4—679.

Book H

2139

BOOK 2139

FIELD NOTES

2139

2139

OF THE SURVEY OF THE

Fractional Subdivisions of T 11 S. R. 14 E.

2139

Of the Gila & Salt River *Base and Meridian,*

Arizona

AS SURVEYED BY

Jacobs and Curry, *United States Deputy Surveyors*

Under his Contract No. 148, *dated* March 20th, 1908

Survey commenced August 12, 1908

Survey completed August 24, 1908

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BOOK 2139

NAMES AND DUTIES OF ASSISTANTS.

Harry S. Young	Chainman
Jim G. Ellis	"
James Hughes	Roundman

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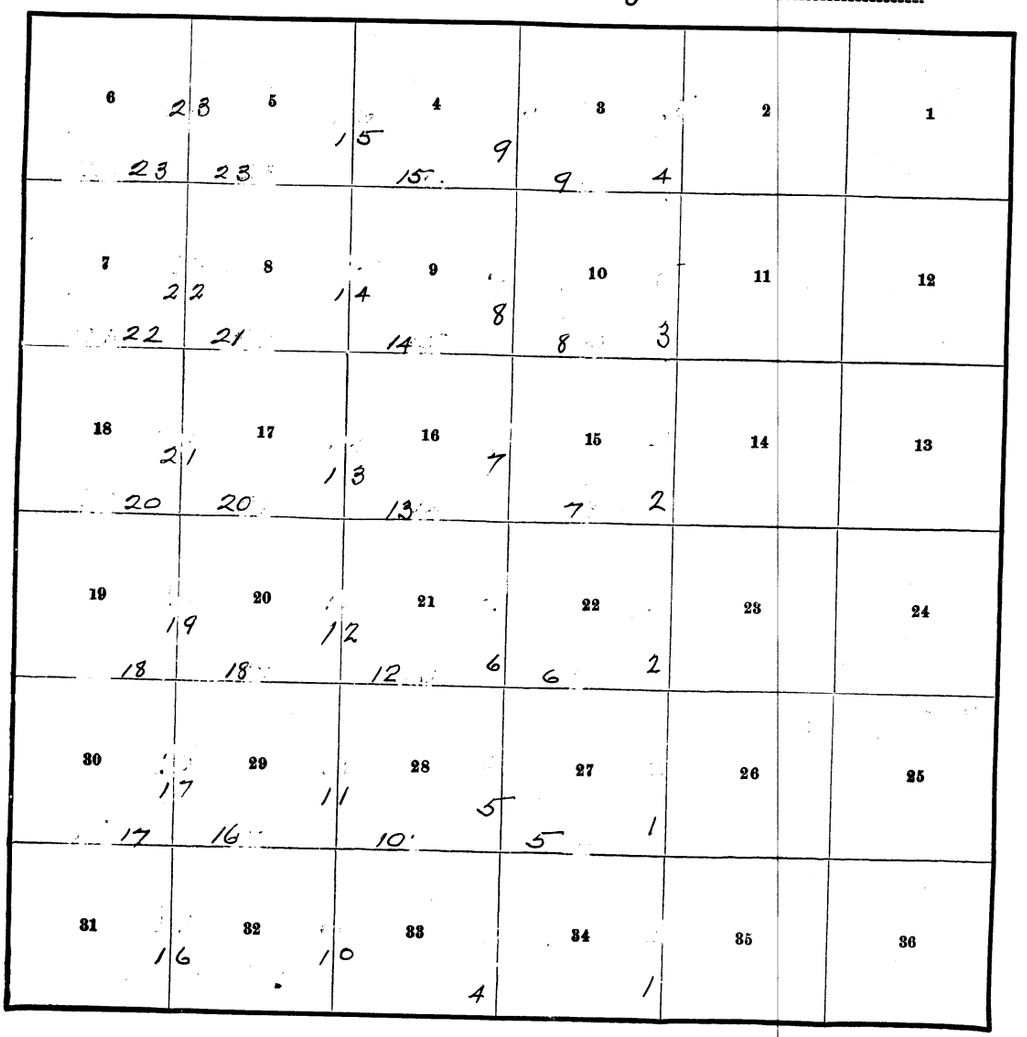
1B

BOOK 2139

Book No 2131

INDEX DIAGRAM.

Township 11 S., *Range* 14 E.



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1C

BOOK 2139

PRELIMINARY OATHS OF ASSISTANTS.

WE, Harry S. Young and Jim A. Kellis 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 the Subdivisions of T 11 S - R 14 E.

Harry S. Young, Chainman.

Jim A. Kellis, Chainman.

Subscribed and sworn to before me this 10th day of August, 1908

Francis B. Jacobs

SEAL

My commission expires September 20, 1911 Notary Public

WE, James Hughes 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 the Subdivisions of T 11 S - R 14 E.

James Hughes, Moundman.

, Moundman.

Subscribed and sworn to before me this 10. day of August, 1908

Francis B. Jacobs

SEAL

My commission expires September 20, 1911 Notary Public

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

SEAL

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

SEAL

6—151

Chains.

Survey commenced August 12, 1908, and executed with a W.and L.E.Gurley light mountain transit, not numbered, 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 declination arcs.

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. 2,3,34 and 35 on the S. Bdy. of the Tp., which is a stone firmly set, marked and witnessed as described by the Surveyor General; latitude 32°25' 11" N.; long. 110°53'19"W., at 5h.0m.p.m.,l.m.t., I set off 14°54'N.on the decl.arc, and 32°25'N.on the lat. arc, and determine with the solar a meridian, and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the corner.

At 10h.7m. p.m. by my watch, which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

August 12, 1908.

Aug. 13: At 7h.0m., a.m., l.m.t., I lay off the azimuth of Polaris, 1°24' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set August 12, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h.30m. a.m., l.m.t., I set off 14°42'N. on the decl. arc; 32°25'N. on the lat.arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0' 21"W. and 0'16" E. of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h.30m.a.m, is N.13°40'W.; the angle thus determined gives the mag. decl. 13°40' E.

Thence we run,N.0°1'W. bet.secs.34 and 35.
Over rough and mountainous land; descend.

1.20	Gulch, 5 lks.wide, course W.; ascend.
10.00	Summit of knoll,100 ft. high; descend.
16.00	Gulch, 25 lks.wide, course W.
18.00	Ascend.
22.00	Top of high ridge, brs. E. and W.; descend.
31.50	Gulch,20 lks.wide, course W.; ascend.
35.50	Ridge, brs. E. and W.; descend very abruptly.
37.10	East fork Canada del Oro Creek, 50 lks.wide, course SW.;
38.00	Ascend.
40.00	Set a granite stone 18x10x6 ins., 12 ins. in the ground, for ¼ sec.cor.,marked ¼ on W.face,and raise a mound of stone 4 ft.base, 2 ft.high,W.of cor. Pits impracticable.
42.00	Descend.
44.00	Gulch, 40 lks.wide, course S. 75°W.
45.00	Ascend.
76.00	Ridge, brs. E. and W.; descend.
80.00	Granite boulder in place, 24x24x36 ins. above ground for cor.of secs.26,27,34 and 35, marked with 1 notch on S. and 2 notches on E. edges,and cross (x) for exact

2. Subdivision of Township 11 South, Range 14 East.

Chains.	
	cor.point, from which,
	A palo verde, 6 ins.diam., brs. S.5¾°E., 187 lks.dist, marked T 11 S R 14 E S 35 B T.
	A mesquite, 5 ins, diam., brs. S.39½°W. 97 lks.dist., marked T 11 S R 14 E S 34 B T.
	No other trees available; raise a mound of stone 3 ft, base, 2 ft. high, W. of cor. Pits impracticable.
	Land, mountainous. Soil, 3rd rate.
	Timber, mesquite, palo verde and hackberry.
	Mountainous land, extremely difficult to survey, 80.00 chs.

	N.0°1'W., bet. secs. 26 and 27, over broken and mts. land.
	Descend over mass of large granite boulders.
6.50	Wash, 1 ch. wide, course W.
27.30	Gulch, 50 lks. wide, course SW.
40.00	Set granite stone 18x8x5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	A mesquite, 6 ins. in diam. brs. N.34¼°E., 95 lks. dist., marked ¼ S 26 B T.
	A mesquite, 6 ins. in diam., brs. N. 35°W., 115 lks. dist., marked ¼ S 27 B T.
62.75	Canada del Oro Creek 150 lks. wide, course S.30°W.
72.00	Ascend.
80.00	Set a granite stone 20x10x6 ins., 15 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edges, from which,
	A mesquite, 10 ins. diam., brs. N.45¼°E., 162 lks. dist., marked T 11 S R 14 E S 23 B T.
	A mesquite, 5 ins. diam., brs. S.87°E., 47 lks. dist., marked T 11 S R 14 E S 26 B T.
	No other trees available. Raise a mound of stone 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Wm. Sutherland's ranch house brs. S.83° E., 30 chs.
	Land, broken and rocky; soil, 3rd rate.
	Timber, mesquite and palo verde.
	Land, rough and exceptionally difficult to survey, 80.00 chs.
	August 13, 1908.

	Aug. 14: At 7h.a.m., l.m.t., we set off 32°27'N. on the lat. arc; 14°25'N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 22, 23, 26 and 27.
	Thence we run, N.0°1'W., bet. secs. 22 and 23.
	Over rolling and mountainous land.
	Ascend along E. slope of steep mountain.
7.00	Descend; mountain turns NW.
13.00	Road brs. SE. and NW.
13.80	Wash, 20 lks. wide, course SE.
15.50	Wash, 15 lks. wide, course SE. Ascend.
40.00	Set a granite stone 18x8x5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	A mesquite, 10 ins. in diam., brs. S. 34½° E., 171 lks. dist., marked ¼ S 23 B T.
	A mesquite, 12 ins. in diam., brs. N. 55°W., 230 lks. dist., marked ¼ S 22 B T,
80.00	Set a granite stone 18x18x6 ins., 12 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on S. and 2 notches on E. edges; from which
	A palo verde, 8 ins. in diam., brs. S.15½°E., 55 lks. dist., marked T 11 S R 14 E S 23 B T.
	No other trees available; dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling and mountainous. Soil, 2nd rate.
	Timber, mesquite and palo verde. Rolling and mts. land, 80 chs.

	N.0°1'W., bet. secs. 14 and 15.
	Over broken and mountainous land. Ascend.
38.00	Descend.

Subdivisions of T 11 S., R 14 E.

Chains.	
40.00	Set granite stone 16 x 12 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	A paloverde, 6 ins. in diam. brs. S. 49½° E., 38 lks. dist., marked ¼ S 14 B T.
	A paloverde, 6 ins. in diam. brs. S. 59° W., 65 lks. dist., marked ¼ S 15 B T.
42.20	Gulch 6 lks. wide, course W.
	Ascend side of gulch.
66.00	Ridge brs. SE and NW.
	Descend side of ridge into gulch.
75.00	Gulch 10 lks. wide, course W.
	Ascend side of ridge.
77.00	Top of ridge.
	Descend.
80.00	Set granite stone 18 x 10 x 5 ins., 12 ins. in the ground, for cor. of secs, 10.11.14 and 15, marked with 4 notches on S. and 2 notches on E. edges.
	Dig pits 18 x 18 x 12 ins., in each sec. 5½ ft. dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
	Land, broken, hilly and mountainous.
	Soil, 3rd rate.
	Timber, mesquite and paloverde.
	Land, broken and hilly, 30.00 chs.
	Land, mountainous and difficult to survey, 50.00 chs.

August 14, 1908.

August 15; At 7h. a.m., l.m.t., we set off 32° 29' N on the lat. arc; 14° 6' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 10. 11. 14 and 15; thence we run

	N. 0° 1' W. bet. secs. 10 and 11.
	Over broken and hilly land.
	Descend.
1.60	Gulch 10 lks. wide, course W.
	Ascend side of gulch.
22.00	Ridge brs. E. and W.
	Descend.
24.90	Wire fence brs. E. and W., 1 ch. E., brs. NE.
	Enter pasture. Valencia, owner.
35.00	Reach bottom brs. N. 20° E and S. 20° W.
40.00	Set granite stone 16 x 8 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	A willow, 5 ins. in diam. brs. N. 44½° E., 49 lks. dist., marked ¼ S 11 B T.
	A willow 6 ins. in diam. brs. N. 37° W., 76 lks. dist., marked ¼ S 10 B T.
47.80	Wash 150 lks. wide, course S. 20° W.
58.50	Wash 50 lks. wide, course S. 20° W.
70.00	Ascend.
79.75	Ascend very rocky hill.
80.00	Set granite stone 30 x 8 x 5 ins., 22 ins. in the ground, for cor. of secs. 2. 3. 10 and 11, marked with 5 notches on S. and 2 notches on E. edges, from which
	A mesquite, 6 ins. in diam. brs. S. 25° E., 35 lks. dist., marked T 11 S R 14 E S 11 B T.
	A mesquite 12 ins. in diam. brs. S. 89½° W., 329 lks. dist., marked T 11 S R 14 E S 10 B T.
	A mesquite 8 ins. in diam. brs. N. 50° W., 141 lks. dist., marked T 11 S R 14 E S 3 B T.
	No other trees available. Raise a mound of stone 4ft.

Chains.	
	base, 2ft. high, W. of cor. Pits impracticable. Land, level and hilly. Soil, 2nd rate. Timber, mesquite, paloverde and willow. Level and hilly land, 40.00 chs. Slightly mountainous land, 40.00 chs.
	N. 0° 1' W. bet. secs. 2 and 3. Over hilly and rolling land.
12.87	Wire fence, brs. N 20° E. and S. 20° W.
	Leave field.
40.00	Set a granite stone 16 x 8 x 4 ins., 12 ins in the ground, for ¼ sec. cor., marked ¼ on W. face, from which A mesquite, 8 ins. in diam., brs N 27½° E., 115 lks. dist., marked ¼ S 2 B T. A mesquite 10 ins, in diam., brs. S 43¼° W., 179 lks. dist., marked ¼ S 3 B T.
84.32	Intersect 2nd Standard Parellel South, 16,75 chs E. of the Standard cor. of the secs. 33 and 34. Set a granite stone 18 x 8 x 4 ins., 12 ins. in the ground, for closing cor. of secs. 2 and 3, marked C C on S. face, with 2 grooves on E. and 4 on W. faces, and raise a mound of stone 3ft. base, 2ft. high, S. of stone. Pits impracticable. Land rolling. Soil, 2nd rate. Timber, mesquite and paloverde. Land rolling and hilly 84.32 chs. Connecting line, 16.75 chs.
	At this cor. at 12h.5m. lmt. I set off 14°01'N. on the decl. arc and observe the sun on the meridian; the resulting latitude is 32°30'N.
	From the cor. of secs. 3. 4. 33 and 34, on S. Bdy. of Tp. which is a stone mkd. and witnessed as described by the Sur.Gen.
	N. 0° 2' W. bet. secs. 33 and 34. Over rolling and mountainous land.
1.00	Canada Del Oro Creek 50 lks. wide, flows SW.
9.00	Ascend steep rocky hill.
14.50	Ridge brs. NE and SW.
	Descend.
30.25	Gulch 20 lks. wide, course W.
	Ascend.
36.00	Ridge brs. E. and W.
	Descend.
40.00	Set granite stone 18 x 12 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face. Dig pits 18 x 18 x 12 ins. N. and S. of cor., 3ft. dist., and raise a mound of earth 3½ ft. base, 2ft. high, W. of cor.
41.75	Gulch 20 lks. wide, course SW.
	Ascend.
80.00	Set granite stone 18 x 10 x 6 ins., 12 ins. in the ground, for cor. of secs. 27.28. 33 and 34,, marked with 1 notch on S., and 3 notches on E. edges; dig pits 18 x 18 x 12 ins. in each sec.,

Subdivisions of T 11 S.? R 14 E.

Chains.	
	5½ ft dist., and raise a mound of earth 4ft. base, [illegible] 2ft. high, W. of cor.
	Land, mountainous.
	Soil, 3rd rate.
	Timber, mesquite, willow and paloverde.
	Land exceptionally difficult to survey 80.00 chs.

	E. on a random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect N. and S. line 32 lks. N. of cor. of secs. 26. 27. 34 and 35; thence we run
	N. 89°46' W. on a true line bet. secs. 27 and 34.
	Over mountainous land.
	Descend.
21.50	Canada Del Oro Creek 3chs wide, course SW.
24.00	Ascend.
25.00	Road brs. N. and S.
27.00	Ascend along S. slope of high ridge.
40.06	Set granite stone 18 x 12 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.
	Raise a mound of stone 4ft. base, 2ft. high, N. of cor. Pits impracticable.
80.12	The cor. of secs. 27. 28. 33 and 34.
	Land, mountainous.
	Soil, 3rd rate.
	Timber, mesquite and paloverde.
	Mountainous land extremely difficult to survey, 80.12 chs.

August 15, 1908.

	August 16; At 7h 15m a.m., l.m.t., we set off 32°26' On the lat. arc; 13°47' N. on the decl. arc; and determine a true meridian with the solar , at the cor. of secs. 27. 28. 33 and 34.
	Thence we run
	N. 0°2' W. bet, secs. 27 and 28.
	Over broken and mountainous land.
	Ascend steep rocky hill.
12.00	Summit of granite ridge brs. NE and SW.
	Descend.
17.50	Gulch 10 lks, wide, course W.
	Ascend.
21.75	Ridge brs. E. and W.
	Descend.
35.00	Gulch 15 lks. wide, course S. 60°W.
	Ascend.
40.00	Set granite stone 18 x 12 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face.
	Raise a mound of stone 4ft. base, 2ft. high, W. of cor. Pits impracticable.
46.00	Ridge brs. NE and SW.
	Descend.
80.00	Set granite stone 18 x 10 x 5 ins., 12 ins. in the ground, for cor. of secs. 21. 22. 27 and 28, marked with 2 notches on S. and 3 notches on E. edges, and raise a mound of stone 4ft. base, 2ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, 3rd rate.
	Timber, Mesquite and paloverde.
	Mountainous land extremely difficult to survey, 80.00 chs.

Chains.	
	S. 89°46' E. on a random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line at 26 lks. S. of cor.of secs. 22. 23. 26 and 27.
	Thence we run
	N. 89°57' W. on a true line bet. secs. 22 and 27.
	Over very mountainous land.
	Ascend.
18.00	Ridge brs. NE and SW.
	Descend.
22.50	Wash 20 lks. wide, course SW.
	Ascend.
40.05	Set granite stone 20 x 15 x 5 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, from which
	A mesquite,,8 ins. in diam. brs. N. 63½° E., 152 lks. dist., marked ¼ S 22 B T.
	A mesquite, 8ins. in diam. brs. S. 35½° E., 233 lks. dist., marked ¼ S 27 B T.
71.00	Ridge brs. N. and S.
	Descend very steep hill.
80.10	The cor. of secs. 21. 22. 27 and 28.
	Land, mountainous.
	Soil, 3rd rate.
	Timber, mesquite and paloverde.
	Mountainous land extremely difficult to survey,80.10chs.
	At this cor. at 12h.5m.1mt. I set off 13°42'N. on the decl. arc andobserve the sun on the meridian; the resulting latitude is 32° 27'N.
	N. 0°2' W. bet. secs. 21 and 22.
	Over broken and mountainous land.
	Descend.
5.00	Descend steep rocky bank.
12.50	Wash 60 lks. wide, course SW.
21.00	Bottom brs. NE and SW.
22.00	Wash 30 lks. wide, course S. 30° W.
23.30	Wash 75 lks. wide, course SW.
30.75	Road brs. NE and SW.
33.00	Leave bottom.
	Ascend.
40.00	Set granite stone 18 x 8 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	A mesquite, 8 ins. in diam. brs. S. 69° E., 36 lks. dist., marked ¼ S 22 B T.
	A mesquite, 6 ins. in diam. brs. N. 34° W., 91 lks. dist., marked ¼ S 21 B T.
60.00	Ridge brs. NE and SW.
80.00	Set granite stone 18 x 12 x 6 ins., 12 ins. in the ground, for cor. of secs. 15. 16. 21 and 22, marked with 3 notches on S. and E. edges, from which
	A mesquite, 8 ins. in diam. brs. N. 72½° E., 270 lks. dist., marked T 11 S R 14 E S 15 B T.
	A mesquite, 6 ins. in diam. brs. S. 56½° E., 114 lks. dist., marked T 11 S R 14 E S 22 B T.
	A mesquite, 8 ins. in diam. brs. S. 16½° W., 193 lks. dist., marked T 11 S R 14 E S 21 B T.
	A mesquite 10 ins. in diam. brs. N. 34½° W., 177 lks. dist., marked T 11 S R 14 E S 16 B T.
	Land, Level, hilly and mountainous.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Land, level and hilly, 15.70 chs.
	Mountainous land, 64.30 chs.

Chains.	
	S. 89° 57' E. on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line 12 lks. S. of cor. of secs. 14. 15. 22 and 23.
	Thence we run
	S. 89° 58' W. on a true line bet. secs 15 and 22.
	Over level and hilly land.
2.00	Ascend.
12.00	Ridge brs. N. and S.
	Descend.
36.00	Bottom.
36.50	Wash 2 chs. wide, course S. 15° W.
37.97	Wire fence brs. N. and S.
	Enter field.
39.97	Set granite stone 16 x 16 x 4 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.
	Dig pits 18 x 18 x 12 ins., E. and W. of cor. 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, N. of cor.
52.35	Wire fence brs. N. and S.
	House occupied by a Mexican brs. S. 4 chs. Name Elias.
	Cultivated land N. of line.
	Ascend.
63.00	Top of flat ridge.
67.20	Road brs. SE and NW. descend.
79.94	The cor. of secs. 15. 16 . 21 and 22.
	Land, level and hilly.
	Soil, 2nd rate.
	Timber, Mesquite and paloverde.
	Mountainous land 56.80 chs.
	Level and hilly, 23.14 chs.

August 16, 1908.

August 17; At 7h a.m., l.m.t., we set off 32° 28' N on the lat. arc; 13° 28' N. on the decl; arc; and determine a true meridian with the solar, at the cor. of secs. 15, 16. 21 and 22.

Thence we run

N. 0° 2' W. bet. secs. 15 and 16.

Over level land.

7.90	Road brs. E. and W.
40.00	Set post 3ft. long, 4 ins. in diam., 24 ins. in the ground, for ¼ sec. cor., marked ¼ S 16 on W. and 15 on E. faces; from which
	A mesquite, 16 ins. in diam. brs. N. 86° E., 17 lks. dist., marked ¼ S 15 B T.
	A mesquite, 12 ins. in diam. brs. N. 8° W., 133 lks. dist., marked ¼ S 16 B T.
80.00	Set granite 18 x 10 x 4 ins., 12 ins. in the ground, for cor. of secs. 9. 10. 15 and 16, marked with 4 notches on S., and 3 notches on E. edges, from which
	A mesquite, 16 ins. in diam. brs. N. 22½° E., 366 lks. dist., marked T 11 S R 14 E S 10 B T.
	No other trees available. Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
	Land, level.
	Soil, 2nd rate.
	Timber, mesquite, very scattering.
	Level land, 80.00 chs.

Subdivisions of T 11 S.; R 14 E.

Chains.

N. 89°58' E. on a random line bet. secs. 10 and 15.
40.00 Set temp. ¼ sec. cor.
79.90 Intersect N. and S. line 5 lks. S. of cor. of secs. 10. 11. 15 and 16.
Thence we run
S. 89°56' W. on a true line bet. secs. 10 and 15.
Over broken and level land,
Descend.
16.00 Bottom brs. N 20° E. and S. 20° W.
Stock corral, well and tent house, brs. N., 4. 5 and 7 chs. respectively.
29.75 Wash 150 lks. wide, course S. 20° W.
35.00 Ascend.
38.00 Ridge brs. N. and S.
39.95 Set granite stone 18 x 6 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.
Dig pits 18 x 18 x 12 ins., E. and W. of cor. 3ft. dist., and raise a mound of earth, 4ft. base, 2ft. high, N. of cor.
52.00 Ridge brs. N. and S.
79.90 The cor. of secs. 9. 10. 15 and 16.
Land, hilly and level.
Soil, 2nd rate.
Timber, mesquite and paloverde.
Level land, 19.00 chs.
Hilly and mountainous land, 60.90 chs.

N. 0° 2' W. bet. secs. 9 and 10.
Over rolling land.
44.50 Telephone line, Tucson to Oracle, brs. N 25° E and S. 25° W.
46.75 Road brs. NE and SW. over rolling land.
40.00 Set a post 3ft. long, 4 ins. in diam., 24 ins. in the ground, with marked stone, for ¼ sec. cor., marked ¼ S 9 On W., and 10 on E.; dig pits 18 x 18 x 12 ins., N. and S. of cor. 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.,
80.00 Set granite stone 18 x 6 x 5 ins., 12 ins. in the ground, for cor. of secs, 3. 4. 9 and 10, marked with 5 notches on S. and 3 notches on E. edges.
from which
A mesquite, 10 ins. in diam. brs. N. 81° E., 145 lks. dist., marked T 11 S R 14 E S 3 B T.
A mesquite, 6 ins. in diam. brs. S. 14½° E., 121 lks. dist., marked T 11 S R 14 E S 10 B T.
A mesquite, 5 ins. in diam. brs. S. 11° W., 176 lks. dist., marked T 11 S R 14 E S 9 B T.
No other trees available. Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft. dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
Land, rolling.
Soil, 2nd rate.
Timber, scattering mesquite.
Land, rolling, 80.00 chs.

August 17, 1908.

Chains.	
	August 18; At 7h 15m a.m.,l.m.t., we set off 32°30'N on the lat. arc; 13°9' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 3. 4. 9 and 10.
	Thence we run
	N. 89°56' E. on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
79.86	Intersect N. and S. line 12 lks. S. of cor. of secs. 2. 3. 10 and 11.
	Thence we run
	S. 89°51' W. on a true line bet. secs. 3 and 10.
	Over broken and mountainous land.
	Descend.
20	Bottom.
4.00	Ascend.
6.22	Wire fence brs. N. 15° E., and S. 15° W.
12.00	Ascend steeper.
13.00	Ridge brs. SE and NW.
	Descend.
17.20	Gulch, course SE.
	Ascend.
20.15	Ridge brs. SE and NW.
	Descend.
21.40	Gulch 10 lks. wide, course SE.
	Ascend.
24.00	Ridge brs. SE and NW.
	Descend.
25.20	Gulch 20 lks. wide, course SE.
	Ascend.
34.00	Ridge brs. SE and NW.
39.93	Set granite stone 16 x 8 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face. from which
	A mesquite, 8 ins. in diam. brs. S. 73½° W., 130 lks. dist., marked ¼ S 10 B T.
	A mesquite, 6 ins. in diam. brs. N. 49° W., 38 lks. dist., marked ¼ S 3 B T.
55.85	Road brs, N. 30° E. and S. 30° W.
56.00	Telephone line, Tucson to Oracle brs. N. and S.
79.86	The cor. of secs 3. 4. 9.and 10.
	Land, broken and mountainous.
	Soil, 3rd rate.
	Timber, mesquite and paloverde.
	Land broken and mountainous, 79.86 chs.

	N. 0°2' W. bet. secs. 3 and 4.
	Over rolling land.
22.00	Descend.
33.50	Wash, 30 lks. wide, course S. 20° W.
40.00	Set granite stone 20x 18 x 6 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face.; from which
	A mesquite, 5ins. in diam. brs. S. 73° E.,, 42 lks. dist., marked ¼ S 3 B T.
	A mesquite, 5 ins. in diam., brs. S. 53¼° W., 41 lks. dist., marked ¼ S 4 B T.
83.30	Intersect 2nd Standard Parallel South 17.60 chs. N.89° 40'E. of Stand. cor. of secs. 32 and 33.
	Set granite stone 18 x 14 x 8 ins., 12 ins. in the ground, for closing cor, of secs. 3 and 4, marked C C on S. face, with 3 grooves on E. and W. faces, from which

Subdivisions of T 11 S., R 14 E.

Chains.

A mesquite 8 ins. in diam., brs. S 1½°W., 110 lks. dist., marked T 11 S R 14 E S 4 B T.
Dig pits 18 x 18 x 12 ins., 5 ft. E and W. and 7 ft. S., and raise a mound of earth andstone 5ft. base, 2ft. high, S. of cor. No other trees available.
Land, rolling.
Soil, 2nd rate.
Timber, mesquite.
Rolling land 83.30 chs.
Connecting line, mountainous land 17.60 chs.

From the cor. of secs. 4. 5. 32 and 33, on the S. bdy. of the Tp. marked and witnessed as described by the Sur, Genl.
Thence we run
N. 0°2' W. bet. secs. 32 and 33.
Over level and mountainous land, covered with under - growth.

1.50 Enter wash, course S. 10°E.
17.25 Leave wash, course S. 10°E.
24.00 Wash 30 lks. wide, course S. 20°E.
32.45 Wire fence brs. S. 60°E.; 3 chs. W. fence turns SW.
Leave pasture.
33.00 Road brs. E and W.
34.00 Leave bottom, ascend steep hill.
40.00 Ridge brs. N. and S.
Set granite stone 20 x 8 x 6 ins., 12 ins. in the ground, for ¼sec. cor., marked ¼ on W. face.
Dig pits 18 x 18 x 12 ins., N. and S. of cor., 3ft. dist., and raise a mound of earth and stone, 4ft. base, 2ft. high, W. of cor.
47.75 Descend very steep ridge, turns NE.
51.00 Enter bottom brs. N 30°E.
79.15 Wash 30 lks. wide, course S. 30°W.
80.00 Set granite stone 16 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 28. 29. 32 and 33, marked with 1 notch on S., and4 notches on E. edges; from which
An ironwood, 12 ins. in diam. brs. N. 8°E., 9 lks. dist., marked T 11 S R 14 E S 28 B T.
A mesquite, 16 ins. in diam. brs. S. 66½°E., 77 lks. dist., marked T 11 S R 14 E S 33 B T.
A mesquite, 12 ins. in diam. brs. S. 28½°W., 165 lks. dist., marked T 11 S R 14 E S 32 B T.
An ironwood, 10 ins. in diam. brs. N. 36°W., 31lks. dist., marked T 11 S R 14 E S 29 B T.
Land, level and mountainous.
Soil, 1st and 2nd rate.
Timber, mesquite, willow and ironwood.
Level land, 29.00 chs.
Mountainous land, covered with dense undergrowth, extremely difficult to survey, 51.00 chs.

E. on a random line bet. secs. 28 and 33.
40.00 Set temp. ¼ sec. cor.
80.06 Intersect N. and S. line at 8 lks. S. of cor. of secs. 27. 28. 33 and 34,; thence we run
S. 89°57' W. on a true line bet. secs. 28 and 33.
Over mountainous land.
Ascend.

Subdivisions of T 11 S., R 14 E.

Chains.	
36.00	Summit of high granite ridge brs. NE and SW.
	Descend.
39.00	Gulch 20 lks. wide, course S. 20° W.
	Ascend.
40.03	Set granite stone 18 x 10 x 8 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 4ft. base, 2ft. high, N. of cor. Pits impracticable.
53.00	High ridge brs. N. 20° E and S. 20° W.
	Descend.
71.00	Bottom.
79.00	Wash 60 lks. wide, course S.
80.06	The cor. of secs. 28. 29. 32 and 33.
	Land, mountainous.
	Soil, 3rd rate.
	Timber, mesquite and paloverde.
	Mountainous land, extremely difficult to survey, 80.06 chs.

N. 0° 2' W. bet. secs. 28 and 29.
Over level and hilly land.

.40	Enter wash, course S. 20° W.
3.20	Leave wash, course S. 20° W.
10.50	Road brs. NE and SW.
12.85	Wire fence brs. S. 60° E. and N. 60° W.
	Enter pasture. R. Griego. owner.
23.75	Wire fence brs. NE and SW.
	Leave pasture.
	Ascend.
40.00	Set granite stone 16 x 8 x 8 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face.
	Dig pits 18 x 18 x 12 ins., N. and S. of cor., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
47.50	Ridge brs. NE and SW.
68.00	Descend.
77.85	Wash 50 lks. wide, course S. 30° W.
78.50	Ascend.
80.00	Set granite stone 26 x 10 x 8 ins., 20 ins. in the ground, for cor. of secs. 20. 21. 28 and 29, marked with 2 notches on S. and 4 notches on E. edges; from which
	A paloverde, 6 ins. in diam. brs. N. 37° E., 163 lks. dist., marked T 11 S R 14 E S 21 B T.
	A paloverde, 5 ins. in diam. brs. S. 50½° E., 30 lks. dist., marked T 11 S R 14 E S 28 B T.
	A paloverde, 10 ins. in diam. brs. S. 35½° W., 295 lks. dist., marked T 11 S R 14 E S 29 B T.
	No other trees available. Dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth and stone 5ft. base, 2ft. high, W. of cor.
	Land, level and hilly.
	Soil, 1st and 2nd rate.
	Timber, mesquite and paloverde.
	Hilly and level land, 80.00 chs.

August 18, 1908.

Subdivisions of T 11 S., R 14 E.

Chains	
	August 19; At 9h a.m., 1m.t., we set off 32° 27' N on the lat. arc; 12° 47' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 20. 21. 28 and 29.
	Thence we run
	N. 89° 57' E. on a random line bet. secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 7 lks. N. of cor. of secs. 21. 22. 27 and 28; thence we run
	W. on a true line bet. secs. 21 and 28.
	Over level and hilly land.
	Descend.
1.50	Wash 40 lks. wide, course SW.
2.00	Ascend.
7.50	Top of ridge brs. NE and SW.
26.00	Descend.
~~40.00~~	Set granite stone 16 x 6 x 4 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, from which
	A mesquite, 8 ins. in diam. brs. N. 40¼° E., 50 lks. dist., marked ¼ S 21 B T.
	An ironwood, 5 ins. in diam. brs. S 38½° W., 30 lks. dist., marked ¼ S 28 B T.
41.00	Bottom brs. NE and SW.
44.00	Wash 50 lks. wide, course SW.
45.50	Wash 50 lks. wide, course SW.
47.00	Wash 50 lks. wide, course SW.
55.50	Wash 50 lks. wide, course SW.
56.20	Road brs. NE and SW.
68.00	Wash 60 lks. wide, course S. 30° W.
79.90	The cor. of secs. 20. 21. 28 and 29.
	Land, level.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Level and hilly land, 79.90 chs.

	N. 0° 2' W. bet. secs. 20 and 21.
	Through dense cacti.
2.00	Ascend.
40.00	Set granite stone 18 x 6 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face.
	Dig pits 18 x 18 x12 ins., N. and S. of cor. 3ft. dist., and raise a mound of earth and stone 4ft. base, 2ft. high, W. of cor.
51.00	Road, Tucson to Oracle brs. NE and SW.
	Ridge brs. NE and SW.
55.70	Telephone line Tucson to Oracle brs. N. 20° E., and S. 20 W.
78.20	Gulch 15 lks. wide, course SW.
	Ascend.
79.75	Ridge brs. NE and SW.
80.00	Set granite stone 16 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs, 16. 17. 20 and 21, from which
	A paloverde, 6 ins. in diam. brs. N. 66½° E., 111 lks. dist., marked T 11 S R 14 E S 16 B T.
	A paloverde, 8 ins. in diam. brs. S. 60° E., 26 lks. dist., marked T 11 S R 14 E S 21 B T.
	No other trees available. Raise a mound of stone 5ft. base, 2ft. high, W. of cor.
	Pits impracticable.
	Land, rolling.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Land broken and densely covered with cacti; exceptionally difficult to survey, 80.00 chs.

Chains.	
	E. on a random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 8 lks. S. of cor. of secs. 15. 16. 21 and 22.
	Thence we run
	S. 89° 57' W. on a true line bet. secs. 16 and 21.
	Over rolling land covered with dense undergrowth.
39.95	Set granite stone 18 x 10 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.
	Dig pits 18 x 18 x 12 ins. E. and W. of cor., 3ft. dist., and raise a mound of earth and stone 4ft. base, 2ft. high, N. of cor.
52.00	Wash 20 lks. wide, course SE.
78.80	Road and Telephone Line, Tucson to Oracle, N. and S.
79.90	The cor. of secs. 16. 17. 20 and 21.
	Land, rolling.
	Soil, 3rd rate.
	No timber.
	Land covered with dense undergrowth, 79.90 chs.

	N. 0° 2' W. bet. secs. 16 and 17.
	Over land much broken.
	Descend.
3.50	Gulch 5 lks. wide, course SW.
10.00	Ascend.
13.00	Ridge brs. NE and SW.
	Descend.
17.10	Gulch 5 lks. wide, course W.
	Ascend.
17.90	Ridge brs, E and W.
	Descend.
18.80	Gulch 5 lks. wide, course W.
	Ascend.
22.15	Ridge brs. E. and W.
	Descend.
23.50	Gulch 20 lks. wide, course S. 20° W.
35. 50	Descend.
40.00	Bottom of hill.
	Set granite stone 16 x 6 x 5 ins., 10 ins. in the ground. for ¼ sec. cor., marked ¼ on W. face, from which
	A mesquite, 10 ins. in diam. brs. S. 40½° W., 236 lks. dist., marked ¼ S 17 B T. No other trees available. Dig pits 18 x 18 x 12 ins., N. and S. of cor., 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
48.00	Wash 20 lks. wide, course SW.
60.00	Ascend.
80.00	Set granite stone 18 x 8 x 3 ins., 12 ins. in the ground, for cor. of secs. 8. 9. 16 and 17, marked with 4 notches on S. and E. edges; from which
	A mesquite, 12 ins. in diam. brs. S. 56° W., 292 lks. dist., marked T 11 S R 14 E S 17 B T.
	A mesquite, 5 ins. in diam. brs. N. 4¼° W., 190 lks. dist. marked T 11 S R 14 E S 8 B T. No other trees.
	Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft. dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
	Land, broken.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Broken land, difficult to survey, 80.00 chs.

August 19, 1908.

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BOOK 2139

Subdivisions of T 11 S., R 14 E.

Chains	
	August 20; At 7h 15m.a.m.,l.m.t., we set off 32°29'N on the lat. arc; 12°30'N. on the decl. arc; and determine a true meridiam with the solar, at the cor. of secs. 8. 9. 16 and 17; thence we run
	N. 89°57' E. on a random line bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line at 14 lks. S. of cor. of secs. 9. 10. 15 and 16.
	Thence we run
	S. 89°51' W. on a true line bet. secs. 9 and 16.
	Over rolling land, covered with scattering mesquite.
16 20	Wash 10 lks. wide, 6 ft. deep, course S.
	Ascend.
27.20	Telephine line, Tucson to Oracle brs. N. and S.
29.00	Ridge brs. N. and S.
	Descend.
39.50	Old road brs. N. and S.
40.02	Set granite stone 14 x 6 x 4 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.
	Dig pits 18 x 18 x 12 ins., E. and W. of cor., 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, N. of cor.
47.20	Road, Tucson to Oracle brs. N. and S.
	Descend.
80.04	The cor. of secs. 8. 9. 16 and 17.
	Land, rolling.
	Soil, 2nd rate.
	Timber, scattering mesquite.
	Broken and rolling land, 80.04 chs.

	N. 0°2' W. bet. secs 8 and 9.
	Over rolling land.
36.00	Descend.
40.00	Set granite stone 16 x 8 x 8 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face.
	Dig pits 18 x 18 x 12 ins.,N. and S. of cor., 3ft. dist., and raise a mound of earth and stone 4ft. base, 2ft. high, W. of cor.ascend.
40.50	Wash 20 lks, wide course SW.
60.00	Descend..
65.40	Gulch 10 lks. wide, course SW.
	Ascend.
69.00	Top of flat ridge brs. N. and S.
80.00	Set granite stone 20 x 10 x 8 ins., 15 ins. in the groung, for cor. of secs. 4. 5. 8.and 9, marked with 5 notches on S. and 4 notches on E. edges, from which
	A mesquite, 6ins in diam. brs. N. 82½°E., 209 lks. dist., marked T 11 S R 14 E S 4 B T.
	A mesquite, 5 ins. in diam. brs. S. 43½°E., 371 lks. dist., marked T 11 S R 14 E S 9 B T.
	A mesquite, 6 ins. in diam. brs. S. 32½°W., 403 lks. dist., marked T 11 S R 14 E S 8 B T.
	No other trees available. Dig pits 18 x 18 x 12 ins. in each sec. ,5ft.dist. and raise a mound of earth 4ft., base. 2ft. high, W. of cor.
	Land, rolling.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Rolling land, 80.00 chs.

Chains.	
	N. 89° 51' E. on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
79.54	Intersect N. and S. line 36 lks. N. of cor. of secs. 3. 4. 9 and 10; thence we run
	N. 89° 54' W. on a true line bet. secs. 4 and 9.
	Over rolling land.
5.00	Ascend.
16.50	Ridge brs. N. and S.
	Descend.
34.75	Wash 40 lks. wide, course S. 20° W.
38.77	Set granite stone 16 x 8 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A mesquite, 6 ins. in diam. brs. N. 33½° E., 68 lks. dist., marked ¼ S 4 B T. No other trees available.
	Dig pits 18 x 18 x 12 ins., E. and W. of cor., 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, N. of cor.
55.00	Wash 25 lks. wide, course S. 20° E.
62.50	Road, Tucson to Oracle and Mammoth brs. N. and S.
79.54	The cor. of secs. 4. 5. 8 and 9.
	Land, rolling.
	Soil, 3rd rate.
	Timber, mesquite, very scattering.
	Rolling land. 79.54 chs.

	N. 0° 2' W. bet. secs. 4 and 5.
	Over very broken land. heavily rolling.
35.00	Descend.
37.70	Gulch 10 lks. wide, course W.
	Ascend.
40.00	Reach top.
	Set granite stone 18 x 8 x 6 ins., 12 ins. in the ground, for ¼ sec. cor. marked ¼ on W. face,
	Dig pits 18 x 18 x 12 ins., N. and S. of cor., 3ft. dist., and raise a mound of earth and stone, 4ft. base, 2ft. high, W. of cor.
44.50	Descend.
46.00	Along steep E. bank of big wash.
55.50	Bottom brs. N 5° E and S. 5° W.
58.00	Ascend, bottom brs. N 10° W.
61.50	Top of bank, brs. N. 10° W.
72.00	Descend.
77.00	Bottom.
83.21	Intersect 2nd Standard Parellel South, at 18.97 chs. E. of Standard cor. of secs. 31 and 32.
	Set granite stone 20 x 10 x 8 ins., 15 ins. in the ground, for C.C. of secs. 4 and 5, marked C.C. on S. side, with 4 grooves on E. and 2 grooves on W. face.
	Dig pits 18 x 18 x 12 ins., 5½ ft. dist. E. and W. and 7 ft. S., and raise a mound of earth and stone, 5 ft. base, 2ft. high. S. of cor.
	Land broken.
	Soil, 3rd rate.
	Timber, mesquite and paloverde.
	Extremely difficult to survey, 83.21 chs.
	Connecting line, 18.97 chs.

August 20, 1908.

Subdivisions of T 11 S., R 14 E.

Chains.	
	August 21; At 7h a.m., l.m.t., we set off 32°25'N on the lat. arc; 12°10' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 5. 6. 31 and 32, on the S. bdy. of the Tp., which is a stone firmly set, marked and witnessed as described by the surveyor general.
	Thence we run
	N. 0°3' W. bet. secs. 31 and 32.
	Over rolling and hilly land.
.30	Wire fence brs. E. and W.; 4 lks. W. a wire fence brs. N. 1°W. **Enter field. B. Buzini, owner.**
20.00	Wire fence brs. E. and W. ascend.
40.00	Set granite stone 20 x 12 x 8 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face.
	Dig pits 18 x 18 x 12 ins., N. and S. of cor., 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
66.00	Ridge brs. E. and W.
	Descend.
68.10	Gulch 5 lks. wide, course W.
	Ascend abruptly.
70.25	Top of ascent.
79.00	Descend.
80.00	Set granite stone 16 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 29. 30. 31 and 32, marked with 1 notch on S., and 5 notches on E. edges.
	Raise a mound of stone 6ft. base, 2ft. high, W. of cor. Pits impracticable.
	Land, rolling and hilly.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Rolling and hilly land, 25.00 chs.
	Land covered with dense undergrowth, 55.00 chs.

	E. on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
79.56	Intersect N. and S. line at 32 lks. N. of cor. of secs. 28. 29. 32 and 33.
	Thence we run
	N. 89°46' W. on a true line bet. secs. 29 and 32.
	Over broken land.
.75	Enter Wash, course S. 20°W.
3.10	Leave wash, course S. 20°W.
11.56	Road brs. N. and S.
20.00	Bottom brs. NE and SW.
	Ascend.
27.00	Telephone line, Tucson to Oracle brs. N. and S.
30.00	Ridge brs, N. and S.
	Descend.
30.20	Road brs. N. and S.
36.20	Gulch 10 lks. wide, course S.
39.78	Set granite stone 18 x 10 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.
	Dig pits 18 x 18 x 12 ins., E. and W. of cor., 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, N. of cor.
	Ascend.
41.00	Ridge brs. N. and S.
	Descend.
42.40	Wash 20 lks. wide, course S.
	Ascend.
57.00	Ridge and road, Tucson to Oracle brs. N. and S.
	Descend.

Chains.	
66.10	Gulch 30 lks. wide, course S.
	Ascend.
76.00	Ridge brs. N. and S.
	Descend.
79.56	The cor. of secs. 29. 30. 31 and 32.
	Land, broken.
	Soil, 3rd. rate.
	Timber, maesqite and paloverde.
	Broken and mountainous land, 79.56 chs.

	W. on a random line bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.
79.40	Intersect W. bdy. 23 lks. S. of cor. of secs. 25. 30. 31 and 36.
	Thence we run
	S. 89°.50 on a true line bet. secs. 30 and 31.
	Over land covered with dense undergrowth.
	Descend steep ridge.
31.40	Main wash 2 chs. wide, course S. 20° E.
39.40	Set granite stone 18 x 10 x 6 ins., 12 ins in the ground, for ¼ sec. cor., marked ¼ on N. face.
	Dig pits 18 x 18 x 12 ins., E. and W. of cor. 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, N. of cor.
44.40	Wash 1 ch. wide, course S.
57.00	Wash 50 lks. wide, course S. 30° W.
59.90	Wash 20 lks. wide, course S. 30° W.
65.20	Wash 25 lks. wide, course S. 30° W.
67.00	Leave bottom brs. SE and NW.
	Ascend along south side of gulch.
79.40	The cor. of secs. 29. 30. 31 and 32.
	Land level and hilly.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Land covered with dense undergrowth, 79.40 chs.

	N. 0° 3' W. bet. secs. 29 and 30.
	Over mountainous land.
.05.	Gulch 2 lks. wide, course W.
	Ascend.
1.15	Ridge brs. E. and W.
	Descend.
2.10	Gulch 5 lks. wide, course S. 75° W.
	Ascend.
3.80	Ridge brs. E. and W.
6.25	Gulch 10 lks. wide, course S. 75° W.
	Ascend.
17.00	Ridge brs. E. and W.
	Descend.
22.00	Enter bottom brs. N. 20° E. and S. 20° W.
40.00	Set granite stone 18 x 18 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face. from which
	An ironwood, 8 ins. in diam. brs. N. 34½° E., 124 lks. dist., marked ¼ S 29 B T.
	An ironwood, 8 ins. in diam. brs. N. 74° W., 150 lks. dist., marked ¼ S 30 B T.
	Raise a mound of stone 4ft. base, 2ft. high, W. of cor.
46.80	Wash 40 lks. wide, course S. 20° W.
58.00	Enter wash, course S. 20° W.
60.20	Leave wash, course S. 20° W. ascend.
80.00	Set granite stone 16 x 10 x 6 ins., 12 ins in the

Chains.	
	ground, for cor. of secs. 19. 20. 29 and 30, marked with 2 notches on S., and 5 notches on E. edge, from which
	A mesquite, 10 ins. in diam. brs, N. 71½°E., 266 lks. dist., marked T11 S R 14 E S 20 B T. No other trees available.
	Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft. dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
	Land, broken.
	Soil, 3rd rate.
	Timber, mesquite and paloverde.
	Mountainous land covered with dense undergrowth 80.00 chs.
	August 21,1908.
	August 22; At 7h 15m.a.m.,l.m.t., we set off 32°27'N on the lat. arc; 11°50' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 19. 20. 29 and 30; thence we run
	S. 89°46' E. on a random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
79.68	Intersect N. and S. line at the cor. of secs. 20. 21. 28 and 29.
	Thence we run
	N. 89°46' W. on a true line bet. secs. 20 and 29.
	Over broken and mountainous land.
3.00	Ascend.
7.50	Ridge brs, SE and NW.
	Descend.
11.50	Wash 25 lks. wide, course SE.
13,00	Ascend.
16.15	Telephone line, Tucson to Oracle brs. N. and S.
20.00	Flat ridge brs. N. and S.
32.75	Road, Tucson to Oracle and Mammoth brs. NE and SW.
38.60	Descend very abruptly.
39.84	Set granite stone 16 x 10 x 8 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.
	Dig pits 18 x 18 x 12 ins., E. and W. of cor., 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, N. of cor.
41.10	Bluff 30 ft. high.
	Descend.
41.25	Enter wash, course SW.
43.60	Leave wash, course SW.
67.00	Wash 50 lks. wide, course S. ascend.
79.68	The cor. of secs. 19. 20. 29 and 30.
	Land, broken.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Broken and mountainous land, 79.68 chs.
	N. 89°50' W. on a random line bet, secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
79.55	Intersect W. bdy.9 lks. S. of cor. of secs. 19. 24. 25 and 30.
	Thence we run
	S. 89°46' E. on a true line bet. secs. 19 and 30.
	Over broken and mountainous land, covered with dense undergrowth.
7.55	Ascend.

Chains.	
11.30	Ridge brs. N. and S.
	Descend.
15.25	Road brs. N. and S.
19.15	Gulch 40 lks. wide, course S.
	Ascend.
26.25	Ridge brs. SE and NW.
	Descend.
32.00	Gulch 20 lks. wide, course SE.
	Ascend.
37.50	Ridge brs. SE and NW.
39.55	Set limestone 18 x 12 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, from which
	A paloverde, 6 ins. in diam. brs. N. 83¾°E., 113 lks. dist., marked ¼ S 19 B T.; No other trees available.
	Dig pits 18 x 18 x12 ins., E. and W. of cor., 3ft. dist., and raise a mound of earth, 4ft. base, 2ft. high, N. of cor.
42.20	Gulch 15 lks. wide, course S. 30° E.
	Ascend.
50.30	Ridge brs. SE and NW.
	Descend.
55.00	Gulch 10 lks. wide, course SE.
	Ascend.
59.00	Ridge brs. SE and NW.
	Descend steep ridge.
68.30	Wash 25 lks. widw, course SE.
79.55	The cor. of secs. 19. 20. 29 and 30.
	Land, broken and mountainous.
	Soil, 3rd rate.
	Timber, mesquite and paloverde.
	Broken and mountainous land, covered with dense undergrowth, 79.55 chs.

	N. 0°3' W. bet. secs. 19 and 20.
	Over broken land.
11.00	Wash 15 lks. wide, course SE.
14.50	Wash 40 lks. wide, course S. 30°E.
24.00	Ascend.
40.00	Set granite stone 18 x 10 x 8 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face.
	Dig pits 18 x 18 x 12 ins., N. and S. of cor., 3ft. dist., and raise a mound of earth and stone 4ft. base, 2ft. high, W. of cor.
48.00	Descend,
57.50	Wash 20 lks. wide, course S. 30°E.
61.00	Ascend.
80.00	Set granite stone 18 x 14 x 10 ins., 12 ins. in the ground, for cor. of secs. 17. 18. 19.and 20, marked with 3 notches on S. and 5 notches on E. edges; from which
	A paloverde, 6ins. in diam. brs. S. 11¾°E., 194 lks. dist., marked T 11 S R 14 E S 20 B T.
	A mesquite, 5 ins. in diam. brs. N. 73½°W., 133 lks. dist., marked T 11 S R 14 E S 18 B T.
	No other trees available.,
	Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
	Land, broken.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Broken and mountainous land. 80.00 chs.

August 22, 1908

Subdivisions of T 11 S., R 14 E.

Chains.	
	August 23; At 7h a.m., l.m.t., we set off 32°28' N on the lat. arc; 11°30' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 17. 18. 19 and 20; thence we run
	S. 89°46' E. on a random line bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
79.60	Intersect the N. and S. line 12 lks. S. of the cor. of secs. 16. 17. 20 and 21.
	Thence we run
	N. 89°51' W. on a true line bet. secs. 17 and 20.
	Over broken land.
	Descend.
3.20	Gulch 10 lks. wide, course SW.
7.50	Ridge brs. NE and SW.
	Descend.
11.00	Bottom.
16.00	Wash 30 lks. wide, course SW.
25.20	Wash 1 ch. wide, course S. 30° W.
27.25	Wash 30 lks. wide, course S. 30° W.
38.30	Wash 2 chs. wide, course S. 15° W.
39.20	Road brs. N. and S.
39.80	Set granite stone 20 x 10 x 6 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face,
	Dig pits 18 x 18 x 12 ins., E. and W. of cor., 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, N. of cor.
40.20	Top of bluff.
52.00	Ridge brs. SE and NW.
	Descend.
59.20	Gulch 20 lks. wide, course SE.
	Ascend.
79.60	The cor. of secs. 17. 18. 19 and 20.
	Land, broken.
	Soil, 3rd rate.
	Timber, mesquite and paloverde,
	Land broken, 79.60 chs.

	N. 89°46' W. on a random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
79.68	Intersect W. bdy. 12 lks. N. of cor. of secs. 13. 18. 19 and 24.
	Thence we run
	S 89°51' E. on a true line bet. secs. 18 and 19.
	Over broken land.
	Descend.
36.50	Ascend.
39.68	Set granite stone 16 x 8 x 5 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.
	Dig pits 18 x 18 x 12 ins., E. and W. of cor., 3ft. dist., and raise a mound of earth, 4ft. base, 2ft. high, N. of cor.
42.75	Ridge brs. SE and NW.
	Descend,
50.20	Gulch 10 lks. wide, course SE.
	Ascend.
67.60	Ridge brs. SE and NW.
	Descend.
74.20	Wash 20 lks. wide, course S.
79.68	The cor. of secs. 17. 18. 19 and 20.
	Land, broken.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Broken land, 79.68 chs.

Chains.	
	N. 0° 3' W bet. secs. 17 and 18.
	Over broken land.
	Ascend.
9.00	Ridge brs. SE and NW.
	Descend,
27.80	Gulch 10 lks. wide, course SE.
	Ascend.
40.00	Set granite stone 18 x 8 x 6ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A mesquite, 8 ins. in diam. brs. N. 17° W., 177 lks. dist., marked ¼ S 18 B T. No other trees available.
	Dig pits 18 x 18 x 12 ins. N. and S. of cor., 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
	Descend,
43.50	Gulch 20 lks. wide, course SE.
	Ascend.
52.00	Ridge brs. SE and NW.
	Descend.
63.20	Gulch 10 lks. wide, course SE.
	Ascend.
80.00	Set granite stone 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 7. 8. 17 and 18, marked with 4 notches on S., and 5 notches on E. edges.
	Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4ft. base, 2ft. high, W. of cor.
	Land, broken.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Broken land, 80.00 chs.

	S. 89° 51' E. on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.64	Intersect N. and S. line 38 lks. S. of cor. of secs. 8. 9. 16 and 17.
	Thence we run
	S. 89° 53' W. on a true line bet. secs. 8 and 17.
	Over broken land.
10.00	Descend.
13.00	Wash 25 lks. wide, course SW.
22.00	Wash 20 lks. wide, course SW.
26.50	Wash 30 lks. wide, course SW.
29.00	Wash, 2 chs. wide, course S.
30.80	Road brs, N. and S.
33.50	Ascend.
39.82	Set granite stone 24 x 12 x 8 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.
	Dig pits 18 x 18 x 12 ins., E. and W. of cor., 3ft. dist., and raise a mound of earth and stone, 4ft. base, 2ft. high, N. of cor.
42.00	Ridge brs. N. and S.
	Descend.
44.05	Gulch 20 lks. wide, course SE.
	Ascend.
49.00	Ridge brs. SE and NW.
	Descend.
61.00	Wash 40 lks. wide, course SE.
69.00	Ascend.
79.64	The cor. of secs. 7. 8. 17 and 18.
	Land, broken.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Broken and mountainous land, 79.64 chs.

Subdivisions of T 11 S., R 14 E.

Chains.	
	N. 89°51' W. on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
79.76	Intersect W. bdy. at 7 lks. N. of cor. of secs.7. 12. 13 and 18.
	Thence we run
	S. 89°54' E. on a true line bet. secs. 7 and 18.
	Over broken land.
	Descend.
28.75	Gulch 10 lks. wide, course SE.
39.76	Set granite stone 16 x 6 x 3 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A paloverde, 12 ins. in diam. brs. S. 7½°W., 284 lks. dist., marked ¼ S 18 B T.
	A mesquite, 5 ins. in diam. brs. N. 5°W., 230 lks. dist., marked ¼ S 7 B T.
43.50	Gulch 15 lks. wide, course SE.
	Ascend.
54.50	Ridge brs.SE and NW.
	Descend.
60.20	Gulch 10 lks. wide, course SE.
	Ascend.
66 75	Ridge brs. SE and NW.
	Descend.
73.40	Gulch 15 lks. wide, course SE.
	Ascend.
79.76	The cor. of secs. 7. 8. 17 and 18.
	Land, broken.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Mountainous and broken land, 79.76 chs.

August 23, 1908.

August 24; At 9h a.m., l.m.t., we set off 32°29' N. on the lat. arc; 11°07' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 7. 8. 17 and 18;

	Thence we run
	N. 0°3' W. bet. secs. 7 and 8.
	Over rolling land.
9.00	Descend.
14.50	Bottom.
27.50	Wash 20 lks. wide, course S. 20 E.
40.00	Set granite stone 18 x 6 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	A mesquite, 10 ins. in diam. brs. N. 47°E., 318 lks. dist., marked ¼ S 8 B T.
	A mesquite, 8 ins. in diam. brs. S. 39½°W., 248 lks. dist., marked ¼ S 7 B T.
58.00	Wash 20 lks. wide, course S. 10°E.
63.00	Ascend.
80.00	Set a limestone 24 x 8 x 5 ins., 18 ins. in the ground, for cor. of secs. 5. 6. 7 and 8, marked with 5 notches on S. and E edges; from which
	A mesquite, 8 ins. in diam. brs. S. 69¼°E., 41 lks. dist., marked T 11 S R 14 E S 8 B T. No other trees available. Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft dist., and raise a mound of earth 4ft. base, 2ft. high, W. of cor.
	Land, rolling.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Rolling land, 80.00 chs.

Chains.	
	N. 89° 53' E. on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
79.60	Intersect N. and S. line 16 lks. S. of cor. of secs. 4. 5. 8 and 9.
	Thence we run
	S. 89° 46' W. on a true line bet. secs. 5 and 8.
	Over rolling land.
1.00	Descend.
9.00	Wash 25 lks. wide, course S. 15° W.
12.00	Wash 250 lks. wide, course S. [illegible]
16.00	Wash 25 lks. wide, course S. 15° E.
27.50	Road brs. N. and S.
39.80	Set granite stone 16 x 10 x 4 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.
	Dig pits 18 x 18 x 12 ins. E. and W. of cor., 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, N. of cor. Ascend over rolling land.
62.00	Wash 15 lks. wide, course SE.
79.60	The cor. of secs. 5. 6. 7 and 8.
	Land, rolling.
	Soil, 2nd rate.
	Timber, mesquite and paloverde.
	Rolling land, 79.60 chs.

	N. 89° 54' W. on a random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
80.09	Intersect W. bdy. 16 lks. S. of cor. of secs. 1. 6. 7 and 12.
	Thence we run
	S. 89° 47' E. on a true line bet. secs. 6 and 7.
	Over rolling land.
40.09	Set granite stone 16 x 8 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A mesquite, 8 ins. in diam. brs. N. 57½° E., 57 lks. dist., marked ¼ S 6 B T.
	A paloverde, 5 ins. in diam. brs. S. 32° W., 148 lks. dist., marked ¼ S 7 B T.
54.70	Descend.
56.00	Wash 30 lks. wide, course S. 30° E.
	Ascend.
64.80	Ridge brs. SE and NW.
72.00	Descend.
73.10	Wash 30 lks. wide, course S. 30° E.
	Ascend.
80.09	The cor. of secs. 5. 6. 7and 8.
	Land, rolling.
	Soil, 3rd rate.
	Timber, mesquite and paloverde.
	Rolling land, 80.09 chs.

	N. 0° 3' W. bet. secs. 5 and 6.
	Over broken land.
11.00	Descend.
17.00	Bottom.
20.30	Gulch 15 lks. wide, course SE.
21.00	Ascend.
32.00	Top of flat mesa.
40.00	Set granite stone 16 x 8 x 6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A mesquite, 8 ins. in diam. brs. N. 76° E., 186 lks.

Subdivisions of T. 11 S., R. 14 E.

Chains	
	dist., marked ¼ S 5 B T. No other trees available.
	Dig pits 18 x 18 x 12 ins., N. and S. of cor. 3ft. dist., and raise a mound of earth, 4ft. base, 2ft. high, W. of cor.
70.00	Descend.
79.00	Gulch 25 lks. wide, course S. 60° E.
	Ascend.
82.65	Intersect 2nd Standard Parallel South, 18.65chs. N.89°33'E. of the Std. cor. of Tps. 10 S., Rs. 13 and 14 E. which is a post firmly set, marked and witnessed as described by the surveyor general.
	Where we set a granite stone 20 x 10 x 6 ins., 15 ins. in the ground, for closing cor. of secs. 5 and 6., marked C. C. on S., with 5 grooves on E. and 1 groove on W. face,, and raise a mound of stone 3ft. base, 2ft. high, S. of cor.
	Pits impracticable.
	Land, broken.
	Soil, 2nd rate.
	No timber.
	Mountainous land, covered with dense undergrowth 82.65 chs.
	Connecting line, **mountainous land.** 18.65 chs.

August 24, 1908.

General Discription.

The land embraced in the surveyed portion of this Tp. is mountainous in the Southwest, rolling and broken and cut by many gulches and washes in the Western and Northern portions.
The only cultivatable land is along the main washes, which is in narrow strips.
The soil in the greater portion of the Tp., is poor and rocky, and covered for the most part with a dense growth of cacti, with scattering Mesquite and Paloverde timber.
The only permanent water, other than that obtained from wells, is in Canada Del Oro Creek, which flows through secs. 27 and 34.
There is one settler each on secs. 10. 22. 28. 32. & 33

Wickenburg, Arizona; November 27, 1908.

Francis G. Jacobs

U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 2139

LIST OF NAMES.

A list of the names of the individuals employed by Jacobs & Curry, United States Deputy Surveyors, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisions of T 11 S - R 14 E. showing the respective capacities in which they acted:

Harry S. Young, *Chainman.*
Jim A. Ellis, *Chainman.*
James Hughes, *Moundman.*
_____, *Moundman.*
_____, *Axman.*
_____, *Axman.*
_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jacobs and Curry, United States Deputy Surveyors, in surveying all those parts or portions of the Subdivisions of T 12 S - R. 14 E. of the G & S R. Base and meridian, Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by ~~him~~ them and under ~~his~~ their 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

Harry S. Young, *Chainman.*
Jim A. Ellis, *Chainman.*
James Hughes, *Moundman.*
_____, *Moundman.*
_____, *Axman.*
_____, *Axman.*
_____, *Flagman.*

Subscribed and sworn to before me this 27 day of August, 1908

SEAL

Francis Jacobs
Notary Public

My commission expires September 20, 1911

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BOOK 2139

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Francis B Jacobs and Daniel J Cleary, United States Deputy Surveyor, do solemnly swear that, in pursuance of a joint contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 20th day of March, 1908, 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 Subdivisions of T 11 S - R 14 E

of the Gand S.R. Base and 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.

Francis B Jacobs
United States Deputy Surveyor.

Subscribed by said Francis B. Jacobs, and sworn to before me this 27 day of Sept., 1909.

SEAL

Frank S Ingalls
U.S. Surveyor General

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Sept. 30, 1909

The foregoing field notes of the survey of the fractional Subdivisions of T 11 S R 14 E Gila and Salt River Meridian Arizona

executed by Francis B Jacobs and Daniel J Cleary under ~~his~~ joint contract No. 148, dated March 20, ~~1908~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S Ingalls
United States Surveyor General.

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

_____
United States Surveyor General.

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