

2059

BOOK 2059

FIELD NOTES

OF THE SURVEY OF THE

South, East and North bound-
aries of Township No 22 South
of Range 18 East

2059

2059

2059

Of the *Gila and Salt River* Meridian,
Territory of *Arizona*

AS SURVEYED BY

John M Ingalls, United States Deputy Surveyor,

Under his Contract No. *130*, dated *May 4th 1905*, 189

Survey commenced *July 20 1905*, 189

Survey completed *27* " " 189

2059

1887A

BOOK 2059

NAMES AND DUTIES OF ASSISTANTS.

J. C. P. Rhode Chairman

Henry A. Dyck

J. J. Kline Secretary

George M. Hyde Treasurer

189
1B

BOOK 2059

Book No. 2059

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PRELIMINARY OATHS OF ASSISTANTS.

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

South East and North Bays of T. 22 S R 18 E
D. Roy Shrode, Chainman.
Harry S. Ingalls, Chainman.

Subscribed and sworn to before me this 3rd
day of July, 1890



Frank C. Willard
Notary Public

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

_____, Moundman.
_____, Moundman.

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



WE, F. J. Kline 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

the South East and North Bays of T. 22 S R 18 E
F. J. Kline, Axman.
_____, Axman.

Subscribed and sworn to before me this 3rd
day of July, 1890



Frank C. Willard
Notary Public

I, Bruce M. Hyde, 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 _____

Bruce M. Hyde, Flagman.

Subscribed and sworn to before me this 3rd
day of July, 1890



Frank C. Willard
Notary Public

(1)

NORTH, EAST, & SOUTH BOUNDARIES OF T. 22 S., R. 18 E.
(South Boundary.)

Chs.

Survey commenced July 20th, 1905 and executed with a J. C. Sala Solar Compass No. 137. The horizontal limb has 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 declination arcs.

The instrument was examined, tested on the Meridian at Phoenix, Arizona, found in adjustment, and was approved by the Surveyor-General on the 28th day of June, 1905.

I examine the adjustments of the compass and find them satisfactory; 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-

July 20- At the corner to Tps. 22 and 23 S., Rs. 17 and 18 E, which is a stone properly set and marked with 4 bearing trees as described by the Surveyor-General; latitude $31^{\circ} 27' 54''$ N, longitude $110^{\circ} 33' 38''$ W. I set off $31^{\circ} 28'$ N., on the latitude arc; $20^{\circ} 41'$ N., on the declination arc, and at 2 hs. 38 mins. p. m., l. m. t., I determine a meridian with the Solar, and mark a point thereof on a stone set firmly in the ground, 5.00 chains N. of the corner.

At 11 hours, 36 minutes, p. m., l. m. t., by my watch, which is correct, I observe Polaris at Eastern Elongation, in accordance with Manual of instructions (my compass being provided with an auxiliary telescope) and mark a point on the line thus determined on a plug driven in the ground, 5.00 chs. N. of the station.

July 20, 1905.

July 21- At 7 a. m., l. m. t I lay off the azimuth of Polaris $1^{\circ} 24'$ to the W. and mark the meridian thus determined by cutting a mark in the stone set yesterday, on which the meridian falls 0.15 ins. W. of the meridian established by the Solar observation.

At 7 hours, 36 minutes, a. m., l. m. t., I set off $31^{\circ} 28'$ N., on the latitude arc; $20^{\circ} 33'$ N., on the decl. arc and determine a meridian with the Solar, and mark a point thereof, by a cross on the stone already set 5.00 chs. N. of my station; this mark falls on the Meridian established by the Polaris observation.

From the above results I conclude that my instrument defines positions for true meridian with sufficient accuracy.

The magnetic bearing of the true meridian at 8 a.m. properly reduced is 14° E.

I begin at the cor. to Tps. 22 and 23 S., Rs. 17 and 18 E.

Thence I run

EAST, bet. secs. 6 and 31.

Over rolling mountains through heavy oak timber and and oak underbrush.

Descending.

15.43 Dry wash, 10 lks. wide, course S. W.

27.90 Dry wash, 15 lks. wide, course S. W.

36.22 Dry wash, 30 lks. wide, course S. W.

39.11 Set a sandstone, 15 x 10 x 9 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, whence,

A Black oak, 20 ins., in diam. bears N. $17 \frac{1}{4}^{\circ}$ W 44 lks. dist. marked 1/4 S 31 B T.

A Black Oak, 9 ins., in diam. bears S. $38 \frac{1}{2}^{\circ}$ E., 60 lks. dist. marked 1/4 S 6 B T.

58.00 Dry wash, 30 lks. wide, course S W.

Ascend foot hills of the Canille Mountains.

Chs. 79.11
 Set a quartz rock, 20 x 20 x 16 ins., 15 ins., in the ground for the corner to sections 5, 6, 31 and 32, marked with 1 notch on the W. and 5 notches on the E. edges, whence,
 A black oak, 12 ins., in diam. brs. N. 15° W., 37 lks. dist. marked T 22 S R 18 E S 31 B T.
 A black oak, 10 ins., in diam. bears N. 65° E., 32 lks. dist. marked T 22 S R 18 E S 32 B T.
 A black oak, 14 ins., in diam. bears S 70 1/2° E., 75 lks. dist. marked T 22 S R 18 E S 5 B T.
 A black oak, 14 ins., in diam. bears S 34° W., 110 lks. dist. marked T 23 S R 18 E S 6 B T.
 Land W 1/2 rolling and covered with brush.
 E 1/2 low hills trending to the S W.
 Timber oak. Dense undergrowth of oak.
 Soil 3rd and 4th rate gravelly and rocky.
 Mountainous or land covered with heavy timber or dense undergrowth; 79.11 chains.

 EAST, on the south boundary of Sec. 32.

Ascending.
 21.60 Dry wash, 10 lks. wide, course S W.
 34.96 Dry wash, 50 lks. wide, course S W.
 40.00 Set a quartzite rock, 12 x 8 x 8 ins., 8 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, whence,
 A black oak, 8 ins., in diam. bears S 45° E., 24 links distant marked 1/4 S 5 B T.
 A black oak, 8 ins., in diam. bears N. 43° W., 28 lks. dist. marked 1/4 S 32 B T.
 68.22 Dry wash, 20 lks. wide, course S. W.
 Ascend main ridge of Canille Mountains bearing N. W. and S. E.
 80.00 Set a quartite rock, 18 x 8 x 6 ins., 12 ins., in the ground for the corner to sections 4, 5, 32 and 33, marked with 4 notches on the E. and 2 notches on the W. edges; whence,
 A black oak, 18 ins., in diam. bears N. 73 1/2° W., 67 lks. dist. marked T 22 S R 18 E S 32 B T.
 A black oak, 12 ins., in diam. bears S 37 1/4° E., 49 lks. dist. marked T 23 S R 18 E S 4 B T.
 A black oak, 8 ins., in diam. bears S. 15 1/4° W., 66 lks. dist. marked T 23 S R 18 E S 5 B T. No other trees within limits and raise a mound of stones 2 ft. base, 1 1/2 ft. high, W. of the corner. Pit Impracticable.
 Land mountainous.
 Soil sandy and rocky 3rd and 4th rate.
 Timber heavy oak.
 Undergrowth oak.
 Mountainous and land covered with heavy timber and oak brush. 80.00 chains,

 EAST, on the South boundary of Sec. 33.

Over mountainous land through dense undergrowth. Timber becomes scattering.
 1.00 Dry wash, 20 lks. wide, course S W.
 Ascend very steep N. W. Slope of high ridge.
 21.00 Top of ascent, and descend steep easterly slope.
 27.10 Deep gulch and dry wash, 10 lks. wide, course South. Ascend.
 38.05 Top of sharp spur, 300 ft. high trending to the south descend.
 40.00 Set a sandstone, 12 x 10 x 8 ins., 8 ins., in the ground for the 1/4 sec. cor. marked 1/4 on the N. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impract.

Chs.	No bearing trees available.
49.50	Dry wash, 10 lks. wide course S. E. and ascend; re-enter heavy oak timber.
57.10	Top of spur trending to the South. Descend.
62.90	Dry wash, 20 lks. wide, course S. W. and ascend.
77.60	Dry wash, 20 lks. wide, course N. W.
80.00	Set a quartzrock, 15 x 12 x 12 ins., 10 ins., in the ground for the corner to sections 33, 34, 3 and 4, marked with 3 notches on the E. and W. edges; whence An oak, 8 ins., in diam. bears N. 1° E., 25 lks. dist. marked T 22 S., R 18 E S 34 B T. Juniper, 12 ins., in diam. bears N 82 1/4° W., 130 lks. dist. marked T 22 S R 18 E S 33 B T. An oak, 12 ins., in diam. bears S 86 1/2° W., 144 lks. dist. marked T 23 S R 18 E S 4 B T. An oak, 8 ins., in diam. bears S 38 3/4° E., 53 lks. dist. marked T 23 S R 18 E S 3 B T. Land rough mountains. Soil rocky and 4th rate. Timber, oak, juniper and pine. Undergrowth oak. Mountainous land covered with thick underbrush of oak 80.00 chains.
	July 21st, 1905.
	----- July 22nd- At the corner just previously described, at 7 hours, 32 minutes, a m, 1 m t., I set off 31° / 28' N., on the Lat. arc; 20° 21' N., on the declination arc, and determine a meridian with the Solar. Thence I run, EAST, on the South Boundary of Sec. 34. Over mountainous land.
8.00	Sharp spur trending to the N. W. and descend.
18.50	Dry wash, 20 lks. wide, course North and ascend.
39.50	Top of main ridge of Canille Mountains N. W. and S. E. Descend.
40.00	Set a quartzite rock, 16 x 14 x 10 ins., 11 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, whence, An oak, 12 ins., in diam. bears N 28 1/2° E., 46 lks. dist. marked 1/4 S 34 B T. An oak, 10 ins., in diam. bear S 59 1/2° W., 36 lks. dist. marked 1/4 S 3 B T.
55.53	Dry wash, 20 lks. wide, course N. W. (In deep gulch) Ascend.
63.45	Top of spur trending to the N E. Descend.
75.73	Dry wash, 15 lks. wide, course N. E. Ascend.
80.00	Set a quartz rock 16 x 10 x 10 ins., 11 ins., in the ground for the corner to sections 2, 3, 34 and 35, marked with 2 notches on the E. and 4 notches on the W edges; whence, A pine, 6 ins., in diam. bears S 20 1/4° E., 48 lks. dist. marked T 23 S R 18 E S 2 B T. A pine, 10 ins., in diam. bears N. 51 1/4° E., 47 lks. dist. marked T 22 S R 18 E S 35 B T. A pine, 8 ins., in diam. bears S 25 1/4° W., 49 lks. dist. marked T 23 S R 18 E S 3 B T. No other trees within limits and raise a mound of stones, 2 ft. base, 1-1/2 ft. high, W. of the corner. Pits impracticable. Land Mountainous. Soil rocky and 4th rate. Timber, heavy pine, and oak some juniper. Undergrowth oak and manzanito brush. Mountainous, covered with dense undergrowth and heavy timber land ; 80.00 chains.

chs.	EAST, on the South boundary of Sec. 35.
4.50	Point of hill.
11.50	Dry wash, 20 lks. wide, course N. E. and ascend.
15.04	Descend.
33.75	Dry wash, 20 lks. wide, course N. W. and ascend.
40.00	Set a quartz rock, 14 x 12 x 10 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; whence,
	An oak, 6 ins., in diam. bears S. 40 1/4° W., 12 lks. dist. marked 1/4 S 2 B T
	An oak, 14 ins., in diam. bears N 34° E., 79 lks. dist. marked 1/4 S 35 B T.
48.00	Dry wash, 20 lks. wide, course N. E. and ascend.
62.94	Descend into Cocha Canon.
65.70	Cocha Canon Creek, 30 lks. wide, (dry) course N. and ascend.
80.00	Set a quartz rock, 20 x 18 x 16 ins., 15 ins., in the ground for the corner to sections, 1, 2, 35 and 36, marked with 5 notches on the W. and 1 notch on the E. edges, whence
	A pine, 12 ins., in diam. bears N 40 1/2° E., 39 lks. dist. marked T 22 S R 18 E S 36 B T.
	An oak, 10 ins., in diam. bears N. 75 1/4° W., 187 lks. dist. marked T 22 S R 18 E S 35 B T.
	A pine, 18 ins., in diam. bears S 67° W., 141 lks. dist. marked T 23 S R 18 E S 2 B T.
	No other trees within limits, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner Pits impracticable.
	Land rough mountains.
	Soil rocky and 4th rate.
	Timber heavy oak, pine and juniper.
	Undegrowth oak.
	Mountainous, covered with dense brush and heavily timbered land; 80.00 chains.
	Note- At 12 O'clock Noon, at this corner, I set off 20° 19' N., on the declination arc and observe the sun on the meridian; the resulting latitude I find to be 31° 28' N. which is the calculated latitude for this corner.

	EAST, on the South Boundary of Sec. 36.
	Descending over mountainous land covered with heavy timber and dense undergrowth.
26.70	Dry wash, 10 lks. wide, course S.
31.00	Point of hill trending to the South.
35.50	Dry wash, 10 lks. wide, course S. W.
40.	Set a quartz rock, 18 x 16 x 10 ins., 12 ins., in the ground for the 1/4 sec. cor. marked 1/4 on the N. face; whence,
	An oak, 6 ins., in diam. bears N. 15 1/4° W., 11 lks. dist. marked 1/4 S 36 B T.
	A Juniper, 10 ins., in diam. bears S. 60 1/4° E., 17 lks. dist. marked 1/4 S 1 B T.
43.50	Spur bearing N. E. and S. W.
62.43	Dry wash, 10 lks. wide, course N. W.
72.95	Dry wash, 10 lks. wide, course N. E.
76.90	Old road N. W. and S. E.
80.00	Set a limestone, 15 x 14 x 12 ins., 10 ins., in the ground for the corner to Townships 22 and 23 S., Rs. 18 and 19 E., marked with 6 notches on the N, S, E, and W edges; whence,
	An oak, 22 ins., in diam' bears N. 43 1/2° E., 101 lks marked T 22 S R 19 E S 31 B T.
	An oak, 14 ins., in diam. bears N. 78 3/4° W., 80 lks. dist. marked T 22 S R 18 E S 36 B T.
	An oak, 12 ins., in diam. bears S. 7 3/4° W., 44 lks. dist. marked T 23 S., R 18 E S 1 B T.
	An oak, 16 ins., in diam. bears S. 25 3/4° E., 60 lks. dist. marked T 23 S R 19 E S 6 B T.

5. East boundary of Tp. 22 S., R. 18 E., (Concluded).

	<p>Chs. Land mountainous. Soil rocky 3rd and 4th rate. Timber, heavy pine, oak and juniper. Undergrowth oak and manzanito. Mountainous, land covered with heavy timber and dense oak brush 80.00 chains.</p> <p style="text-align: right;">July 22nd. 1905.</p> <p style="text-align: center;">-----</p> <p>At the corner to Tps. 22 and 23 S., Rs. 18 and 19 E., on July 23rd, at 8 hours, 5 minutes, a. m., l. m. t., I set off $31^{\circ} 28' N.$, on the Lat. arc; $20^{\circ} 09' N.$, on the declination arc, and determine a meridian with the Solar. Thence I run, NORTH, bet. secs. 31 and 36. Over mountainous land through dense underbrush and scattering timber. Descending.</p> <p>3.00 Dry wash, 10 lks. wide, course N. W. 6.65 Old wood road bears N. W. a d S. E. 17.50 Dry wash, 50 lks. wide, course S. W. (Water in holes) Ascend.</p> <p>40.00 Set a sandstone, 15 x 10 x 6 ins., 10 ins., in the ground for $1/4$ sec. cor. marked $1/4$ on the W face; whence, An oak, 30 ins., in diam. bears $N. 43 1/4^{\circ} W.$, 51 lks. dist. marked $1/4 S 36 B T.$ No other trees within limits and raise a mound of stones, 2 ft. base, $1 1/2$ ft. high, W. of the corner. Pits impracticable.</p> <p>61.50 Dry wash, 20 lks. wide, course N. W. 75.49 Point of ridge trending to the N. W. 80.00 Set a sandstone, 14 x 13 x 7 ins., 10 ins., in the ground for the corner to sections 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the N. edges, whence, A pine, 8 ins., in diam. bears $N. 70^{\circ} W.$, 53 lks. dist. marked T 22 S., R. 18 E., S. 25 B T. An oak, 10 ins., in diam. bears $N. 64 1/2^{\circ} E.$, 60 lks. dist. marked T 22 S., R. 19 E., S. 30 B T. No other trees within limits, and raise a mound of stones, 2 ft. base, $1 1/2$ ft. high, W. of the corner. Pits impracticable.</p> <p>Land rough mountains. Soil rocky and 4th rate. Timber, scattering pine, oak and juniper. Underbrush oak and manzanito. Mountainous and land covered with dense undergrowth 80.00 chains.</p> <p style="text-align: center;">-----</p> <p>NORTH, bet. secs. 25 and 30. Over mountainous land covered with scattering timber and dense undergrowth.</p> <p>8.50 Commence descent. 12.50 Deep gulch, 20 lks. wide, course N. W. (water in holes) Small spring 2.25 chs. down stream. Ascend.</p> <p>27.00 Top and descend. 40.00 Set a limestone, 14 x 10 x 8 ins., 9 ins., in the ground for $1/4$ sec. cor. marked $1/4$ on the W face; whence, An oak, 12 ins., in diam. bears $N. 47^{\circ} E.$, 14 lks dist. marked, $1/4 S.$, $30 B T.$ An oak 12 ins., in diam. bears $N. 35^{\circ} W.$, 32 lks. dist. marked $1/4 S 25 B. T.$ and raise a mound of stones, 2 ft. base, $1 1/2$ ft. high, W. of the corner. Creek, 50 lks. wide, water in holes, course N. W. ascend.</p> <p>57.58</p>	
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Chs. 80.00 ✓	<p>Set a sandstone, 16 x 12 x 8 ins., 11 ins., in the ground for the corner to sections 19, 24, 25 and 30, marked with 2 notches on the S. and 4 notches on the N. edges, whence,</p> <p>An oak, 8 ins., in diam. bears N. 83° E., 62 lks. dist. marked T. 22 S., R 18 E., S. 19 B T.</p> <p>An oak, 12 ins., in diam. bears N. 73° W., 237 lks. dist. marked T 22 S R 18 E S 24 B T.</p> <p>An oak, 8 ins., in diam. bears S. 32 1/2° W., 50 lks. dist. marked T 22 S R 18 E S 25 B T.</p> <p>An oak, 6 ins., in diam. bears S 42 1/2° E., 73 lks. dist. marked T 22 S R 19 E S 30 B T.</p> <p>Land mountainous. Soil rocky; 4th rate. Timber oak and juniper. Underbrush oak and manzanito. Mountainous land 80.00 chains.</p>
12.00	<p>-----</p> <p>NORTH, bet. secs. 19 and 24. Over mountainous land through heavy timber and underbrush. Main divide of mountain E. and W. Descend.</p>
25.76	Dry creek, 50 lks. wide, course west.
25.90	Old road course N. W. and S. E.
40.00	<p>Set a sandstone, 14 x 10 x 6 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; whence,</p> <p>An oak, 10 ins., in diam. bears N. 48° W., 56 lks. dist. marked 1/4 S 24 B T.</p> <p>An oak, 8 ins., in diam. bears N. 81° E., 137 lks. dist. marked 1/4 S 19 B T.</p>
44.95	Ascending over broken ridges trending to the N. W.
66.52	Spur trending to the west.
68.49	Dry wash, 20 lks. wide, in deep gulch course N. W.
80.00	<p>Ascend.</p> <p>Set a sandstone, 15 x 10 x 8 ins., 10 ins., in the ground for the corner to sections, 13, 18, 19 and 24, marked with 3 notches on the N. and S. edges; whence,</p> <p>An oa, 12 ins., in diam. bears N. 49 1/2° E., 33 lks. dist. marked T 22 S., R. 19 E., S 18 B T.</p> <p>An oak, 10 ins., in diam. bears N. 65 1/2° W., 100 lks. dist. marked T 22 S., R. 18 E., S. 13 B T.</p> <p>An oak, 10 ins., in diam. bears S. 49 1/2° W., 1.18 chs. dist. marked T 22 S., R 18 E S 24 B T.</p> <p>An oak, 16 ins., in diam. bears S 33° E., 84 lks. dist. marked T 22 S R 19 E S 29 B T.</p> <p>Land Mountainous. Soil rocky and 4th rate. Timber oak. Undergrowth oak and manzanito brush. Mountainous and covered with heavy timber; 80. chs. July 23rd, 1905.</p>
	<p>-----</p> <p>July 24th, at the corner just previously described, at 7 hs. 34 mins. a. m., l. m. t., I set off 31° 30' N., on the Lat. arc; 19° 58' N., on the decl. arc and determine a meridian with the solar; thence I run,</p>
8.55	NORTH, bet. secs. 13 and 18.
40.00	<p>Over mts. land through timber. Dry wash, 40 lks. wide, course N. W. Set a sandstone, 16 x 14 x 10 ins., 11 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, whence,</p> <p>An oak, 10 ins., in diam. bears S. 85 1/2° E., 58 lks. dist. mkd. 1/4 S 18 B T.</p> <p>An oak, 12 ins., in diam. bears N 89° W 184 lks.</p>

7.

EAST boundary of Tp. 22. S., R. 18 E. Continued.

Chs.
58.25
80.00

marked 1/4 S 13 B T.
Wash, 25 lks. wide, course N. W. (running water.)
Set a sandstone, 18 x 10 x 8 ins., 12 ins., in the ground for the corner to sections 7, 12, 13 and 18, marked with 2 notches on the N. and 4 notches on the S. edges; whence,
An oak, 24 ins., in diam. bears N. 75° E., 40 lks. dist. marked T 22 S R 19 E S 7 B T. No other trees within limits, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.
Pits impracticable.
Land low mountains sloping N. W. from the Huachuca Range.
Timber oak pine and juniper.
Soil, rocky 4th rate.
Undergrowth oak and manzanito.
Mountainous land 80.00 chs.

34.50

NORTH, bet. secs. 7 and 12.
Descending over mountainous land trending to the N.W. Gulch, 40 ft. deep, small stream of water at bottom 12 lks. wide, course N. W. and ascend.

40.00

Set a sandstone, 16 x 14 x 8 ins., 11 ins., in the ground for the 1/4 sec. cor. marked 1/4 on the W. face, whence,

An oak, 12 ins., in diam. bears N. 44 3/4° E., 115 lks. dist. marked 1/4 S 7 B T.

An oak, 12 ins., in diam. bears S. 33 1/4° W., 160 lks. dist. marked 1/4 S 12 B T., and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the cor.

This corner is on the point of a hill trending to the N. W. and about 75 ft. above the creek bottom.

44.00

Top of spur trending to the W. and descend.

47.53

Dry wash, 20 lks. wide, course N. W. Ascend.

68.05

Top of spur trending to the N. W. and descend.

80.00

Set a limestone, 14 x 10 x 9 ins., 10 ins., in the ground for the corner to sections 1, 6, 7 and 12, marked with 5 notches on the S. and 1 notch on the N. edges; whence,

An oak, 10 ins., in diam. bears S 43 1/2° W., 333 lks. dist. marked T 22 S R 18 E S 12 B T. No other trees within limits and raised a mound of stones 2 ft. base, 1 1/2 ft. high, W. of the corner.
Pits impracticable.

Land mountainous.

Scattering timber of oak and juniper.

Undergrowth heavy oak and manzanito.

Mountainous land 80.00 chains.

17.75

NORTH, bet. secs. 1 and 6.

32.10

Descending over mountainous land.

40.00

Dry wash, 15 lks. wide, course N. W.

Descend.

Set a quartz rock, 18 x 9 x 8 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, whence,

An oak, 6 ins., in diam bears N. 82 3/4° W., 13 lks. dist. marked 1/4 S 1 B T.

An oak, 4 ins., in diam. bears N. 49° E., 72 lks. dist. marked 1/4 S 6 B T.

52.90

Old mining shaft west 2.80 chs.

80.00

Set a limestone, 12 x 10 x 7 ins., 8 ins., in the ground for the Cor. to Tps. 21 and 22 S., Rs. 18 and 19 E., marked with 6 notches on the N. S. E. and W. edges, whence,

The S. E. Cor. of an old adobe house bears N. 25 1/4° W., 3.44 chs. dist.

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8. NORTH BOUNDARY of Tp. 22 S., R. 18 E. Concluded.

chs. A mesquite, 8 ins., in diam. bears S. 30° E., 117 lks. dist. marked T 22 S R 19 E., S. 6 B T.
 A mesquite, 6 ins., in diam. bears S. 17 1/2° W., 241 lks. dist. mkd. T 22 S., R. 18 E S 1 B T.
 No other trees within limits and raise a mound of stones 2 ft. base, 1 1/2 ft. high, S. of the corner.
 Pits impracticable.
 Land mountains.
 Soil rocky and gravelly 3rd and 4th rate.
 Timber scattering oak, mesquite, juniper.
 Underbrush mesquite and oak.
 Mountainous or land covered with dense underbrush 80. chains.

NOTE-

From the Cor. to Tps. 21 and 22 S., Rs. 18 and 19 E., the Cor. No. 1 (S W Cor.) of the Huachuca Military Reservation bears N. 66° 10' E., 61.60chs. dist. July 24th, 1905.

July 25th- At 7 hours, 10 minutes, a. m., 1. m. t., at the Cor. to Tps. 21 and 22 S., Rs. 18 and 19 E., I set off 31° 33' N., on the Lat. arc; 19° 45' N., on the decl. arc and determine a meridian with the Solar thence I run, WEST on a random line, along the North Boundary of Tp. 22 S., R. 18 E., setting temporary 1/4 and sec. cors. at intervals of 40. chs., and at 478.27 chs., intersect the Third Guide Meridian East 210 lks. South of the Cor. to Tps. 21 and 22 S., Rs. 17 and 18 E., which is a stone marked and witnessed as described by the Surveyor-General.

The falling answers to a correction of 35 links or 0° 15' N per mile, counting from the N. E. Cor. of the Township; therefore I run, S. 89° 45' E., on a true line, bet. secs. 31 and 6. Over mountainous land through scattering timber. Descending.

21.07
38.27

Dry wash, 20 lks. wide, course N. W.
 Set a sandstone, 18 x 13 x 12 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, whence,
 An oak, 8 ins., in diam. bears N. 33 1/4° E., 97 lks. dist. marked 1/4 S 31 B T.
 An oak, 8 ins., in diam. bears S. 18° W., 77 lks. dist. marked 1/4 S 6 B T.

41.70
43.95
71.10
78.27

~~To a point about 9 chs. N. of the Advance Copper Claim (unsurveyed) shaft.~~
 Dry wash, 30 lks. wide, course N. E.
 Spur of mountain trending to the N. descend.
 Set a sandstone, 16 x 8 x 8 ins., 11 ins., in the ground for the corner to Secs. 5, 6, 31 and 32, marked with 1 notch on the W. and 5 notches on the E. edges; and raised a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.
 Pits impracticable.
 No bearing trees within limits.
 Land mountainous.
 Soil rocky and 4th rate.
 Timber scattering oak, and juniper.
 Undergrowth oak and manzanito.
 Mountainous land 78.27 chs.

July 25th, 1905.

July 26- At 7 a. m., 1. m. t., I set off at the above described corner, 31° 33' N., on the Lat arc; 19° 32' N., on the declination arc, and determine a meridian with the Solar. Thence I run, S. 89° 45' E., on a true line, bet. secs. 5 and 32. Over mountainous land through scattering timber. Dry wash, 40 lks. wide, course N. E.

30.76

For last 1/2 mile see supplemental notes page 1.

Chs. 40.00 ✓	Set a limestone, 14 x 8 x 6 ins., 10 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, whence, An oak, 8 ins., in diam. bears N. 59 1/2° W., 50 lks. dist. marked 1/4 S 32 B T. An oak, 14 ins., in diam. bears S. 64 3/4° E., 47 lks. dist. marked 1/4 S 5 B T.
79.40	Road from Huachuca Post to Fairbanks bears N. and S.
79.60	Mc Cartee Fence bears E. N. E. and W. S. W. and enter cultivated field.
80.00 ✓	Set a sandstone, 16 x 10 x 6 ins., 11 ins., in the ground for the corner to sections 4, 5, 32 and 33, marked with 2 notches on the W. and 4 notches on the E. edges, whence, An oak, 24 ins., in diam. bears S. 80° W., 220 lks. dist. marked T 22 S., R. 18 E S 5 B T. An oak, 8 ins., in diam. bears N. 60° W., 221 lks. dist. marked T 21 S., R 18 E., S 32 B T. An oak, 10 ins., in diam. bears S 8 1/2° E., 264 lks. dist. marked T 22 S., R 18 E., S 4 B T. Mc Cartee's house bears N.W. about 8.00 chs.
	No other trees within limits and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of the corner. Dig a pit, 18 x 18 x 12 ins., 5 1/2 ft. dist. in Sec. 33. Land mountainous trending to the S. E. Soil rocky, gravelly and sandy; 1-2 and 3rd rate. Timber, scattering oak and juniper. Undergrowth oak and manzanito. Mountainous land; 80.00 chains.
16.04	S. 89° 45' E., on a true line, bet. secs. 4 and 33. Over low mountain ridges; through scattering timber. Ravine course N. and ascend. Steep W. slope ascending and leave cultivated field.
24.00	Thumb of ridge bears N. and S. and descend.
40.00 ✓	A rock in place, 18 x 12 ins., above ground, for 1/4 sec. cor. marked (x) at exact cor. point and 1/4 on the N. whence, An oak, 14 ins., in diam. bears S. 13° E., 40 lks. dist. marked 1/4 S 4 B T. An oak, 14 ins., in diam. bears N. 22 1/2° W., 103 lks. dist. marked 1/4 S 33 B T.
41.55	Dry wash, 20 lks. wide, course S. E.
55.02	To a point about 375 lks. N. of an old adobe house, ascend.
74.48	Wire fence bears N. W. and S. E.
80.00 ✓	Set a limestone, 16 x 14 x 10 ins., 11 ins., in the ground for the corner to sections, 3, 4, 33 and 34, marked with 3 notches on the E. and W. edges; whence An oak, 8 ins., in diam. bears N. 40° W., 64 lks. dist. marked T 21 S R 18 E S 33 B T. An oak, 18 ins., in diam. bears S. 65 1/2° E., 111 lks. dist. marked T 22 S R 18 E S 3 B T. An oak, 8 ins., in diam. bears N. 24 1/4° E., 45 lks. dist. marked T 21 S R 18 E S 34 B T. An oak, 8 ins., in diam. bears S 82 3/4° W., 32 lks. dist. marked T 22 S R 18 E S 4 B T.
	Land low ridges and mountains trending to the N. E. Soil loam, sandy and rocky 2nd to 4th rate. Timber, dense oak and juniper. Mountainous or land covered with heavy timber 64.00 chs. Open land west 16.00 chs.
3.00	S. 89° 45' E. on a true line, bet. secs. 34 and 3.
11.90	Over mountainous land through scattering timber.
18.52	Old road bears N. and S. Descend. Dry wash, 25 lks. wide, course N. and ascend.

For this mile see supplemental notes Page 2

For this mile see supplemental notes Page 2

10. North boundary of Tp. 19 S., R. 22 E. Continued.

Chs.
40.00

Set a limestone, 12 x 10 x 8 ins., 8 ins., in the ground for the 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. No bearing trees within limits.

59.20

Road on ridge bears N. and S. descend.

80.00

Set a quartzite stone, 16 x 12 x 5 ins., 11 ins., in the ground for the corner to sections, 2, 3, 34 and 35, marked with 2 notches on the E. and 4 notches on the W. edges, whence

An oak, 12 ins., in diam. bears N. 79 1/2° W., 207 lks. dist. marked T 21 S R 18 E S 34 B T.

An oak, 12 ins., in diam. bears S. 69° W., 111 lks. dist. marked T 22 S., R. 18 E S 33 B T.

An oak, 14 ins., in diam. bears S 68 3/4° E., 89 lks. dist. marked T 22 S R 18 E S 2 B T.

No other trees within limits and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.

Land mountainous trending to the S. W. from the Canille Mountains. Soil rocky 4th rate.

Timber scattering oak.

Mountainous land 80.00 chs.

July 26th, 1905.

July 27- At the section corner just previously described, at 6 hours, 55 minutes, a. m., l. m. t., I set off 31° 33' N., on the lat. arc; 19° 19' N., on the declination arc; thence I run, S. 89° 45' E., on a true line, bet. secs. 2 and 35.

Over mountainous land through scattering timber. Ascending.

Old road bears N. and S.

14.30

Lyle Canon Creek, 200 ft. wide, small stream of water at bottom course N. W. and ascend.

15.30

Top of ridge bears N. E. and S. W. and descend.

25.50

Set a sandstone, 18 x 16 x 12 ins., 12 ins., in the ground for the 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner.

40.00

Pits impracticable. No bearing trees.

Dry wash, 1.00 chs. wide, course N. E. and ascend.

50.88

Set a quartz stone, 16 x 10 x 6 ins., 11 ins., in the ground for the corner to sections 1, 2, 35 and 36, marked with 5 notches on the W. and 1 notch on the E. edges, whence

80.00

An oak, 6 ins., in diam. bears N. 11° E., 30 lks. dist. marked T 21 S R 18 E S 36 B T.

No other trees within limits and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the cor. Pits impracticable.

This corner is situated on the slope of a steep hill, about 200 ft. above creek bottom to the W.

Land mountainous.

Timber scattering oak.

Soil rocky 3rd and 4th rate.

Undergrowth oak and manzanito.

Mountainous land 80. chs.

S. 89° 45' E., on a true line, bet. secs. 1 and 36. Over mountainous land through scattering timber.

Descend.

.50

The S. E. Cor. of a mining claim (a mound of stones) bears S. E. 135 lks.

14.00

Dry wash, 50 lks. wide, course N.

15.00

Descend.

31.52

Set a quartz rock, 20 x 18 x 10 ins., 15 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, whence

40.00

For this mile see supplemental notes page 2

For this mile see supplemental notes page 3

For this mile see supplemental notes page 3

11. North boundary of Tp. 22 S., R. 18 E. Concluded.

11

Chs. An oak, 14 ins., in diam. bears S. 28° E., 224 lks. dist. marked 1/4 S 1 B T.
 No other trees within limits and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.
 From this 1/4 Cor. the N. E. Cor. of the Los Angeles Eagle Mining Company's House bears N. 87° W., about 8.00 chains.
 Road bears N.W. and S.E.
 Same road from Igo Ranch to Huachuca bears N. E. and S. W.
 41.00
 45.70
 80.00 The cor. to Tps. 21 and 22 S., Rs. 18 and 19 E. Land mountainous. Soil rocky 4th rate. Timber scattering oak. Undergrowth oak and manzanito. Mountainous land 80.00 chs.

 GENERAL DESCRIPTION.

This township is rough mountains being situated on the western slope of the Canille or Huachuca Range of Mountains. It is covered with a good growth of oak timber. The township is well watered. Claims for mineral are being located within the township and in the country North and west.

Boundaries of Tp. 22 S., R. 18 E.
 Latitudes, Departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes		Departure	
			N	S	E	W.
3rd. Guide Mer. East.	South	480. ✓		480.00 ✓		
South Boundary.	East.	479.11 ✓			479.11 ✓	
East Boundary.	North	480. ✓	480. ✓			
North Boundary.	N. 89° 45' W.	478.27 ✓	2.10 ✓			478.27 ✓
Convergency,						.45
Error in Lat.	2.10 chs.		482.10	480.00	479.11	478..72
" " Dep.	.39 chs. chs.		480.00		478.82	
			2.10 ✓		.39 ✓	

July 27th, 1905.

John M. Ingalls
 U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

John M Ingalls

United States Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of

the North East and South boundaries of T22 S.R. 18 E.

showing the respective capacities in which they acted:

D. Roy Shrode , Chainman.

Harry S. Ingalls , Chainman.

..... , Moundman.

..... , Moundman.

F. I. Kline , Axman.

..... , Axman.

Bruce M. Hyde , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

John M Ingalls

United States Deputy Surveyor, in surveying all

those parts or portions of the

South East and North

boundaries of T22 S.R. 18 E.

the and Salt River Base and

Meridian, Arizona 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

D. Roy Shrode , Chainman.

Harry S. Ingalls , Chainman.

..... , Moundman.

..... , Moundman.

F. I. Kline , Axman.

..... , Axman.

Bruce M. Hyde , Flagman.

Subscribed and sworn to before me this *15th*

day of *Aug*, 189*5*



John M Ingalls
U.S. Surveyor

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BOOK 2059

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John M. Ingalls United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from John M. Ingalls United States Surveyor General for Arizona, bearing date of the 4th day of May 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the north south and east boundaries of T²² S R¹⁸ E,

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

John M. Ingalls
United States Deputy Surveyor.

Subscribed by said John M. Ingalls and sworn to before me }
this 21st day of August 189 1905

Frank A. Ingalls
U.S. Surveyor General
for Arizona.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ar. July 22nd 1907

The foregoing field notes of the survey of the North East and South boundaries of T²² S R¹⁸ E. of the Gila and Salt River Base and Meridian, in the Territory of Arizona

executed by John M. Ingalls U.S. deputy surveyor under his contract No. 130, dated May 4th 1903, 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.

BOOK 2059

Supplemental
FIELD NOTES

of correction
OF THE SURVEY OF THE

North Boundary

of
T22 S. R. 18 E.

of the Gila and Salt River Base and Meridian,

Territory of Arizona

AS SURVEYED BY

John M. Ingalls, United States Deputy Surveyor,

Under his Contract No. 130, dated May 4th 1905, 190

Survey commenced March 27th 1905, 190

Survey completed March 28th 1905, 190

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BOOK 2059

NAMES AND DUTIES OF ASSISTANTS.

Geo G Ehrenberg }
Jim Finley } Chairman
O Sato }
Moundman
Thos C Merriman }
Axman
John Brown }
Flagman

206
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Supp. notes
INDEX DIAGRAM.

BOOK 2059

Township 22 N., Range 18 E.

X 1	2	3	3	3	3
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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

Preliminary Oaths of Assistants.

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BOOK 2059

WE, Geo. G. Ehrenborg and Jim Finley
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 exterior & subdivisioal lines of Sp 22 S R. 18 E.

Geo. G. Ehrenborg Chainman.

Jim Finley, Chainman.

Subscribed and sworn to before me this 25th
day of March, ~~189~~ 1907.



W. G. Powers
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.

WE, J. P. Soto and J. P. Soto
do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of exterior & subdivisioal lines of Sp 22 S R. 18 E.

J. P. Soto, Moundman.

J. P. Soto, Moundman.

Subscribed and sworn to before me this 25th
day of March, ~~189~~ 1907.



W. G. Powers
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.

WE, J. Hos. C. Merriam
do solemnly swear that we will well and truly perform the duties of axman 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 exterior and subdivisioal lines of Sp. 22 S., R. 18 E.

Jos C. Merriam, Axman.

Jos C. Merriam, Axman.

Subscribed and sworn to before me this 25th
day of March, ~~189~~ 1907.



W. G. Powers
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.

I, John Brown, 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 exterior and subdivisioal lines of Sp. 22 S., R. 18 E.

John Brown, Flagman.

Subscribed and sworn to before me this 25th
day of March, ~~189~~ 1907.



W. G. Powers
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.

Surveyed commenced March 27, 1907, and executed with a J. C. Sala Solar Compass No. 137. The horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, A. T. found to be in adjustment, and was approved by the Surveyor General for Arizona.

I examine the adjustments of the compass and find them to be satisfactory: then to test the solar apparatus, by comparing its indications resulting from solar observations made during A. M. & P. M. hours, with a meridian determined by observations on Polaris, I proceed as follows:

March 27, 1907. At the $1/4$ sec. cor. on the line bet. secs. 6 & 31., which is a cor. as described in my original field notes of the survey of the north bdy. of T. 22. S. R. 18. E. in latitude $31^{\circ} 33' 07''$ N., longitude $110^{\circ} 33' 07''$ W. at 3h 30m. P. M. 1. m. t. I set off $31^{\circ} 33'$ N. on the lat. arc. & $2^{\circ} 27'$ N. on the dec'l. arc. and determine a true meridian with the solar, and mark a point thereon on a stone firmly set in the ground 5 chs. N. of my station.

At 7 h 4 m. P. M. 1. m. t. by my watch which is correct, I observe Polaris at its Western elongation, in accordance with the instructions in the Manual (my compass being provided with an auxiliary telescope) and mark a point on the line thus determined on a plug driven in the ground 5 chs. N. of the cor.

March 27, 1907.

March 28, 1907. At 7h A. M. 1. m. t. I lay off the azimuth of Polaris $1^{\circ} 27'$ to the east and mark the meridian thus determined by cutting a mark in the stone set yesterday, on which the meridian falls 0.15 ins. W. of the meridian established by the solar observation.

At 7h 30 m. A. M. 1. m. t. I set off $31^{\circ} 33'$ N. on the lat. arc. & $2^{\circ} 43'$ N. on the dec'l. arc. & determine a meridian with the solar at the said $1/4$ sec. cor. and mark a point thereof by a groove on the stone already set 5 chs. N. of my station. this marks falls on the meridian established by the Polaris observation. I therefore conclude that the adjustments of my instrument are correct.

The mag. dec'l. of the true meridian at this cor. as reduced by the table on page 100 of the manual is N. 14° E.

I begin at the $1/4$ sec. cor. bet. secs. 6 & 31 on the north bdy. of the township and run S. $89^{\circ} 45'$ E. on a true line bet. secs. 6 & 31.

Over mountainous land through scattering timber.

3.43 Appintasa Shshik N. of the shaft on Advance unsurveyed claim.

4.75 Dry wash 30 lks. wide, course. N. E. ascend.

32.83 Top of spur trending to the N. and descend.

40.00 Set a sandstone 16x8x8 ins. 11 ins. in the ground for the cor. to secs. 5, 6, 31 & 32, marked with 1 notch on the W. & 5 notches on the E. edges., from which.

An oak 24 ins. in diam brs. N. $64^{\circ} 15'$ E. 40 lks. dist. marked T. 21. S. R. 18. E. S. 32. B. T.

An oak 24 ins. in diam. brs. S, 79° E. 45 lks. dist. marked T. 22. S. R. 18. E. S. 5. B. T.

An oak 8 ins. in diam. brs. S. 89° W. 46 lks. dist. marked T. 22. S. R. 18 E. S. 6. B. T.

An oak 12 ins. in diam. brs. N $0^{\circ} 30'$ W. 114 lks. dist. T. 22. S. R. 18. E. S. 31. B. T.

Land mountainous.

Soil rocky. and 4th rate.

Timber scattering oak & juniper.

Undergrowth, oak & manzanito.

Mountainous land, 78.27 chs.

see original notes page 8

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Thence I run S. 89° 45' E. on a true line bet. secs. /
5 & 32.
Over mountainous land through scattering timber.

29.54
40.00

Dry wash 40 lks. wide, course. N. E.
Set a limestone 14x8x6 ins. 10 ins. in the ground for the
1/4 sec. cor. bet. secs. 5 & 32. marked 1/4 on the N. face.
An oak 8 ins. in diam brs. N. 56° W. 30 lks. dist.
marked 1/4 S. 32. B. T. ✓

An oak 14 ins. in diam brs. N. 77° 30' E. 31 lks. dist.
marked 1/4 S. 32. B. T. ✓

No other trees within limits, and raised a mound.
of stone 2 ft. base. 1 1/2 ft. high N. of cor.
Set a sandstone 16x10x6 ins. 11 ins. in the ground for.
Witness Cor. to the cor. to secs. 4, 5, 32 & 33 marked
with 2 notches on the W. & 4 notches on the E. edges and
W. C. on the N. E. face. from which.

79.80

An oak 8 ins. in diam brs. N. 88° 45' W. 86 lks'
dist. marked T. 21. S. R. 18. E. W. C. S. 32. B. T. ✓
An oak 10 ins. in diam. brs. S. 36° E. 283 lks. dist.
marked T. 22. S. R. 18. E. W. C. S. 4. B. T. ✓

No other trees within limits and raised a mound of
stones 3 ft. base. 2 ft. high. W. of cor. Pits impracticable.

Macarte's house brs. N. W. about 8 chs. dist.
80.00 The road from Huachuca Post to Fairbanks brs. N. & S. It
will therefore be impracticable to set the sec. cor. at
this point as it will be liable to destruction.
Land mountainous trending to the S. E.
Soil roaky, gravelly & sandy. 1st. 2nd. & 3rd. rates.
Timber scattering oak & juniper.
Under growth oak & manzanito.
Mountainous land 80.00 chs.

S. 89° 45' E. on a true line bet. secs. 4 & 33.
Over low mountain ridges, through scattering timber.
00.26 Fence brs. N. & S. & enter McCarte's field of cultivated land
15.04 Ravine course N. & ascend. over steep west slope. leave
cultivated field.

23.00
40.00

Thumb of ridge brs. N. & S. & descend.
Set a limestone 14x8x8 ins. 10 ins. in the ground for
1/4 sec. cor. marked 1/4 on the N. face and raised a
mound of stones 2 ft. base. 1 1/2 ft. high N. of cor.

An oak 8 ins. in diam. brs. S. 13° 30' E. 246 lks.
dist. marked 1/4 S. 4. B. T. ✓
An oak 8 ins. in diam. brs. N. 68° 30' W. 139 lks.
dist. marked 1/4 S. 33 B. T. ✓ Pits impracticable.

52.55
52.02
73.48
80.00

Dry wash 20 lks. wide, course S. E.
To a point about 375 lks. N. of an old adobe house. ascend.
Wire fence brs. N. W. & S. E.
Set a lime stone 16x14x10 ins. 11 ins. in the ground for
the cor. to secs. 3, 4, 33 & 34, marked with 3 notches
on the E. & W. edges. from which.

An oak 8 ins. in diam brs. N. 45° W. 236 lks. dist.
marked T. 21. N. R. 18. E. S. 33. B. T. ✓

An oak 12 ins. in diam brs. S. 61° 15' E. 46 lks. dist.
marked T. 22. S. R. 18. E. S. 3. B. T. ✓

An oak 36 ins. in diam. brs. N. 55° 30' E. 109 lks.
dist. marked T. 21. S. R. 18. E. S. 34. B. T. ✓

An oak 8 ins. in diam. brs. S. 16° W. 118 lks. dist.
marked T. 22. S. R. 18. E. S. 4. B. T. ✓

Land low ridges & mountainous, trending to the N. E.
Soil sandy loam & rocky. 2nd. & 4th. rates.
Timber dense oak & juniper.
Mountainous land or land covered with dense timber 64.00
chs. Open land west 16.00 chs.

S. 89° 45' E. on a true line bet. secs. 3 & 34.
Old road brs. N. & S.

04.00
13.00
20.52
40.00

Descend.
Dry wash 25 lks. wide, course N. & ascend.
Set a limestone 12x10x8 ins. 8 ins. in the ground for 1/4
sec. cor. marked 1/4 on the N. face and raised a mound of
stones 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable

see original
notes Page 9

see original
notes Page 9

see original
notes Page 10

60.20 Road on ridge brs. N. & S. and descend.
 80.00 Set a quartzite stone 16x12x5 ins. 11 ins. in the ground for the cor. to secs. 2, 3, 34 & 35, marked with 2 notches on the E. & 4 notches on the W. edges, from which.
 An oak 12 ins. in diam brs. N. 82° 30' W. 54 lks. dist. marked T. 21. N. R. 18. E. S. 34. B. T. ✓
 An oak 6 ins. in diam. brs. S. 61° W. 178 lks. dist. marked T. 22. S. R. 18. E. S. 3. B. T. ✓
 An oak 14 ins. in diam. brs. S 2° 45' E. 84 lks. dist. marked T. 22. S. R. 18. E. S. 2. B. T. ✓
 No other trees within limits and raised a mound of stones 3 ft. base, 1 1/2 ft. high N. of cor. Pits imprac.
 Land mountainous trending to the S. W. from the Canille Mountains.
 Soil roaky. 4th rate.
 Timber scattering oak.
 Mountainous land 80.00 chs.

March 27. 1907. At the sec. cor. just described at 12 h 6 m P. M. 1. m. t. I set off 2° 47' N. on the dec'l. arc. & observe the sun on the true meridian. the resulting lat. is 31° 33' N. or within 1 min. of the proper latitude. S. 89° 45' E. on a true lin bet. secs. 2 & 35.
 Over mountainous land through scattering timber, descending.

15.30 Old road brs. N. & S.
 16.30 Lyle canyon Creek, 300 lks. wide, small stream of water at the bottom, course N. W. & ascend.
 25.50 Top of ridge brs. N. E. & S. W. & descend.
 40.00 Set a sandstone 18x16x12 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the N. face, & raised a mound of stones 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable. No bearing trees.
 50.88 Dry wash 100 lks. wide, course N. E. & ascend.
 80.00 Set a quartzite stone 16x10x6 ins. 11 in the ground for the cor. to secs. 1, 2, 35, & 36, marked with 5 notches on the W & 1 notch on the E. edges, from which.
 An oak 6 ins. in diam. brs. N. 7° E. 22 lks. dist. marked T. 21. S. R. 18. E. S. 36. B. T. ✓
 No other trees within limits, and raised a mound of stone 2 ft. base, 1 1/2 ft. high. N. of cor. Pits impracticable.
 This cor. is situated on the slope of a steep hill, about 200 ft. above the creek bottom to the west.
 Land mountainous.
 Timber scattering oak.
 Undergrowth oak & manzanito.
 Mountainous land 80.00 chs.

S. 89° 45' E. on a true line bet. secs. 1 & 36.
 00.50 Over mountainous land through scattering timber.
 00.50 Descend.
 14.00 The S. E. cor. of a mining claim (a mound of stones) brs. S. E. 135 lks. dist.
 15.00 Dry wash 50 lks. wide, course N. & ascend.
 31.52 Descend.
 40.00 Set a quartz rock 20x18x10 ins. 15 ins. in the ground for 1/4 sec. cor. marked. 1/4 on the N. face. whence.
 An oak 14 ins. in diam. brs. S. 21° 30' E. 227 lks. dist. marked 1/4 S. 1 B. T. ✓
 No other trees within limits and raised a mound of stones 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable. From this cor. the N. E. cor. of the Los Angeles Eagle Mining Company's house brs. N. 87° W. about 8.00 chs.

41.00 Road brs. N. W. & S. E.
 45.70 Same road from Igo Ranch to Huachuca brs. N. E. & S. W.
 80.00 The cor. to Tps. 21 & 22. S. Rs. 18 & 19. E. as described in my original field notes of this cor,
 Land mountainous.
 Soil roaky & 4th rate.
 Timber scattering oak.
 Undergrowth oak & manzanito,
 Mountainous land 80.00 chs.

all original
made page 10

2H
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GENERAL DESCRIPTION.

This township is rough and mountainous, being situated on the western slopes of the Canille or Huachuca Range of Mountains. It is covered with a good growth of oak timber. The township is well watered. Claims for mineral surveys are being located within the township and in the ~~country~~ North & West.

John M. Ingalls

U. S. Depy. Surv.

LIST OF NAMES.

A list of the names of the individuals employed by John M. Ingalls
....., 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 ^{corrections made of} exterior
and subdivisional lines of Sp. 22 S. R. 18 E.
showing the respective capacities in which they acted:

Geo. G. Ehrenborg Chainman.

Jim Finley Chainman.

P. Soto Moundman.

Thos. C. Merriman Moundman.

John Brown Axman.

John Brown Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John M. Ingalls
....., United States Deputy Surveyor, in ^{correcting} ~~surveying~~ all
~~these parts or~~ portions of the survey of the exterior and subdivisional
lines of Sp. 22 S. R. 18 E.

..... of the 4th base
and meridian, Territory of Arizona, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for Arizona

Geo. G. Ehrenborg ✓ Chainman.

Jim Finley ✓ Chainman.

P. Soto ✓ Moundman.

..... Moundman.

Thos. C. Merriman ✓ Axman.

..... Axman.

John Brown ✓ Flagman.

Subscribed and sworn to before me this 10th
day of April, 1907.



H. G. Packer

Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.

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BOOK 2059

Final Oath of United States Deputy Surveyor.

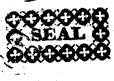
I, John M. Ingalls, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls, United States Surveyor General for Arizona, bearing date of the 4th day of May, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, ~~correcting all these portions of~~ correcting portions of the survey of exterior and subdivisional lines of Sp 27 S., R. 18 E.

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

John M. Ingalls
United States Deputy Surveyor.

Subscribed by said John M. Ingalls, and sworn to before me this 26th day of April, 1907

W. C. [Signature]
U.S. Commissioner



APPROVAL.

Office of the United States Surveyor General,

Phoenix Ar. July 25th 1907

The foregoing ^{supplemental} field notes of the survey of the North Boundary of T22 S. R. 18 E. of the Gila and Salt River Base and Meridian in the Territory of Arizona

executed by John M. Ingalls under his contract No. 130 dated May 4th, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General.

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

United States Surveyor General.