Book "B"
4—679.

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BOOK 1831

-1831-

BOOK 1831

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of Tp. 10 N. Rg. 6 W.

and

Resurvey of East & South

Boundaries

1831

-1831-

Of the Gila and Salt River Meridian,

Territory of Arizona

AS SURVEYED BY

John P. Hesse, United States Deputy Surveyor,

Under his Contract No. 111, dated February 15, 1904, 189

Survey commenced April 26th 1904, 189

Survey completed May 4th 1904, 189

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1A BOOK 1831

NAMES AND DUTIES OF ASSISTANTS.

George Cassidy	Chainman
J. A. Allen	Chainman
L. L. Bailey	Flagman

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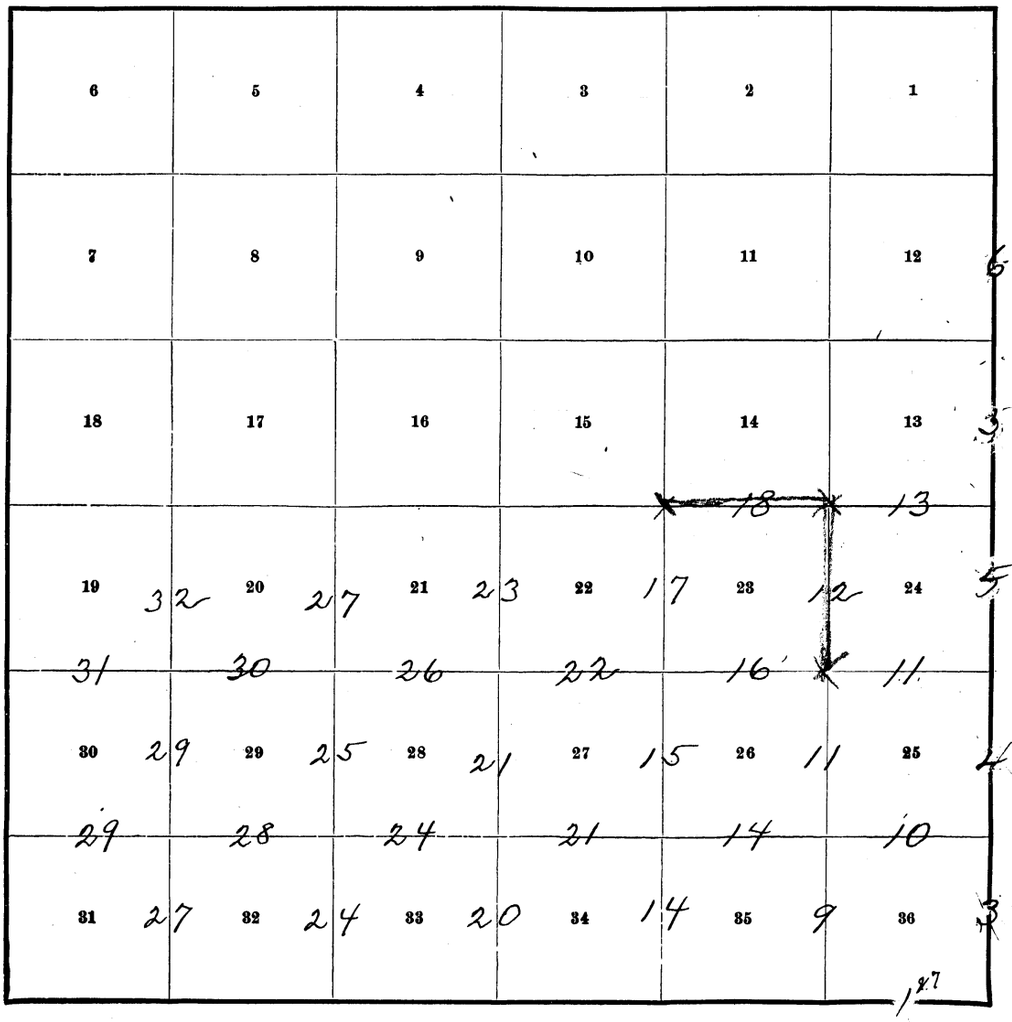
1B

BOOK 1831

INDEX DIAGRAM.

Township 10 North, *Range* 6 West



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1C

BOOK 1831

PRELIMINARY OATHS OF ASSISTANTS.

WE, George Cassidy and J. A. Allen

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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

Subdivision lines of Dpr. 10 N. Rg. 6 W.

George Cassidy, *Chainman.*

J. A. Allen, *Chainman.*

Subscribed and sworn to before me this 26th day of April 1904, 189

SEAL

John P. Hosea
U.S. Dep. Surveyor

WE, _____ and _____

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

_____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ day of _____, 189

SEAL

WE, _____ and _____

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

_____

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____ day of _____, 189

SEAL

I, S. L. Finley, 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 the Subdivision lines of Dpr. 10 N. Rg. 6 W.

S L Finley, *Flagman.*

Subscribed and sworn to before me this 26th day of April 1904, ~~189~~

SEAL

John P. Hosea
U.S. Dep. Surveyor

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Chains

Survey commenced April 26, 1904 and executed with a W. & L. E. Gurley solar compass. Compass not numbered. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the vernier of the latitude arc; the vernier of the declination arc reads to thirty seconds of arc.

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 compass and find them correct; 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 my camp which is 20 chains east of the 1/4 sec. cor. bet secs. 2 and 35 on the S. bdy. of the township; latitude 34° 09' 41". N. longitude ~~112° 50' 08" W~~ 112° 57' 37" W.; at 5 hrs ~~08 26~~ m a. m. by my watch, which has correct l. m. t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 7 hr 30 m a. m. l. m. t., I lay off the azimuth of Polaris, 1° 27.2' to the West, and mark the

Chains

meridian thus determined, by cutting a small groove in a stone set firmly in the ground 5 chs. N. of my station.

At 8h 00m a.m. l.m.t. I set off 34° 09½' N., on the lat. arc 13° 31½' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark co-incides with the meridian established by the Polaris observation

At 3h 00m p.m. l.m.t. I set off 34° 09½' N. on the lat. arc; 13° 37' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark co-incides with the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians which co-incide with the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory

The magnetic bearing of the true meridian, at 8h 30m a.m. is N. 14° 33' W.; the angle thus determined gives the magnetic decl. 14° 33' E.

April 26: At my station I set off 13° 34½' N., on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 09½' N.

April 26, 1904

April 28; At 7h 00m a.m. l.m.t. I set off 34° 09½' N. on the lat. arc; 14° 09½' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 9+10 N. Rgs. 5+6 W.

Chains

April 28, 1904 Preliminary to commencing the subdivision of this township, I run north on a blank line, on the east boundary of sec. 36; at 40.00 chs. I make diligent search for the 1/4 sec. cor. but am unable to find any trace of it, and at 80.00 chs. can find no traces of the cor. of secs. 25, 30, 31 and 36; therefore I continue my line north and at 320 chs. find trace of the cor. of secs. 7, 12, 13 and 18 and at 400 chs I find remains of the cor. of secs. 1, 6, 7 and 12, a stone faintly marked and the remains of a mound of stone I therefore resurvey the range line bet Rgs. 5 & 6 W. as follows;

The cor. of Tps. 9 and 10 N. Rgs 5 and 6 W. is a granite stone 14 x 13 x 6 ins. above ground, firmly set and marked with 6 notches on each edge, T 10 N on N. E.; R 5 W on S. E; T 9 N on S. W. and R 6 W on N. W. faces; with indications of pits on each line N. E. and W. 4 ft. and S. of stone 8 ft. dist; and a mound of earth S. of cor. nearly gone. I re dig the pits and freshen the marks on this cor.

Thence I run
North bet. secs. 31 and 36.
Over rolling mountainous land

16.80 Cross wash in ravine, 25 lks. wide, course W.

18.40 Cross telephone line bears E. and W.

40.00 Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dug. pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and passed a mound of earth

Resurvey of the East bdy. of Pk. 10 N. Rg. 6 W.

Chains	
	3½ ft. base 1½ ft. high, W. of cor.
74.20	Cross road bears N.E. and S.W.
80.00	Set a limestone 20 x 16 x 4 ins. 15 ins. in the ground for cor. of secs. 25, 30, 31 and 36 marked with 1 notch on S. and 5 notches on N. edges; dug pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high, W. of cor. (AR)
	Land, mountainous.
	Soil, rocky and sandy; 4th rate.
	No timber.
	Mountainous land, 80.00 chs.

	North bet. secs. 25 and 30.
	Over broken country.
19.25	Cross wash 50 lks. wide, course W.
30.00	Cross wash 20 lks. wide course W.
40.00	Set a granite stone 18 x 16 x 6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dug pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raised a mound of earth 3½ ft. base 1½ ft. high, W. of cor. (AR)
48.75	Cross wash 20 lks. wide, course W.
59.15	Cross dim. road bears E. and W.
73.00	Cross wash 25 lks. wide, course W.
80.00	Set a granite stone 18 x 16 x 6 ins. 12 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges; dug pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high, W. of cor. (AR)
	Land, mountainous.
	Soil, rocky and sandy; 4th rate.
	No timber.
	Mountainous land, 80.00 chs.

Chains	
	North bet. secs. 19 and 24.
	Over broken country.
4.75	Cross wash 20 lks. wide course W.
8.75	Cross dim road bears N.E. and S.W.
13.75	Cross wash 20 lks. wide, course W.
18.25	Cross road bears E. and W.
40.00	Set a granite stone 18 x 10 x 10 ins. 12 ins. in the ground for 1/4 sec. cor.; marked 1/4 on W. face; and raised a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable
42.00	Cross wash 20 lks. wide, course W.
52.25	Cross wash 20 lks. wide, course W.
70.75	Cross wash 20 lks. wide, course W.
80.00	Set a granite stone 22 x 10 x 9 ins. 16½ ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges; and raised a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
	From this cor. the S.E. cor. of the Piedmont Cattle Company's house bears S. 59° 30' W. 38.80 chs. dist.
	From this cor. the chimney on the Congress pumping station bears N. 62¾° W.
	Land, broken and mountainous.
	Soil, rocky; 4th rate.
	No timber.
	Mountainous land, 80.00 chs.
	Clouds prevented an observation for latitude.

	North bet. secs. 13 and 18
	Over mountainous broken land.
1.50	Cross wash 100 lks. wide, course W.
19.30	Cross road bears E. and W.
20.00	Cross wash 20 lks. wide course W.
40.00	Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor.

Chains

8/K marked ¼ on W. face; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.

From this ¼ sec. cor. the chimney on the Congress pumping station bears S. 78° 25' W.

50.15 Cross gully, course W. 20 lks. wide

59.25 Cross road, bears E. and W.

67.00 Cross wash, 25 lks. wide, course W.

80.00 (OK) Set a granite 18 x 12 x 8 ins. 12 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N. edges; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable

Land, mountainous.

Soil, rocky; 4th rate.

No timber.

Mountainous land 80.00 chs.

North bet. secs. 7 and 12.

Ascending over rolling mountains.

7.50 Cross wash 20 lks. wide, course W.

40.00 (OK) Set a granite stone 24 x 12 x 6 ins. 18 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; and raised a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.

53.00 Cross wash 20 lks. wide course W.

57.00 Cross wash 20 lks. wide course W.

59.75 Cross wash 20 lks. wide course W.

75.40 Cross wash 15 lks. wide course W.

80.00 (OK) I destroy old cor. and set a granite 26 x 14 x 10 ins. 19½ ins. in the ground for cor. of secs. 1, 6, 7 and 12 marked with 5 notches on S. and 1 notch on N. edges; and raised a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable

Land, mountainous.

Soil, rocky; 4th rate.

Mountainous land 80.00 chs. April 28, 1904

Chains.	
	April 29: I am unable to find the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp. and therefore after diligent search I go to the cor. of Tps. 9 & 10 N. Rgs. 5 and 6 W. and resurvey ~~...~~ part of the S. boundary of the Tp. as follows;
	At 7h 00m a.m. l.m.t. I set off 34° 09½' N. on the lat. arc; 14° ~~28~~' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 9 and 10 N. Rgs. 6 & 5 W.
	Thence I run
	West bet secs. 1 and 36.
	Over rolling land.
6.15	Cross gulch 5 lks. wide course S.W.
11.00	Cross wash 10 lks. wide course S.
19.50	Cross wash 10 lks. wide course S.W.
24.00	Cross wash 50 lks. wide course S.
28.50	Cross wash 100 lks. wide course S.
35.50	Cross wash 50 lks. wide course S.
40.00	16 lks. S. of this point I find a trace of the ¼ sec. cor. and re-establish it as follows:
	Set a granite stone 16 x 6 x 3 ins. 11 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dug pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and raised a mound of earth 3½ ft. base 1½ ft. high, N. of cor.
	The length of this half mile is 40.00 chs. and the course S. 89° 46' W.
	Thence I continue West from my 40.00 chn. point through dense catclaw brush.
46.07	Cross telephone line bears N. 85° W. and S. 85° E.
44.40	Cross wash 40 lks. wide, course S.
51.20	Cross road, bears N. and S. and leave brush and ascend.
67.30	Cross gulch 50 lks. wide, course S.E.
76.55	Cross gulch 20 lks. wide, course S.E.
77.20	Cross road, bears N.W. and S.E.

Resurvey of the S. bdy. of Tp. 10 N. Rg. 6 W.

Chains	
77.39	Cross road, bears S.E. and N.W.
79.11	Cross gulch, 20 lks. wide course S.E.
80.00	I find a trace of old cor. and set a granite stone 18 x 12 x 8 ins. 1½ ins. in the ground for cor. of secs. 1, 2, 35 and 36 marked with 1 notch on E. and 5 notches on W. edges; dug pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high, W. of cor. Pine corns
	~~of last half mile is N. 89° 46' W. 40.00 chs.~~
	Land level and mountainous
	Soil, sandy; 4th rate.
	No timber.
	Underbrush, catclaw.
	Mountainous land or land covered with dense undergrowth 40.00 chs.

Chains	
	April 29: At the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Pp. I set off 14° 31' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 34° 39½' N.
	At the cor. of secs. 1, 2, 35 and 36 previously described, at 1h 00m p. m. l. m. t. I set off 34° 09½' N. on the lat. arc; 14° 32' N. on the decl. arc; and determine a meridian with the solar
	Thence I run
	N. 0° 01' W. bet. secs. 35 and 36.
	Over level land.
3.10	Cross road, bears E. and W.
3.40	S. side of coal bunkers.
3.57	N. side of coal bunkers.
3.68	Center of R. R. spur, bears E. and W.
6.10	Road, bears E. and W.
6.27	Telephone line, bears E. and W.
6.87	Telephone line, bears E. and W.
7.40	S. E. cor. of house bears W. 20 lks. dist.
10.00	Country becomes broken and mountainous
12.25	Cross road bears N. E. and S. W.
25.95	Cross gulch 20 lks. wide course S. E.
40.00	Set a granite stone 16x10x10 ins. 11 ins. in the ground for 1/4 sec. cor. marked "4 on W. face; dig pits 18x18x12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.
40.25	Cross road, bears E. and W.
43.08	Cross wash, 30 lks. wide course E.
48.00	Cross road, bears E. and W.
80.00	Set a granite stone 18x10x10 ins. 12 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
	Land, mountainous and level.
	Soil, rocky and sandy; 4th rate

chains	
	No timber Mountainous land 60.00 chs.
	East on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect E. bdy. of Twp. 7 lks. S. of cor. of secs. 25, 20, 31 and 36. Thence S run S. 89° 57' W. on a true line bet. secs. 25 and 36. Over rolling mountainous land.
18.80	Cross dirt road bears N. and S.
23.00	Descend.
26.00	Over level land through dense mesquite brush.
40.02	Set a granite stone 16 x 10 x 4 ins. 11 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. Pits impracticable
41.50	Cross wash 30 lks. wide course S.
43.00	Ascend over rough granite ridge bears N. and S.
56.00	Top ridge and over mountainous land.
71.95	Cross road bears N. and S.
72.50	Cross wash 100 lks. wide course S.
80.04	The cor. of secs. 25, 26, 35 and 36. Land, mountainous and level. Soil, rocky and sandy; 4th rate. No timber. Mesquite brush. Mountainous land or land covered with dense undergrowth 80.04 chs.

April 29, 1904

April 30: at 7h 00m a.m. l.m.t. I set off 34° 10½' N. on the lat. arc; 14° 46½ N. on the decl. arc; and determine a

Chains	
	meridian with the solar at the cor. of secs. 25, 26, 35 and 36.
	Thence S. run
	N. 0°01' W. bet. secs. 25 and 26.
	Ascending over rolling mountains.
15.35	Road bears N.W. and S.E.
27.10	Cross S. P. P. and P.R.R. bears E. and W.
27.75	Telegraph line bears E. and W.
40.00	Set a granite stone 18 x 14 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable
41.10	Cross road, bears N.W. and S.E. and ascend steep rocky S.W. slope of mountain.
80.00	The point for cor. falls on a granite rock in place 5" x 4" x 4" above ground, I mark a cross (+) for exact point for cor. and 2 grooves S. and 1 groove E. of cross; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky; 4th rate.
	No timber.
	Mountainous land 80.00 chs.

	N. 89°57' E. on a random line bet. secs. 24 and 25
40.00	Set temp. 1/4 sec. cor.
80.20	Intersect E. bdy. of Pp. 2 lks. N. of cor. of secs. 19, 24, 25 and 30.
	Thence S. run
	S. 89°58' W. on a true line bet. secs. 24 and 25.
	Over rolling mountainous land.
14.50	Cross wash 50 lks. wide course S.
15.00	Cross road bears N. and S.

Subdivision of Twp. 10 N. Rg. 6 W.

Chains	
25.00	Cross wash 60 lks. wide course S.
27.00	Cross wash 50 lks. wide course S.
31.70	Cross road bears N. and S.
32.00	Ascend steep E. slope of mountain
33.10	Cross S. P. P. and P. R. R. bears N. and S.
33.70	Cross telegraph line bears N. and S.
39.15	Cross stone fence bears N. and S.
40.10	Set a granite stone 18x12x5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable
73.00	Top mountain and descend
80.20	The cor. of secs. 23, 24, 25 and 26

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Mountainous land 80.20 chs.
April 30: At this cor. I set off 14° 49½' N. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is 34° 11½' N.

N. 0° 01' W. bet. secs. 23 and 24.
Ascending rough rocky W. slope of mountain.

8.00	Top mountain and descend along N. E. slope.
40.00	Set a granite stone 18x10x8 for 1/4 sec. cor. 12 ins. in the ground, marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
80.00	The point for cor. falls on a granite rock in place 4x3x1 ft. above ground I mark a cross (+) for exact cor. point with 3 grooves S. and 1 groove E. of cross; and raise a mound of stone 2 ft. base 1½ ft. high W.

Chains	
	of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th rate. No timber. Mountainous land, 80.00 chs.
	N. 89°58' E. on a random line bet. secs. 13 and 24
40.00	Set temp. 1/4 sec. cor.
80.15	Intersect E. bdy. of Twp. 7 lks. S. of cor. of secs. 13, 18, 19 and 24 Thence S. run S. 89°55' W. on a true line bet. secs. 13 and 24.
25.25	Cross wash 50 lks. wide course S.
30.55	Cross road, bears N. and S.
31.20	Cross road, bears N. and S.
33.10	Cross road, bears N. and S.
38.90	Point for 1/4 sec. cor. falls in wash so at 38.90 set a granite stone 20 x 16 x 5 ins. 15 ins. in the ground for witness 1/4 sec. cor. marked W. C. 1/4 on N. face; and dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, N. of cor.
40.075	Cross wash 80 lks. wide course S.
43.12	Cross S. F. R. & P. R. R. bears N. and S.
48.00	Cross fence bears N.E. and S.W.
69.75	Cross fence bears N.E. and S.W.
80.15	The cor. of secs. 13, 14, 23 and 24. Land, mountainous. Soil, rocky; 4th rate. No timber. Mountainous land 80.15 chs. Note: The country north is rocky and barren and of no value for agricultural or grazing purposes. I therefore abandon this tier of secs. here.

3.04 b

Subdivision of Twp. 10 N. Rg. 6 W.

Chains	
	April 30, 1904.
	May 1: At 7h 00m a.m. l.m.t. I set 34° 09½' N. on the lat. arc; 15° 05' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 which is a granite stone 8x8x6 ins above ground, marked and witnessed as described by the surveyor general.
	Thence I run
	N. 0° 01' W. bet. secs. 34 and 35.
	Over level land.
20.72	Cross road, bears E. and W.
26.65	Cross wash, 20 lks. wide course S.W.
40.00	Set a granite stone 20x14x4 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18x18x12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
49.98	Cross road, bears E. and W.
62.95	Cross road, bears E. and W.
80.00	Set a granite stone 18x6x4 ins. 12 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edges; dig pits 18x18x12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
	Land, level.
	Soil, sandy 2nd rate.
	No timber.
	East on a random line bet. secs. 26 and 35
40.00	Set temp. 1/4 sec. cor.

Chains	
80.02	Intersect N. and S. line 5 lks. N. of cor. of secs 25, 26, 35 and 36 Thence Drum N. 89° 58' W. on a true line bet. secs. 26 and 35. Over rolling mountainous land.
9.87	Cross road, bears N. and S.
17.92	Cross S.P.P.&P.R.R. bears N. and S.
27.00	Cross wash 30 lks. wide course S.
35.00	Cross telephone line bears N. and S.
35.96	Cross road and telephone line bears N. and S.
40.01	Set a granite stone 18 x 8 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
43.00	Cross wash 30 lks. wide course S.
45.55	Cross wash 20 lks. wide course S.
55.05	Cross wash 20 lks. wide course S.E.
57.00	Over level land.
60.85	Cross Congress Gold Cos. R.R. bears N. and S.
62.48	Cross road, bears N. and S.
80.02	The cor. of secs. 26, 27, 34 and 35. Land, level and mountainous. Soil, rocky and sandy; 2nd and 4th rate. No timber. Mountainous land 57.00 chs.

	N. 0° 01' W. bet. secs. 26 and 27 Over level land.
7.66	Cross road bears N.E. and S.W.
30.60	Ascend rough S. slope mountain
34.00	Along rough N.E. slope.
40.00	Set a granite 22 x 12 x 9 ins. 16½ ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits

Chains	
	impracticable.
45.27	Runnel bears West, 100 lks. dist.
45.70	Over level land.
46.47	Cross road bears N.W. and S.E.
47.35	Cross's Congress Mining Co's. R.R. bears N.W. and S.E.
66.80	Cross Congress Mining Co's. R.R. bears N.E. and S.W.
71.35	Cross road bears N.E. and S.W.
80.00	Set a granite stone 22 x 12 x 8 ins. 16½ ins. in the ground for cor. of secs. 22, 23, 26 and 27 marked with 2 notches on S. and E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, level and mountainous.
	Soil, sandy and rocky; 2nd and 4th rate.
	No timber.
	Mountainous land 15.10 chs.
	May 1: At this cor. I set off 15° 08' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. 34° 11½' N.
	S. 89° 58' E. on a random line bet. secs. 23 and 26
40.00	Set temp. ¼ sec. cor
80.10	Intersect N. and S. line 14 lks. S. of cor. of secs. 23, 24, 25 and 26
	Thence I run
	S. 89° 56' W. bet. secs. 23 and 26 on a true line.
	Descend steep W. slope
33.00	Over level land.
40.05	Set a sand stone 18 x 16 x 3 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft.

Chains	
	base 1½ ft. high N. of cor.
51.15	Telephone line, bears N. and S.
52.10	Cross road, bears N. and S.
52.95	Telephone line, bears N. and S.
71.55	Cross wash course S. 20 lks. wide.
78.15	Cross Congress Mining Co. R.R. bears N 5° E. and S. 5° W.
79.00	Cross road bears N. 5° E. and S. 5° W.
80.10	The cor. of secs. 22, 23, 26 and 27. Land, level and mountainous. Soil, rocky and sandy; 2nd and 4th rate. No timber. Mountainous land 33.00 chs.
	N. 0° 01' W. bet. secs. 22 and 23 Over level land.
3.45	Fence bears N.E. and S.W. around quarantine station.
4.00	Fence N.W. and S.E. around quarantine
12.07	The S.W. cor. of grand stand at baseball grounds bears N. 54° E. 120 lks. dist.
12.60	Cross road, bears N.E. and S.W.
17.45	Cross road, bears E. and W.
18.45	Cross road, bears E. and W.
20.00	Cross wash, 30 lks. wide course S.W. and over rolling mountainous country ascending.
29.00	Cross road, bears N.E. and S.W.
40.00	Set a granite stone 18×10×7 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable. From this ¼ sec. cor. the N.W. cor. of house bears S. 75° E. 400 lks. dist.
58.38	From this point the spire on Public Hall in Congress bears

Subdivision of Twp. 10 N. Rg. 6 W.

Chains	
	S. 71° 13' E.
65.37	Cross road bears E. and W.
73.75	Cross wash, course E.
75.75	Road bears E. and W.
76.60	Cross road bears E. and W.
80.00	Set a granite stone 26 x 14 x 10 ins. 19½ ins. in the ground for cor. of secs. 14, 15, 22 and 23 marked with 3 grooves on S. and 2 grooves on E. edges; and raise a mound of stone 3 ft. base 4 ft. high W. of cor. Pits impracticable.
	From this cor. U. S. Mineral Monument No. 1 Martinez District bears N. 25° 24' E. 21.45 chs. dist.
	From this cor. the spire on Public Hall in Congress bears S. 45° 00' E.
	Land, level and mountainous.
	Soil, rocky and sandy; 2nd and 4th rate.
	No timber.
	Mountainous land 60.00 chs.
	N. 89° 56' E. on a random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
80.16	Intersect N. and S. line 9 lks. N. of cor. of secs. 13, 14, 23 and 24.
	Thence Down
	West on a true line bet. secs. 14 and 23
	Ascending steep E. slope mountain
12.00	Top mountain and descend.
13.50	Along rough S. slope of mountain
20.05	Cross narrow gauge R. R. bears N. & S.
26.90	Cross mine R. R. bears N. W. and S. E.
26.95	Cross bridge bears N. W. & S. E. carrying mine R. R.
30.29	Cross mine R. R. bears N. E. & S. W.
30.49	Cross mine R. R. bears N. E. & S. W.

30.72	Cross wagon road bears N.E. and S.W.
33.93	Phe N.E. cor. coal chute.
35.40	Water tank.
35.80	Mine R.R. bears N.E. and S.W.
37.40	Cross road bears N.E. and S.W.
39.55	Phe point for ¼ sec. cor. falls on steep side hill where it may be carried away if established so at 39.55 I mark a cross (+) on a sandstone rock in place 2 x 2 x 1 ft. above ground and W.C. ¼ N. of cross for witness ¼ sec. cor. and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
40.00	From this point the N.E. cor. of Congress Mill bears S. 4.00 chs. dist.
41.05	E. side ore chute.
41.70	W. side ore chute.
43.46	Mine R.R. track bears N. and S.
43.52	Telephone line.
43.69	Mine R.R. track, bears N. and S.
44.00	Mine R.R. track, bears N. and S.
45.00	Cross road bears N. and S.
49.75	Cross road bears N.E. and S.W.
50.00	Descend steep W. slope.
53.85	Cross road bears S.E. and N.W.
60.00	Bottom of mountain and over rolling mountainous land.
65.00	S.E. cor. house bears N. 10 lks. dist.
68.25	Cross wash 20 lks. wide, course S.
80.16	Phe cor. of secs. 14, 15, 22 and 23. Land, mountainous. Soil, rocky 4th rate. No timber. Mountainous land 80.16 chs. Note: Although this line must pass over the claims of the Congress Mining Co. I was unable to find any of the corners and as the engineer

Subdivision of Dp. 10 N. Rg. 6 W.

Chains	
	in charge was absent could find no one who could show me the corners and am unable therefore to give the intersections with claim lines. As the country N. is barren and of no value for agriculture or grazing I discontinue this tier. May 1, 1904
	May 2nd; At 7h 00m a.m. l. m. t. I set off 34° 04½' N. on the lat. arc; 15° 23' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Dp. which is a malpais stone 10 x 8 x 5 ins. above ground, marked and witnessed as described by the Surveyor General.
	Thence I run
	N. 0° 02' W. bet. secs. 33 and 34.
	Over level land.
26.95	Cross road, bears N.W. and S.E.
40.00	Set a granite stone 18 x 12 x 12 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist; and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.
53.20	Cross road bears N.W. and S.E.
57.20	Cross old road, bears N.E. and S.W.
80.00	Set a granite stone 16 x 16 x 5 ins. 11 ins. in the ground for cor. of secs. 27, 28, 33 and 34 marked with 1 notch on S. and 3 notches on E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, level.
	Soil, sandy, 2nd rate.
	No timber.

Chains	
	East on a random line bet. secs. 27 and 34
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect N. and S. line 28 lks. S. of cor. of secs. 26, 27, 34 and 35
	Thence I run:
	S. 89° 48' W. on a true line bet. secs. 27 and 34.
	Over level land
2.20	Cross road bears N.E. and S.W.
40.02	Set a granite stone 20 x 12 x 9 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of cor.
42.17	Cross road, bears N.E. and S.W.
50.15	Cross wash, 20 lks. wide course S.
80.04	Pht. cor. of secs. 27, 28, 33 and 34.
	Land level.
	Soil, sandy; 2nd rate.
	No timber.
	N 0° 02' W. bet. secs. 27 and 28
	Over level land through mesquite brush.
6.90	Cross road, bears N.E. and S.W.
36.70	Cross road, bears N.E. and S.W.
40.00	Set a granite stone 16 x 8 x 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, W. of cor. 3 ft. dist.
41.00	Cross wash 10 lks. wide course E.
80.00	Set a white quartz stone 20 x 16 x 10 ins. 15 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3

Chains	
	notches on E. edges; dig pits 18x18 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4ft. base 1½ ft. high W. of cor.
	Land, level.
	Soil, sandy; 2nd rate.
	No timber.
	Underbrush, mesquite.
	Land covered by dense under-growth 80.00 chs.
	N. 89°48' E. on a random line bet. secs. 22 and 27
40.00	Set temp. ¼ sec. cor.
80.12	Intersect N. and S. line 2 lks. N. of the cor. of secs. 22, 23, 26 and 27. Thence S. 89°49' W. on a true line bet. secs. 22 and 27
	Over rolling mountainous land through mesquite brush.
5.35	Cross Road, bears N.E. and S.W.
8.25	Cross road, bears N.E. and S.W.
9.00	Cross road, bears N.E. and S.W.
19.00	Cross wash 30 lks. wide course S.
33.00	Cross wash 40 lks. wide course S.
40.06	Set a granite stone 16x12x8 ins. 11 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
56.00	Cross wash 20 lks. wide, course S.
62.25	Cross wash 20 lks. wide, course S.
75.00	Cross road bears S.E. and N.W.
80.12	The cor. of secs. 21, 22, 27 and 28.
	Land mountainous.
	Soil, sandy and rocky; 2nd and 4th rate.
	No timber.

Chains	
	underbrush mesquite. Mountainous land or land covered with dense undergrowth 80.12 chs
	N. 0°02' W. bet. secs. 21 and 22 Over rolling land through brush and cactus.
2.50	Cross road, bears N.W. and S.E.
3.25	Cross road, bears E. and W.
9.95	Cross road, bears E. and W.
26.75	Cross wash, 20 lks. wide, course S.E.
32.00	Ascend steep S. slope.
40.00	Set a granite stone 26 x 10 x 8 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. May 2: At this cor. I set off 15° 26' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 34°12' N. The country N. of this cor. being barren and of no value for agricultural or grazing purposes, I discontinue this line. Land, rolling and mountainous Soil, rocky and sandy; 2nd and 4th rate. Underbrush, mesquite. Mountainous land or land covered by dense undergrowth 40.00 chs.
	From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Dp. which is a malpais stone 8 x 8 x 5 ins above ground, marked and witnessed as described by the surveyor general I run

Subdivision of Tp. 10 N. Rg. 6 W.

Chains	
	N. 0° 02' W. bet. secs. 32 and 33
	Over level land
18.75	Cross road, bears N.E. and S.W.
40.00	Set a granite stone 18 x 10 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, W. of cor. (OK)
52.55	Cross road, bears S.E. and N.W.
67.75	Cross road, bears S.E. and N.W.
80.00	Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 28, 29, 32 and 33 marked with 1 notch on S. and 4 notches on E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. (OK)
	Land, level.
	Soil, sandy; 2nd rate.
	No timber.
	East on a random line bet. secs. 28 and 33
40.00	Set temp. 1/4 sec. cor.
80.03	Intersect N. and S. line 2 lks. N. of cor. of secs. 27, 28, 33 and 34.
	Thence Drun
	N. 89° 59' W. on a true line bet. secs. 28 and 33
	Over level land.
10.06	Cross road, bears N.E. and S.W.
40.015	Set a granite stone 20 x 16 x 6 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of cor. (OK)
60.15	Cross wash 20 lks. wide course S. and through palo verde brush

76.20	Cross wash 20 lks. wide course S. and leave brush.
80.03	The cor. of secs. 28, 29, 32 and 33 Land, level. Soil, sandy; 2nd rate. No timber. Underbrush pals verde. Land covered with dense undergrowth 6.05 chs.

May 2, 1904

May 3: At 7h 00m a.m. l.m.t. I set off 34° 10½' N. on the lat arc; 15° 41' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 28, 29, 32 and 33.

Thence I run

N. 0° 02' W. bet. secs. 28 and 29

Over level land

7.10	Cross road bears E. and W.
9.00	Through pals verde brush.
9.25	Wash 20 lks. wide course S.E. and cross and recross same to
39.00	Leave wash course S.W.
40.00	Set a granite stone 14 x 14 x 10 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
52.00	Ascend steep S. slope
62.00	Top ridge bears E. and W. and descend
80.00	Set a Granite stone 18 x 12 x 6 ins. 12 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches on E. edges; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits

Chains	
	impracticable. Land, level and mountainous Soil, rocky and sandy; 2nd and 4th rate. No timber. Underbrush, palo verde. Mountainous land or land covered with dense undergrowth 80.00 chs.
	S. 89° 59' E. on a random line bet. secs. 21 and 28.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect N. and S. line 2 lks. S. of cor. of secs. 21, 22, 27 and 28. Thence S. run West on a true line bet. secs. 21 and 28 Over level land through mesquite brush and cactus.
27.25	Cross wash 15 lks. wide course S.
34.65	Cross gully 3 lks wide course S.
40.02	Set a granite stone 18 x 10 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
45.00	Cross wash 15 lks. wide course S.
46.00	Cross wash 10 lks. wide course S. E.
63.00	Leave brush and ascend steep E. slope.
80.04	The cor. of secs. 20, 21, 28 and 29. Land, level and mountainous. Soil, rocky and sandy; 2nd and 4th rate. No timber. Underbrush, mesquite. Mountainous land or land covered with dense undergrowth 80.04 chs.

Chains	
	N. 0° 02' W. bet. secs. 20 and 21
	Descend steep N. slope.
8.0.0	Bottom and over rolling mountains ascending.
24.35	Cross road bears E. and W.
40.00	Set a granite stone 20 x 14 x 5 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
	May 3: at this cor. I set off 15° 43 1/2' N. on the decl. arc; and observe the sun on the meridian at noon the resulting lat. is 34° 12' N.
	The land north of this cor. being barren and mountainous and of no value for agricultural purposes or grazing I discontinue this line.

	From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Pfs. which is a malpais stone 8 x 6 x 5 ins. above ground, marked and witnessed as described by the surveyor general I run
	N. 0° 03' W. bet. secs. 31 and 32
	Over level land
40.00	Set a granite stone 18 x 8 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
53.00	Cross road, bears E. and W.
53.45	Cross road, bears E. and W.
67.86	Cross road, bears E. and W.
73.26	Cross road, bears E. and W.
76.75	Cross road bears E. and W.

Subdivision of Twp. 10 N. Rg. 6 W.

Chains	
80.00	Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for cor. of secs. 29, 30, 31 and 32 marked with 1 notch on S. and 5 notches on E. edges; dig pits 18 x 18 x 12 ins in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
	Land, level.
	Soil, sandy; 2nd rate.
	No timber
	East on a random line bet. secs. 29 and 32
40.00	Set temp. ¼ sec. cor.
79.80	Intersect N. and S. line 5 lks. N. of cor. of secs. 28, 29, 32 and 33
	Thence S. on N. 89° 58' W. on a true line bet. secs. 29 and 32
18.00	Cross road, bears N.E. and S.W.
31.00	Over granite ridge 160 ft. high bears N. and S.
39.00	Leave granite ridge and through Mesquite brush over level land.
39.80	Cross road, bears N. and S.
39.90	Set a granite stone 18 x 9 x 4 ins. for ¼ sec. cor. marked ¼ on N. face; 12 ins. in the ground; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
79.80	The cor. of secs. 29, 30, 31 and 32
	Land level and mountainous.
	Soil, sandy and rocky; 2nd and 4th rate.
	No timber.
	Underbrush, mesquite.
	Mountainous land or land covered with dense undergrowth 18.00 chs.

Chains	
	West on a random line bet. secs. 30 and 31
40.00	Set temp. 1/4 sec. cor.
79.37	Intersect W. bdy. of Twp. at the cor. of secs. 25, 30, 31 and 36.
	Thence Drun
	East on a true line bet. secs. 30 and 30, level land through brush.
2.87	Cross gully, 10 lks. wide course S.
15.37	Cross gully, 10 lks. wide course S.
26.87	Cross gully, 10 lks wide course S.
36.87	Cross gully, 5 lks wide course S.
39.37	Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of cor.
40.57	Cross wash 10 lks. wide course S. and leave brush.
56.22	Cross dim road, bears N.W. and S.E.
60.65	Cross road bears N.W. and S.E.
66.20	Cross road bears N.W. and S.E.
79.37	The cor. of secs. 29, 30, 31 and 32.
	Land, level.
	Soil, sandy; 2nd rate.
	No timber.
	Land covered with dense undergrowth 40.57 chs.
	May 3, 1904

May 4; at 7h 00m a.m. l.m.t. I set off 34° 10 1/2' N. on the lat. arc. 15° 58 1/2' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32.

Thence Drun

N. 0° 03' W. bet. secs. 29 and 30.

Subdivision of Dp. 10 N. Rg. 6 W.

Chains	
	Over level land through palo verde brush
8.50	ascend steep S. Slope.
35.00	Dp mountain and over mountain top.
40.00	Point for cor. falls on a rock in place 2 x 2 x 1 ft. above ground Smark a cross (+) for exact point for cor. and 1/4 W. of cross for 1/4 sec. cor.; and raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable.
43.00	Descend steep N. slope
54.00	Bottom and over rolling mountains.
55.50	Cross wash course W. 40 lks wide
65.50	Cross old road, bears E. and W.
80.00	Set a granite stone 24 x 10 x 8 ins 18 ins. in the ground for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on S. and 5 notches on E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.; and raise a mound of earth ~~4~~ ft. base ~~2~~ ft. high W. of cor.
	Land, mountainous and level.
	Soil, rocky and sandy; 2nd and 4th rate.
	No timber.
	Mountainous land or land covered with dense undergrowth 80.00 chs.

	S. 89° 58' E. on a random line bet. secs. 20 and 29
40.00	Set temp. 1/4 sec. cor.
79.95	Intersect N. and S. line 21 lks. S. of cor. of secs. 20, 21, 28 and 29
	Thence I run
	~~S. 89° 53' E.~~ on a true line bet. secs. 20 and 29

Chains	
	Ascend steep E. slope.
8.00	Dpn mountain bears N. and S. and descend
39.975	Point for cor. falls on a granite rock in place 30 x 12 x 8 ins. above ground, I mark a cross (+) at exact point for cor. and 1/4 N. of cross for 1/4 sec. cor.; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.
50.00	Foot of mountain and over rolling mountains.
79.95	Phe cor. of secs. 19, 20, 29 and 30. Land, mountainous. Soil, rocky; 4th rate. No timber. Mountainous land 79.95 chs.

West on a random line bet. secs. 19 and 30.

40.00	Set temp. 1/4 sec. cor.
79.30	Intersect W. bdy. of Dpn. 23 lks. S. of cor. of secs. 19, 24, 25 and 30.

Thence I run S. 89° 50' E. bet. secs. 19 and 30. Over rolling land through palo verde brush.

11.10	Cross road bears N. and S.
26.00	Cross wash 50 lks. wide course S.
39.30	Set a granite stone 22 x 14 x 7 ins. 16½ ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
72.00	Cross wash 50 lks. wide course S.
79.30	Phe cor. of secs. 19, 20, 29 and 30. Land, rolling.

Soil, rocky 4th rate.
No timber
Underbrush, palo verde.
Land, covered with dense under-
growth 79.30 chs.

N 0°03' W. bet. secs. 19 and 20.
Ascending over rolling mountains
through palo verde brush.

18.00 Cross wash 30 lks. wide course S.W.
23.50 Cross wash 20 lks. wide course S.W.
39.40 Cross road bears E. and W.
40.00 Set a granite stone 18x9x3 ins.
12 ins. in the ground for 1/4 sec.
cor. marked 1/4 on W. face; dug
pits 18x18x12 ins. N. and S. of
cor. 3 ft. dist.; and raised a
mound of earth 3½ ft. base 1½
ft. high W. of cor.
The land north being barren and
worthless for agricultural or
grazing purposes I discontinue
this line.
Land, mountainous
Soil, rocky; 4th rate.
No timber.
Mountainous land 40.00 chs.

May 4, 1904

This Tp. is rough and worthless in the
northern part and level in the south-
ern part and has land that will
afford good grazing. There is no water
and no timber in the Tp. Congress is
located in sec. 23 and the town of
Martinez in sec. 35. There are no
other settlers in the Tp.

John D. Hisse
U. S. Dep. Surveyor

May 4, 1904

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 1831

LIST OF NAMES.

A list of the names of the individuals employed by John D. Hesse, 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 the subdivision lines of Twp 10 N. Rg. 6 W.

showing the respective capacities in which they acted:

George Cassidy, *Chainman.*

J. A. Allen, *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

S. L. Finley, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John D. Hesse, United States Deputy Surveyor, in surveying all those parts or portions of the subdivision lines of Twp. 10 N. Rg. 6 W.

of the Gila Salt River meridian, Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona

George Cassidy, *Chainman.*

J. A. Allen, *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

S. L. Finley, *Flagman.*

Subscribed and sworn to before me this 4th day of May 1904, 189

SEAL

John D. Hesse
U. S. Dep. Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John F. Hesse, 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 15th day of February 1904, 189 , 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 the subdivision lines of Tps. 10 N. Rg. 6 W.

of the Gila and Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

John F. Hesse
United States Deputy Surveyor.

Subscribed by said John F. Hesse, and sworn to before me this 4th day of June 1904, ~~189~~

SEAL

Frank S. Ingalls
U. S. Surv. General
for Arizona.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix A.T., May 4, 1905, ~~189~~

The foregoing field notes of the survey of the subdivisions of T. 10 N., R 6 W and resurvey of the East and South Bdrs. of the Gila and Salt River Base and Meridian, Arizona

executed by John F. Hesse, U. S. Deputy Surveyor under his contract No. 111, dated February 15, 1904, ~~189~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General.

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

~~United States Surveyor General.~~

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BOOK 1831

FIELD NOTES

OF THE SURVEY OF THE

Connecting Lines

of

Surveyed Mining Claims

situate in

T 10 N R 6 W.

with

Public Land Surveys

for

Purpose

of

Segregation

Of the Gila and Salt River Meridian,

Territory of Arizona

AS SURVEYED BY

John P. Hesse, United States Deputy Surveyor,

Under his Contract No. 111, dated Feb. 15th 1904, ~~189~~

Survey commenced January 5, 1905, 189

Survey completed January 6, 1905, 189

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BOOK 1831.

NAMES AND DUTIES OF ASSISTANTS.

George W. Cassidy	Chairman
Will W. Oliver	Chairman
A. A. Snyder	Flagman

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BOOK 1831

INDEX DIAGRAM.

*Township*_____, *Range*_____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
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*Meanders Page*_____

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BOOK 1831

PRELIMINARY OATHS OF ASSISTANTS.

WE, George W. Cassidy and Will W. Oliver do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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 the ties to mineral claims in Tp. 10 N. Rg. 6 W.

George W. Cassidy, *Chainman.*

Will W. Oliver, *Chainman.*

Subscribed and sworn to before me this 3rd day of January, ~~189~~ 1905

SEAL

John F. Hesse
U. S. Dep. Surveyor.

No notary available without great expense and loss of time.

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

_____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ day of _____, 189

SEAL

_____

_____

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

_____

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____ day of _____, 189

SEAL

_____

_____

I, A. A. Snyder, 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 the ties to mineral claims in Tp. 10 N. Rg. 6 W.

A. A. Snyder, *Flagman.*

Subscribed and sworn to before me this 3rd day of January, ~~189~~ 1905

SEAL

John F. Hesse
U. S. Dep. Surveyor

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No notary available without great expense and loss of time.

Chains.

Survey commenced January 5, 1905 and executed with a W. and L.E. Gurley solar compass. Compass not numbered. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc which is also the least count of the vernier of the lat. arc. The declination arc reads to thirty seconds of arc.

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 compass and find them correct, 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. 14, 15, 22 and 23 Tp. 10 N. Rg. 6 W. latitude 34° 12' N. longitude 112° 51' 10" W. at 12 h. 25.14 m. a. m. by my watch which has correct l. m. t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chains N. of my station.

At 7h. 00m. a. m., l. m. t., I lay off the azimuth of Polaris, 1° 27' to the east, and mark the meridian thus determined, by cutting a small gruove in a stone firmly set 5 chains N. of my station.

At 8h. 00m. a. m. , l. m. t,, I set off 34° 12' N. on the lat. arc.; 22° 35' S. on the dec'l. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chains N. of my station; this mark coincides with the meridian established by the Polaris observation.

At 3h. 00m. p. m. l. m. t., I set off 34° 12'N. on the lat. arc; 22° 34 1/2' S. on the dec'l. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chains N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus,by a. m. and p. m. observations, defines positions for meridians, which coincide with the meridian established by the Polaris observation therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h. 30' a. m., is N. 14° 30' W. the angle thus determined gives the magnetic declination 14° 30' E.

January 5, 1905.

January 6: At 8h. 00m. a. m. l. m. t., I set off 34° 12' N. on the lat. arc; 22° 28' S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs 14, 15, 22 and 23,

Thence I run

East bet. secs. 14 and 23

00.62 Intersect line 3-4 Golden Thread lode at S. 41° 30' E. 162.1ft. from cor. No. 4 Golden Thread.

12.74 Intersect line 1-2 Golden Thread lode at S. 41° 30' E. 692.9 ft. from cor. No. 1 Golden Thread.

13.14 Intersect line 5-6 Incline lode at S. 45° 15' E. 46.8 ft. from cor. No. 5 Incline lode.

26.04 Intersect line 2-3 Incline lode at S. 45° 15' E.972.3 ft. from cor. No. 3 Incline lode.

26.17 Intersect line 2-3 Mosuri lode at S. 49° 51' E. 78.9 ft. from cor. No. 3 Mosuri, and N. 49° 51' W. 538.5 ft. from cor. No. 2.

34.977 Intersect line 4-5 Congress lode at N. 22° 37' W. 77.7 ft.from cor. No. 4 Congress lode and 133.7 ft. from cor of the Fraction lode.

37.61 Intersect line 2-6 Mosuri lode at S. 44° 45' W. 111.2 ft. from cor No. 6 Mosuri lode.

54.65 Intersect line 2-3 Congress lode at S. 64° 45'W. 185.8.

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Segregation survey in Tp. 10 N. Rg. 6 W.

Chains	
57.753	from cor. No. 2 Congress lode. Intersect east end line of Fraction lode at S. 25° 15' E. 87.27 ft. from the N.E. cor. Fraction lode. From cor. of secs. 14, 15, 22 and 23 ~~cor. No.~~ Cor. No. 4 Golden Thread bears N. 28° 43' W. 138.42 ft. Cor. No. 3 Incline bears N. 56° 25'E. 1257.7 ft. Cor. No. 5 Incline bears N 87° 44'E. 834.6 ft. Cor. No. 6 Golden Eagle bears S. 68° 59' E. 1519.9 ft. Cor. No.5 Niagara bears S. 71° 54'E. 2134. ft. Cor. No. 3 Niagara bears S. 87° 55' E. 2158.4 ft. Cor. No. 5 Ohio bears S. 42° 07' E. 2474.8 ft. U. S. M. M. No.1 bears N.25° 24'E. 1415.7 ft. January 6, 1905. John A. Hesse U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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LIST OF NAMES.

A list of the names of the individuals employed by John P. Hesse, 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 the ties to mineral claims in Tp. 10 N. Rg. 6 W.

showing the respective capacities in which they acted:

George W. Cassidy, *Chainman.*
Will W. Oliver, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
A. A. Snyder, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John P. Hesse, United States Deputy Surveyor, in surveying all those parts or portions of the ties to mineral claims in Tp. 10 N. Rg. 6 W.

of the Gila and Salt River meridian, Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona

George W. Cassidy, *Chainman.*
Will W. Oliver, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
A. A. Snyder, *Flagman.*

Subscribed and sworn to before me this 6th day of January, ~~189~~ 1905

SEAL

John P. Hesse
U. S. Dep. Surveyor

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No notary available without great expense and loss of time

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John D. Hesse, 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 ____ day of ____, 189 , 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 the ties to mineral claims in Tp. 10 N. Rg. 6 W.

of the Gila and Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

John D. Hesse
United States Deputy Surveyor.

Subscribed by said John F. Hesse, and sworn to before me this 11th day of February 1904

Frank S. Ingalls

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A.T., Feby. 31st 1904.

The foregoing field notes of the survey of connecting lines of the surveys of mining claims situate in T10N R6W with the lines of public land surveys for the purpose of segregation

executed by John F. Hesse U.S. Deputy Surveyor under his contract No. 111, dated January 1st 1904, ~~189~~ , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General.

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

~~*United States Surveyor General.*~~

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