

2073 BOOK 2073

FIELD NOTES

OF THE SURVEY OF THE

2073

2073

Subdivision of Tp. 15 S., R. 22 East,

Resurvey of East Bdy. of Tp. 15 S., R. 22 E., and

Retracement of 3rd. Standard Parallel South,

through R. 22 East.

2073

Of the G. & S. R. B. & Meridian,

Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 145, dated April 15, 1907.

Survey commenced September 14, 1907

Survey completed September 30, 1907.

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2073

2073

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 (13)

BOOK 2073

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BOOK 2073

Reference is had to "B," Subs.T.13 S. R.12 E.
for, PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
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 _____

_____, *Chainman.*
_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



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 _____, 190 }



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 _____, 190 }



I, _____, 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 _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



Chains.

Survey commenced September 14, 1907, and executed with a Young and Son light mountain transit, No. 7492, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and decl. arcs. The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the Surveyor General for Arizona, July 15, 1907.

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. 25, 30, 31 and 36, Tps. 15 S., Rs. 22 and 23 E., latitude $32^{\circ}5'N.$; longitude, $110^{\circ}03'24''W.$, I set off $32^{\circ}5'N.$ on the lat. arc; and $3^{\circ}36'N.$ on the decl. arc, and at 5h. p. m., l. m. t., determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of the cor.

At 8h. 00' p. m., by my watch, which is correct, I observe Polaris at eastern elongation, in accordance with the 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. September 14, 1907.

September 15, 1907. At 6h. a. m., l. m. t., I set off the azimuth of Polaris, $1^{\circ}24'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set September 14th, on which the meridian coincides with the meridian determined with the solar.

At 7h. 30m. a. m., l. m. t. I set off $32^{\circ}5'N.$ on the lat. arc; $3^{\circ}21'N.$ on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of my station, which coincides with the meridian established by the Polaris observation.

The magnetic bearing of the true meridian, at 8h. 30m., a. m., l. m. t., is $N. 13^{\circ}40'W.$; the angle thus determined gives the magnetic decl. $13^{\circ}40'E.$

From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of Tp. 15 S., R. 22 E., I run, West, on the sectional correction line, bet. secs. 25 and 36.

- 6.00 Ascending gradually over level land.
- 24.00 Main wash, 50 lks. wide, course ENE. Ascend along right side of wash.
- 40.00 Main shaft of Yankee Doodle Mining Company, brs. N. 150 chs. dist.
- 62.00 Set a quartzite stone, 36x24x12 ins., 24 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face, and raise a mound of stone, 2 ft. base, $1-1/2$ ft. high, N. of cor. Pits impracticable. Ascend gradually.
- ~~62.00~~
~~62.90~~
62.54 Wash, 10 lks. wide, course SSE.
- 64.10 Intersect the East side line of the Southern Lode, Sur. No. 327, at a point $N. 32^{\circ}15'W.$, 65 lks. from the SE. cor. of said claim, where I set a quartz stone 26x12x8 ins., 18 ins. in the ground for closing cor., marked C C on the E. and S. on the W. face, with 1 notch on the S. face, and raise a mound of stone, 2 ft. base, $1-1/2$ ft. high E. of corner. *SE. cor. of Southern Lode brs. $N 32^{\circ}42'W 21.05$ chs.*
- ~~73.56~~
73.20 Road to Johnson's Camp, brs. NW. and SE. Ascend over butte.
- Intersect the W. side line of the Southern Lode Claim, Survey No. 327 at a point $N. 31^{\circ}30'W.$, 377 chs. from the SW. corner of said claim, where I set a quartzite stone 26x12x8 ins., 18 ins. in the ground for a closing corner, marked C C on the W. face, and S on the E. face, with 1 groove on the S. face, and raise a mound of stone 2 ft. base, $1-1/2$ ft. high W. of cor. *SW. cor. of Southern Lode brs. $N 31^{\circ}30'W 15.47$ chs.*

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BOOK 2078

Chains.
80.00

Set a granite stone, 24x12x8 ins., 18 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on the S. and E. edges, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable. Land, level and mountainous. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite and greasewood. Mountainous land, exceptionally difficult to survey, 16 chs.

West, bet. secs. 26 and 35.
Ascending over rolling land.
2.10 Wash, 50 lks. wide, course S.
4.00 Road to Johnson's Camp, brs. NW. and SE.
14.70 Telephone line, Johnson's Camp to Russellville, brs. NW. and SE.
15.30 Road, brs. WNW. and ESE.
19.50 Wash, 20 lks. wide, course S.
30.00 Top of Butte brs. N. 10.00 chs. dist.
39.00 Ascend over rocky ridge.
40.00 Point for 1/4 sec. cor. falls on granite boulder in place, 48x36x24 ins. above ground, which I mark with a cross (x) for exact 1/4 sec. cor. point, and 1/4 N. of cross, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of boulder. Pits impracticable.
44.65 Telephone line, Johnson's to Dragoon, brs. N. & S. Descend.
57.00 Begin ascent along N. side of Butte.
67.95 Highest point of Butte brs. S. 3.00 chs. dist.
House brs. N. 57° E.
80.00 Set a granite stone, 30x12x8 ins., 22 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on the S. and 2 notches on the E. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, sandy and stony; 2nd and 3rd rate. No timber; undergrowth, greasewood and mesquite. Mountainous land, exceptionally difficult to survey, 30.00 chs.

West, bet. secs. 27 and 34.
Ascending over rolling land.
33.25 Wash, 15 lks. wide, course SW.
40.00 Set a limestone, 24x12x8 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor. Pits impracticable.
50.00 Begin steep ascent.
66.08 Top of ridge. High point brs. NNE. 8.00 chs. dist.
Descend.
74.50 Wash, 10.00 lks. wide, course S.
80.00 Set a limestone, 24x12x4 ins., 18 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on the S. and 3 notches on the E. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable.
A mesquite, 5 ins. diam., brs. N. 57° W., 94 lks. dist., marked T 15 S R 22 E S 28 B T.
No other trees available.
Land, mountainous.
Soil, sandy and gravelly, 2nd and 3rd rate.
No timber; undergrowth, greasewood.
Mountainous land, exceptionally difficult to survey, 80.00 chs.
September 15: At noon, I set off 3°16' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32°5' N.

Sectional Correction Line, Township 15 South, Range 22 East.

chains	West, bet. secs. 28 and 33. Descending over rolling land.
17.00	Wash, 1.00 ch. wide, course S. Joind wash running S. of line.
21.00	Wash, 20 lks. wide, course ESE.
29.55	Old road, brs. Nw. and SE.
35.00	Wash, 50 lks. wide, course SE.
40.00	Set a shale stone, 20 X 10 X 4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	An oak, 12 ins. diam., brs. S. $82^{\circ} 45'$ W., 111 lks. dist., marked $\frac{1}{4}$ S 33 B T.
	An oak, 10 ins. diam., brs. N. $31^{\circ} 15'$ W., 97 lks. dist., marked $\frac{1}{4}$ S 28 B T.
4.00	Wash, 25 lks. wide, course NE. Same wash as at 35 chs. Zigzags along line for 4.00 chs. then course NNE.
80.00	Set a granite stone, 20 X 12 X 12 ins., 15 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	An oak, 12 ins. diam., brs. S. 44° E., 150 lks. dist., marked T 15 S R 22 E S 33 B T.
	An oak, 12 ins. diam., brs. S. 27° W., 105 lks. dist., marked T 15 S R 22 E S 32 B T.
	No other trees available.
	Land, mountainous.
	Soil, sandy and gravelly; 2nd and 3rd rate.
	Timber, scattering oak; undergrowth, oak, mesquite.
	Mountainous land, exceptionally difficult to survey, 80.00 chs.

	West, bet. secs. 29 and 32.
	Ascending along S. slope of mountain.
19.00	Rocky ledge.
25.00	Rocky wash, 20 lks. wide, course ESE.
	Thence ascend steep slope.
40.00	Point for $\frac{1}{4}$ sec. cor. falls on sandstone in place, 24 X 12 X 6 ins. above ground, which I mark with a cross (x) for exact $\frac{1}{2}$ sec. cor. point, with $\frac{1}{4}$ N. of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
48.76	Divide, extends N. and S.
49.00	Descend abruptly. High point of mountain brs. N. $\frac{1}{2}$ mile dist., and high point brs. S. $\frac{2}{3}$ miles dist.
60.00	Head of gulch, 10 lks. wide, course S, thence WSW.
75.00	Ridge, extends N. and S. Descend.
79.75	As point for cor. of secs. falls in gulch, I set a granite stone, 20 X 10 X 8 ins., 15 ins. in the ground, for witness corner, marked W C on W., with 1 notch on the S. and 5 notches on the E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
80.00	Gulch, 25 lks. wide, course SSW.
	Land, mountainous.
	Soil, sandy and gravelly; 2nd and 3rd rate.
	No timber; undergrowth, oak and mesquite.
	Mountainous land, exceptionally difficult to survey, 80.00 chs.

Sectional Correction Line, Township 15 South, Range 22 East.

chains

West, bet. secs. 30 and 31.
 Ascending gradually, over mountainous land.
 2.00 Gulch, 30 lks. wide, course SSW.
 4.50 Top of spur, extends SW.
 13.00 Begin steep descent over broken land along S. side
 of ridge.
 34.66 Top of small spur, extends S.
 40.00 Set a slate stone, 30 X 10 X 10 ins., 22 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{2}$ on N. face, and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
 of cor. Pits impracticable.
 An oak, 18 ins. diam., brs. S. 12° E., 151 lks.
 dist., marked $\frac{1}{4}$ S 31 B T.
 No other tree available.
 60.00 Top of ridge, extends NE. and SW. Descend along N.
 side of same.
 61.40 Fence, brs. NE. and SW.
 80.00 Set a slate, 24 X 12 X 10 ins., 18 ins. in the ground
 for cor. of secs. 25, 30, 31 and 36, marked with 1
 notch on the S. and 5 notches on the N. edge, and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
 of cor. Pits impracticable.
 An oak, 18 ins. diam., brs. N. 81° 30' E., 70 lks.
 dist., marked T 15 S E 22 E S 30 B T.
 An oak, 12 ins. diam., brs. S. 83° 30' W., 87 lks.
 dist., marked T 15 S R 21 E S 36 B T.
 An oak, 12 ins. diam., brs. N. 55° W., 150 lks.
 dist., marked T 15 S R 21 E S 25 B T.
 No other tree available.
 Land, mountainous.
 Soil, sandy and gravelly; 2nd and 3rd rate.
 Timber, scattering oak; undergrowth, oak and mesquite.
 Mountainous land, exceptionally difficult to survey,
 80.00 chs.

September 15, 1907.

Resurvey of the East Boundary of Tp. 15 South, R. 22 East.

chains

Starting at the cor. of Tps. 15 S., Rs. 22 and 23 E., which is a stone, marked and witnessed as described by the Surveyor General, I run north on a true line, along the East bdy. of secs 36.

Ascending slightly over rolling land.

33.00 Descend abruptly over bluff, 50 feet high, extends NE. and SW.

36.00 Bottom of descent, thence along valley of wash.

40.00 Set a quartz stone, 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. Pits impracticable.

After diligent search I fail to find any trace of old $\frac{1}{4}$ sec. cor.

49.00 Main wash, 2.00 chs. wide, course E.

54.00 Old road, brs. NE. and SW.

56.50 Main road, brs. NE. and SW.

63.10 Wash, 10 lks. wide, course E.

80.00 I find signs of old corner, and re-set same by setting a quartz stone, 24 X 12 X 10 ins., 18 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the N. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

A post, marked Y D brs. N. $86\frac{1}{2}^{\circ}$ W., 370 lks. dist.

Land, rolling.

Soil, sandy and gravelly; 2nd and 3rd rate.

No timber.

Rolling land, 80.00 chs.

September 18: At noon, I set off $2^{\circ} 7'$ N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is $32^{\circ} 5'$ N. ✓

North, along the East bdy. of secs. 25.

Ascending gradually over rolling land.

2.50 Wash, 20 lks. wide, course ESE.

34.80 Railroad grade to Johnson, brs. E. and W.

35.36 Road, Johnson to Cochise, brs. E. and W.

40.00 After diligent search I fail to find any trace of old $\frac{1}{4}$ sec. cor.

Set a limestone, 24 X 12 X 10 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

80.00 ~~After diligent search, I fail to find cor. so.~~ Set a granite stone, 24 X 12 X 12 ins., 18 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on the S. and 4 notches on the N. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. No trace of old cor.

Land, rolling.

Soil, sandy and gravelly; 2nd and 3rd rate.

No timber.

Rolling land, 80.00 chs. September 19, 1907.

September 19, 1907. At 7h a.m., 1.m.t., I set off $1^{\circ} 50'$ N. on the decl. arc, and $32^{\circ} 6'$ N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 19, 24, 25, and 30:

Resurvey of the East Boundary of Township 15 South, Range 22 East.

chains	Thence I run, North, on the east bdy. of sec. 24. Over rolling land.
5.00	Wash, 150 lks. wide, course E.
27.00	Road, Johnson to Cochise, brs. E. and W.
38.80	Mining monument on line.
40.00	After diligent search I fail to find any trace of old $\frac{1}{4}$ sec. cor. Set a limestone, 18 X 12 X 10 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 ftl base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
52.00	Wash. 1.00 ch. wide, course E.
80.00	After diligent search I fail to find any trace of old cor. Set a quartz stone, 18 X 12 X 8 ins., 12 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, sandy and gravelly; 2nd and 3rd rate. No timber. Rolling land, 80.00 chs.

40.00	North, along the East bdy. of sec. 13; Over rolling land. After diligent search I fail to find Cor. 3 Set a limestone, 18 X 9 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. No trace of old $\frac{1}{4}$ sec. cor. found.
43 00	Road, Johnson to Wilcox, brs. SW. and NE.
80.00	After diligent search I fail to find any trace of old cor. Set a quartz stone, 18 X 6 X 6 ins., 12 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked on W. face, and ^{2 notches on N. edge, 1 notch on S. edge} raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, 2nd and 3rd rate. No timber. Rolling land, 80.00 chs.

September 19: At noon I set off $1^{\circ} 43'$ N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is $32^{\circ} 8'$ N. ✓	
40.00	North, along the East bdy. sec. 12. Over rolling land. Set a limestone, 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. Pits impracticable. No trace of old $\frac{1}{4}$ sec. cor found.
60.00	Draw, 2.00 chs. wide, course E.
80.00	After diligent search I fail to find any trace of old cor. Set a sandstone, 18 X 6 X 6 ins., 12 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, marked with 5 notches on the S., and 1 notch on the N edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, sandy and gravelly, 2nd and 3rd rate. No timber. Rolling land, 80.00 chs.

Resurvey of the East Bdy. of Tp. 15 South, R. 22 East.

chains	North, along the east Bdy. of Sec. 1. Over rolling land.
4.00	Dry wash, 20 lks. wide, course E.
22.00	Dry wash, 30 lks. wide, course SE.
40.00	No trace of old sec. cor. found after most diligent search. Set a sandstone, 20 X 6 X 4 ins., 15 ins. in the ground, for sec. cor., marked on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
43.50	Dry wash, 40 lks. wide, course SE.
80.00	After diligent search I fail <i>dilapidated mound of stones</i> to find any trace of old sec. cor. so Set a granite stone, 20 X 10 X 6 ins., 15 ins. in the ground, for cor. of Tps. 14 and 15 S., Rs. 22 and 23 E., marked with 6 grooves on each face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable. Land, rolling Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite.

September 19, 1907.

Retracement 3rd Standard Parallel South, through R. 22 East.

chains

Failing to close my sectional correction line in running south on the W. Bdy. of Sec. 31, Tp. 15-S., R. 22-E., within the limits prescribed in the Manual, I find it necessary to retrace the Third Standard Parallel South. I begin at the Stan. Cor. of Tps. 15 S., Rs. 22 and 23 E. which is a white quartz rock, 9 X 6 X 6 ins. above ground, marked and witnessed as described by the Surveyor General, from which

The clos. cor. of Tp. 16 S., Rs. 22 and 23 E., brs. East, 11.24 chs. dist.

September 21, 1907. At 7h a.m., l.m.t., I set off 1° 03' N. on the decl. arc, and 32° 4' N. on the lat. arc, and determine a true meridian with the solar at the Stan. cor. of Tps. 15 S., Rs. 22 and 23 E.

Thence I run,

West along the S. Bdy. of Sec. 36,
Over heavily rolling land.

35.71 Find the old sec. cor., 7 lks. S. of line, evidently the sec. cor. on N. Bdy. of Sec. 1, Tp. 16-S., R. 22 E. marked and witnessed as described by the Surveyor General.

34.26 Dry wash, 10 lks. wide, course SW.

39.76 Find Standard sec. cor., 20 lks. S. of line, which is a granite rock, 5 X 9 X 3 ins. above ground, marked and witnessed as described by the Surveyor General.

Course of this 1/2 mile is S. 89° 43' W.

Thence I run,
West, from 1/4 cor., continuing measurement.

49.72 Dry wash, 10 lks. wide, course SE.

63.46 Dry wash, 10 lks. wide, course S.

64.97 Road, brs. NW. and SE. From Dragoon to Russellville.

68.80 Old clos. cor. bet. secs. 1 and 2 of Tp. 16 S., R. 22 E 6 lks. N. of line, marked and witnessed as described by the Surveyor General.

70.73 Fence, brs. SSE. Enter scattering mesquite.

73.81 Dry wash, 10 lks. wide, course SE., leave mesquite.

79.52 Find old Standard cor. of secs. 35 and 36, 20 lks. N. of line, which is a post in a monument of stones, marked and witnessed as described by the Surveyor General.

Course of this 1/2 mile is N. 89° 43' W.

Land, heavily rolling.
Soil, gravelly; 2nd and 3rd rate.
No timber; undergrowth, scattering mesquite and greasewood.
Land, heavily rolling, 79.52 chs.

West, along the S. Bdy. of Sec. 35.
Over heavily rolling land.

89.25 Find old sec. cor. 3 lks. S. of line, referring to sec. 2, of Tp. 16 S., R. 22 E., marked and witnessed as described by the Surveyor General.

37.65 Fence, brs. N. and S.

39.80 Find old Standard sec. cor. of secs. 35, on line, which is a post marked s, set in the ground, Old mound destroyed, therefore I rebuild mound, 2 ft. base, 1 1/2 ft. high, N. of cor.

46.45 Road, brs. NE. and SW.

46.97 Fence, brs. N. and S.

55.50 House of A. H. Wien, brs. N. 48° W., 12 chs. dist.
House of W. A. Fiege brs. N. 28° E., about 10 chs. dist.

68.45 Fence, brs. N. and S.

69.17 Find the clos. cor. to secs. 2 and 3, Tp. 16 S., R. 22 E., marked and witnessed as described by the surveyor General.

House of B. F. Halderman brs. N. 60° W., 3.00 chs. dist.
House of Geo. Scherer brs. N. 42° E., about 5.00 chs. dist.

Retracement of 3rd Standard Parallel South, through Range 22 East.

	chains	House of A. H. Wein brs. N. 54° E., about 8 chs. dist. Schoolhouse brs. N. 9° E., 7 chs. dist.
79.60		Find old standard cor. on line, which is a stone, 20 X 8 X 7 ins., above ground, marked and witnessed as described by the Surveyor General. Land, heavily rolling. Soil, sandy; 2nd and 3rd rate. No timber; undergrowth, scattering mesquite and greasewood. Heavily rolling land, 79.60 chs.
		----- West, along the S. Bdy. of Sec. 34. Ascending gradually over mountainous land.
15.80		Main wash, 1.00 ch. wide, course ENE.
31.08		Fence, brs. NE. and SE.
39.50		Find old Standard 1/4 sec. cor. on line, which is a post marked and witnessed as described by the Surveyor General.
40.86		Set a limestone, 12 X 10 X 6 ins., 9 ins. in the ground, for 1/4 sec. cor., to sec. 34 of Tp. 15 S., R. 22 E., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., from which A mesquite, 6 ins. diam., brs. N. 20 1/4° W., 270 lks. dist., marked 1/4 S 34 B T.
64.00		Dry wash, 10 lks. wide, course SE.
79.22		Find old Standard cor. of secs. 33 and 34, Tp. 16-S., R. 22-E., on line, which is a post, marked and witnessed as described by the Surveyor General. Land, mountainous. Soil, 2nd rate; sandy/ No timber, undergrowth, mesquite and scrub oak. Mountainous land, exceptionally difficult to survey, 79.22 chs.
		September 21, 1907: At noon, I set off 0° 57' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 4' N. ;
		----- West, along the S. Bdy. of sec. 33. Over mountainous land, ascending.
10.00		Begin steep ascent.
39.35		Find old Standard 1/4 sec. cor. on line, which is a post set in a mound of stones, marked and witnessed as described by the Surveyor General.
41.64		Point for 1/4 sec. cor. on S. Bdy. of Sec 33 falls on perishable ground, impossible to establish.
46.64		Set a granite stone, 30 X 24 X 12 ins., 22 ins. in the ground, for witness cor. to 1/4 sec. cor., marked W C 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
48.50		Top of high mountain, extends S. and N. Along S. slope of same over rough and broken ground.
50.00		Begin steep descent.
61.60		Head of gulch, course SW. Ascend.
70.19		Old clos. cor. of secs. 4 and 5, Tp. 16-S., R. 22-E., on line
70.59		Find old. standard cor. of secs. 32 and 33, which is a post marked and witnessed as described by the Surveyor General. Land, mountainous. Soil, stony; 3rd and 4th rate. No timber; undergrowth, scattering oak and mesquite. Mountainous land, exceptionally difficult to survey, 70.59 chs.
		----- West, on the S. Bdy. of sec. 32. Over mountainous land, ascending.
3.00		Top of spur, extends S., descend.
4.50		Head of ravine, brs. S.
26.00		Canyon, 150 lks. wide, course SSW.
38.93		Find old standard 1/4 sec. cor. 6 lks. S. of line, which is a post, marked and witnessed as described by the Surveyor General.

Retracement 3rd Standard Parallel South, through Range 22 East.

chains
46.25 Top of high spur, extends SSW. Descend abruptly.
51.05 Set a slate stone, 30 X 12 X 12 ins., 22 ins. in the ground, for sec. cor., marked I on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

75.05 Find old Standard sec. cor. of secs. 31 and 32, 12 lks. S. of line, which is a post, marked and witnessed as described by the Surveyor General. Course is S. 89° 55' W. Land, mountainous. Soil, stony; 4th rate. No timber; undergrowth, scrub oak, mesquite and palo verde. Mountainous land, exceptionally difficult to survey, 75.05 chs.

8.00 West, on the S. Bdy. of sec. 31. Over mountainous land. Find clos. cor. of secs. 5 and 6, Tps. 16 S., R. 22 E. on line, marked and witnessed as described by the Surveyor General.

22.00 Top of spur, extends SE. Descend.
29.00 Ravine, 10 lks. wide, course SE. Ascend.
34.50 Top of high ridge, from divide. Thence along N. side, descending.

39.90 Find old standard sec. cor., which is a post marked and witnessed as described by the Surveyor General.

55.97 Point for sec. cor. on S. Bdy. of Sec. 31, falls on granite boulder in place, 3 X 2 X 1 ft. above ground, which I mark with a cross for exact sec. cor. point, with 1/2 N. of cross, and raise a mound of stone, 1 1/2 ft. high, 2 ft. base, N. of cor. Pits impracticable. An oak, 16 ins. diam., brs. N. 80° E., 76 lks. dist., marked I S 31 B T. No other tree available. Ascend abruptly.

76.00 Top of peak, 800 ft. high. Descend abruptly.
76.30 Find old standard cor. on line, which is a post, set in a mound of stone, marked and witnessed as described by the Surveyor General.

83.14 Find clos. cor. of Tps. 16 S., Rs. 21 and 2 E., on line, which is a stone set in a mound of stone, marked and witnessed as described by the Surveyor General.

95.94 The clos. cor. of Tps. 15 S., Rs. 21 and 22 E., as previously established by me. Land, mountainous. Soil, stony; 3rd and 4th rate. Timber, scattering pine and oak. Undergrowth, pine and scrub oak. Mountainous land, exceptionally difficult to survey, 95.94 chs.

September 21, 1907.

General Description.

The east three miles of this line is over heavily rolling land, on the south slope of the Little Dragoon Mountains, passing through the village of Russellville, where there are several settlers who have small farms, with good dwellings, and highly improved small tracts of land.

The western portion ascends and crosses a rough spur of the Little Dragoon Mountains and this part of the line is extremely difficult to measure accurately, this accounting for the difference between the old and the new survey.

Subdivision of Township 15 South, Range 22 East.

chains

September 22, 1907. At 7h a.m., l.m.t., I set off 1:40' N. on the decl. arc, and 32° 5' N. on the lat. arc, and determine a true meridian at the cor. of secs. 29, 30, 31 and 32 on the sectional correction line. Thence I run

S.0°1' W. bet. secs. 31 and 32.
 Descending gradually over rough ground.
 5.00 Enter broken valley, 10.00 chs. wide.
 11.00 Gulch, 30 lks. wide, course WSW.
 32.00 Main gulch, 50 lks. wide, course W.
 40.00 Point for sec. cor. falls on slate ledge in place, which I mark with a cross for exact sec. cor. point, with on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
 An oak, 6 ins. diam., brs. N. 80° W., 63 lks. dist., marked S 31 B T.
 Ascend steeply through dense juniper and oak.
 65.00 Top of high dividing ridge. Descend abruptly.
 74.00 Head of ravine, course SE., thence S.
 80.50 Intersect the 3rd Standard Parallel South at a point 16 chs. W. of stand cor. of secs. 31 and 32, T. 15 S., R. 22 E., previously described; Here I set a granite stone, 20 X 12 X 6 ins., for clos. cor. of secs. 31 and 32, marked C C on N., with 1 notch on W. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, E. of cor. Pits impracticable.
 Land, mountainous.
 Soil, sandy and stony; 2nd and 3rd rate.
 Timber, mesquite and juniper; undergrowth, juniper, mesquite.
 Mountainous land, exceptionally difficult to survey, 80.50 chs.

 N. 0° 1' E., bet. secs. 29 and 30.
 Over mountainous land.
 15.00 Ascend over bluff.
 35.00 Top of high mountain. Peaks of same brg. E. 1/2 mile dist.
 Enter dense oak undergrowth.
 40.00 Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for sec. cor., marked on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
 65.00 Leave dense oak undergrowth.
 80.00 Set a limestone, 20 X 10 X 8 ins., 15 ins., in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on the S. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
 A cedar, 6 ins. diam., brs. S. 26° 30' E., 28 lks. dist., marked T 15 S R 22 E S 29 B T.
 An oak, 10 ins. diam., brs. S. 28° W., 55 lks. dist., marked T 15 S R 22 E S 30 B T.
 An oak, 12 ins. diam., brs. N. 21° E., 61 lks. dist., marked T 15 S R 22 E S 20 B T.
 No other tree available.
 Land, mountainous.
 Soil, sandy and stony; 3rd rate.
 Timber, oak, pine and juniper; undergrowth, oak.
 Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

Subdivision of Township 15 South, Range 22 East.

chains West, on a random line, bet. secs. 19 and 30.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.10 Intersect the W. Bdy. of Tp. at a point 9 lks. S. of
cor. of secs. 19, 24, 25 and 30.
Thence I run,
S. $89^{\circ} 56'$ E. on a true line bet. secs. 19 and 30.
Ascending over broken and rough land.
35.00 Top of low spur, extends SW. and NE.
40.06 Set a marble stone, 18 X 10 X 8 ins., 12 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and
raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
of cor. Pits impracticable.
58.36 Top of ridge, extends SE. and NW. Descend.
80.10 Thence cor. of secs. 19, 20, 29 and 30.
Land, mountainous.
Soil, stony and sandy; 3rd and 4th rate.
No timber; undergrowth, oak.
Mountainous land, exceptionally difficult to survey,
80.10 chs.

N. $0^{\circ} 1'$ E. bet. secs. 19 and 20.
Over rough and broken land.
46.55 Gulch, 30 lks. wide, course W.
28.80 Canyon, 150 lks. wide, course W.
40.00 Point for $\frac{1}{4}$ sec. cor. falls on marked ledge in place,
which I mark with a cross for exact $\frac{1}{4}$ sec. cor. point,
with $\frac{1}{4}$ on W. face, and raise a mound of stone, 2
ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracti-
cable. Ledge is 24 X 18 X 12 ins. above ground.
43.05 Wash, 1.00 ch. wide, course WNW., ascend.
66.95 Top of ridge, extends E. and W., descend.

80.00 Set a slate stone, 30 X 15 X 10 ins., 22 ins. in the
ground, for cor. of secs. 17, 18, 19 and 20, marked with
3 notches on the S. and 5 notches on the E. edge, and
raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor. Pits impracticable.
A juniper, 12 ins. diam., brs. S, 11° E., 217 lks.
dist., marked T 15 S., R. 22 E. S. 20 B T.
A tesota, 12 ins. diam., brs. N. 32° W., 148 lks.
dist., marked T 15 S R 22 E S 18 B T.
No other trees available.
Land, mountainous.
Soil, sandy and stony; 3rd and 4th rate.
Timber, juniper and tesota; undergrowth, oak and tesota.
Mountainous land, exceptionally difficult to survey,
80.00 chs.
September 22, 1907; At noon, I set off $0^{\circ} 33'$ N. On
the decl. arc, and observe the sun on the meridian,
the resulting lat. is $32^{\circ} 7'$ N. ✓

N. $89^{\circ} 56'$ W. on a random line, bet. secs. 18 and 19.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.20 Intersect the W. Bdy. Of Tp. at a point 14 lks. S. of
the cor. of secs. 13, 18, 19 and 24.
Thence I run;
S. $89^{\circ} 50'$ E., on a true line bet. secs. 18 and 19.
Ascending gradually over broken land.
5.10 Top of spur, extends SW., descend.

Subdivision of Township 15 South, Range 22 East.

chains

40.10 along broken land on S. slope of ridge.
 Set a slate stone, 20 X 8 X 4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 A mesquite, 12 ins. diam., brs. N. 5° E., 178 lks. dist., marked $\frac{1}{4}$ S 18 B T.
 A mesquite, 18 ins. diam., brs. S. 83° E., 45 lks. dist., marked $\frac{1}{4}$ S 19 B T.

72.10 Main wash, 1.00 ch. wide, course WSW.
 72.60 Main trail, brs. SW. and NE.
 80.20 The cor. of secs. 17, 18, 19 and 20.

Land, mountainous.
 Soil, sandy and stony; 3rd and 4th rate.
 Timber, scattering mesquite and cedar; undergrowth, mesquite.
 Mountainous land, exceptionally difficult to survey, 80.20 chs.

 N. 0° 1' E. bet. secs. 17 and 18.
 Ascending over mountainous land.
 1.50 Main gulch, 150 lks. wide, course W.
 22.00 Top of ridge, descend.
 40.00 Set a slate stone, 30 X 10 X 10 ins., 22 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.
 41.00 Gulch, 30 lks. wide, course SW.
 60.00 Top of high ridge, extends W. Descend.
 80.00 Set a limestone, 30 X 12 X 8 ins., 22 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked with 4 notches on the S. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 A mesquite, 6 ins., diam., brs. S. 74° W., 115 lks. dist., marked T 15 S R 22 E S 18 B T.
 A mesquite, 6 ins. diam., brs. N. 64° W., 50 lks., dist., marked T 15 S R 22 E S 7 B T.
 A mesquite, 6 ins. diam., brs. S. 58° E., 63 lks. dist., marked T 15 S R 22 E S 17 B T.

No other tree available.
 Land, mountainous.
 Soil, sandy and stony; 3rd and 4th rate.
 Timber, scattering mesquite; undergrowth, mesquite and oak.
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

 N. 89° 50' W. bet. secs. 7 and 18, on a random line.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.06 Intersect the W. Bdy. of Treaty point 33 lks. N. of cor. of secs. 7, 12, 13 and 18.
 Thence I run,
 N. 89° 56' E. on a true line bet. secs. 7 and 18.
 Over rough and broken land.
 34.00 Wash, 30 lks. wide, course NW; ascend.
 37.00 Top along spur, extends NNW; descend.
 39.60 Set a sandstone, 24 X 12 X 12 ins., 18 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 40.03 Point for $\frac{1}{4}$ sec. cor. falls in wash, course NW.
 62.40 Draw, 20 lks. wide, course N.
 71.20 Wash, 20 lks. wide, course NNW.
 75.00 Wash, 20 lks. wide, course W.NW.

Subdivision of Township 15 South, Range 22 East.

chains

80.06

The cor. of secs. 7, 8, 17 and 18.
Land, mountainous.
Soil, sandy and stony; 3rd and 4th rate.
Timber, none; undergrowth, dense mesquite and tesota.
Mountainous land, exceptionally difficult to survey,
80.06 chs.

September 22, 1907.

September 23, 1907. At 7h a.m., l.m.t., I set off
 $0^{\circ} 17' N.$ on the decl. arc, and $32^{\circ} 8' N.$ on the lat.
arc, and determine a true meridian with the solar
at the cor. of secs. 7, 8, 17 and 18.

Thence I run,

N. $0^{\circ} 1' E.$, bet. secs. 7 and 8.

Ascending over rough and broken land.

11.00

Top of high ridge; descend.

29.00

Wash, 2.00 chs. wide, course W.; ascend.

40.00

Set a limestone, 28 X 10 X 6 ins., 21 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.

This $\frac{1}{4}$ sec. cor. is on spur of ridge. Descend.

80.00

Set a limestone, 30 X 10 X 6 ins., 22 ins. in the
ground, for cor. of secs. 5, 6, 7 and 8, marked
with 5 notches on the S. and E. edges, and raise
a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.

Land, mountainous.

Soil, sandy and stony; 3rd and 4th rate.

Timber, scattering mesquite; undergrowth, mesquite.

Mountainous land, exceptionally difficult to survey,
80.00 chs.

S. $89^{\circ} 56' W.$ on a random line bet. secs. 6 and 7.

40.00

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

80.00

Intersect the W. Bdy. of tp. at a point 9 lks. S. of
cor. of secs. 1, 6, 7, and 12.

Thence I run,

East on a true line bet. secs. 6 and 7.

Ascending over rolling land.

26.00

Wash, 1.00 ch. wide, course NW.

40.00

Set a limestone, 28 X 12 X 4 ins., 21 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.

80.00

The cor. of secs. 5, 6, 7, and 8.

Land, rolling.

Soil, stony, sandy and gravelly, 3rd rate.

Timber, none; undergrowth, mesquite.

N. $0^{\circ} 1' E.$, bet. secs. 5 and 6, on a random line.

40.00

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

79.96

Intersect the N. Bdy. of tp. at a point 2 lks. W. of
cor. of secs. 5, 6, 31 and 32.

Thence I run,

S. $0^{\circ} 25' W.$ on a true line bet. secs. 5 and 6.

Ascending gradually over level land.

39.96

Set a limestone, 20 X 8 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. Pits impracticable.

Descend gradually.

79.96

The cor. of secs. 5, 6, 7 and 8.

Land, rolling.

Soil, sandy and gravelly; 3rd rate.

No timber; undergrowth, mesquite.

Subdivision of Township 15 South, Range 22 East.

chains	September 23, 1907. At noon, I set off $0^{\circ}10'$ N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is $32^{\circ} 5'$ N.
	From the cor. of secs. 28, 29, 32 and 33, on the sectional correction line, I run,
	S. $0^{\circ} 1'$ W., bet. secs. 32 and 33.
	Descending over rough land.
1.75	Wash, 50 lks. wide, course ESE.
	Ascend steeply through dense cedar and oak undergrowth.
26.00	Top of high ridge; thence descend into ravine.
30.00	Ravine, 1.00 ch. wide, course E., ascend.
40.00	Set a limestone, 24 X 12 X 12 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	An oak, 24 ins. diam., brs. N. 15° E., 80 lks. dist., marked $\frac{1}{4}$ S 33 B T.
	An oak, 18 ins. diam., brs. N. 80° W., 71 lks. dist., marked $\frac{1}{4}$ S 32 B T.
	Ascend.
65.00	Top of high ridge, extends ENE and WSW., descend.
80.20	Intersect the 3rd Standard Parallel South at a point 11.05 chs. W. of of standard course, where I set a slate stone, 20 X 12 X 6 ins., 15 ins. in the ground, for clos. cor. of secs. 32 and 33, marked C C on N., with 4 notches on the E. and 2 notches on the W. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	Land, mountainous.
	Soil, sandy and stony; 3rd rate.
	Timber, scattering pine and oak; undergrowth, scrub oak.
	Mountainous land, exceptionally difficult to survey, 80.20 chs.

	From the cor. of secs. 28, 29, 32 and 33,
	I run,
	N. $0^{\circ} 1'$ E., bet. secs. 28 and 29
	Ascending over mountainous land.
22.00	Wash, 15 lks. wide, course SE.
25.40	Wash, 15 lks. wide, course SE.
31.00	Wash, 15 lks. wide, course SE.
40.00	Set a shale stone, 24 X 20 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Ascend.
50.00	Top of low gap on dividing ridge, brs. E. and W.
	High peak brs. E., $\frac{1}{2}$ mile dist. Descend steeply.
80.00	Set a limestone, 24 X 8 X 6 ins., 18 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	A juniper, 24 ins. diam., brs. N. $60^{\circ} 30'$ E., 40 lks. dist., marked T 15 S R 22 E S 21 B T.
	An oak, 24 ins. diam., brs. N. $23\frac{1}{2}^{\circ}$ E., 12 lks. dist., marked T 15 S R 22 E S 21 B T.
	A juniper, 24 ins. diam., brs. S. $79\frac{1}{2}^{\circ}$ W., 12 lks. dist., marked T 15 S R 22 E S 29 B T.
	No other trees available.

Subdivision of Township 15 South, Range 22 East.

chains	Land, mountainous. Soil, sandy and stony; 3rd and 4th rate. Timber, scattering oak and juniper; undergrowth, oak. Mountainous land, exceptionally difficult to survey, 80.00 chs.

	West on a random line bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect the N. and S. line at a point 12 lks. N. of cor. of secs. 19, 20, 29 and 30. Thence I run, N. 89° 55' E. on a true line bet. secs. 20 and 29. Ascending over mountainous land.
14.00	Gulch, 30 lks. wide, course N.
23.00	Gulch, 75 lks. wide, course NNW.
33.00	Gulch, 80 lks. wide, course NNW. Ascend very steeply.
40.10	Set a granite stone, 24 X 15 X 12 ins., 18 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. A juniper, 30 ins. diam., brs. S. 87° W., 42 lks. dist., marked $\frac{1}{4}$ S 29 B T.
45.00	Top of spur, extends NW. Along N. slope of same, enter- ing dense oak and juniper timber.
59.90	Pasture fence, of O.T. Smith, brs. N. and S.
64.00	Main wash, 1.00 ch. wide, course N. Ascend steeply.
80.20	The cor. of secs. 20, 21, 28 and 29. Land, mountainous. Soil, sandy and stony; 3rd rate. Timber, oak, juniper, cedar and pine; undergrowth, oak and mesquite. Mountainous land, exceptionally difficult to survey, 80.20 chs.
	September 23, 1907.

	September 24, 1907. At 7h a.m., l.m.t., I set off 07' S. on the decl. arc, and 32° 6' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 20, 21, 28 and 29. Thence I run, N. 0° 1' E., bet. secs. 20 and 21. Descending along mountainous and broken land, along W. side of high ridge, extending N. from divide.
30.00	Head of gulch, course W., ascend. steeply.
36.50	Top of high spur, extends W. Descend through cedar, oak and juniper.
40.00	Set a granite stone, 24 X 11 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. A cedar, 30 ins. diam., brs. S. 18° W., 58 lks. dist., marked $\frac{1}{4}$ S 20 B T. A cedar, 24 ins. diam., brs. S. 30° E., 75 lks. dist., marked $\frac{1}{4}$ S 21 B T.
77.00	Gulch, 150 lks. wide, course NE, on W. side of Smith's ranch.
80.00	Set a granite stone, 20 X 10 X 8 ins., 15 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. An oak, 20 ins. diam., brs. S. 45 $\frac{1}{2}$ ° W., 145 lks. dist., marked T 15 S R 22 E S 20 B T. An oak, 6 ins. diam., brs. S. 37° E., 69 lks. dist., marked T 15 S R 22 E S 21 B T. No other tree available.

Subdivision of Township 15 South, Range 22 East.

chains	Land, mountainous. Soil, sandy and stony; 3rd rate. Timber, oak, juniper and cedar; undergrowth, scrub oak and mesquite. Mountainous land, exceptionally difficult to survey, 80.00 chs.
40.00	S. 89° 55' W., bet. secs. 17 and 20, on a random line. Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect the N. and S. line at the cor. of secs. 17, 18, 19 and 20. Thence I run, N. 89° 55' E., on a true line bet. secs. 17 and 20. Ascending over rough, mountainous land, along N. slope of long ridge, extending E. and W.
5.00	Main wash, 40 lks. wide, course WNW.
38.30	Fence of O. T. Smith's, brs. N. and S. Top of ridge, thence gradually descending over broken land.
40:05	Set a slate stone, 24 X 15 X 6 ins., 18 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. A mesquite, 10 ins. diam., brs. S. 18° W., 89 lks. dist., marked $\frac{1}{4}$ S 20 B T. A mesquite, 10 ins. diam., brs. N. 27° E., 164 lks. dist., marked $\frac{1}{4}$ S 17 B T.
43.00	Descend steep slope. Wash, 40 lks. wide, course NNW.
53.00	Wash, 10 lks. wide, course NW.
73.13	U. S. M. M. No. 2886. brs. N. 33° 15' E., 153 lks. dist. Ascend.
73.50	Top of low ridge, extends NE. and NW.
80.10	The cor. of secs. 16, 17, 20 and 21. Land, mountainous. Soil, sandy and stony; 3rd rate. Timber, scattering mesquite and oak; undergrowth, oak and mesquite. Mountainous land, exceptionally difficult to survey, 80.10 chs.
15.50	N. 0° 1' E. bet. secs. 16 and 17. Descending gradually over broken land. Pasture fence O.T. Smith's, brs. E. and W.
16.25	Main trail, brs. E. and W/
24.00	Gulch, 1.00 ch. wide, course NE.
31.00	Gulch, 1.00 ch. wide, course NW., ascend.
40.00	Set a granite 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. Pits impracticable. An oak, 20 ins. diam., brs. N. 77 $\frac{1}{2}$ ° E., 109 lks. dist., marked $\frac{1}{4}$ S 16 B T. No other tree available.
45.00	Wash, 1.00 ch. wide, course NE. Ascend.
50.00	Top of small hill, extends E. and W.
53.00	Same wash, course W., ascend steep slope.
56.50	Top of ridge, extends W., descend.
80.00	Set a sandstone, 24 X 10 X 6 ins., 18 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. A mesquite, 6 ins. diam., brs. N. 58 $\frac{1}{2}$ ° W., 96 lks. dist., marked T 15 N. R 22 E S 8 B T. No other trees available.

Subdivision of Township 15 South Range 22 East.

chains

Land, mountainous.
Soil, sandy and stony; 3rd and 4th rate.
Timber, scattering oak and mesquite; undergrowth, oak and mesquite.
Mountainous land, exceptionally difficult to survey, 80.00 chs.

September 24: At noon, I set off $0^{\circ} 13' S.$ on the decl. arc and observe the sun on the meridian; the resulting lat. is $32^{\circ} 8' N.$

40.00
80.04

S. $89^{\circ} 55' W.$, bet. secs. 8 and 17 on a random line.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect the N. and S. line at a point 16 lks. S. of cor. of secs. 7, 8, 17 and 18.

39.00
40.02

Thence I run,
S. $89^{\circ} 58' E.$, on a true line bet. secs. 8 and 17.
Ascending over rough and broken land.
Top of spur, extends N.
Set a granite stone, $30 \times 10 \times 10$ ins., 22 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked \sim on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

50.00
59.00
72.00
80.04

Main gulch, 1.00 ch. wide, course N., ascend.
Top of spur, extends NW., descend.
Gulch, 1.00 ch. wide, course NNW.
The cor. of secs. 8, 9, 16 and 17.

Land, mountainous.
Soil, sandy and stony; 3rd and 4th rate.
No timber; undergrowth, oak and mesquite.
Mountainous land, exceptionally difficult to survey, 80.04 chs.

5.00
40.00

N. $0^{\circ} 21' E.$ bet. secs. 8 and 9.
Ascending gradually over rolling land.
Small ridge, extends E. and W., Begin gradual descent.
Set a sandstone, $18 \times 10 \times 8$ ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked \sim on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

80.00

Set a granite stone, $20 \times 10 \times 8$ ins., 15 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked with 5 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rolling.
Soil, sandy and stony. 3rd and 4th rate.
No timber; undergrowth, pine oak and mesquite.

40.00
79.92

September 25, 1907. At 7h a.m., l.m.t., I set off $0^{\circ} 30' S.$ on the decl. arc, and $32^{\circ} 09' N.$ on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 4, 5, 8 and 9.

Thence I run,
N. $89^{\circ} 58' W.$ on a random line bet. secs. 5 and 8.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect the N. and S. line at a point 19 lks. N. of cor. of secs. 5, 6, 7 and 8.

31.00
39.90

Thence I run,
N. $89^{\circ} 54' E.$ on a true line bet. secs. 5 and 8.
Ascending over rolling land.
Wash, 1.00 ch. wide, course NW.
Set a limestone, $30 \times 10 \times 8$ ins., 22 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked $WC \frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

Subdivision of Township 15 South, Range 22 East.

chains
39.96 Point for $\frac{1}{4}$ sec. cor. falls in wash, 20 lks. wide, course WNW
79.92 The cor. of secs. 4, 5, 8 and 9.
Land, mountainous.
Soil, sandy and stony; 3rd and 4th rate.
Timber, none; undergrowth, oak and mesquite.

40.00 N. $0^{\circ} 1'$ on a random line bet. secs. 4 and 5.
Set temp. $\frac{1}{4}$ sec. cor.
79.60 Intersect the N. Bdy. of Tp. at a point 16 lks. W. of cor. of secs. 4, 5, 32 and 33.
Thence I run,
S. $0^{\circ} 8'$ W. on a true line bet. secs. 4 and 5.
Ascending gradually over rolling land.
39.60 Set a sandstone, 30 X 15 X 12 ins., 22 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.
73.00 Draw, 20 lks. wide, course NW. Thence along W. side of same
79.60 The cor. of secs. 4, 5, 8 and 9/
Land, rolling.
Soil, sandy; 2nd rate.
No timber; undergrowth, mesquite and oak.

From the cor. of secs. 27, 28, 33 and 34, on the sectional correction line I run,
S. $0^{\circ} 2'$ W. bet. secs. 33 and 34.
Descending over mountainous land.
30.00 Wash, 15 lks. wide, course SW.
39.00 Wash, 10 lks. wide, course E. (same wash)
40.00 Set a limestone, 24 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
A mesquite, 5 ins. diam., brs. N. 89° W., 62 lks. dist., marked $\frac{1}{4}$ S 33 B T.
A mesquite, 5 ins. diam., brs. S. $76\frac{1}{2}^{\circ}$ E., 72 lks. dist., marked $\frac{1}{4}$ S 34 B T.
57.20 Large boulder on line.
76.00 Top of spur from Butte, extends E.
80.10 Intersect the 3rd Standard Parallel South at a point 1.64 chs. W. of old Stan cor. 33 and 34, where I set a granite stone, 30 X 24 X 12 ins., 22 ins. in the ground, for closing cor. of secs. 33 and 34, marked C C on N., with 3 notches on E. and W. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
Land, stony mountains.
Soil, stony and rocky; 3rd rate
Timber, scattering oak and mesquite; undergrowth, mesquite and oak.
Mountainous land, exceptionally difficult to survey,
80.10 chs.

September 25: At noon, I set off $0^{\circ} 37'$ S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is $72^{\circ} 5'$ N.
N. $0^{\circ} 2'$ E. bet. secs. 27 and 28.
Ascending steeply over ridge.
7.00 Top of ridge, extends E. and W.
16.00 Wash, 15 lks. wide, course NW.
25.00 Wash, 15 lks. wide, course NW.
40.00 Set a limestone, 14 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. Pits impracticable.
A juniper, 4 ins. diam., brs. N. 84° E., 235 lks.

Subdivision of Township 15 South, Range 22 East.

chains	dist., marked $\frac{1}{4}$ S 27 B T. A mesquite, 12 ins. diam., brs. N. 70° W., 184 lks. dist., marked $\frac{1}{4}$ S 28 B T. Ascend over high mountain.
49.00	Top of ridge, extends E., Descend.
80.00	Set a limestone, 20 X 12 X 4 ins., 15 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. A juniper, 15 ins. diam., brs. N. 79½° E., 20 lks. dist., marked T 15 S R 22 E S 22 B T. A juniper, 12 ins. diam., brs. N 32½° W., 91 lks. dist., marked T 15 S R 22 E S 21 B T. No other trees available. Land, mountainous. Soil, sandy and stony; 3rd and 4th rate. Timber, mesquite and juniper; undergrowth, mesquite and oak. Mountainous land, exceptionally difficult to survey, 80.00 chs.
40.00	West on a random line, bet. sec s. 21 and 28. Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect the N. and S. line at the cor. point of secs. 20, 21, 28 and 29. Thence I run, East, on a true line bet. secs. 21 and 28. Ascending steeply.
11.25	Top of ridge, extends N. and S.
36.00	Wash, 15 lks. wide, course SE.
40.02	Set a limestone, 20 X 12 X 6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. An oak, 15 ins. diam., brs. N. 48½° E., 78 lks. dist., marked $\frac{1}{4}$ S 21 B T. An oak, 15 ins. diam., brs. S. 85° E., 71 lks. dist., marked $\frac{1}{4}$ S 28 B T.
43.00	Top of ridges extends N. and S.; Descend.
54.00	Wash, 20 lks. wide, course NW. Ascend.
80.04	The cor. of secs. 21, 22, 27 and 28. Land, mountainous. Soil, sandy and stony; 3rd and 4th rate. Timber, juniper and oak; undergrowth, oak and mesquite. Mountainous land, exceptionally difficult to survey. 80.04 chs. September 25, 1907. At noon, I set off 37! S! on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 6' N.
20.00	N. 0° 21' E. bet. secs. 21 and 22. Ascending over mountainous land.
40.00	Top of high ridge, from divide, extends NW. and SE. Set a granite stone, 24 X 12 X 10 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft high, W. of cor. Pits impracticable.
54.00	Spur extends NW. Ascend through dense oak and juniper.
80.00	Set a granite stone, 30 X 12 X 12 ins., 22 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked 15 S on NE., 22 W on SE. face, with 3 notches on the S. and E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. An oak, 24 ins. diam., brs. N. 23° W., 20 lks. dist., marked T 15 S R 22 E S 16 B T. No other trees available. Land, mountainous. Soil, sandy and stony; 3rd and 4th rate.

Subdivision of Township 15 South, Range 22 East.

chains

Timber, oak and juniper; undergrowth, oak and mesquite
Mountainous land, exceptionally difficult to survey,
80.00 chs.

West, on a random line, bet. secs. 16 and 21.

40.00 Set temp. 1 sec. cor.
80.06 Intersect the N. and S. line at a point 5 lks. N. of
cor. of secs. 16, 17, 20 and 21.

Thence \parallel run,
N. $89^{\circ} 58'$ E., on a true line bet. secs. 16 and 21.
Over mountainous land.

3.00 Wash, 10 lks. wide, course NE.
6.00 Wash, 20 lks. wide, course N. Ascend.
22.00 Top of high ridge; extends N. and S. Descend steeply.
40.03 Set a granite stone, 24 X 16 X 8 ins., 18 ins. in the
ground, for 1/4 sec. cor., marked 1 on N. face, and
raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N.
of cor. Pits impracticable.

An oak, 15 ins. diam., brs. S. 5° W., 81 lks. dist.,
marked 1 S 21 B T.

An oak, 15 ins. diam., brs. N. 24° E., 133 lks.
dist., marked 1 S 16 B T.

Ascend through dense oak and juniper.

41.65 Top of ridge, extends W. and S.
58.00 Wash, 50 lks. wide, course N., ascend.
68.30 Top of ridge, extends N. and S.
77.00 Head of gulch, course N.

80.06 The cor. of secs. 15, 16, 21 and 22.
Land, mountainous.

Soil, sandy and stony; 3rd and 4th rate.
Timber, dense oak and juniper; undergrowth, oak and
mesquite.

Mountainous land, heavily timbered, exceptionally
difficult to survey, 80.06 chs.

N. $0^{\circ} 2'$ E. bet. secs. 15 and 16.
Over mountainous land.

2.50 Pasture fence, O. T. Smith's, brs. NE. and SW.

6.50 Gulch, 3.00 chs. wide, course NW.
12.50 Gulch, 2.00 chs. wide, course NW.

40.00 Set a shale stone, 20 X 15 X 4 ins., 15 ins. in the
ground, for 1/4 sec. cor., marked 2 on W. face, and
raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W.
of cor. Pits impracticable.

48.00 Wash, 1.00 ch. wide, course NE. Ascend.

76.00 Road, Smith's ranch to Johnson, brs. E. and W.

80.00 Set a granite stone, 24 X 12 X 6 ins., 18 ins. in the
ground, for cor. of secs. 9, 10, 15 and 16, marked
with 4 notches on the S. and 3 notches on the E. edge,
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
W. of cor. Pits impracticable.

Land, mountainous.
Soil, sandy and stony; 3rd and 4th rate.
No timber; undergrowth, mesquite and scrub oak.
Mountainous land, exceptionally difficult to survey,
80.00 chs.

September 25, 1907.

September 26, 1907. At 7h A.M., l.m.t., I set off
 $53'$ S. on the decl. arc, and $32^{\circ} 8'$ N. on the lat. arc,
and determine a true meridian with the solar at the cor.
of secs. 9, 10, 15 and 16.
Thence I run

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BOOK 2073

Subdivision of Township 15 South, Range 22 East.

chains	
	S. 89° 58' W. bet. secs. 9 and 16, on a random line.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line at a point 16 lks. S. of cor. of secs. 8, 9, 16 and 17.
	Thence I run, S. 89° 55' E. on a true line bet. secs. 9 and 16. Ascending over mountainous land.
20.00	Top of ridge, extends N. and S.
35.00	Wash, 10 lks. wide, course N.
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 N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	Ascend abruptly.
50.00	Top of ridge, extends N. and S. Descend steeply.
73.00	Foot of steep descent.
80.00	The cor. of secs. 9, 10, 15 and 16.
	Land, mountainous. Soil, sandy and stony: 3rd and 4th rate. No timber; undergrowth, mesquite and oak. Mountainous land, exceptionally difficult to survey, 80.00 chs.

	N. 0° 2' E. bet. secs. 9 and 10.
	Descending over mountainous land.
5.00	Enter gulch, 2.00 chs. wide, course NW.
15.00	Leave gulch, course E.
40.00	Point for $\frac{1}{4}$ sec. cor. falls on limestone ledge, in place, 2 X 2 X 1 ft. above ground, which I mark with a cross for exact $\frac{1}{4}$ sec. cor. point, and $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Along E. side of low ridge, extends N.
80.00	Set a limestone, 20 X 15 X 6 ins., 15 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous. Soil, sandy and stony; 3rd and 4th rate. No timber; undergrowth, oak and mesquite. Mountainous land, exceptionally difficult to survey, 80.00 chs.
	September 26, 1907; At noon, I set off 1° S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 09' N.

	N. 89° 55' W. on a random line bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect the N. and S. line at a point 12 lks. S. of cor. of secs. 4, 5, 8 and 9.
	Thence I run, S. 89° 50' E. bet. secs. 4 and 9. Ascending gradually over rolling land.
15.00	Wash, 15 lks. wide, course NW.
39.97	Set a limestone, 18 x 12 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
79.94	The cor. of secs. 3, 4, 9 and 10. Land, rolling. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite and oak. Mountainous land, exceptionally difficult to survey, 79.94 chs.

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Subdivision of Township 15 South, Range 22 East.

chains	N. 0° 2' E. bet. secs. 3 and 4. on a random line.
40.00	Set temp. 1 sec. cor.
79.90	Intersect the N. Bdy. of Tp. at the cor. of secs. 3, 4, 33 and 34.
	Thence I run,
	S. 0° 2' W. on a true line bet. secs. 3 and 4.
	Over rolling land.
36.40	Road, brs. NW. and SE.
39.00	Wash, 10 lks. wide, course NW.
39.90	Set a limestone, 20 X 12 X 8 ins., 15 ins. in the ground, for 1/4 sec. cor., marked - on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
79.90	The cor. of secs. 3, 4, 9 and 10.
	Land, mountainous.
	Soil, sandy and gravelly, 2nd, and 3rd rate.
	Timber, none; undergrowth, mesquite.

	S0021W from the cor. of secs. 26, 27, 34 and 35, on the sectional correctional line, bet. secs. 34 and 35.
	Over rolling land.
10.70	Wash, 20 lks. wide, course SW.
24.00	Wash, 30 lks. wide, course ESE.
28.00	Wash, 30 lks. wide, course E.
35.50	Wash, 50 lks. wide, course ENE.
40.00	Set a granite stone, 30 X 12 X 8 ins., 22 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
42.60	House of W. A. Fiege on S. side of wash, brs. S. 24° E., 10.00 chs. dist.
49.30	Wash, 10 lks. wide, course E.
53.25	Wash, 10.00 lks. wide, course E.
65.00	Road, brs. NW. and SE.
70.10	Road, brs. E and W.
74.50	Wash, 1.00 ch. wide, course E.
75.70	N. fence of barnyard of George Shever.
79.00	S. fence of barnyard of George Shever.
80.00	Intersect the Third Standard Parallel South at a point 86.5 lks. W. of old stan. cor. of 34 and 35, where I set a granite stone, 30 X 24 X 12 ins., 22 ins. in the ground, for closing cor. of secs. 34 and 35, marked C C on N. face, with 2 notches on the E. and 4 notches on the W. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
	Land, mountainous and rolling.
	Soil, sandy and gravelly; 2nd and 3rd rate.
	Timber, scattering mesquite; undergrowth, mesquite.
	Mountainous land, exceptionally difficult to survey, 80.00 chs. Septemebr 26, 1907.

	September 27, 1907. At 7h a.m., l.m.t., I set off 1° 17' S. on the decl. arc, and 32° 5' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 26, 27, 34 and 35.
	Thence I run,
	N. 0° E' E. bet. secs. 26 and 27.
	Over rolling land.
6.00	Wash, 10 lks. wide, course SE.
13.90	Telephone line, brs. E. and W.
18.00	Road to Empire camp, brs. NW. and SE.
22.00	Small wash, 10 lks. wide, course E.

Subdivision of Township 15 South, Range 22 East.

chains	
24.50	Ravine, 15 lks. wide, course E.
32.70	Wash, 20 lks. wide, course SE.
39.60	Set a limestone, 20 X 8 X 4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, for witness cor. to $\frac{1}{2}$ sec. cor., and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. An oak, 12 ins. diam., brs. S. 39° W., 172 lks. dist., marked W C $\frac{1}{4}$ S 27 B T. An oak, 6 ins. diam., brs. N. 5 $\frac{1}{2}$ ° E., 70 lks. dist., marked W C $\frac{1}{2}$ S 26 B T.
40.00	Cor point for $\frac{1}{2}$ sec. cor. falls on steep bank of ravine.
41.25	Ravine, 50 lks. wide, course SSW.
50.75	Wash, 20 lks. wide, course E.
63.00	U. S. M. M. No. 1 brs. S. 62° 25' E. Top of ridge, extends SE and NW.
76.25	Head of wash, course E.
80.00	Set a limestone, 24 X 12 X 4 ins., 18 ins. in the ground, for cor. of secs. 22, 23, 26 and 27., marked with 2 notches on the S. and E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. U. S. M. M. No. 1 brs. S. 44° 48' E. Land, mountainous. Soil, sandy and stony; 2nd and 3rd rate. No timber, undergrowth, mesquite. Mountainous land, exceptionally difficult to survey, 80.00 chs.

	West, on a random line bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line at a point 5 lks. S. of cor. of secs. 21, 22, 27 and 28. Thence I run, S. 89° 58' E. on a true line bet. secs. 22 and 27. Over mountainous land, ascending.
10.00	Top of high spur, extends S. Top of Lime Mountain, about 80 ft. above point, is N. 20.00 chs. Descend through dense oak.
40.00	Set a granite stone, 24 X 10 X 8 ins., 18 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. Camp of Lime Mountain Mining Company brs N. 20° W., about 20 chs. dist.
48.00	Gulch, 1.00 chs. wide, course SE. Ascend steeply.
57.00	Gulch, 2.00 chs. wide, course NE.
62.00	Ascend steep grade.
72.00	Top of ridge, extends SE. and NW; descend gradually.
80.00	The cor. of secs. 22, 23, 26 and 27. Land, mountainous. Soil, sandy and stony; 3rd rate. Timber, oak, juniper and pine; undergrowth, pine and oak and mesquite. Mountainous land, partially covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. September 27: At noon I set off 1° 23' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 6' N.

Subdivision of Township 15 South, Range 22 East.

chains

- N. $0^{\circ} 2'$ E. on a TRUE line bet. secs. 22 and 23.
Ascending over mountainous land.
- 3.00 Top of ridge, extends SE. and NW.
7.00 Point of spur, extends SE.
20.00 Road, brs. NW. and SE.
22.00 Wash, 75 lks. wide, course SE.
23.50 Road, brs. NW. and SE.
40.00 Set a limestone, 20 X 12 X 8 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
56.00 Wash, 1.00 ch. wide, course ENE.
80.00 Set a limestone, 18 X 12 X 9 ins., 12 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on the S. and 2 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous.
Soil, sandy and stony; 2nd and 3rd rate.
No timber; undergrowth, mesquite and oak.
Mountainous land, exceptionally difficult to survey,
80.00 chs.
-
- N. $89^{\circ} 58'$ W. on a random line bet. secs. 15 and 22.
40.00 Set temp. $\frac{1}{2}$ sec. cor.
80.06 Intersect the N. and S. line at a point 5 lks. N. of cor. of secs. 15, 16, 21 and 22.
Thence I run,
East, on a true line bet. secs. 15 and 22.
Ascending over mountainous land.
15.00 Top of high ridge from Divide, extends N. and S.
40.03 Point for $\frac{1}{2}$ sec. cor. falls on limestone ledge in place, 2 X 2 X 1 ft. above ground, which I mark with a cross for exact $\frac{1}{2}$ sec. cor. point, and $\frac{1}{2}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
This cor. is on E. side of Mountain, high peak of which is 60.00 chs. S. Descend.
69.00 Wash, 1.00 ch. wide, course N.
80.06 The cor. of secs. 14, 15, 22 and 23.
Land, mountainous.
Soil, sandy and stony; 2nd and 3rd rate.
Timber, scattering oak and juniper; undergrowth, scrub oak, mesquite.
Mountainous land, exceptionally difficult to survey,
80.06 chs.
-
- N. $0^{\circ} 2'$ E. bet. secs. 14 and 15.
Descending through dense scrub oak, over mountainous land.
- 40.00 Set a limestone, 20 X 8 X 6 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
64.72 Road, brs. NW. and SE.
72.00 Wash, 2.00 chs. wide, course NW.
80.00 Set a limestone, 24 X 6 X 6 ins., 18 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on the S. and 2 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous.
Soil, sandy; 2nd and 3rd rate.
Timber, scattering oak and juniper; undergrowth, dense scrub oak.
Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.
September 27, 1907.
-

Subdivision of Township 15 South, Range 22 East.

chains	September 28, 1907. At 7h a.m., l.m.t., I set off 1° 40' S. on the decl. arc, and 82° 8' N. on the lat arc and determine a true meridian with the solar at the cor. of secs. 10, 11, 14 and 15. Thence I run, West, on a random line bet. secs. 10 and 15.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect the N. and S. line at a point 5 lks. N. of cor. of secs. 9, 10, 15 and 16. Thence I run, N. 89° 58' E. on a true line, bet. secs. 10 and 15. Ascending gradually over mountainous land. Wash, 150 lks. wide, course N.
1.00	Road, Smith's to Johnson, Brs. NE. and SW.
9.35	Set a limestone, 20 X 12 X 8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
40.02	Ascend. Top of long ridge from divide, extends N. and S. Road, brs. SE. and NW.
50.00	The cor. of secs. 10, 11, 14 and 15.
72.00	Land, mountainous. Soil, sandy; 2nd and 3rd rate. No timber; undergrowth, scrub oak and mesquite. Mountainous land, exceptionally difficult to survey, 80.04 chs.
80.04	----- N. 0° 2' E. bet. secs. 10 and 11. Over rolling land. Wash, 2.00 chs. wide, course NW.
5.00	Set a limestone, 20 X 10 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. Pits impracticable.
40.00	Road, brs. NE. and SW.
77.40	Set a limestone, 20 X 10 X 6 ins., 15 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on the S. and 2 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
80.00	Land, rolling, Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, oak and mesquite. ----- S. 89° 58' W. on a random line, bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line at a point 5 lks. S. of cor. of secs. 3, 4, 9 and 10. Thence I run, East, on a true line bet. secs. 3 and 10. Over level and open land. Wash, 150 lks. wide, course NW.
19.60	Road, Brs. N. and S.
21.55	Set a limestone, 20 X 12 X 6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
40.00	The cor. of secs. 2, 3, 10 and 11. Land, level and open. Soil, sandy; 2nd and 3rd rate. No timber; undergrowth, mesquite. -----
80.00	

Chains. N.0°2'E., on a random line, bet. secs. 2 and 3.
 40.00 Set temp. 1/4 sec. cor.
 80.00 Intersect the N. bdy. of township at a point, 5 lks. E of
 cor. of secs. 2, 3, 34 and 35.
 Thence I run,
 South, on a true line, bet. secs. 2 and 3.
 Over rolling land.
 40.00 Set a sandstone, 12 x 8 x 8 ins., 9 ins. in the ground,
 for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound
 of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits im-
 practicable.
 80.00 The cor. of secs. 2, 3, 34 and 35.
 Land, rolling.
 Soil, sandy and gravelly; 2nd and 3rd rate.
 No timber; undergrowth, mesquite.

September 28: At noon I set off 1°47'S. on the decl. arc,
 and observe the sun on the meridian; the resulting lat.
 is 32° 5' N.

From the cor. of secs. 25, 26, 35 and 36 on the sectional
 correction line, I run,
 S.0°3'W., bet. secs. 35 and 36.

2.00 Over rolling land.
 38.00 Main wash, 1.00 ch. wide, course E.
 40.00

Set a granite stone, 20 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, 1-1/2 ft. high, W. of cor.
 Pits impracticable.

A palo verde, 12 ins. diam., brs. N. ^{48 3/4} E. ^{2 1/5} lks.
 dist., marked 1/4 S 36 B T.

40.15 No other tree available.
 80.04 Road, brs. E. and W. (*Russellville to Cochise*)

Intersect the Third Standard Parallel South at a point
~~20 1/2~~ lks. W. of cor. of secs. 35 and 36, where I set a gran-
 ite stone, ~~20~~ x 10 x 8 ins., ~~18~~ ins. in the ground, for
 closing cor. of secs. 35 and 36, marked C C on N. face,
 with 1 notch on E. and 5 notches on W. edge, and raise a
 mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor. Pits
 impracticable.

Land, rolling.
 Soil, sandy, 2nd and 3rd rate.
 No timber; undergrowth, palo verde and mesquite.

N.0°3'E., bet. secs. 25 and 26.
 Over mountainous land.

5.00 Gulch, 50 lks. wide, course SE.
 7.70 House of W. Goodwin on line.

~~10.50~~
~~11.10~~
 Set a granite stone, 24 x 10 x 8 ins., 18 ins. in the
 ground, for closing corner, marked C C on S and S on N.
 face, marked with 1 notch on E. face, and raise a mound
 of stone 2 ft. base, 1-1/2 ft. high, S. of cor. Pits im-
 practicable; from which the N.W. cor. of the Southern
 Lode brs. N. 31°30'W., ~~243~~ lks. *and P.E. cor. Southern lode brs*
 Road brs. NW. and SE. ²⁴⁷ *531°20' E 18.75 chs.*

11.00 Intersect end line bet. Chicora and Southern lode, whence
~~13.50~~
~~14.82~~
 NW. cor. of Southern lode brs. S. ^{56 chs} 50° W., ¹⁵⁶ lks. *and*

~~24.25~~
~~24.96~~
 Intersect the N. line of the Chicora Mining Claim, where
 I set a granite stone, 24 x 10 x 6 ins., 18 ins. in the
 ground, for closing corner, marked C on S, and C C on N.
 face, marked with 1 notch on E. face, and raise a
 mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor.
 From this point the NW. cor. of Chicora Mining Claim
 brs. N. 40° 4' W. 9.27 chs. dist. *and P.E. cor. of said claim*

35.00 Gulch, 50 lks. wide, course NE.; ascend.

35.85 Road, Mayflower Mine, brs. NE. and SW.
 Mayflower Camp brs. W., 5.00 chs. dist.

38.85 Road, brs. E. and W.

40.00 Set a limestone, 24 x 12 x 10 ins., 18 ins. in the
 ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise
 a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor.
 Pits impracticable.

Camp of the Arizona Consolidated Mining Company brs. S. 80°
 W., 12.00 chs. dist.

BOOK 2073

Chains.

41.00

~~48.88~~

48.26

Gulch, 20 lks. wide, course E.
Intersect the S. line of the Copper King Mining Claim, at a point from which Cor. No. 8 of the Copper King brs. S. $28^{\circ}50'N$ $27^{\circ}56'W$, 338 lks. dist., and Cor. No. 6 brs. N. $27^{\circ}56'E$, $28^{\circ}50'$ lks. dist.

~~46.38~~

~~50.18~~

At point of intersection, I set a limestone, 20 x 10 x 10 ins., 15 ins. in the ground, for closing cor., marked C C on S., and C K on N. face, with 1 notch on E. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, S. of cor. Pits impracticable.

54.30

55.15

56.58

~~65.28~~

59.49

Intersect S. line of Highland Mary lode.
Cor. No. 6 of Highland Mary brs. N. $69^{\circ}04'W$, 161 lks. $77^{\circ}50'N$ $88^{\circ}58'W$ and cor. No. 6 of ~~Highland Mary~~ brs. $28^{\circ}52'N$ $69^{\circ}04'W$ and ESE.

Cochise road brs. WNW. and ESE.

Cor. No. 6 of Highland Mary brs. S. $29^{\circ}04'W$, 292 lks.

Set a limestone 20 x 10 x 6 ins., 15 ins. in the ground for closing cor., marked C C on N, T on S., and 1 notch on E. faces; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., from which,

N.E. cor. of Tycoon brs. S. $42^{\circ}08'E$, 4.47 chs. This C C is on the N. line of the Tycoon Lode claim.

74.50

80.00

Wash, 60 lks. wide, course SE.
U.S.M.M. No. 1, brs. S. $51^{\circ}50'W$.

Set a limestone, 24 x 12 x 8 ins., 18 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on the S. and 1 notch on the E. edge, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable.

Land, mountainous.
Soil, sandy, 2nd and 3rd rate.
No timber; undergrowth, mesquite.
Mountainous land, exceptionally difficult to survey, 80.-60 chs.

September 28, 1907.

September 29, 1907. At 7h.a.m., 1.m.t., I set off $2^{\circ}04'S$, on the decl. arc; and $32^{\circ}6'N$ on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 23, 24, 25 and 26.

40.00

80.02

Thence I run, West, on a random line, bet. secs. 23 and 26.

Set temp. 1/4 sec. cor.

Intersect the N. and S. line at a point 9 lks. N. of cor. of secs. 22, 23, 26 and 27.

Thence I run, N. $89^{\circ}56'E$ on a true line, bet. secs. 23 and 26.

7.24

Over rolling land.

Intersect the S. line of the Mammoth Mining Claim at a point from which the SW. cor. of same brs. N. $64^{\circ}27'W$, 182 ~~lks.~~ lks. dist. and E. cor. of said claim brs. $26^{\circ}45'E$ $57^{\circ}19.63'N$.

At point of intersection, I set a granite stone, 24 x 10 x 8 ins., 18 ins. in the ground, for closing cor., marked T 15 S R 22 E C C on W face, and M on E. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W of cor.

9.50

17.00

17.30

19.14

Draw, 10 lks. wide, course S.

Trail, brs. NNW. and SSE.

Top of butte.

Tunnel extending N., brs. S. 1.00 ch. dist.

29.05

Intersect E. end line of Miantonomah Lode. BOOK 2073
Set a granite stone 24 x 10 x 8 ins., 18 ins. in the ground for closing corner marked C C on E., M on N. and 2 grooves on S. faces, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high E. of corner, whence S. E. of

40.01

Miantonomah and N. E. Cor. of Mammoth brs. S. $25^{\circ}W$, 1 lks. dist.

Ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor. Pits impracticable.

Subdivision of Township 15 South, Range 22 East.

chains
48.00
80.02

Road, Copper Chief Mine to Johnson, brs. N. and S.
The cor. of secs. 23, 24, 25 and 26.
Land, mountainous.
Soil, sandy; 2nd and 3rd rate.
No timber; undergrowth, greasewood and mesquite.
Mountainous land, exceptionally difficult to survey,
80.02 chs.

40.00
80.04

East, on a random line bet. secs. 24 and 25.
Set temp. sec. cor.
Intersect the E. Bdy. Of Tp. at a point 5 lks. N.
of cor. of secs. 19, 24, 25 and 30.

26.75
29.00
40.04

Thence I run,
N. 89° 58' W. on a true line bet. secs. 24 and 25.
Over rolling land.
Wash, 15 lks. wide, course NE.
Wash, 10 lks. wide, course NE.
Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the
ground, for sec. cor., marked 1 on N. face, and
raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N
of cor. Pits impracticable.

59.75
64.50
79.00
80.04

Main wash, 30 lks. wide, course NE.
Water pipe line to Johnson crosses wash at this point.
Road to Johnson brs. N. and S.
Wash, 15 lks. wide, course SW.
The cor. of secs. 23, 24, 25 and 26.
Land, rolling.
Soil, sandy and gravelly; 2nd and 3rd rate.
No timber; undergrowth, mesquite and greasewood.

8.15
29.10
30.00
✓ 30.53

N. 0° 5' E., bet. secs. 23 and 24.
Ascending gradually over rolling land.
Road, Copper Chief to Johnsons, brs. ENE and WSW.
Road, brs. E. and W.
Road, brs. E. and W.
Intersect the East end line of the Peabody and
Anaconda mining claims at a point from which Cor.
No. 3 of the Peabody and Cor. No. 4 of the Anaconda
brs. N. 56° E., 195 lks. dist.,
At this point I set a limestone, 30 X 10 X 8 ins., 22
ins. in the ground, for closing cor., marked T 15 S
R 22 E C C on W. and A and P on E. face, and
raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W.
of cor.

40.00
41.00
43.00
✓ 47.68

The pulley of the main hoist brs. N. 57° E.
Store of Johnson's Camp brs. East, 3.00 chs. dist.
Pulley on main hoist brs. S. 82° 45' E.
Smoke stack of hoist brs. S. 51° 45' E.
Set a limestone, 24 X 10 X 6 ins., 18 ins. in the
ground, for sec. cor., marked 1 on W. face, and
raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W
of cor. Pits impracticable.
Road, brs. SE and NW.
Same road brs. NE. and SW.
Intersect the N. line of the Peabody Mining claim
at a point from which the N. side, center monument
of the Anaconda brs. S. 39° 40' E., 395 lks. dist.,
and Cor. No. 2 of the Delta and Cor. No. 2 of the
Anaconda br. N. 39° 40' W., 639 lks. dist.
At this point I set a limestone, 20 X 10 X 6 ins., 15
ins. in the ground, for closing cor. of Tp., marked
T 15 S R 22 E C C on N. face, and 1 notch on the
East and A on the S. face., and raise mound of stone N.
of cor.

Subdivision of Township 15 South, Range 22 East.

chains

48.00

80.00

House, brs. E., 1.00 ch. dist.
Set a limestone, 24 X 12 X 6 ins., 18 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked with 3 notches on the S. and 1 notch on the E. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, rolling.

Soil, sandy and gravelly; 2nd and 3rd rate.

No timber; undergrowth, mesquite and greasewood.

September 29, At noon, I set off 2° 10' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 7' N.

40.00

80.00

S. 89° 56' W. on a random line bet. secs. 14 and 23.

Set temp. 1/4 sec. cor.

Intersect the N. and S. line at a point 14 lks. S. of cor. of secs. 14, 15, 22 and 23.

Thence 1/4 run,

S. 89° 58' E. bet. secs. 14 and 23 on a true line.

Gradually ascending over rolling land.

23.00

34.70

40.00

Wash, 150 lks. wide, course NNE.

Road to Johnson, Brs. SE. and NW.

Set a limestone, 18 X 10 X 8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

59.00

80.00

Road, brs. N. and S.

The cor. of secs. 13, 14, 23 and 24.

Land, rolling.

Soil, sandy and gravelly; 2nd and 3rd rate.

No timber; undergrowth, mesquite and greasewood.

40.00

79.96

S. 89° 58' E. on a random line bet. secs. 13 and 24.

Set temp. 1/4 sec. cor.

Intersect the E. Bdy. of Tp. at a point 2 lks. N. of cor. of secs. 13, 18, 19 and 24.

Thence 1/4 run,

N. 89° 57' W. on a true line bet. secs. 13 and 24.

Ascending over slightly rolling land.

39.96

Set a limestone, 20 X 12 X 4 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

68.50

79.96

Road, brs. NE. and SW.

The cor. of secs. 13, 14, 23 and 24.

Land, rolling.

Soil, sandy; 2nd rate.

No timber; undergrowth; mesquite and greasewood.

40.00

N. 0° 3' E. bet. secs. 13 and 14.

Descending over slightly rolling land.

Set a limestone, 20 X 10 X 6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

80.00

Set a limestone, 30 X 20 X 10 ins., 22 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on the S and 1 notch on the E. edge and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, rolling.

Soil, sandy; 2nd rate.

No timber; undergrowth, mesquite and greasewood.

Subdivision of Township 15 South, Range 22 East.

chains	N. 89° 58' W. on a random line bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.04	Intersect the N. and S. line at a point 5 lks. N. of cor. of secs. 10, 11, 14 and 15.
	Thence I run, East on a true line bet. secs. 11 and 14. Over rolling land.
1.50	Wash, 2.00 chs. wide, course N.
40.02	Set a limestone, 20 X 8 X 6 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	Descend over rolling land through dense sage brush & scrub oak
80.04	The cor. of secs. 11, 12, 13 and 14. Land rolling; soil, sandy, 2nd rate. No timber; undergrowth, sage brush and scrub oak. Sept. 29, 1907.

	September 30, 1907. At 7h a.m., l.m.t., I set off 2° 27' S. on the decl. arc, and 32° 8' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 11, 12, 13 and 14.
	Thence I run, S. 89° 57' E. on a random line bet. secs. 12 and 13.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
79.94	Intersect the E. Bdy. of T. at a point 7 lks. S. of cor. of secs. 7, 12, 15 and 18.
	Thence I run, West, on a true line bet. secs. 12 and 13. Over gently rolling land.
39.94	Set a limestone, 20 X 10 X 6 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
71.05	Road, brs. N. and S.
79.94	The cor. of secs. 11, 12, 13 and 14. Land, level and open. Soil, sandy; 2nd rate. No timber; undergrowth, mesquite, sage brush and oak.

	N. 0° 3' E. bet. secs. 11 and 12. Descending over gently rolling land.
36.50	Road, brs. NW. and SE.
40.00	Set a limestone, 20 X 12 X 6 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
80.00	Set a limestone, 20 X 12 X 10 ins., 15 ins. in the ground for cor. of secs. 1, 2, 11 and 12., marked with 5 notches on the S. and 1 notch on the E. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, rolling. Soil, sandy; 2nd rate. No timber; undergrowth, sage brush, oak and mesquite.

	West, on a random line bet. secs. 2 and 11.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
79.96	Intersect the N. and S. line at a point 12 lks. N. of cor. of secs. 2, 3, 10 and 11.
	Thence I run,

77

Subdivision of Township 15 South, Range 22 East

chains.

59.98 N. 89° 55' E. on a true line bet. secs. 2 and 11.
Over level and open land.
Set a limestone, 24 X 15 X 10 ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18 X 18 X 12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

64.42 Road, brs. SSE and NNW.

79.96 The cor. of secs. 1, 2, 11 and 12.
Land, level and open.
Soil, sandy and gravelly; 2nd rate.
No timber, undergrowth, sage brush, oak and mesquite.
September 30: At noon, I set off 2° 38' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 8' N.

40.00 East, on a random line bet. secs. 1 and 12.
Set temp. $\frac{1}{4}$ sec. cor.

79.90 Intersect the E. Bdy. of Tp. at a point 12 lks. S. of c. or. of secs. 1, 6, 7 and 12.
Thence I run,
S. 89° 55' W. on a true line bet. secs. 1 and 12.
Over gently rolling land.

39.90 Set a limestone, 20 X 12 X 8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

45.00 Drawn 2.00 chs. wide, course SW.

67.00 Tres Alamos Draw, 15 lks. wide, course NW.

79.90 The cor. of secs. 1, 2, 11 and 12.
Land, rolling.
Soil, sandy; 2nd rate.
No timber; undergrowth; mesquite, and sage brush.

40.00 N. 0° 3' E. bet. secs. 1 and 2 on a random line.
Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect the N. Bdy. of Tp. at a point 14 lks. E. of cor. of secs. 1, 2, 35 and 36.
Thence I run,
S. 0° 3' E. on a true line, bet. secs. 1 and 2.
Over level and open land.

111.00 Wash, 2.00 chs. wide, course SW.

40.04 Set a granite stone, 30 X 24 X 12 ins., 22 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.

49.50 Wash, 50 lks. wide, course SW.

73.00 Wash, 75 lks. wide, course NW.

80.04 The cor. of secs. 1, 2, 11 and 12.
Land, rolling.
Soil, sandy; 2nd and 3rd rate.
No timber; undergrowth, mesquite and sage brush.
September 30, 1907.

General Description.

The northern portion of the Tp. is level, rolling land, and could be highly improved and cultivated. The soil is a sandy loam. The little Dragoon Mts. cover the other portions and part of it is extremely rough. There is good pine and oak timber in the higher portions. The town of Johnson is a thriving mining camp of about 100 people, the mine being copper and silver, with traces of wolframite. The rock formation is mostly a conglomerate, broken by granite and porphyry and capped with limestone in the higher mountains.

James B. Wright
U. S. Deputy Surveyor.

SUPPLEMENTARY NOTES AND CORRECTIONS IN T. 15 S. R. 22 E.

Southern Lode - retracement of boundaries:

Beginning at NW. Cor, thence
 S. $31^{\circ}30'$ E. 21.22 chs. to NW. Cor.
 N. $58^{\circ}45'$ E. 9.10 chs. to SE. Cor.
 N. $32^{\circ}42'$ W. 21.25 chs. to NE. Cor. identical with SE. Cor.
 Chicora.
 S. $58^{\circ}42'$ W. 7.12 chs. intersect line bet. secs. 25 and
 26, 14.02 chs. N. of cor. of secs. 25, 26, 35 and 36.
 8.63 chs. to NW. cor. of Southern, the point
 of beginning.

Highland Mary - retracement of boundaries:

Beginning at Cor. No. 6.
 N. $28^{\circ}57'$ E., 9.10 chs. to Cor. No. 2.
 S. $61^{\circ}00'$ E. 22.65 chs. to Cor. No. 3.
 S. $30^{\circ}30'$ W., 4.55 chs. to E. End. Center U.S.M.M. No. 1 brs.
 N. $88^{\circ}18'$ W.
 S. $28^{\circ}42'$ W., 4.55 chs. to Cor. No. 5.
 N. 61° W. 18.60 chs. to Cor. No. 6 Copper King.
 N. $61^{\circ}20'$ W. 3.96 chs. to Cor. No. 6,

Copper King Lode - retracement of boundaries.

Beginning at Cor. No. 6 Copper King.
 N. $61^{\circ}20'$ W. 3.96 chs. to Cor. No. 5.
 N. $28^{\circ}57'$ E. 1.40 chs. to Cor. No. 4.
 N. $61^{\circ}03'$ W. 18.70 chs. to Cor. No. 3.
 S. $28^{\circ}41'$ W. 4.55 chs. W.C. end mon. U. S.M.M. No. 1 brs. S.
 $63^{\circ}27'$ W.
 S. $29^{\circ}27'$ W. 4.54 chs. to Cor. No. 9
 S. $61^{\circ}04'$ E. 22.70 chs. to Cor. No. 8.
 N. $28^{\circ}20'$ E. 4.53 chs. to E.E. center Mon.
 N. $28^{\circ}50'$ E. 3.15 chs. to Cor. No. 6,

Tycoon Lode - retracement of boundaries.

Beginning at S.E. Cor. identical with Cor. No. 5 Copper King.
 N. $42^{\circ}07'$ W., 20.00 chs. to SW. cor.
 N. $29^{\circ}06'$ E., 9.09 chs. to NW. cor.
 S. $42^{\circ}08'$ E., 18.46 chs. intersect line bet. secs. 23 and
 26, 59.49 chs. N. of cor.
 19.97 chs. to NE. Cor., identical with Cor.
 No. 2, Highland Mary.
 S. $28^{\circ}57'$ W. 9.10 chs. to SE. cor.,

Mammoth Lode - retracement of boundaries.

Beginning at SE. Cor., thence N. $64^{\circ}57'$ W., 21.43 chs.,
 thence N. $25^{\circ}02'$ E.
 9.11 chs., thence S. $64^{\circ}58'$ E. 21.42 chs. whence U.S.M.M.
 No. 1 brs. S. $10^{\circ}50'$ E., 2350 ft., thence S. 25° W., 9.13
 chs. to S.E. Cor.

James B. Wright
 U. S. Deputy Surveyor.

FOR FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

BOOK 2073

A list of the names of the individuals employed by _____

_____, 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 _____

showing the respective capacities in which they acted:

- _____, *Chainman.*
- _____, *Chainman.*
- _____, *Moundman.*
- _____, *Moundman.*
- _____, *Axman.*
- _____, *Axman.*
- _____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

_____ of the _____

_____ meridian, _____ of _____, 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 _____

- _____, *Chainman.*
- _____, *Chainman.*
- _____, *Moundman.*
- _____, *Moundman.*
- _____, *Axman.*
- _____, *Axman.*
- _____, *Flagman.*

Subscribed and sworn to before me this _____ day of _____, 190 _____



79

35

Reference is had to "B," Subds. T. 13 S., R. 12 E.

BOOK 2073 for

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 190 _____, 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 _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ of the _____ meridian, in the _____ of _____, 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 _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 _____



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, June 30, 1908.

The foregoing field notes of the survey of _____ Subdivisions of Township 15 S., R. 22 E., Resurvey of East Bdy. of Tp. 15 S., R. 22 E., and Retracement of 3rd. Standard Parallel South, through R. 22 East,

executed by _____ Jesse B. Wright, U. S. Deputy Surveyor, under his contract No. 145, dated April 15, 1907, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. 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.