lat. arc; and determine a meridian with the solar at the corner of secs. 23, 24, 25 and 26, thence I run N. $0^{\circ} 1'$ W., bet. secs. 23 and 24. Over mountainous land, through wash.
2.45	Enter wash, course S.W.
3.40	Leave wash, ascend 10 ft.
4.30	Top of ascent, descend.
6.50	Bottom of descent, ascend steep slope 150 ft.
13.50	Top of ascent, brs. N.E. and S.W., descend 90 ft.
18.65	Wash 25 lks. wide, course S.W., ascend 110 ft.
23.00	Enter dense ocotillo.
25.30	Road from Oriental mine to Cave Creek, brs. E. and W.
26.00	Top of slope, brs. E. and W., descend 60 ft.
27.00	Leave dense ocotillo.
32.50	Bottom of slope, draw, course W., ascend 50 ft.
33.25	Top of rolling mesa.
36.00	Descend steep slope.
36.95	Enter wash, course W.
40.00	Point for $\frac{1}{4}$ sec. cor., falls in wash.
41.50	Set a porphyry stone, 15 x 8 x 6 ins., 10 ins. in the ground for witness cor. to $\frac{1}{4}$ 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. $14^{\circ}$ E. Thence ascend 50 ft. to rolling mesa; sloping to N.W.
51.50	Leave rolling mesa, descend 60 ft.
54.25	Top steep bank, descend 75 ft.
56.00	Enter wash, course W.
58.40	Leave wash, ascend steep E. slope of rocky mountain covered with boulders with great difficulty 200 ft.
77.30	Top of ascent, brs. E. and W., descend 20 ft.
77.85	Bottom of draw, course E., ascend 75 ft. to cor.
80.00	Set a porphyry stone 15 x 6 x 6 ins., 10 ins. in the ground for cor. of secs. 13, 14, 23 and 24, marked with 1 notch on E. edge, 3 notches on S. edge; 6 N on N.E. face, 4 E on S.E. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land rolling and mountainous. Soil, clay, gravelly and rocky, 2nd, 3rd, 4th and 5th rate. No timber. Undergrowth: scrub mesquite and palo verde. Mountainous land, 58.40 chs. Mountainous land, very steep slopes, and exceptionally difficult to survey, 21.60 chs.
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## Subdivision of Township 6 North, Range 4 East

5

Chains	From the cor. of secs. 13, 14, 23 and 24, I run S. 89° 56' E., on a random line, bet. secs. 13 and 24. Descending over mountainous land with great difficulty.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect E. bdy. of the Tp. 19 lks. N. of cor. of secs. 13, 18, 19 and 24. Thence I run N. 89° 48' W., on a true line, bet. secs. 13 and 24. Over steep ascent from Oriental wash 200 ft.
5.60	Top of ridge, brs. S.E. and N.W., descend 75 ft.
9.25	Bottom of draw, course S.E., ascend 75 ft.
10.15	Top of ridge, brs. S.E. and N.W., descend.
12.00	Bottom of ridge, ascend 175 ft.
14.25	Top of ridge, brs. N. and S., descend 125 ft.
19.75	Bottom of ridge brs. N.E. and S.W., ascend 250 ft.
25.80	Top of ridge, brs. N.E. and S.W., descend N. slope of mountain 25 ft.
33.65	Draw, 20 ft. wide, course N.W., ascend 30 ft.
34.00	Top of ascent, descend to cor.
40.10	Set a sandstone 18 x 8 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. Magnetic declination N. 14° E.
	December 30, 1910: I set off 23° 10' S., on the decl. arc, and at 12 h. 2 m., p.m., l.m.t., I observe the sun on the meridian, and obtain on the lat. arc the reading 33° 51' N. Thence I descend over rocky mountain slope to canyon.
42.00	Enter dense underbrush.
46.55	Bottom of canyon 25 lks. wide, course S., leave dense mesquite underbrush, ascend along S.E. bank.
49.85	Leave canyon, ascend steep side of canyon 150 ft.
54.30	Top of ridge brs. N. and S., descend 75 ft.
56.00	Bottom of wash 1.00 ch. wide, course S.E.
57.00	Ascend 150 ft.
62.50	Top of ridge, brs. N.E. and S.W., descend 175 ft.
69.70	Bottom of ridge, ascend 50 ft.
74.00	Top of ridge brs. N. and S., descend 150 ft.
74.60	Bottom of canyon brs. S., ascend 25 ft.
76.30	Gully course S.E., ascend 150 ft.
80.20	The cor. of secs. 13, 14, 23 and 24. Land very mountainous. Soil, rocky, 4th and 5th rate. No timber. Undergrowth: palo verde and mesquite. Mountainous land, very broken or covered with dense underbrush and exceptionally difficult to survey 80.20 chs.
	December 30, 1910.
	December 31, 1910: At 9 a.m., l.m.t., I set off 23° 06' S. on the decl. arc, 33° 51' N., on the lat. arc, and determine a meridian with the solar at the corner of secs. 13, 14, 23 and 24. Thence I run N. 0° 1' W., bet. secs. 13 and 14. Over a very mountainous, rocky slope, descending 50 ft.
1.90	Bottom of draw, course E., ascend 125 ft.
5.00	Top of ascent, brs. S.E. and N.W., descend 100 ft.
9.25	Bottom of gulch, course S.E., ascend 20 ft.
11.00	Top of ridge, brs. N.E. and S.W., descend 100 ft.
15.40	Bottom of gulch, course S.W., steep, rocky ascent 300 ft.
25.00	Top of ridge, brs. N.E. and S.W., descend 75 ft.
27.95	Bottom of gulch, course N.W., ascend 100 ft.
31.00	Ridge, brs. N.W. and S.E., descend 50 ft.
32.10	Gulch, course N.W., ascend 50 ft.
34.00	Top of ascent brs. N.W. and S.E., descend 100 ft.
36.15	Bottom of gulch course E., ascend 125 ft.
40.00	Top of ridge brs. N.W. and S.E. Set a slate stone 15 x 10 x 4 ins., 10 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. Pits impracticable. Magnetic declination N. 14° E.

Chains	
40.85	Bottom of draw, course N.W., ascend steeply 250 ft.
45.75	Top of ridge, brs. N.W. and S.E., descend 200 ft.
50.55	Bottom of gulch, course N.W., ascend 50 ft.
52.00	Top of ridge, brs. N.W. and S.E., descend 75 ft.
56.45	Bottom of gulch, course W., ascend 250 ft.
62.00	Top of ridge, brs. N.E. and S.W., descend 125 ft.
65.30	Bottom of draw, course S.W., ascend.
70.30	Top of ridge, brs. N.E. and S.W., descend.
77.00	Bottom of gulch, course S.W., ascend 200 ft.
80.00	On steep S. slope. Set a slate stone 15 x 6 x 4 ins., 10 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, marked with 1 notch on E. edge, and 4 notches on S. edge, 6 N on N.E. face, 4 E on S.E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Magnetic declination N. 14° E. Land, mountainous and broken. Soil, rocky, 4th and 5th rate. No timber. Undergrowth: mesquite and palo verde. Mountainous land, very steep and rocky and broken, and exceptionally difficult to survey 80.00 chs.
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	S. 89° 48' E., on a random line, bet. secs. 12 and 13. Over very mountainous land.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect E. bdy. of Tp. 7 lks. N. of cor. of secs. 7, 12, 13 and 18. Thence I run N. 89° 45' W., on a true line bet. secs. 12 and 13. Ascending over very mountainous land 100 ft.
8.00	Top of ridge, brs. N. and S., descend 90 ft.
10.80	Bottom of gulch, course N., ascend 100 ft.
12.00	Top of ridge, brs. N.W. and S.E., descend 100 ft.
13.80	Bottom of draw, course N.W., ascend.
17.00	Top of ascent, descend 25 ft.
24.50	Gulch, course N.W., ascend 40 ft.
27.00	Top of ridge, brs. S. E. and N.W., descend 150 ft.
40.05	On W. slope of ridge, set a porphyry stone 18 x 8 x 6 ins., 12 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° 30' E. December 31, 1910: I set off 23° 06' S., on the decl. arc, and at 12 h. 03 m., p.m., l.m.t., I observe the sun on the meridian, and obtain on the lat. arc the reading, 33° 52' N.
43.00	Bottom of ridge, ascend 75 ft.
45.55	Top of ridge, brs. N.W. and S.E., descend 75 ft.
47.85	Gulch, course N.W., ascend steeply 100 ft.
52.00	Top of ridge, brs. N. and S., descend 100 ft.
61.30	Bottom of gulch, brs. N.W. and S.E., ascend steeply 250 ft.
72.80	Top of ridge, brs. N.W. and S.E., descend.
80.10	The cor. of secs. 11, 12, 13 and 14. Land, mountainous. Soil, rocky, 4th and 5th rate. No timber. Undergrowth, scattered mesquite. Mountainous land, very broken and very steep and exceptionally difficult to survey, 80.10 chs.
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	N. 0° 1' W., bet. secs. 11 and 12. Ascend over very mountainous land to top of ridge.
0.50	Top of ridge, brs. N.E. and S.W., descend 250 ft.
11.60	Wash, 40 lks. wide, course W., ascend steep granite slope of Continental mountain 800 ft. to top.
20.00	5 chs. W. to frame and tent house of Fleming spring
40.00	On steep S. granite slope, a cross (X) on a granite boulder in place, 6 ft x 18 x 12 ins., above ground, for ¼

Subdivision of Township 6 North, Range 4 East.

Chains	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. Thence I run N. $0^{\circ} 1'$ W., ascending to top of S.W. spur of Continental mountain
42.00	Top of ridge, brs. N.E. and S.W., descend very steep granite slope over boulders, 400 ft.
45.00	Trail, brs. E. and W.
50.30	Bottom of gulch with running water, ascend 500 ft.
54.50	Trail, brs. E. and W.
60.25	Top of ridge, brs. N.W. and S.E., descend 35 ft.
62.00	Bottom of descent, ascend.
63.75	Top of ridge, brs. N.W. and S.E., descend 50 ft.
73.05	Road, mine to stamp mill of Loreta Mining Co., brs. E. and W.
79.75	Bottom of gully, course N.W., ascend.
80.00	Set a schist stone 18 x 10 x 6 ins., 12 ins. in the ground for cor. of secs. 1, 2, 11 and 12, marked 1 notch on E. edge, and 5 notches on S. edge, 6 N on N.E., 4 E on S. E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Magnetic declination N. $14^{\circ}$ E. Land mountainous. Soil, rocky, 4th and 5th rate. No timber. Mountainous land, very steep slopes, covered with granite boulders, slate, shale and schist, and exceptionally difficult to survey, 80.00 chs. December 31, 1910.
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	January 1, 1911: At 9 a.m., l.m.t., I set off $23^{\circ} 01' 30''$ S., on the decl. arc, $33^{\circ} 53'$ 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 S. $89^{\circ} 45'$ E., on a random line, bet. secs. 1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.30	Intersect E. bdy. of Tp. 7 lks. N. of the cor. of secs. 1, 5, 7, and 12. Thence I run N. $89^{\circ} 42'$ W., on a true line bet. secs. 1 and 12. Over very mountainous land, ascend 100 ft.
9.30	Top of ascent, descend 200 ft.
17.30	Bottom of canyon with steep sides, course N., ascend 100 ft
21.80	Top of steep ridge, descend 50 ft.
24.30	Bottom of gulch, course N.E., ascend 100 ft.
28.80	Top of ridge, brs. N.E. and S.W., descend 200 ft.
40.15	Set a slate stone, 15 x 8 x 6 ins., 10 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. Magnetic declination N. $14^{\circ} 30'$ E.
41.45	Bottom of gulch, course N., ascend 125 ft.
46.05	Top of ridge, brs. N. and S., descend 30 ft.
48.30	Bottom of gulch, course N., ascend.
54.30	Top of ridge, brs. N.E. and S.W., descend 150 ft.
62.50	Bottom of gulch, course N.
63.30	Open cut, 6 x 20 ft. long, 5 lks. S. of line, ascend 100 ft
72.80	Top of ridge, brs. N. and S., descend 150 ft.
80.30	The cor. of secs. 1, 2, 11 and 12. Land mountainous. Soil, rocky, 4th and 5th rate. No timber. Undergrowth, mesquite and palo verde. Mountainous land, very broken, very steep slopes, covered with broken slate and exceptionally difficult to survey 80.30 chs.
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40.00	N. $0^{\circ} 1'$ W., on a random line bet. secs. 1 and 2 Set temp. $\frac{1}{4}$ sec. cor.

## Chains

- 79.56 Intersect N. bdy. of Tp. 50 lks. W. of cor. of secs. 1, 2, 35 and 36.  
Thence I run S.  $0^{\circ} 20'$  W., on a true line, bet. secs. 1 and 2. Over very rocky and mountainous land, descending 200 ft.
- 6.50 Bottom of draw, course S.E., ascend 125 ft.
- 11.50 Top of ridge, brs. N.E. and S.W., descend 75 ft.
- 13.40 Bottom of draw, brs. E., ascend 35 ft.
- 13.80 Top of ridge, brs. N.E. and S.W., descend 250 ft. to wash.
- 29.70 Bottom of wash, 30 lks. wide, course S.W.
- 39.56 Set a porphyry stone, 18 x 12 x 6 ins., 12 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.  $14^{\circ} 30'$  E.  
At this cor. I set off  $23^{\circ} 02'$  S. on the decl. arc, and at 12 h. 3 m., p.m., l.m.t., I observe the sun on the meridian and obtain on the lat. arc the reading  $33^{\circ} 53'$  N.  
Ascend.
- 42.00 Top of ascent, descend 300 ft.
- 66.00 Bottom of wash, 1.00 ch. wide, course W., ascend 350 ft.
- 71.50 Top of ridge, brs. N.W. and S.E., descend 50 ft.
- 72.40 Bottom of draw, course N.W., ascend.
- 76.50 Top of ridge, brs. N.W. and S.E., descend 50 ft.
- 79.56 The cor. of secs. 1, 2, 11 and 12.  
Land mountainous.  
Soil, rocky, 3rd, 4th and 5th rate.  
No timber.  
Undergrowth, mesquite and ocotillo.  
Mountainous land, rocky, broken, very steep slopes and exceptionally difficult to survey, 79.56 chs.  
January 1, 1911.
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- January 2, 1911: At 9 a.m., l.m.t., I set off  $22^{\circ} 56' 30''$  S., on the decl. arc;  $33^{\circ} 49'$  N., on the lat. arc, and determine a meridian with the solar, at the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of Tp.  
Thence I run N.  $0^{\circ} 1'$  W.; bet. secs. 34 and 35.  
Over rolling land, descend 10 ft.
- 1.00 Bottom of descent, ascend.
- 3.00 Top of ascent, descend 20 ft.
- 8.50 Wash, course N.E., 10 lks. wide, ascend.
- 11.00 Top of ridge, brs. N.E. and S.W., descend.
- 15.80 Wash, 15 lks. wide, course N.E., ascend.
- 17.45 Top of ascent, brs. N.E. and S.W., descend 20 ft.
- 22.60 Wash, 20 lks. wide, course N.E., ascend 20 ft.
- 23.65 Top of ascent, brs. N.E. and S.W., descend.
- 30.25 Wash, 10 lks. wide, course N.E., ascend.
- 31.00 Top of ascent, brs. N.E. and S.W., descend.
- 32.85 Enter wash, course N.W.
- 35.00 Leave wash, ascend.
- 38.77 Granite boulder 20 ft. high on line.
- 39.38 Granite boulder 20 ft. high on line.
- 40.00 Set a granite stone, 15 x 8 x 6 ins., 10 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.
- 41.00 Wash, 50 lks. wide, course N.W., ascend 25 ft.
- 43.00 Top of ascent, brs. N.W. and S.E., descend.
- 45.00 Wash, 20 lks. wide, course W., ascend 50 ft.
- 48.00 Top of ascent, brs. E. and W., descend to wash.
- 49.75 Wash, 15 lks. wide, course W.; ascend along E. slope 100 ft
- 61.00 Top of E. slope, brs. E. and W., descend 125 ft.
- 77.00 Steep descent 50 ft. to flat.
- 80.00 Set a slate stone 16 x 8 x 6 ins., 11 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked 2 notches on E. edge, 1 notch on S. edge; 6 N on N.E. face, 4 E on S.E. face, and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Magnetic declination, N.  $15^{\circ}$  E.  
January 2, 1911: I set off  $22^{\circ} 57'$  S., on the decl. arc, and at 12 h. 4 m., p.m., l.m.t.; I observe the sun on

## Subdivision of Township 6 North, Range 4 East.

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Chains	the meridian, the resulting lat. is 33° 50' N. Land, mountainous and rolling. Soil, rocky, 2nd and 3rd rate. No timber. Undergrowth: some scrub palo verde and mesquite. Mountainous land or land covered with granite and slate boulders, 80.00 chs.
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	N. 89° 58' E., on a random line bet. secs. 26 and 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.15	Intersect N. and S. line, 9 lks. S. of cor. of secs. 25, 26, 35 and 36, thence I run S. 89° 54' W., on a true line bet. secs. 26 and 35. Ascending through dense palo verde, catclaw, mesquite and ocotillo.
3.00	Top of ascent, descend 25 ft.
6.00	Wash, 10 lks. wide, course N.W., ascend 30 ft.
9.00	Top of ascent, descend.
11.25	Enter wash, course N. W.
19.55	Leave wash, ascend steep bank 40 ft.
22.00	Top of bank, brs. N.W. and S.E., descend.
30.25	Enter wash, course S.W.
38.00	Leave wash.
40.07 $\frac{1}{2}$	Set a porphyry stone, 15 x 10 x 10 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which A palo verde 8 ins. in diam., brs. N. 52° 56' W., 189 lks. dist., marked $\frac{1}{4}$ S 26 B T. A palo cristo 8 ins. in diam., brs. S. 79° 35' E., 174 lks. dist., marked $\frac{1}{4}$ S 35 B T.
46.00	Top of slope, brs. N.W. and S.E., descend.
48.20	Bottom of slope, ascend 15 ft.
49.80	Top of ascent, descend.
53.50	Wash, 1.00 ch. wide, course N.W., ascend 10 ft.
55.00	Top of ascent, descend 10 ft.
56.15	Bottom of wash, 5 lks. wide, course N.W., ascend.
59.50	Top of slope, brs. N.W. and S.E., descend 40 ft.
68.70	Wash, 40 lks. wide, course N.W., ascend.
70.05	Road Ft. McDowell to Cave Creek, brs. N.W. and S.E.
76.80	Wash, 10 lks. wide, course N.W., descend 25 ft.
80.15	The cor. of secs. 26, 27, 34 and 35. Land, rolling and mountainous. Soil, rocky, 2nd and 3rd rate. No timber. Undergrowth, mesquite, palo verde, catclaw and ocotillo. Mountainous and rolling land, and land covered with dense brush, 80.15 chs.
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	N. 0° 1' W., bet. secs. 26 and 27. Over rolling land, descending.
2.45	Wash, 1.00 ch. wide, course W., ascend 15 ft.
6.40	Road to Ft. McDowell, brs. N.W. and S.E.
7.00	Descend.
7.25	Enter wash, course S.W., through dense palo verde and mesquite.
9.75	Leave wash, ascend 50 ft.
17.00	Top of ascent, descend 40 ft. to wash.
21.15	Wash, course W., 60 lks. wide, ascend 35 ft.
24.00	Top of ascent, descend 25 ft. to wash.
31.35	Wash, 15 lks. wide, course W., ascend 20 ft.
32.40	Top of ascent, brs. W. and E., descend.
34.50	Wash, 20 lks. wide, course W., ascend 25 ft.
36.00	Top of ascent, descend 25 ft.
38.10	Wash, 10 lks. wide, course S.W., ascend 75 ft.
40.00	Set a limestone 20 x 10 x 6 ins., 15 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. 15° E.

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## Subdivision of Township 6 North, Range 4 East.

## Chains

- 45.70 Top of ascent, descend 30 ft.  
 46.80 Bottom of descent, wash 10 lks. wide, course SW, ascend 20 ft.  
 48.70 Top of ascent, descend 50 ft.  
 52.85 Wash, 15 lks. wide, course W., ascend steeply 60 ft.  
 55.00 Top of ascent, descend 50 ft.  
 58.25 Wash, course S.W., enter dense underbrush of palo verde and mesquite.  
 63.00 Leave wash and dense underbrush, ascend 50 ft.  
 65.25 Top of ascent, descend 40 ft. to wash.  
 65.70 Road, Gold Hill and Oriental Mines to Cave Creek.  
 66.00 Enter dense brush, 5.00 chs. W. to Grapevine spring and frame shack, corral and through fence of Gibson Bros.  
 69.40 Bottom of descent, wash 1.00 ch. wide, course S.W., ascend 40 ft.  
 73.00 Top of ascent, descend 30 ft.  
 76.00 Bottom of descent, wash 1.00 ch. wide, course S.W., ascend 50 ft. leave dense brush.  
 79.00 Top of ascent.  
 80.00 Set a porphyry stone 16 x 8 x 8 ins.; 11 ins. in the ground for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. edge, 2 notches on E. edge, 6 N on N.E. face, 4 E on S.E. face, and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.  
 Magnetic declination N. 15° E.  
 Land mountainous and rolling.  
 Soil gravelly, 2nd and 3rd rate.  
 Timber, scrub palo cristo, mesquite, ocotillo and catclaw.  
 Mountainous and rolling land, broken or covered with dense brush, 80.00 chs. January 2, 1911.

- Nov. 30, 1911. From the above cor. I run N. 89° 54' E., on a random line, bet. secs. 23 and 26.  
 40.00 Set temp. ¼ sec. cor.  
 80.06 Intersect N. and S. line 32 lks. S. of cor. of secs. 23, 24, 25 and 26, previously described.  
 Thence I run S. 89° 40' W., on a true line, bet. secs. 23 and 26.  
 Over mountainous and rolling land, ascending from wash.  
 13.10 Through wash, course S.W., ascend 100 ft.  
 13.75 Top of ascent; descend 80. ft.  
 16.00 Wash 20 lks. wide; course S.W., ascend 75 ft.  
 25.00 Top of ascent, descend 75 ft.  
 36.25 Bottom of descent, draw course S.W., ascend.  
 40.03 On rim of mesa, 5 lks. E. of road, set a porphyry stone 15 x 10 x 8 ins.; 10 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° 25' E.  
 Thence descend over rolling and mountainous land.  
 41.40 Road from Gold and Oriental mines to Cave Creek, brs. N. E. and S.W., descend 75 ft.  
 47.60 Wash; 15 lks. wide; course S.W., ascend 40 ft.  
 53.00 Top of ascent, descend 50 ft.  
 65.80 Bottom of descent, ascend 75 ft.  
 70.80 Wash course S.W. 15 lks. wide, ascend 75 ft.  
 76.80 Top of ascent, descend gradually.  
 80.06 Cor. of secs. 22, 23, 26 and 27.  
 Land mountainous and rolling.  
 Soil gravelly, 2nd and 3rd rate.  
 No timber: Undergrowth: scattered palo cristo, mesquite, catclaw and ocotillo.  
 Mountainous land, 80.06 chs. November 30, 1911.

January 3, 1911: At 9 a.m., l.m.t., I set off 22° 51' 30" S., on the decl. arc; 33° 50' 30" N., on the lat. arc, and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27.

Subdivision of Township 6 North, Range 4 East.

Chains	Thence I run N. 0° 1' W., bet. secs. 22 and 23. Over rolling land, descending.
2.25	Bottom of descent, ascend 25 ft.
5.45	Top of ascent, descend gradually 50 ft.
10.60	Bottom of descent, wash 20 lks. wide, course W., ascend 40 ft.
14.00	Top of slope, brs. E. and W., descend.
17.00	Bottom of descent, wash 10 lks. wide, course W., ascend 30 ft.
22.00	Top of ascent, descend steep bank 40 ft.
24.25	Enter Rowler wash, ascend wash through dense palo verde and mesquite.
31.40	Leave Rowler wash, ascend steep bank 35 ft.
32.00	Top of bank, ascend.
35.00	Top of rolling mesa, sloping N.
40.00	Set a porphyry stone 18 x 10 x 4 ins., 12 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° 30' E. Thence descending.
65.50	Steep descent to wash 25 ft.
65.70	Wash 50 lks. wide, course S.W., ascend 30 ft.
68.00	Top of slope brs. N. E. and S.W., descend 40 ft.
70.00	Wash, 1.00 ch. wide, course W., ascend 40 ft.
75.00	Top of ascent, descend 35 ft.
80.00	On N. slope of small ridge set a porphyry stone 14 x 18 x 4 ins., 10 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked 3 notches on S. edge, 2 notches on E. edge, 6 N on N.E. face, 4 E on S. E. 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. Land rolling. Soil, gravelly, 2nd and 3rd rate. Timber, mesquite, palo verde, catclaw, and ocotillo. Rolling land, or land covered with dense brush, 80.00 chs
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	N. 89° 55' E., on a random line bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line 5 lks. S. of cor. of secs. 13, 14, 23 and 24, thence I run S. 89° 53' W., bet. secs. 14 and 23, on a true line Ascending mountain, 600 ft. rise.
4.15	Descend 10 ft. to draw.
4.70	Draw, course S.E., ascend.
17.00	Top of summit of mountain, descend steep N.W. slope of low mountain covered with small boulders.
40.05	Set a porphyry stone 12 x 12 x 8 ins., 8 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° 30' E. Thence descend steep slope.
53.00	Bottom of slope.
80.10	The cor. of secs. 14, 15, 22 and 23. Land mountainous. Soil, rocky 4th and 5th rate. Timber, scattering mesquite, palo verde and giant cactus Mountainous land, steep rocky slopes and broken and exceptionally difficult to survey, 80.10 chs. January 3: At this corner, I set off 22° 51' 30" S., on the decl. arc, and at 12 h. 04 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 33° 51' N.
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	N. 0° 1' W., bet. secs. 14 and 15. Over mountainous land, descend 40 ft.
3.10	Wash, 30 lks. wide, course W., ascend 25 ft.
4.50	Top of ascent, descend 30 ft.
10.50	Wash, 20 lks. wide, course S.W., ascend 100 ft.
23.00	Top of ridge, brs. N.W. and S.E., descend 15 ft.
23.70	Palo verde, 8 ins. in diam., on line.



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## Subdivision of Township 6 North, Range 4 East

Chains	
34.00	Bottom of descent, wash 10 lks. wide, course W., asc. 75 ft
40.00	Set a porphyry stone, 15 x 10 x 6 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which A palo verde, 5 ins. in diam., brs. N. 39° 03' E., 13 lks. dist., marked $\frac{1}{4}$ S 14 B T. A palo verde, 4 ins. in diam., brs. N. 82° 08' W., 85 lks. dist., marked $\frac{1}{4}$ S 15 B T. Thence N. 0° 1' W., over mountainous land.
47.20	Top of ridge, brs. E. and W., descend 50 ft.
50.75	Palo verde, 6 ins. in diam., on line.
52.20	Wash, course S.W., enter dense palo verde and mesquite.
68.30	Palo verde 6 ins. in diam., on line.
69.00	Wash, course S.W., ascend.
70.50	Road, brs. N.W. and S.E.
71.00	Leave dense palo verde and mesquite, ascend 25 ft.
74.40	Road, Fleming to Cave Creek, brs. S.W. and N.E.
78.00	Top of ascent, descend 50 ft. to wash.
80.00	Set a porphyry stone 15 x 10 x 6 ins., 10 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on S., and 2 notches on E. edge, 6 N on N.E. face, 4 E on S.E. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Land mountainous. Soil, gravel and clay, 3rd and 4th rate. Timber, scrub palo verde and mesquite. Mountainous land, or land covered with dense brush, 80.00 chs.
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	N. 89° 53' E., on a random line, bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.97	Intersect N. and S. line, at cor. of secs. 11, 12, 13, and 14; thence I run S. 89° 53' W., on a true line, bet. secs. 11 and 14 Over mountainous land, descending steeply 175 ft.
4.50	Bottom of channel, course S.W., ascend.
7.00	Top of ridge, brs. N.E. and S.W., descend 200 ft.
20.90	Wash 10 lks. wide, course S.W., ascend steep slope 20 ft.
21.10	Top of ridge, brs W., descend.
24.00	----- Wash, 10 lks. wide, course S.W., ascend 20 ft.
24.50	Top of ridge, brs. S.W. and N.E., descend 50 ft.
31.00	Wash, course S.W., descend along wash through dense palo verde and mesquite.
38.90	Leave wash and dense brush, ascend.
39.98 $\frac{1}{2}$	Set a porphyry stone 15 x 10 x 8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N., face from which A mesquite 4 ins. in diam., brs. S. 79° 25' E., 187 lks. dist., marked $\frac{1}{4}$ S 14 B T. No other trees available, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Magnetic declination N. 14° 30' E.
44.00	Top of rolling, gravelly, mesa, sloping S.W.
56.00	Descend steep bank 40 ft.
58.00	Bottom of steep bank, enter wash, course S.W.
59.00	Leave wash, ascend.
65.00	Top of ascent, descend.
72.00	Wash, 5 lks. wide, course S.W., ascend.
74.00	Top of slope, brs. N.E. and S.W.
74.25	Road, Fleming Camp to Cave Creek, brs. N.E. and S.W. descend
79.97	The cor. of secs. 10, 11, 14 and 15. Land mountainous. Soil, gravelly and rocky, 3rd, 4th and 5th rate. Timber: mesquite, palo verde, ocotillo. Mountainous land, broken, steep, rocky slopes, or covered with dense brush and exceptionally difficult to survey, 79.97 chs.

January 3, 1911

## Subdivision of Township 6 North, Range 4 East.

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Chains	January 4, 1911: At 9 a.m., l.m.t., I set off $22^{\circ} 45' S.$ on the decl. arc, $33^{\circ} 52' N.$ , on the lat. arc, and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15; thence I run N. $0^{\circ} 1' W.$ , bet. secs. 10 and 11. Over mountainous land, descending.
5.50	Wash, 50 lks. wide, course S.W., ascend 100 ft.
14.15	Top of ridge, brs. E. and W., descend 100 ft.
22.20	Wash, 10 lks. wide, course W., ascend 75 ft.
26.00	Top of ridge, brs. N.W. and S.E., descend 50 ft.
30.10	Wash, 15 lks. wide, course W., ascend.
32.40	Top of ridge, brs. E. and W., descend 50 ft.
34.80	Wash with running water, 30 lks. wide, course S.W., ascend 20 ft.
39.00	Top of ridge, brs. N.E. and S.W., descend 20 ft.
39.50	Bottom of draw, course W.
40.00	Set a granite stone, 20 x 12 x 8 ins., 15 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. Thence ascending.
40.35	Palo verde 8 ins. in diam., on line.
40.90	Road, Flemings Camp to Cave Creek, brs. N.E. and S.W.
41.00	Top of ridge, N.E. and S.W., descend 20 ft.
42.05	Wash, 10 lks. wide, course S.W., ascend 50 ft.
44.00	E. 20.00 chs. to Philis Camp, consisting of a frame and tent house, orchard and spring.
48.00	Top of ascent, brs. N.E. and S.W., descend to wash 20 ft.
54.50	Wash, 25 lks. wide, course S.W., ascend steep ridge, 600 ft. rise to top of ridge.
66.00	Top of ridge, brs. N.W. and S.E., descend.
69.00	Ascend.
80.00	On steep, rocky S.E. slope set a slate stone 15 x 10 x 8 ins. 10 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on S., and 2 notches on E. edge, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Magnetic declination N. $14^{\circ} 30' E.$ Land very mountainous. Soil, rocky and gravelly, 2nd, 3rd and 4th rate. Timber: palo cristo, mesquite, catclaw, ocotillo. Mountainous land, steep, rocky slopes and exceptionally difficult to survey, 80.00 chs.
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	N. $89^{\circ} 53' E.$ , on a random line, bet. secs. 2 and 11.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.19	Intersect N. and S. line, 18 lks. S. of the cor. of secs. 1, 2, 11 and 12. Thence I run S. $89^{\circ} 45' W.$ , bet. secs. 2 and 11, on a true line. Over very mountainous land, descending.
0.50	Bottom of ravine, course N.W., ascend 50 ft.
2.70	Top of ridge, brs. N.W. and S.E., descend.
16.20	Enter dense brush.
16.80	Bottom of descent, wash, 30 lks. wide, course N.W., asc. 25 ft.
17.70	Top of ridge, brs. N.W. and S.E., descend 250 ft. to bottom.
21.20	Leave dense brush.
23.40	S. 75 lks. to boarding house of Loretto Mining Co. Camp consists of 4 tents, house and 10-stamp mill.
25.20	Road, Loretto Mining Co. Camp to Cave Creek, brs. N.E. and S.W.
28.95	Wash, 5 lks. wide, course S.W., 3.00 chs. S, to stamp mill, ascend 30 ft.
35.20	Descend.
35.49	Mesquite, 10 ins. in diam., on line.
37.00	Bottom of descent, ascend 400 ft. to top of steep, rocky mountain.
40.09 $\frac{1}{2}$	A cross (X) on a porphyry rock in place, 3 x 2 x 5 ft. above 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. $14^{\circ} 30' E.$ January 4: At the $\frac{1}{4}$ sec. cor., bet. secs. 2 and 11 I set

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## Subdivision of Township 6 North, Range 4 East.

Chains	off $22^{\circ} 45' 30''$ S., on the decl. arc, and at 12 h. 05 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $33^{\circ} 53' N$ .
57.00	Top of ridge, brs. N.W. and S.E., descend 250 ft.
68.70	Bottom of descent, gulch, 15 lks. wide, course S.E., ascend 100 ft.
70.00	Top of ridge, brs. N. and S., descend 150 ft.
74.70	Bottom of descent, gulch, course S.E., ascend 200 ft. on very steep S.E. slope.
80.19	The cor. of secs. 2, 3, 10 and 11. Land mountainous. Soil, gravelly, and rocky, 4th and 5th rate. Timber: Mesquite, palo verde and catclaw. Mountainous land, broken, very steep slopes or covered with dense brush and exceptionally difficult to survey, 80.19 chs.
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	N. $0^{\circ} 1' W.$ , on a random line bet. secs. 2 and 3.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. bdy. of Tp. 46 lks. W. of the cor. of secs. 2, 3, 34 and 35, thence I run. S. $0^{\circ} 19' W.$ , on a true line, bet. secs. 2 and 3. Over very mountainous, rocky land, descending.
6.75	Draw, course S.W., ascend 100 ft.
14.00	Top of ridge, brs. N.E. and S.W., descend 250 ft.
23.05	Wash, 25 lks. wide, course W., ascend 100 ft.
27.00	Top of ridge, brs. N.E. and S.W., descend.
31.50	Wash, 4 lks. wide, course W., ascend.
37.00	Top of ridge, brs. N.E. and S.W.
40.02	Set a porphyry stone 15 x 8 x 6 ins., 10 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. Pits impracticable. Magnetic declination N. $14^{\circ} 30' E$ . Thence ascend steeply 300 ft.
49.85	Top of ridge, brs. N.W. and S.E., descend 125 ft.
53.75	Bottom of descent, draw 25 lks. wide, course E., ascend.
56.00	Top of ridge, brs. N.E. and S.W., descend 25 ft.
58.00	Bottom of descent, draw 15 lks. wide, course N.E., ascend 250 ft.
66.25	Top of ascent on N.E., slope, descend 40 ft.
69.60	Bottom of descent, draw, 10 lks. wide, course N.E., ascend 100 ft.
73.20	Top of ridge, brs. N.E. and S.W., descend.
80.02	The cor. of secs. 2, 3, 10 and 11. Land mountainous. Soil, gravelly, 4th and 5th rate. Timber, scattering palo verde and mesquite. Very mountainous land, broken, very steep slopes and exceptionally difficult to survey, 80.02 chs. January 4, 1911
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	November 30, 1911. From the cor. of secs. 3, 4, 33 and 34, previously described, I ran N. $0^{\circ} 2' W.$ , on a true line bet. secs. 33 and 34. Over very steep rocky mountainous slope, ascending 200 ft. along W. slope of Black Mountain.
5.00	Top of ridge brs. E. and W., descend 30 ft.
5.50	Bottom of descent, gully, course W., ascend.
8.00	Top of ridge, brs. E. and W., descend 100 ft.
11.10	Gully, ascend steep slope 100 ft., with great difficulty.
12.00	Top of ascent, descend along W. slope.
17.00	S. side steep gully, descend 40 ft.
18.50	Bottom of descent, gully, course W., ascend steep slope of gully 75 ft.
21.00	N. side of gully, ascend along W. face with great difficulty.
23.00	Top of ascent, descend steep slope 50 ft.
26.00	Bottom of descent, gully, course W., ascend 50 ft.
28.00	N. along W. slope with great difficulty.
32.00	Top of slope, brs. E. & W., descend steep slope 50 ft.

## Subdivision of Township 6 North, Range 4 East.

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Chains	
35.00	Top of ridge, brs. E. and W., descend steeply with great difficulty, 150 ft.
40.00	Set a slatestone 18 x 12 x 8 ins., 8 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. Thence descend over very mountainous land on N.W. slope.
41.00	Top of ridge, brs. N.W. and S.E., descend steep slope.
53.00	Bottom of descent, descend along E. slope of spur.
60.00	Enter dense mesquite and palo verde.
67.00	Bottom of gully, course N.E.
71.00	Descend along E. slope.
72.00	Descend along W. bank of wash.
80.00	Point for cor. of secs. 27, 28, 33 and 34, falls in wash.
80.30	64 lks. W. of sec. line set a porphyry stone 14 x 12 x 8 ins., 9 ins. in the ground, for witness cor. to cor. of secs. 27, 28, 33 and 34, marked 1 notch on the S. edge; 3 notches on the E. edge, W C 6 N on N.E. face, 4 E on S. E. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Magnetic declination N. $14^{\circ} 30'$ E. Land mountainous. Soil rocky, 4th and 5th rate. Timber: dense palo verde and mesquite. Undergrowth: catclaw and greasewood, along N. slope near base of mountain. Mountainous land, steep rocky slopes, or covered with dense mesquite, and palo verde, or dense brush, and exceptionally difficult to survey, 80.00 chs.
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	From the true point for the cor. of secs. 27, 28, 33 and 34, I run N. $89^{\circ} 58'$ E., on a random line bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.52	Intersect N. and S. line, 41 lks. S. of cor. of secs. 26 27, 34 and 35, heretofore described, thence I run S. $89^{\circ} 40'$ W., on a true line bet. secs. 27 and 34 Over rolling and mountainous land, ascending to wash, along ft. of N. slope of Black Mountain, ascend 75 ft.
6.94	Top of ridge, brs. N. and S., descend 50 ft.
10.35	Wash 15 lks. wide, course N., ascend 30 ft.
13.10	Top of ridge, brs. N. and S., descend 20 ft.
17.50	Wash 10 lks. wide, course N.
20.15	Enter wash, course S.W.
20.70	Leave wash, ascend pile of granite boulders.
25.10	Top of boulders, descend 50 ft.
37.40	Wash, 20 lks. wide, course N.W., ascend.
38.10	Top of ascent, brs. N.W. and S.E., descend.
39.30	Wash, 10 lks. wide, course N.W.
39.76	Set a slatestone 18 x 8 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. Thence ascending.
42.20	Top of ascent, brs. N.W. and S.E., descend 15 ft.
43.75	Bottom of descent, draw course N.W., ascend.
50.65	Top of slope, brs. N.E. and S.W., descend 10 ft.
57.45	Wash 75 lks. wide, course S.W., ascend 10 ft.
61.60	Top of ascent, descend.
62.60	Enter wash.
64.10	Leave wash, 60 lks. wide, course W., ascend 40 ft.
70.60	Top of ridge, brs. N.W. and S.E., descend 30 ft.
79.52	To the point for cor. of secs. 27, 28, 33 and 34. Land mountainous. Soil gravelly, 3rd and 4th rate. Timber scattering, palo verde. Undergrowth: mesquite and catclaw. Mountainous and rolling land, 79.52 chs.
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## Subdivision of Township 6 North, Range 4 East.

Chains	From the true point for the cor. of secs. 27, 28, 33 and 34, I run N. $0^{\circ} 2' W.$ , bet. secs. 27 and 28. Over rolling and mountainous land, through dense undergrowth along W. bank of wash.
9.50	Wash, 1.00 ch. wide, course W., ascend 15 ft.
12.00	Top of ascent, brs. E. and W., descend.
15.10	Wash, course W., ascend.
21.00	Road Ft. McDowell, to Cave Creek, brs. E. and W.
24.00	Top of ascent, ridge brs. E. and W.
28.00	Descend 15 ft.
29.50	Wash 30 lks. wide, course W., ascend 50 ft.
38.50	Top of ascent brs. E. and W., descend leave dense underbrush.
40.00	Set a porphyry stone 14 x 6 x 5 ins., 9 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on the W. face, from which A palo verde 5 ins. in diam., bears N. $14^{\circ} 45' W.$ , 79 lks. dist., marked $\frac{1}{4}$ S 28 B T. A palo verde 3 ins. in diam., bears S. $40^{\circ} E.$ , 19 lks. dist., marked $\frac{1}{4}$ S 27 B T. Thence over rolling land, descending.
43.50	Enter wash, course W.
44.00	Road in wash brs. E. and W.
49.50	Leave wash, ascend steeply 20 ft.
50.00	Top of steep ascent.
55.00	Descend, enter dense brush, palo verde, mesquite and greasewood.
58.00	Bottom of descent, wash 1.00 ch. wide, course S.W.
59.00	Ascend 20 ft.
61.00	Top of ascent, descend 10 ft.
63.00	Wash, course W., ascend.
67.00	Top of ascent, descend.
75.00	Enter wash, course W. 15 lks. wide.
80.00	Point for cor. of secs. 21, 22, 27 and 28, falls in wash, leave dense undergrowth.
85.46	A --- syenite stone 20 x 8 x 6 ins., set 13 ins. in the ground for witness cor. to cor. of secs. 21, 22, 27 and 28, marked 3 notches on the E., 2 notches on the S. edge, W. C. 6 N on N.E. face, 4 E on S.E. face, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which a Palo verde 6 ins. in diam., brs. S. $13^{\circ} 30' W.$ , 40 lks. dist., marked W C T 6 N R 4 E S 21 B T. A mesquite 3 ins. in diam., brs. N. $67^{\circ} E.$ , 68 lks. dist., marked W C T 6 N R 4 E S 22 B T. Land mountainous and rolling. Soil sandy and gravelly, 3rd and 4th rate. Timber dense mesquite and palo verde. Undergrowth: catclaw, ocotillo and greasewood. Mountainous land, broken and covered with palo verde, or mesquite, or dense brush, and exceptionally difficult to survey 80.00 chs. This corner was set January 5, 1911. November 30, 1911.
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	January 6, 1911: At 9 am., l.m.t., I set off $22^{\circ} 32' 30''$ S. on the decl. arc, $33^{\circ} 50' 30''$ N., on the lat 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. $89^{\circ} 47' E.$ , on a random line bet. secs. 22 and 27
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.70	Intersect N. and S. line, 5 lks. S. of cor. of secs. 22, 23, 26 and 27, thence I run S. $89^{\circ} 45' W.$ , on a true line bet. secs. 22 and 27. Over mountainous and rolling land, descend 40 ft.
3.70	Bottom of descent, wash 10 lks. wide, course S.W., ascend 50 ft.
10.20	Top of ascent, brs. N.E. and S.W., descend 80 ft.
18.80	Wash, 10 lks. wide, course S.W., ascend 50 ft.
25.70	Top of ascent, brs. N.E. and S.W., descend 50 ft.
34.60	Wash, 10 lks. wide, course S.W., ascend 50 ft.

## Subdivision of Township 6 North, Range 4 East.

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Chains	
39.85	On N. slope. Set a slate stone, 15 x 8 x 4 ins., 10 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. Magnetic declination N. $14^{\circ} 30'$ E.
45.60	Top of ascent, brs. N.E. and S.W., descend.
56.55	Wash, 15 lks. wide, course S.W., ascend 40 ft.
62.70	Top of ascent, brs. N.E. and S.W., descend.
69.60	Descend steeply 50 ft.
74.00	Bottom of descent, wash 30 lks. wide, course S.W., descend along Wash, through dense palo verde, mesquite and catclaw.
79.70	The true point for the cor. of secs. 21, 22, 27 and 28. Land, mountainous and rolling. Soil, gravel with clay base, 3rd and 4th rate. No timber. Undergrowth: palo verde, mesquite, catclaw and ocotillo. Mountainous and rolling land, 79.70 chs.
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	From the true point for cor. of secs. 21, 22, 27 and 28. N. $0^{\circ} 2'$ W., bet. secs. 21 and 22. Over rolling gravel, ascend steep 15 ft. rise from wash.
3.00	Ascend. Leave wash and dense brush.
5.46	Witness corner, previously described.
6.00	Top of ascent, brs. E. and W., descend.
17.00	Wash, 15 lks. wide, course W., ascend 20 ft.
19.00	Top of ascent, brs. N.E. and S.W., descend.
31.00	Wash, course S.W., 50 lks. wide, ascend.
32.00	Top of ascent, brs. N.E. and S.W., descend 30 ft.
33.00	Wash, 50 lks. wide, course S.W.
33.50	Ascend.
35.00	Top of slope, brs. N.E. and S.W.
40.00	Set a granite stone 15 x 12 x 8 ins., 10 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. Pits impracticable. Magnetic declination N. $14^{\circ} 30'$ E. Thence descending over rolling land.
42.00	Wash, 75 lks. wide, course S.W.
42.75	Ascend, enter dense underbrush.
44.00	Top of ascent, brs. N.E. and S.W., descend 15 ft.
45.00	Wash, 20 lks. wide, course S.W., ascend along wash.
50.10	Leave wash.
51.50	Top of ascent, descend.
55.10	Descend steeply 20 ft.
56.00	Wash, 20 lks. wide, course W.
59.00	Top of slope, descend 10 ft.
65.00	Wash, 20 lks. wide, course W., ascend 35 ft.
71.00	Top of ascent, descend.
75.10	Wash, 20 lks. wide, course S.W., ascend 20 ft.
77.00	Top of ascent, descend 10 ft.
77.50	Wash, 30 lks. wide, course S.W., ascend to
80.00	Set a basalt stone, 15 x 12 x 4 ins., 10 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked 3 notches on E. and 3 notches on S. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which An ironwood 4 ins. in diam., brs. S. $54^{\circ} 33'$ W., 10 lks. dist., marked T 6 N R 4 E S 21 B T. An ironwood 8 ins. in diam., brs. N. $14^{\circ}$ W., 84 lks. dist., marked T 6 N R 4 E S 16 B T. A palo verde 4 ins. in diam., brs. S. $64^{\circ} 26'$ E., 87 lks. dist., marked T 6 N R 4 E S 22 B T. No other trees available. Land rolling. Soil, gravelly, 2nd rate. Timber, palo verde and mesquite. Undergrowth: Palo verde, mesquite, ocotillo, catclaw, and greasewood. Rolling land, broken or covered with dense brush and

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## Subdivision of Township 6 North, Range 4 East

Chains	exceptionally difficult to survey, 80.00 chs. January 6: At this corner I set off $22^{\circ} 32' 30''$ S., on the decl. arc., and at 12 h. 6 m., p.m., l.m.t., observe the sun on the meridian; the resulting lat. is $33^{\circ} 51' N.$
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	N. $89^{\circ} 45' E.$ , on a random line bet. secs. 15 and 22.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.66	Intersect N. and S. line, 5 lks. N. of cor. of secs. 14, 15, 22 and 23. Thence I run
	S. $89^{\circ} 47' W.$ , on a true line bet. secs. 15 and 22. Over rolling and mountainous land, descending along steep S. side of wash.
2.00	Wash, 50 lks. wide, course S.W., enter dense palo verde, ascend.
8.00	Top of ascent, leave dense brush, descend on rolling slope.
27.00	Descend steeply 50 ft.
30.15	Wash, 1.00 ch. wide, course N.W.
36.00	Ascend from wash 50 ft.
39.00	Top of ascent.
39.83	Set a porphyry stone, 14 x 10 x 6 ins., 9 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.
	Magnetic declination N. $14^{\circ} E.$
	Thence descend over mountainous and rolling land.
50.50	Top of E. bank of wash, descend 40 ft.
51.20	Wash, 20 lks. wide, course S.W.
53.50	Leave wash, ascend.
57.00	Top of ascent, descend.
61.00	Wash, 35 lks. wide, course S.W., ascend.
67.30	Top of slope, brs. N.E. and S.W., descend 30 ft. to wash.
68.75	Wash, 15 lks. wide, course S.W., ascend 50 ft.
76.25	Top of ascent, brs. N.E. and S.W., descend to corner.
79.66	The cor. of secs. 15, 16, 21 and 22. Land, mountainous and rolling. Soil, gravelly, 2nd and 3rd rate. Timber, palo verde and mesquite. Undergrowth, ocotillo. Mountainous and rolling land, 79.66 chs.
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	N. $0^{\circ} 2' W.$ , bet secs. 15 and 16.
	Over mountainous and rolling land, ascend 100 ft.
8.10	Palo verde, 8 ins. in diam., on line.
11.50	Top of ridge, brs. N.E. and S.W., descend 70 ft.
15.30	Palo verde, 5 ins. in diam., on line.
22.75	Road, Philis Camp to Cave Creek, brs. N.E. and S.W.
25.10	Bottom, wash, 10 lks. wide, course S.W., ascend 175 ft.
34.00	Top of ascent, descend.
38.50	Wash, 80 lks. wide, course N.W., ascend 140 ft.
40.00	Set a porphyry stone 18 x 12 x 8 ins., 12 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. Pits impracticable.
	Magnetic declination N. $14^{\circ} 30' E.$
	Thence ascending to top of ridge.
56.00	Top of ridge, brs. E. and W., descend 135 ft.
65.25	Bottom of descent, wash, course S.W., 30 lks. wide, ascend 100 ft.
69.40	Top of ridge, brs. E. and W., descend 75 ft.
73.05	Wash, 20 lks. wide, course W., ascend 80 ft.
80.00	On W. slope. Set a quartz stone 15 x 10 x $\frac{1}{2}$ ins., 10 ins. in the ground for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edges, 6 N on N.E. face, 4 E on S.E. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Magnetic declination N. $14^{\circ} 30' E.$
	Land, mountainous and rolling. Soil, gravelly and rocky, sub-base clay, 2nd and 3rd rate.

## Subdivision of Township 6 North, Range 4 East.

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Chains	Undergrowth, palo verde and ocotillo. No timber. Mountainous land, very broken, with steep ascents and descents and exceptionally difficult to survey, 80.00 chs. January 6, 1911.
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	January 7, 1911: At 9 a.m., l.m.t., I set off $22^{\circ} 25' 30''$ S., on the decl. arc, $33^{\circ} 52'$ N., on the lat. arc, and determine a meridian with the solar at the cor. of secs 9, 10, 15 and 16. Thence I run N. $89^{\circ} 47'$ E., on a random line, bet. secs. 10 and 15.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.87	Intersect N. and S. line, 21 lks. N. of cor. of secs. 10, 11, 14 and 15, thence I run S. $89^{\circ} 56'$ W., on a true line, bet. secs. 10 and 15. Over very mountainous land, descend 60 ft.
7.10	Gully, 20 lks. wide, course S.W., ascend 150 ft.
20.72	Top of ridge, brs. N.E. and S.W., descend 75 ft.
24.27	Wash, 10 lks. wide, brs. S.W., ascend 100 ft.
31.70	Top of ridge, brs. N.E. and S.W., descend 125 ft.
35.80	Bottom of descent, wash, 50 lks. wide, course S, millsite 3 chs. S., spring of fresh water, ascend 51 ft.
39.93 $\frac{1}{2}$	Set a slate stone, 15 x 8 x 6 ins., 10 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. Magnetic declination N. $14^{\circ} 30'$ E. Thence ascending to top.
40.20	Top of ridge, brs. N. and S., descend 40 ft.
40.50	Road, Philis Camp to Cave Creek, brs. N.E. and S.W.
43.77	Bottom of descent, wash 20 lks. wide, course S.W., ascend 20 ft.
44.37	Top of ascent, descend 30 ft.
46.27	Wash, 10 lks. wide, course S.W., ascend 10 ft.
46.80	Top of ascent, descend 50 ft.
51.87	Wash, 60 lks. wide, course S.W., ascend 40 ft.
53.80	Top of ascent, descend 30 ft.
57.00	Wash, 15 lks. wide, course S. W., ascend.
59.30	Top of ascent, descend 30 ft. bank.
60.72	Wash, 20 lks. wide, course S.W., descend 100 ft.
65.70	Top of ridge, brs. S.E. and N.W., descend 60 ft.
67.40	Bottom of draw, course S.E., ascend 100 ft.
75.10	Top of ridge, brs. S.W. and N.E., descend 125 ft.
79.87	The cor. of secs. 9, 10, 15 and 16. Land very mountainous. Soil, rocky, 3rd, 4th and 5th rate. No timber. Undergrowth, palo verde, mesquite and ocotillo. Very mountainous land, very broken, with very steep slopes, and extremely difficult to survey, 79.87 chs.
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	N. $0^{\circ} 2'$ W., bet. secs. 9 and 10. Over very mountainous land, ascending.
2.00	Top of ascent, enter dense palo verde and mesquite, descended 100 ft.
7.00	Wash, 30 lks. wide, course S.W., ascend.
8.00	Top of ascent, descend.
9.00	Wash, 30 lks. wide, course S.E., leave dense brush, ascend along steep W. slope 500 ft. to
10.00	Top of ridge, brs. E. and W., descend 30 ft.
11.00	Wash, 30 lks. wide, course S.W., ascend.
12.00	Descend 30 ft.
13.20	Wash, 10 lks. wide, course S.E., ascend.
23.00	Top of ridge, brs. N.E. and S.W., descend 60 ft.
26.50	Gully, course N.E., ascend.
31.00	Top of ridge, brs. S.E. and N.W., descend 40 ft.
32.20	Bottom of draw, 15 lks. wide, course S.E., ascend.
38.00	Top of ridge, brs. N.E. and S.W., descend.



20

## Subdivision of Township 6 North, Range 4 East.

Chains	
39.20	Gully, 10 lks. wide, course N.E., ascend.
40.00	Set a shale stone, 15 x 18 x 10 ins., 10 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. Pits impracticable.
	Magnetic declination N. $14^{\circ} 30'$ E.
	January 7: At the $\frac{1}{4}$ sec. cor. bet. secs. 9 and 10, I set off $22^{\circ} 25' 00''$ S., on the decl. arc; and at 12 h. 6 m. l.m.t.; observe the sun on the meridian, the resulting lat. is $33^{\circ} 53'$ N.
	Thence ascend steep slope.
51.50	Top of ridge, brs. N.E. and S.W., descend 400 ft.
63.80	Wash, 15 lks. wide, course S.E., ascend steep bank 75 ft.
66.70	Top of ridge, brs. N.E. and S.W., descend.
68.15	Wash, 20 lks. wide, course S.W., ascend 150 ft.
77.20	Top of ridge, brs. E. and W., descend.
78.20	Draw, course N.E., ascend.
80.00	Set a limestone 20 x 12 x 6 ins., 13 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on S., and 3 notches on E. edge; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Magnetic declination N. $14^{\circ} 30'$ E.
	Land mountainous.
	Soil, rocky, 3rd 4th and 5th rate.
	No timber. Undergrowth: palo verde, mesquite, ocotillo, cholla.
	Very mountainous land, very broken, very steep rocky slopes and exceptionally difficult to survey, 80.00 chs.
	-----
	N. $89^{\circ} 56'$ E., on a random line, bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 28 lks. N. of cor. of secs. 2, 3, 10 and 11. Thence I run
	N. $89^{\circ} 52'$ W., on a true line, bet. secs. 3 and 10.
	Over very mountainous land, ascending steep, rocky E., slope 100 ft. with great difficulty.
3.00	Top of ridge, brs. S.E. and N.W., descend 250 ft.
29.50	Bottom of descent, ascend 200 ft.
33.50	Top of ridge, brs. N.E. and S.W., descend steep slope, with great difficulty, 500 ft. to bottom of mountain.
40.00	On steep W. slope. Set a porphyry stone, 15 x 8 x 6 ins., 10 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.
	Magnetic declination N. $14^{\circ} 30'$ E.
65.00	Bottom of slope, ascend 100 ft.
70.00	Top of ascent, descend 75 ft.
75.10	Bottom of draw, course N.E., ascend to
80.00	The cor. of secs. 3, 4, 9 and 10.
	Land mountainous. Soil, rocky, 4th and 5th rate.
	No timber. Undergrowth: palo verde, mesquite, ocotillo and cholla.
	Very mountainous land, broken, and covered with rocks, steep, rocky slopes and exceptionally difficult to survey, 80.00 chs. January 7, 1911.
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	January 8, 1911:
	N. $0^{\circ} 2'$ W., on a random line bet. secs. 3 and 4.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.69	Intersect N. bdy. of Tp., 48 lks. W. of cor. of secs. 3, 4, 33 and 34.
	January 8: At this cor. I set off $22^{\circ} 17' 30''$ S., on the decl. arc; and at 12 M., l.m.t.; observe the sun on the meridian, the resulting lat. is $33^{\circ} 54'$ N.
	Thence I run S. $0^{\circ} 19'$ W., on a true line bet. secs. 3 and 4.
	Over very mountainous land, ascending with great difficulty, 75 ft.

## Subdivision of Township 6 North, Range 4 East.

21

Chains	
3.70	Top of ascent, descend over rolling mesa, sloping S.W.
14.70	S. edge of mesa, descend steeply 90 ft.
21.10	Cottonwood wash, 70 lks. wide, course S.W., running water, ascend 400 ft.
39.69	Set a porphyry stone 15 x 10 x 6 ins., 10 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. Pits impracticable. Thence ascending.
40.30	Top of ridge, brs. N.W. and S.E., descend 75 ft.
45.19	Gully, course N.W., ascend 250 ft.
56.20	Top of ridge, brs. N.W. and S.E., descend.
63.00	Bottom of descent, ascend.
66.10	Top of ascent, descend 175 ft.
73.40	Bottom of draw, course N.W., ascend 75 ft.
76.70	Top, descend 75 ft. to
79.69	The cor. of secs. 3, 4, 9 and 10. Land, very mountainous. Soil, rocky, 3rd and 4th and 5th rate. Timber, scattering palo verde and mesquite. Mountainous land, very broken, very steep slopes and exceptionally difficult to survey, 79.69 chs. January 8, 1911.
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	February 19, 1913: From the cor. of secs. 4, 5, 32 and 33 on the south boundary previously set by me, I run N. $0^{\circ} 2'$ W., bet. secs. 32 and 33. Over mountainous land, ascending steep slope 100 ft. with great difficulty.
7.50	Ascend along steep slope.
10.00	Top of east slope, descend 50 ft.
12.75	Bottom of descent, ascend 100 ft.
19.50	Top of ascent, descend steep rhyolite hill 150 ft.
30.50	Bottom of slope, wash, course W., ascend.
34.75	Enter dense cholla.
40.00	Mark a cross on a shist stone, in place, 3 x 2 x 1 ft., 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. $14^{\circ} 30'$ E. Thence ascend steep W. slope with great difficulty.
44.00	Leave dense cholla.
47.63	Top of steep slope, 25 lks. E. to top of mountain. U.S.L.M. No. 2545 brs. S. $29^{\circ} 48'$ E., descend steeply 300 ft.
60.00	N. $23^{\circ} 10'$ E., along E. slope to Howard's Homestead.
61.45	Wash, 10 lks. wide, course N.E., ascend 50 ft.
67.00	Enter dense underbrush, mesquite and palo verde.
69.40	Top of ascent, descend 75 ft.
80.00	Set a limestone, 15 x 8 x 4 ins., 10 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked 4 notches on E. and 1 notch on S. edge, 6 N on N.E. face, 4 E on S.E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of corner. Magnetic declination N. $14^{\circ} 30'$ E. This corner falls on N. slope near wash. Land, mountainous. Soil, rocky, 4th and 5th rate. No timber. Mountainous land, broken, very steep ascents and descents, or covered with dense brush and exceptionally difficult to survey, 80.00 chs. Feb. 19, 1913.
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	January 9, 1911: From the true point for the cor. of secs. 27, 28, 33 and 34, I run S. $89^{\circ} 53'$ W., on a true line bet. secs. 28 and 33. Over mountainous land, ascending with great difficulty from wash 75 ft.
5.50	Top of ascent, descend 100 ft.
16.30	Ascend steep rise 75 ft.
18.00	Top of ascent, descend 100 ft.
20.00	Bottom of steep cliff, descend.

Chains	
25.50	Wash, 35 lks. wide, course S.W., ascend.
31.00	Top of ascent, descend.
37.50	Bottom of descent, ascend.
39.85	Set a porphyry stone 15 x 10 x 8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which A palo verde 3 ins. in diam., brs. N. 25° 50' E., 149 lks. dist., marked $\frac{1}{4}$ S 28 B T. A palo verde 3 ins. in diam., brs. S. 5° 53' E., 173 lks. dist., marked $\frac{1}{4}$ S 33 B T.
	January 9, 1911
	February 19, 1913: Thence, continuing measurements, I descend over mountainous land.
53.20	Wash, 10 lks. wide, course N, ascend.
59.95	Top of ascent, descend 30 ft.
64.95	Wash, 10 lks. wide, course N., ascend 75 ft.
69.70	Top of ascent, descend.
74.70	Bottom of wash, ascend.
76.50	Top of ascent, descend.
78.45	Bottom of descent, ascend.
79.70	The cor. of secs. 28, 29, 32 and 33, heretofore described. Soil, rocky and slaty, 4th and 5th rate. Timber, scattering scrub mesquite and palo verde. Mountainous land, broken, very steep and rocky ascents & descents & exceptionally difficult to survey, 79.70 chs.
	N. 0° 2' W., bet. secs. 28 and 29: Over mountainous land, through dense mesquite and palo cristo, descending
0.35	Bottom wash, 10 lks. wide, course W, ascend 75 ft.
2.00	Leave dense underbrush.
5.40	Top, descend 100 ft.
11.00	Enter dense underbrush.
12.00	Leave mountainous land, enter rolling land; descend over rolling land through dense brush
19.40	Gold Creek and Ft. McDowell to Cave Creek road, brs. E. and W.
22.30	Wash, 15 lks. wide, course S.W., ascend 15 ft.
24.00	Top of ridge, brs. S.W. and N.E., descend.
27.45	Wash, 1 ch. wide, course W.
28.45	Leave wash, ascend 15 ft.
28.50	E. 20.00 chs. to homestead of Howard, consisting of frame house, garden, spring and eight tent houses.
29.30	Top of ascent, descend.
30.30	Wash, 20 lks. wide, course W., ascend 10 ft.
35.00	Top of ascent, descend.
36.40	Wash, 10 lks. wide, course W., ascend.
40.00	Set a porphyry stone, 15 x 8 x 10 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which A mesquite 3 ins. in diam., brs. N. 89° W., 48 lks. dist., marked $\frac{1}{4}$ S 29 B T. A palo verde 4 ins. in diam., brs. N. 80° 10' E., 123 lks. dist. marked $\frac{1}{4}$ S 28 B T. Thence ascending over rolling land, leave dense brush.
41.25	Top of ascent, descend.
44.50	Wash, course W.
48.35	Leave same wash, ascend 20 ft.
50.00	Top of steep slope, ascend rolling mesa, enter dense palo verde, mesquite and greasewood.
60.00	Top of slope, 10 ft.
65.10	Steep descent 25 ft.
66.00	Wash, 1.00 ch. wide, course S.W., ascend 25 ft.
70.00	Top of ascent; descend 20 ft.
77.30	Bottom of descent, ascend.
80.00	Set a limestone 15 x 8 x 6 ins., 10 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked with 4 notches on E., and 2 notches on S. edge, 6 N on N.E. face, 4 E on S.E. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Land, very mountainous and rolling. Soil, gravelly, and adobe with gravel covering, 3rd and 4th rate. Timber, dense mesquite. Undergrowth: dense mesquite, palo cristo, catclaw and greasewood.

## Subdivision of Township 6 North, Range 4 East.

23

Chains	Very mountainous and rolling land, broken, steep ascents and descents, or land covered with dense brush or covered with rocks and boulders and exceptionally difficult to survey, 80.00 chs.
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	N. 89° 53' E., on a random line bet. secs. 21 and 28
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.60	Intersect N. and S. line, 23 lks. N. of true point for cor. of secs. 21, 22, 27 and 28. Thence I run, from true point for cor. N. 89° 57' W., on a true line, bet. secs. 21 and 28. Over mountainous and rolling land, ascending from wash through dense mesquite and catclaw and greasewood.
2.75	Wash, course S.W.
3.80	Cave Creek, course S.W.
6.90	Leave dense brush, ascend 40 ft.
7.25	Top of bank, descend.
11.00	Descend steeply 35 ft.
12.25	Wash, course S.W., 20 lks. wide, ascend 25 ft.
14.00	Top of ascent, descend slope to wash.
30.50	Steep descent 30 ft.
32.80	Wash, course S.W., 40 lks. wide, ascend 30 ft.
35.00	Top of bank.
38.70	Old road, Ft. McDowell to New River.
39.80	Set a porphyry stone, 15 x 10 x 6 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which A palo verde, 5 ins. in diam., brs. S. 7° 22' W., 163 lks. dist., marked $\frac{1}{4}$ S 28 B T. A palo verde 3 ins. in diam., brs. N. 66° 40' E., 73 lks. dist., marked $\frac{1}{4}$ S 21 B T. Thence ascend 50 ft.
47.50	Top of N. slope, descend.
55.10	Wash, 10 lks. wide, course S.W., ascend.
57.00	Top of ascent, descend 25 ft.
60.25	Wash, 10 lks. wide, brs. S.W., ascend.
62.00	Top of ascent, descend.
71.00	Descend steeply 30 ft. to wash.
72.15	Enter wash, course S.W.
73.20	Leave wash, ascend.
78.75	Top of slope.
79.60	The cor. of secs. 20, 21, 28 and 29 Land, mountainous and rolling. Soil, clay and gravel, 2nd and 3rd rate. Timber, mesquite and palo verde. Undergrowth: Catclaw, ocotillo and cholla. Mountainous and rolling land, some brush 79.60 chs. February 19, 1913.
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	February 20, 1913: N. 0° 2' W., bet. secs. 20 and 21. Over mountainous land, rolling and broken, through dense grease wood, palo verde and mesquite; ascending
6.10	Road to Cave Creek, brs. N.E. and S.W.
19.00	Top of ascent, descend 75 ft.
23.10	Wash, 30 lks. wide, course W., ascend.
32.00	Top of ascent, descend 50 ft.
34.15	Wash, 20 lks. wide, course W., ascend.
40.00	Set a slate stone 15 x 8 x 6 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which A palo verde 4 ins. in diam., brs. S. 3° W., 136 lks. dist., marked $\frac{1}{4}$ S 20 B T. A palo verde 5 ins. in diam., brs. N. 83° E., 205 lks. dist., marked $\frac{1}{4}$ S 21 B T. Thence ascending over rolling land, leaving dense brush.
43.00	Top of ascent, ascend over mesa sloping N.
48.00	Descend.
52.30	Wash, 10 lks. wide, course W., ascend.
56.00	Top of slope, descend.
57.55	Wash, 15 lks. wide, course S.W., ascend.
60.00	Top of ascent.

Chains	
64.00	Descend.
64.80	Enter wash, course S.W.
68.45	Leave wash, ascend 40 ft.
80.00	Set a limestone 15 x 8 x 6 ins., 10 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 4 notches on E., and 2 notches on S. edge, 6 N on N.E. face, 4 E on S.E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Magnetic declination N. 14° 30' E. Land mountainous, rolling and broken. Soil, rocky and adobe, 2nd and 3rd rate. No timber. Underbrush: mesquite, palo cristo, palo verde, greasewood, giant cactus. Mountainous land, very broken or covered with pebbles and rock or covered with brush and exceptionally difficult to survey, 80.00 chs.
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	S. 89° 57' E., on a random line, bet, secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.60	Fall 25 lks. S. of the cor. of secs. 15, 16, 21 and 22. Thence I run S. 89° 52' W., on a true line, bet. secs. 16 and 21. Over rolling land, ascending 40 ft.
2.00	Top of ascent, descend.
7.70	Wash, 15 lks. wide, course N.E., ascend.
8.50	Top of ascent, brs. N.E. and S.W., descend.
10.00	Wash, 15 lks. wide, course S.W., ascend.
12.60	Top of ascent, descend.
15.00	Road, Fleming to Cave Creek, brs. N.E. and S.W., descend.
26.10	Descend steeply 35 ft.
29.15	Wash, 5 lks. wide, course S.W., ascend 25 ft.
34.00	Top of ascent, descend.
39.80	Set a slate stone, 15 x 8 x 6 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which A mesquite 3 ins. in diam., brs. S. 43° 40' E., 267 lks. dist., marked ¼ S 21. B T. A mesquite 3 ins. diam., brs. N. 84° 44' E., 116 lks. dist., marked ¼ S 16 B T. Thence descending over rolling land.
58.20	Descend steeply, 40 ft.
60.50	Wash, Willow Springs, enter dense underbrush, catclaw, mesquite, ironwood, and palo verde.
67.00	Road, Phoenix Mine to Cave Creek, brs. S.E. and N.W.
73.00	Ascend steeply 50 ft.
75.00	Top of steep ascent, descend, leave dense brush.
78.00	Descend 50 ft. to wash.
79.60	The cor. of secs. 16, 17, 20 and 21. Land, mountainous and rolling. Soil, gravelly and adobe, 3rd and 4th rate. Timber, mesquite, palo verde, ironwood; Undergrowth: catclaw, etc. Mountainous land, steep ascents and descents, broken or covered with dense brush and exceptionally difficult to survey, 79.60 chs.
	-----
	N. 0° 2' W., bet. secs. 16 and 17. Over rolling land, ascending.
6.50	Descend steeply 20 ft.
6.80	Wash, 15 lks. wide, course S.W., ascend.
16.00	Along wash.
16.40	Leave wash, ascend steep slope 20 ft.
18.00	Top of steep ascent, descend.
26.45	Wash, 1.00 ch. wide, course S.W.
27.45	Ascend 40 ft.
31.00	Top of ascent, ascend gradually along rolling mesa, sloping S.
37.00	Descend to wash.
37.75	Wash, 1.00 ch. wide, course S.W., ascend.

## Subdivision of Township 6 North, Range 4 East.

25

Chains	
38.75	Ascend.
40.00	On S. edge of flat. Set a porphyry stone, 15 x 12 x 6 ins., 10 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° E. Ascend along rolling mesa.
42.00	Top of ascent
43.00	Enter E. slope wash, course N. and S.
63.00	Leave E. slope of wash, descend along the mesa through dense cholla.
80.00	Set a porphyry stone, 15 x 6 x 4 ins., 10 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on E., and 4 notches on W. edge; 6 N on N.E., 4 E on S.E. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Magnetic declination N. 14° 15' E. Land rolling and mountainous. Soil, gravelly and adobe, 2nd and 3rd rate. Timber, mesquite and palo verde. Mountainous and rolling land, steep ascents and descents or covered with dense brush, 80.00 chs.
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	N. 89° 52' E. on a random line bet. secs. 9 and 16
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.56	Fall 37 lks. N. of cor. of secs. 9, 10, 15, and 16, heretofore described. Thence I run N. 89° 52' W., on a true line bet. secs. 9 and 16 Over rolling mesa, descending 60 ft.
1.50	Wash, 50 lks. wide, course S.W., ascend 40 ft.
9.00	Top of ascend, descend to wash.
10.80	Wash, 10 lks. wide, course S.E., ascend 100 ft.
21.00	Top of ascent, descend 125 ft.
24.50	Wash, 8 lks. wide, course S.W., ascend 75 ft.
36.00	Top of ascent, descend 100 ft.
39.78	Set a porphyry stone 15 x 8 x 8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., mka. $\frac{1}{4}$ 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° 30' E. Thence descending 50 ft. to wash.
45.50	Wash, 15 lks. wide, course S.W., ascend 25 ft.
46.00	Top of bank, descend along S.W. slope.
51.20	Wash 25 lks. wide, course S.W., ascend.
52.00	Top of ascent, descend.
65.00	Wash, 10 lks. wide, course S.W., ascend.
66.00	Top of bank, descend.
66.85	Wash, 25 lks. wide, course S.W.
67.80	Road, Phoenix Mine to Cave Creek, brs. N.E. and S.W.
68.00	Enter dense cholla.
70.00	Road, brs. N.W. and S.E.
71.00	Top of rise, descend.
79.56	The cor. of secs. 8, 9, 16 and 17, as above described. Land, mountainous and rolling. Soil, rocky and gravelly, 3rd and 4th rate. Timber: palo verde and mesquite. Undergrowth: catclaw, ocotillo, cholla, giant cactus. Mountainous and rolling land, broken, steep ascents and descents, covered with rocks or dense brush and exceptionally difficult to survey, 79.56 chs. February 20, 1913
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	February 21, 1913.
	N. 0° 2' W., bet. secs. 8 and 9. Over mountainous and rolling land, descending.
11.25	Wash 15 lks. wide, course S.W., ascend.
12.00	Enter dense palo verde.
13.00	Wash, 10 lks. wide, course W., ascend.
14.00	Leave dense palo verde.
15.00	Top of ascent, descend.
16.00	Enter wash, 20 lks. wide, course S.W.

Chains	
17.00	Leave wash.
19.00	Enter wash, 20 lks. wide, course S.W., ascend 15 ft.
23.00	Wash, 15 lks. wide, course S.E., ascend 25 ft.
23.75	Top of ascent, descend.
24.41	Wash, 10 lks. wide, course S.W., ascend.
35.50	Descend.
36.00	Wash, 10 lks. wide, course S.E., ascend.
38.20	Descend.
39.00	Wash, 10 lks. wide, course S.W., ascend.
40.00	Set a porphyry stone, 18 x 10 x 6 ins., 12 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. $14^{\circ}$ E. Thence ascend steep slope 100 ft.
46.00	Top of slope, descend 100 ft. to Cave Creek.
52.50	Frame cabin $\frac{1}{2}$ ch. W.
55.45	Enter Cave Creek, course S.W., running water.
56.00	Ascend Cave Creek, running water.
57.00	Leave N. bank of Cave Creek, ascend steep rise 150 ft.
61.15	Top of rise, ascend gradually.
80.00	Set a porphyry boulder, 18 x 12 x 10 ins., 12 ins. in the ground for cor. of secs. 4, 5, 8 and 9, marked with 5 notches on S., and 4 notches on E. edge, 6 N on N.E., 4 E on S.E. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Magnetic declination N. $14^{\circ} 15'$ E. Land mountainous and rolling. Soil, rocky, 2nd, 3rd and 4th rate. Timber, palo verde and mesquite. Mountainous and rolling land, covered with boulders or with dense brush, and exceptionally difficult to survey, 80.00 chs.
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	S. $89^{\circ} 52'$ E., on a random line, bet. secs. 4 and 9
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.56	Fall 4 lks. S. of cor. of secs. 3, 4, 9 and 10. Thence I run N. $89^{\circ} 50'$ W., on a true line bet. secs. 4 and 9. Over very rocky and mountainous land, ascending.
3.10	Top of ridge, N.E. and S.W., descend.
8.60	Bot. of descent, draw, course N.W., ascend 90 ft.
11.40	Top of ridge, brs. N.W. and S.E., descend.
16.40	Bot. of descent, draw, course N.W., ascend 90 ft.
19.10	Top of ridge, brs. N.W. and S.E., descend 175 ft.
23.60	Bot. of descent, draw brs. N.W., ascend 50 ft.
26.30	15 ft. shaft, 10 x 8 ft.
26.50	Top of ridge, brs. N.W. and S.E., descend 30 ft.
27.00	Bot. of descent, draw, brs. N.W., ascend.
28.35	Open cut 20 lks. S. of line.
29.85	Top of ridge, brs. N.W. and S.E., descend.
31.60	Open cut 75 lks. S. of line.
35.85	6 x 8 ft. shaft, 40 ft. deep.
39.45	Road brs. N.E. and S.W.
39.78	Set a porphyry stone 14 x 10 x 6 ins., 9 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. Thence descend to Cave Creek Wash, 100 ft.
46.60	Ore dump of Phoenix mill.
49.35	Old adobe house on line, 3 chs. N. to stamp mill of Phoenix Mine.
51.10	Top of steep bank of Cave Creek, descend 30 ft.
51.70	Bottom of Cave Creek, running water
52.50	Enter dense catclaw and mesquite
59.60	Cultivated field 2.00 chs. N. of line.
62.60	Leave dense brush.
62.70	Fence brs. N. and S.
62.80	Irrigation ditch to cultivated field, 50 lks. S. of line.
64.30	5 chs. S. to one story frame house of S.E. Moran; leave Cave Creek and ascend 150 ft.

## Subdivision of Township 6 North, Range 4 East.

27

Chains	
79.56	The cor. of secs. 4, 5, 8 and 9. Land mountainous, soil rocky and gravelly, 2nd, 3rd and 4th rate. No timber. Mountainous land, steep ascents and descents, or land covered with boulders and dense brush, and exceptionally difficult to survey, 79.56 chs. February 21, 1913.
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	January 15, 1911: From the cor. of secs. 4, 5, 32 and 33 I run S. 0° 10' W., on a true line, bet. secs. 4 and 5 Over mountainous land, very rocky, ascending with great difficulty.
4.20	Top of ridge, brs. E. and W., descend 150 ft.
11.40	Bottom of draw, course S.W., ascend 30 ft.
12.00	Top of ridge, brs. N.E. and S.W., descend 25 ft.
14.20	Bottom of draw, course S.W., ascend 50 ft.
15.40	Top of cliff, descend steeply with great difficulty 200 ft
22.90	Bottom of draw, course S.W., ascend 40 ft.
23.40	Top of ascent, descend 70 ft.
24.80	Wash, 75 lks. wide, course S.E., ascend 30 ft.
27.40	Top of ridge, brs. N.E. and S.W., descend 50 ft.
28.50	Enter wash, descend along wash.
30.25	Leave wash, descend.
33.80	Bottom of descent, ascend 150 ft. over niggerheads and boulders.
39.40	Set a porphyry stone 14 x 12 x 10 ins., 9 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. Pits impracticable. Magnetic declination N. 14° 15' E. January 15, 1911.
	February 21, 1913: Thence ascend to top of rise.
48.40	Top of rise, N. edge of rolling mesa, ascend along mesa.
56.40	Steep descent 60 ft.
68.00	Bottom of descent, wash 10 lks. wide, course S.W. ascend 75 ft. over very stony and rough ground covered with niggerhead cactus.
79.40	The cor. of secs. 4, 5, 8 and 9. Land, mountainous. Soil, rocky, 4th and 5th rate. No timber: Undergrowth, ocotillo, mesquite, cholla and niggerhead cactus. Mountainous land, very steep and rocky or covered with dense brush and exceptionally difficult to survey, 79.40 chs.
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	From the cor. of secs. 5, 6, 31 and 32, on the S. bdy, I run N. 0° 3' W., bet. secs. 31 and 32. Over mountainous land, ascending.
2.65	Irrigation ditch, course S.E., descend 75 ft.
7.70	Enter wash, course S.E.
9.35	Leave wash, ascend.
11.65	Same irrigation ditch, course W.
28.75	E: 26.50 chs. to frame house on Lindell homestead, ascend 200 ft. to top of mountain, over very steep and rocky ascent, with great difficulty.
39.00	Top of mountain, S. 61° 20' E., to S.W. cor. of Lindell homestead
40.00	Set a porphyry stone 15 x 8 x 6 ins., 10 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., from which A palo verde 2 ins. in diam., brs. N. 44° W., 50 lks. dist., marked $\frac{1}{4}$ S 31 B T. Thence descend steep mountainous slope 200 ft.
49.50	Wash, 1.00 ch. wide, course S.E., ascend 250 ft.
66.00	Top of ascent, descend 75 ft.



Chains	
67.6 0	Bottom of draw, ascend 100 ft.
74.55	Top of ascent, descend along E. side of ridge.
77.00	Ascend 40 ft.
80.00	A porphyry stone, 15 x 8 x 6 ins., set 10 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S., and 5 notches on E. edge, from which A palo verde 4 ins. in diam., brs. N. 17° 30' E., 63 lks. dist., marked T 6 N R 4 E S 29 B T. A palo verde 3 ins. in diam., brs. S. 17° 15' W., 61 lks. dist., marked T 6 N R 4 E S 31 B T. And raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Magnetic declination N. 14° 30' E. Land, mountainous. Soil, rocky, 4th and 5th rate. No timber. Mountainous land, very rocky and steep ascents and descents and exceptionally difficult to survey, 80.00 chs.  This corner was set January 16, 1911. February 21, 1913.
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	February 19, 1913: From the cor. of Secs. 28, 29, 32 and 33, I run N. 89° 53' W., on a true line bet. Secs. 29 and 32.
3.50	Wash, 10 lks. wide, course N.W., descend.
4.45	Wash, 10 lks. wide, course N.W., ascend.
5.25	Top of ascent, descend.
6.25	Wash, 15 lks. wide, course N.W., ascend.
6.35	Top of ascent, descend.
10.00	Leave dense brush.
16.00	Enter dense brush.
20.00	Leave dense brush.
24.00	Enter dense brush, palo verde and catclaw, and mesquite.
25.30	Spring, 20 lks. N. of line.
26.00	Road, Cave Creek to Phoenix, brs. N. and S.; J.D. Hauck's stone and frame building and barn, boarding house, brs. N. 2.71 chs.
27.12	Road, Cave Creek, to Phoenix, brs. N. and S.
30.35	Leave dense brush.
31.00	Wire fence, brs. N. and S., enter cultivated field of J. D. Hauck, descend to Cave Creek, through field.
35.00	Fence, brs. N. and S., leave cultivated field.
35.20	Top of bank of Cave Creek.
37.25	W. bank of Cave Creek, running water, ascend.
38.00	Enter dense brush - mesquite and catclaw.
39.40	Irrigation ditch, brs. N. and S.
40.05	A porphyry stone, 14 x 12 x 8 ins., set 9 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which A mesquite 4 ins. in diam., brs. N. 60° 45' E., 54 lks. dist., marked ¼ S 29 B T. A mesquite 5 ins. in diam., brs. S. 77° 30' W., 22 lks. dist., marked ¼ S 32 B T. This corner was set January 16, 1911 February 19, 1913.
	January 16, 1911: At this ¼ sec. cor., I set off 21° 01' S., on the decl. arc, and at 12 h. 10 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 33° 50' N., and run thence on same course, continuing measurements.
42.00	Top of ascent, descend.
43.25	Wash, 25 lks. wide, course N., ascend.
46.15	Top of ascent, descend.
47.75	Bottom of descent, gully, course N., ascend 100 ft. over very mountainous, steep, rocky E. slope of mountain.
63.50	Top of ascent, descend 50 ft.
65.40	Bottom of gully, course S.E., ascend steep, mountainous slope with great difficulty, 350 ft. to top.
71.00	Along S. side of gully.
75.00	Leave gully.
80.10	The cor. of secs. 29, 30, 31 and 32.

Chains	Land, mountainous. Soil, rocky and gravelly, 1st, 2nd, 3rd, 4th and 5th rate. No timber. Undergrowth, palo cristo, mesquite and catclaw. Mountainous land, very broken or rocky, steep ascents and descents or land covered with dense brush and exceptionally difficult to survey, 80.10 chs.
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	S. 89° 58' W., on a random line, bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.69	Intersect W. bdy. of Tp., 7 lks. N. of cor. of secs. 25, 30, 31 and 36, thence I run N. 89° 55' E., on a true line, bet. secs. 30 and 31
	Over very rocky and mountainous land, descending with great difficulty.
2.00	Top of rise, descend 75 ft.
4.50	Bottom of descent, gully, course N.W., ascend 75 ft.
5.00	Top of ascent, descend 50 ft.
11.00	Wash, 10 lks. wide, course N.W., ascend.
17.45	Top of ridge, brs. N.W. and S.E., descend.
18.00	Bottom of descent, ascend.
24.00	Top of ascent, descend.
26.55	Bottom of descent, wash, 15 lks. wide, course S.W., ascend
38.00	Top of ascent, descend.
38.55	Wash, 15 lks. wide, course S.W., ascend to $\frac{1}{4}$ sec. cor.
41.69	Set a quartzite stone, 15 x 8 x 6 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which A palo verde 4 ins. in diam., brs. N. 30° 30' W., 99 lks. dist., marked $\frac{1}{4}$ S 30 B T. And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. An ironwood, 8 ins. in diam., brs. S. 55° 25' W., 101 lks. dist., marked $\frac{1}{4}$ S 31 B T. Thence ascend over mountainous land.
47.50	Wash, 15 lks. wide, course W., ascend.
56.00	Begin ascent over steep, mountainous slope with great difficulty, ascending 250 ft. over slate formation.
69.50	Top of slope, descend 200 ft.
73.50	Bottom of descent, ascend, leave slate formation, enter porphyry formation, ascend 300 ft.
79.34	Top of hill, on S. slope of hill, descend 75 ft. to cor.
81.69	The cor. of secs. 29, 30, 31 and 32. Mountainous and rolling land. Soil, rocky and gravelly, 3rd, 4th and 5th rate. Timber, scrub mesquite and palo verde. Mountainous land, steep ascents and descents and exceptionally difficult to survey, 30.00 chs. Mountainous and rolling land, 51.69 chs. January 16, 1911.
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	January 17, 1911: At 9 a.m., l.m.t., I set off 20° 50' S., on the decl. arc, 33° 49' 30" N., on the lat. arc, and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32. Thence I run N. 0° 3' W., bet. secs. 29 and 30. Over mountainous and rocky land, ascending.
4.00	Top of ascent, descend 200 ft.
12.70	Bottom of ravine, course S.E., ascend 100 ft. steeply.
16.60	Top of ascent, descend along N.E. slope of mountain 150 ft.
31.60	Bottom of ravine, 15 lks. wide, course E., ascend butte 50 ft.
33.45	Top of butte, descend 75 ft.
35.00	Wash, 15 lks. wide, course S.E., ascend 75 ft.
39.75	Top of ascent.
40.00	On N. slope in bunch of quartz croppings and float. Set a quartz stone 14 x 8 x 8 ins., 9 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound

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## Subdivision of Township 6 North, Range 4 East.

Chains	of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Thence over mountainous land, descending.
41.30	Bottom of descent, ascend 50 ft.
44.00	Top of ascent, descend 45 ft.
44.15	Bottom of descent, ascend 100 ft.
45.00	Enter dense palo verde and mesquite.
47.00	Enter wash, 15 lks. wide, course N.W.
48.20	Leave wash, ascend.
49.85	Top of ascent, descend.
63.00	Wash, 15 lks. wide, course S.E., ascend 25 ft.
73.00	Wash, 20 lks. wide, course N.E., ascend.
75.35	Top of slope, descend to wash.
76.00	Leave dense underbrush.
78.00	Old shack, 3.00 chs. E. of line.
80.00	Set a porphyry stone 14 x 12 x 8 ins., 9 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on S., and 5 notches on E. edge, 6 N on N.E., and 4 E on S.E. faces, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land mountainous. Soil, rocky and gravelly, 2nd, 3rd, 4th and 5th rate. Timber, palo verde, mesquite. Undergrowth: cholla. Mountainous land, very rough, steep, rocky slopes or land covered with dense brush and exceptionally difficult to survey, 80.00 chs. January 17, 1911.
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	February 19, 1913: From the cor. of secs. 20, 21, 28 and 29, I run S. $89^{\circ} 53'$ W., bet. secs. 20 and 29, on a true line. Over mountainous and rocky land, through dense greasewood and palo verde, ascending.
1.70	Road, Philis Camp and Phoenix Mine to Cave Creek Junction 6.00 chs. N. of line.
3.00	Top of ascent, descend gradually.
13.00	Steep descent E. bank of Cave Creek, 40 ft., leave dense brush.
15.00	Bottom of bank, enter Cave Creek, running water.
16.25	Leave Cave Creek, ascend 50 ft.
21.00	Top of W. bank of Cave Creek, descend 40 ft.
25.75	Wash, 50 lks. wide, course S., ascend 75 ft., enter dense brush.
29.50	Top of ascent, descend 20 ft.
32.20	Wash, 10 lks. wide, course S.E., ascend 250 ft. to top of ridge.
37.00	Leave dense brush.
39.97 $\frac{1}{2}$	A granite stone, 14 x 8 x 6 ins., set 9 ins. in the ground, for $\frac{1}{4}$ sec. cor. Marked $\frac{1}{4}$ on N. face, from which A palo verde 3 ins. in diam., brs. N. $32^{\circ} 30'$ W., 189 lks. dist., marked $\frac{1}{4}$ S 20 B T. A palo verde 3 ins. in diam., brs. S. $88^{\circ}$ E., 80 lks. dist., marked $\frac{1}{4}$ S 29 B T. This corner was set November 30, 1911 Magnetic declination N. $14^{\circ} 30'$ E. February 19, 1913.
	November 30, 1911: Thence ascending, on same course, continue measurements.
44.00	Descend to ravine, 40 ft.
49.20	Ravine, course S.E., ascend.
64.70	Top of 250 ft. ascent, descend 125 ft.
72.40	Wash 25 lks. wide, course N.E., ascend 50 ft.
79.95	The cor. of secs. 19, 20, 29 and 30. Land mountainous and rolling. Soil rocky, and clay gravel, 2nd, 3rd and 4th rate. Timber, mesquite and palo verde. Undergrowth: catclaw and giant cactus. Mountainous and rolling land, very rocky and steep slope, or land covered with dense underbrush, and exceptionally difficult to survey, 79.95 chs. Nov. 30, 1911.

## Subdivision of Township 6 North, Range 4 East.

31

Chains	January 17, 1911: S. $89^{\circ} 55'$ W., on a random line, bet. secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.60	Intersect W. bdy. of Tp. 5 lks. N. of cor. of secs. 19, 24, 25 and 30. Thence I run N. $89^{\circ} 53'$ E., on a true line, bet. secs. 19 and 30. Over mountainous land, ascending steeply 250 ft. on rocky W. slope.
5.60	Top of ridge, brs. N.E. and S.W., descend 100 ft.
9.50	Bottom of gulch, course N.W., ascend 100 ft.
18.40	Top of ascent on slope of mountain, descend along S.E. slope 500 ft.
34.00	Bottom of descent, ascend 75 ft.
37.00	Top of ascent, descend.
38.50	Bottom of descent, ascend 200 ft.
41.60	Set a porphyry stone, 15 x 8 x 6 ins., 10 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. Magnetic declination N. $14^{\circ} 30'$ E. Thence ascending steep slope to top of mountain.
51.15	Top of mountain, descend 300 ft.
58.60	Bottom of descent, wash 15 lks. wide, course S.W., ascend 50 ft.
73.20	Top of ascent, descend 75 ft. to cor.
81.60	The cor. of secs. 19, 20, 29 and 30. Land, mountainous. Soil, rocky, 4th and 5th rate. No timber. Undergrowth: greasewood and giant cactus. Very mountainous land, steep slopes, ascents and descents, very rocky and exceptionally difficult to survey, 81.60 chs. January 17, 1911.
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	January 18, 1911: at 9 a.m., l.m.t., I set off $20^{\circ} 38'$ S. on the decl. arc, $33^{\circ} 50' 30''$ N., on the lat. arc, and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30. Thence I run N. $0^{\circ} 3'$ W., bet. secs. 19 and 20. Over mountainous and rolling land, ascending through dense ocotillo.
4.00	Top of ascent, descend steeply 40 ft.
5.60	Wash, 10 lks. wide, course N.E., ascend.
7.25	Road, brs. S.W. and N.E.
10.00	Top of slope, descend 25 ft.
15.15	Wash, 10 lks. wide, course S.E., ascend.
22.00	Top of slope, descend.
25.00	Bottom of descent, ascend 75 ft.
28.00	Top of slope, descend 50 ft.
29.85	Wash, 10 lks. wide, course S.E., ascend.
31.15	Top of slope, descend 30 ft.
33.00	Bottom of descent, ascend.
35.45	Top of ascent, descend.
40.00	Set a porphyry stone 15 x 8 x 6 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which A palo verde 3 ins. in diam., brs. S. $66^{\circ} 26'$ E., 133 lks. dist., marked $\frac{1}{4}$ S 20 B T. And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Ascend over mountainous and rocky E. slope.
46.50	Bottom of ravine, course E, ascend.
50.75	Top of slope, descend.
55.40	Bottom of descent, ascend steep, rocky mountain slope 350 ft.
67.00	Top of rhyolite mountain, descend.
74.50	Ascend rocky ledge.
75.00	Top, descend steeply to cor.
80.00	Set a porphyry stone 15 x 8 x 6 ins., 10 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edge, 6 N on N.E., and 4 E on S.E. faces, and raise a mound of stone, .2 ft.

32 Subdivision of Township 6 North, Range 4 East.

Chains base, 1½ ft. high, W. of cor.  
Pits impracticable.  
Magnetic declination N. 14° 30' E.  
Land, mountainous.  
Soil, rocky 4th and 5th rate.  
No timber. Undergrowth: ocotillo and giant cactus.  
Very mountainous land, steep, rocky slopes or covered with dense brush and exceptionally difficult to survey, 80.00 chs.  
January 18, 1911.

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February 20, 1913: From the cor. of secs. 16, 17, 20 and 21, I run  
S. 89° 40' W., on a true line, bet. secs. 17 and 20.  
Over mountainous land, descend.  
12.00 Bottom of descent, wash, 12 lks. wide, course S.W. ascend.  
13.50 Ascend steeply 95 ft.  
17.50 Top of ascent, descend 50 ft.  
20.00 Bottom of slope, descend through dense cholla.  
36.00 Leave dense cholla, begin steep 50 ft. descent.  
39.91 A porphyry stone, 18 x 18 x 6 ins., set 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which  
A palo verde 3 ins. in diam., brs. S. 77° 30' E., 34 lks. dist., marked ¼ S 20 B T.  
And raise a mound of stone 2 ft. base, ½ ft. high, N. of cor. Magnetic declination, N. 14° 30' E.  
This corner was set January 18, 1911.  
February 20, 1913.

January 18, 1911: Thence on same course; continue measurements.  
41.80 Irrigating ditch.  
41.90 Wash, Cave Creek, 4.00 chs. wide, course S., running water. Enter dense underbrush of catclaw and mesquite.  
49.90 Leave dense brush, ascend 75 ft.  
56.50 Top of slope, descend to wash.  
59.50 Wash, 10 lks. wide, course W., ascend 400 ft. on porphyry mountain.  
69.50 Ascend steep cliff.  
70.50 Top of slope, descend 30 ft.  
77.80 Gully, course N., ascend 30 ft.  
79.70 Top of ascent, descend.  
79.82 The cor. of secs. 17, 18, 19 and 20.  
Land mountainous.  
Soil, rocky, 2nd, 3rd, 4th and 5th rate.  
Timber, palo verde, mesquite.  
Undergrowth, catclaw.  
Mountainous land, very steep and rocky or covered with dense brush and exceptionally difficult to survey, 79.82 chs.  
January 18: At the ¼ sec. cor. bet. secs. 17 and 20, I set off 20° 37' 30" S., on the decl. arc, and at 12 h. 10 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 33° 51' N.  
January 18, 1911.

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February 21, 1913: Thence I run  
S. 89° 53' W., on a random line, bet. secs. 18 and 19.  
40.00 Set temp. ¼ sec. cor.  
81.25 Fall 4 lks. S. of cor. of secs. 13, 18, 19 and 24 as heretofore described. Thence I run  
N. 89° 55' E., on a true line bet. secs. 18 and 19  
Over mountainous land, ascending.  
2.20 Top of ascent, descend.  
6.80 Wash 25 lks. wide, course N.W., ascend.  
9.00 Top of ridge, brs. N.W. and S.E., ascend.  
24.00 Wash 1.00 ch. wide, course S.W., ascend.  
29.00 Top of ascent, descend 100 ft.  
32.50 Bottom of descent, wash 1 ch. wide, course N., ascend.

## Subdivision of Township 6 North, Range 4 East.

33

Chains  
41.25 Set a limestone 18 x 10 x 8 ins., 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, from which  
A palo verde 5 ins. in diam., brs. S.  $89^{\circ}$  E., 24 lks. dist., marked  $\frac{1}{4}$  S 19 B T.  
A palo verde 6 ins. in diam., brs. N.  $14^{\circ}$  6' W., 53 lks. dist., marked  $\frac{1}{4}$  S 18 B T.  
Thence ascend 50 ft.  
53.00 Bottom of descent, ascend.  
55.00 Top of slope, descend 50 ft.  
60.00 Wash 25 lks. wide, course N.W., descend.  
65.40 Bottom of flat, ascend.  
67.00 Top of ridge, brs. N.W. and S.E., descend.  
69.40 Bottom of gully, ascend.  
72.50 Top of ascent, descend 25 ft.  
73.50 Bottom of gully, ascend 75 ft.  
76.75 Top of ascent, descend.  
78.00 Bottom of gully.  
81.25 The cor. of secs. 17, 18, 19 and 20,  
Land, mountainous and rocky.  
Soil, rocky, 4th and 5th rate.  
No timber. Undergrowth: palo verde and greasewood.  
Very mountainous and rocky land, steep and rocky ascents and descents and exceptionally difficult to survey,  
81.25 chs.

February 21, 1913.

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January 19, 1911: At 9 a.m., l.m.t., I set off  $20^{\circ}$  26' S., on the decl. arc, and  $33^{\circ}$  51' N., on the lat. arc, and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20. Thence I run  
N.  $0^{\circ}$  3' W., bet. secs. 17 and 18.  
Over steep, rocky slope, descending 200 ft.  
11:00 Bottom of steep slope, descend across valley.  
21.30 Enter wash, 25 lks. wide, course N., descend along wash.  
22.85 Enter large was, course E.  
23.30 Leave large wash, ascend steep 75 ft. slope.  
38.00 Top of slope.  
40.00 Set a porphyry stone 15 x 10 x 8 ins., 10 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.  
Pits impracticable.  
Magnetic declination N.  $14^{\circ}$  E.  
Thence descend across rolling mesa.  
43.00 Enter dense mesquite.  
80.00 On N. rim of rolling mesa. Set a porphyry stone, 14 x 8 x 6 ins., 9 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked with 5 notches on E., and 4 notches on S. edge.  
And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
Magnetic declination N.  $14^{\circ}$  E..  
Land mountainous and rolling.  
Soil, rocky and gravelly, 2nd, 3rd, 4th and 5th rate.  
No timber.  
Undergrowth, scrub mesquite, few cactus.  
Mountainous land, very steep ascents and descents or land covered with boulders or dense brush and exceptionally difficult to survey, 80.00 chs.  
January 19, 1911.

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February 20, 1913: From the cor. of secs. 8, 9, 16 and 17, I run S.  $89^{\circ}$  47' W., on  
a true line, bet. secs. 8 and 17.  
Over rolling mesa, descending through dense cholla.  
3.35 Wash, 15 lks. wide, course S.W., ascend 15 ft.  
4.10 Top of ascent, descend 15 ft.  
4.90 Wash, descend 20 ft.  
9.55 Wash, 10 lks. wide, course S.W., ascend 25 ft.  
13.30 Top of ascent, descend 20 ft.  
16.10 Wash, 10 lks. wide, course S.W., ascend.

Chains	
18.40	Top of ascent, descend.
24.30	Bottom of descent, draw, 10 lks. wide, course S.W., ascend 15 ft.
25.00	Top of ascent, descend.
39.10	Barbed wire fence, brs. N. and S.
39.95	Top of steep E. bank of Cave Creek. A porphyry stone 14 x 10 x 6 ins., 9 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which An ironwood 15 ins. in diam., brs. N. $87^{\circ} 15' E.$ , 10 lks. dist., marked $\frac{1}{4} S 8 B T.$ No other trees available Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. This corner was set January 19, 1911. February 20, 1913. January 19: At the $\frac{1}{4}$ sec. cor. bet. secs. 8 and 17, I set off $20^{\circ} 25' 30'' S.$ , on the decl. arc, and at 12 h. 10 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $33^{\circ} 52' N.$ Descend steep, rocky slope, 40 ft.
40.50	Bottom of Cave Creek flat.
45.00	Barbed wire fence brs. N. and S.
45.40	Main channel of Cave Creek, brs. S.
48.40	Bottom of W. bank of Cave Creek, ascend 100 ft.
59.00	Top of ridge, brs. N. and S., descend along W. slope 40 ft.
66.65	Descend steeply 50 ft.
67.35	Bottom of canyon, course S.E., ascend steeply.
72.40	Top of steep ascend, ascend 100 ft.
79.90	The cor. of secs. 7, 8, 17 and 18. Land, mountainous and rolling. Soil, gravel and clay, 2nd and 3rd, and 4th rate. Timber, mesquite, palo verde. Mountainous and rolling land, steep slopes covered with boulders or land covered with dense brush 79.90 chs.
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	Thence I run S. $89^{\circ} 52' W.$ , on a random line, bet. secs 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.19	Intersect W. bdy. of Tp. 11 lks. S. of cor. of secs. 7, 12, 13, and 18. Thence I run N. $89^{\circ} 57' E.$ , on a true line, bet. secs. 7 and 18. Over rolling mesa, descending.
41.19	Set a niggerhead porphyry stone, 15 x 6 x 6 ins., 10 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. Magnetic declination N. $14^{\circ} 15' E.$ Thence descend along mesa.
59.00	Top of E. rim of mesa, descend 125 ft. over niggerhead boulders.
69.00	Bottom of descent, ascend.
71.00	Top of rise, descend along rolling mesa.
81.19	The cor. of secs. 7, 8, 17 and 18. Land, mountainous and rolling. Soil, clay, 2nd and 3rd rate. Timber, mesquite and palo verde. Mountainous and rolling land, 81.19.chs. January 19, 1911.
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	January 20, 1911: At 9 a.m., l.m.t., I set off $20^{\circ} 14' S.$ , on the decl. arc, $33^{\circ} 52' N.$ , on the lat. arc, and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18. Thence I run N. $0^{\circ} 3' W.$ , on a true line, bet. secs. 7 and 8. Over very mountainous land, descending from rolling mesa 100 ft.
5.00	Leave dense mesquite.

## Subdivision of Township 6 North, Range 4 East.

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Chains  
 8.10 Wash, 20 lks. wide, course S.E., ascend steeply 125 ft.  
 11.00 Top of steep slope; ascend steeply 700 ft. up mountain.  
 Over niggerhead and lime boulders, with great difficulty.  
 40.00 On steep S.E. slope of mountain.  
 A cross (X) on a niggerhead boulder in place, 18 x 18 x 24 ins., above ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, from which  
 A palo verde 5 ins. in diam., brs. N. 75° E., 32 lks. dist., marked  $\frac{1}{4}$  S 8 B T. No other trees available.  
 Raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Magnetic declination, N. 14° E.  
 Thence ascend steep slope to top.  
 52.00 Top of ridge, brs. E. and W., descend steep, rocky slope, with great difficulty, 500 ft.  
 73.20 Bottom of descent, wash, 20 lks. wide, course E., ascend 100 ft.  
 80.00 Set a porphyry stone 15 x 8 x 6 ins., 10 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on S., and 5 notches on E. edge, 6 N on N.E., 4 E on S.E., faces, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Magnetic declination N. 13° 30' E.  
 Land, mountainous.  
 Soil, rocky, 4th and 5th rate.  
 Timber, palo verde, and mesquite.  
 Very mountainous land covered with boulders, very steep slopes and exceptionally difficult to survey, 80.00 chains.

January 20, 1911.

February 21, 1913: From the cor. of secs. 4, 5, 8 and 9 I run S. 89° 47' W., on a true line, bet. secs. 5 and 8.  
 Over mountainous land, ascending from cor.  
 5.00 Top of ascent, descend 150 ft. over steep rocky slope to bottom of gulch with great difficulty.  
 8.10 Bottom of slope, gulch, course S.E., ascend with great difficulty over steep rocky slope.  
 38.50 Top of ridge, brs. S.E. and N.W., descend steeply 100 ft.  
 40.10 A porphyry stone 15 x 8 x 6 ins., set 10 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.

Magnetic declination N. 14° 30' E.

This corner was set January 20, 1911.

February 21, 1913.

January 20, 1911: Thence continue on same course, continuing measurement, descend to gulch.  
 41.50 Gulch, course S., ascend steeply 100 ft.  
 44.00 Top of ascent, descend 50 ft.  
 49.75 Bottom of descent, draw, course S.E., ascend 125 ft., along S.E. slope.  
 55.50 Top of ridge, brs. S.E. and N.W., descend 100 ft.  
 65.30 Bottom of descent, gulch, course S.E., ascend 125 ft.  
 73.00 Top of ridge, brs. N.W. and S.E., descend 40 ft.  
 74.80 Bottom of descent, wash 10 lks. wide, course S.E., ascend 100 ft. to cor.  
 80.20 The cor. of secs. 5, 6, 7 and 8.  
 Land, mountainous.  
 Soil, rocky, 4th and 5th rate. No timber.  
 Mountainous land, very steep and rocky slopes covered with boulders, steep ascents and descents and exceptionally difficult to survey, 80.20 chs.  
 January 20, 1911: At this cor. I set off 20° 13' S., on the decl. arc, and at 12 h. 11 M., p.m.; l.m.t., observe the sun on the meridian, the resulting lat. is 33° 53' N.

January 20, 1911.



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## Subdivision of Township 6 North, Range 4 East.

Chains	January 21, 1911: At 9 a.m., l.m.t., I set off 20° 01' S., on the decl. arc, 33° 53' N., on the lat. arc, and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8, thence I run S. 89° 57' W., on a random line, bet. secs. 6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.25	Intersect W. bdy. of Tp., 12 lks. N. of cor. of secs. 1, 6, 7 and 12. Thence I run N. 89° 52' E., on a true line, bet. secs. 6 and 7. Over steep S. slope covered with niggerhead boulders, ascending 20 ft.
6.30	Top of slope, descend 175 ft. over steep slope covered with niggerhead boulders.
41.25	Set a porphyry stone 14 x 10 x 8 ins., 9 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. Magnetic declination N. 14° E.
60.30	Top of ridge, brs. S.E. and N.W., descend steeply into gulch 200 ft.
71.10	Bottom of descent, gulch, course S.E., ascend steeply 100 ft.
76.80	Top of ridge, brs. N. and S., descend 75 ft. to cor.
81.25	The cor. of secs. 5, 6, 7 and 8. Land mountainous. Soil, rocky, 4th and 5th rate. Timber: mesquite and palo verde. Undergrowth: Giant cactus, ocotillo and cholla. Very mountainous land, or land covered with boulders and exceptionally difficult to survey, 81.25 chs. January 21: At this cor., I set off 20° 00' S., on the decl. arc, and at 12 h. 11 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 33° 53' N.
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	From the cor. of secs. 5, 6, 7 and 8, I run N. 0° 3' W., on a random line bet. secs. 5 and 6.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect N. bdy. of Tp. 18 lks. W. of cor. of secs. 5, 6, 31 and 32. Thence I run S. 0° 5' W., on a true line bet. secs. 5 and 6: Over mountainous and rocky land, descending.
12.00	Bottom of descent, gulch, course E., ascend 300 ft., over very steep slope.
19.50	Top of ridge, brs. E. and W.; east 7.00 chs. to tufa peak, descend steep slope 200 ft.
34.00	Bottom of descent, gulch, 5.00 chs. wide, course E; east 5.00 chs. to steep cliffs, ascend 100 ft.
39.00	Top of ridge, brs. E. and W., descend 300 ft. to bottom.
40.20	Set a porphyry stone, 14' x 10 x 8 ins., 9 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which A palo verde 4 ins. in diam., brs. N. 83° 05' E., 105 lks. dist., marked $\frac{1}{4}$ S 5 B T. No other trees available. Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Magnetic declination N. 14° 30' E. Descend from $\frac{1}{4}$ sec. cor.
57.00	Bottom of descent, draw, course S.W., ascend 100 ft.
61.00	Top of ridge, brs. S.W. and N.E., descend 200 ft.
73.50	Bottom of descent, wash, 70 lks. wide, course S.E., ascend 40 ft.
77.00	Top of ascent, descend 40 ft. to cor.
80.20	The cor. of secs. 5, 6, 7 and 8. Land mountainous. Soil, rocky, 4th and 5th rate. No timber. Undergrowth: ocotillo, cholla, giant cactus, scattering palo verde and mesquite. Mountainous land, very steep ascents and descents, steep slopes covered with rocks and boulders, and exceptionally difficult to survey, 80.20 chs. January 21, 1911.
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January 21, 1911: At 3 p.m., l.m.t., at the true meridian established by me at my camp, I set off  $19^{\circ} 57' 30''$  S., on the decl. arc,  $33^{\circ} 50'$  N., on the lat. arc, and determine a true meridian with the solar, and mark a line in same, which falls 0.4 ins. W. of cross (X) determined by Polaris observation.

January 22, 1911: At 9 a.m., l.m.t., at my station, I set off  $19^{\circ} 47' 30''$  S., on the decl. arc;  $33^{\circ} 50'$  N. on the lat. arc, and mark the meridian thus determined by a mark on a stone which falls 0.5 ins. E. of the cross (X) determined by Polaris observation.

I therefore judge my instrument to be in correct adjustment.

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#### GENERAL DESCRIPTION.

Township 6 North, Range 4 East, is extremely mountainous, rocky and rough in the northern portion, having very steep slopes. The ground is very much broken and shattered. Geologically, slate, schist, granite and lime predominating, with occasional malapai and other forms of porphyry, intimately intermingled, and in most cases standing on edge, or at a very steep dip.

Gold bearing quartz and float is very frequent, and surface indications of mineral are very good, but the country has the appearance of being too greatly shattered and disturbed locally to expect any permanent ore deposits.

The northern portion is well watered, containing several springs.

The undergrowth is catclaw, scrub mesquite and palo verde, giant cactus, cholla, ocotillo, Spanish bayonet, with scrub oak on the northern slopes of the higher peaks

The eastern, western and southern boundaries, and for a mile on each side, are mountainous and broken, similar to the northern portion, but not to such an extreme degree.

Black mountain on the southern boundary is a big extrusion of a coarse grained, highly eroded, orthoclase granite, which upturned the area of slate lying on the west, forming the western portion of the mountain. The Mormon Girl mine is located in the slate on the south spur of this mountain.

The interior portion of the township is mountainous and rolling, is cut by deep washes, arroyos and canyons, which drain to Cave Creek from both sides.

The soil, in very small areas, in some of the washes, is a rich, sandy, loam, capable of high cultivation under irrigation.

The rolling mesas and ridges are granite base and gravel and adobe clay, or slate gravel and pebbles on top.

The undergrowth is very dense in places. A second growth of scrub palo verde, palo Cristo, mesquite, catclaw, greasewood and several varieties of cactus.

John D. Hauck, a settler is located at Cave Creek station, general store and post office, frame house, sheep-shearing outfit, spring, truck garden in Sec. 29. Truck garden and spring in Section 32.

E. B. Howard, settler, in Section 28. Frame house, colony of tent houses, spring, garden.

A. Lindell, settler, in Sec. 32. Frame house, garden and irrigated field.

S. E. Morris, settler, in Sec. 9. Frame house, irrigating ditches and farm.

January 22, 1911

*Roscoe D. M.*

U. S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

*Perce Harn*

....., 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

*Subs T & N P & E*

showing the respective capacities in which they acted:

- R B Ball* ..... Chainman.
- E E Barr* ..... Chainman.
- George W. Amuck* ..... Moundman.
- J T Thorpe* ..... Moundman.
- W G Smith* ..... Axman.
- Clare Moore* ..... Axman.
- Andrew Schermyser* ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

*Perce Harn*

....., United States Deputy Surveyor, in surveying all

those parts or portions of the

*Subs T & N P & E*

..... of the

*S & B* meridian, *Territory* of *Oregon*, 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

- Andrew Schermyser* ..... *Flagman* ..... *Chairman*.
- E. E. Barr* ..... *Chairman*.
- George W. Amuck* ..... *Moundman*.
- J T Thorpe* ..... *Moundman*.
- R B Willis* ..... *Chairman*.
- W G Smith* ..... *Axman*.
- Clare Moore* ..... *Axman* ..... *Flagman*.

Subscribed and sworn to before me this *21* <sup>*th*</sup>

day of *Jan*, 19 *11*

*Perce Harn*  
U.S. Deputy Surveyor



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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Roscoe C 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 5<sup>th</sup> day of Jan, 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 TEN PAE

of the S + R B meridian, in the Tenths 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.

Roscoe C Ham  
United States Deputy Surveyor.

Subscribed by said Roscoe C Ham, and sworn to before me  
this 1<sup>st</sup> day of February, 1911

W. H. ...  
W. H. ...



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

The foregoing field notes of the survey of the subdivided lines of T. 6 N. R. 4 E. of the S + R B, Arizona, Nov. 24, 1914

executed by Roscoe C Ham 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.  
OF ARIZONA.

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

United States Surveyor General.