

2119

Carried over 26/09/1908

4-679.

Book B.

Accepted, Sept letter E Nov 10 07

BOOK 2119

FIELD NOTES

2119

2119

OF THE SURVEY OF THE

Frac.

Subdivision of Twp. 19 N R. 12 1/2 E

2119

Of the *Gila Salt River Base* Meridian,

Arizona

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. *15-2*, dated *Oct 24*, 1908

Survey commenced *Dec. 2*, 1908

Survey completed *Dec. 5*, 1908

6-151

2119

2119

2119

NAMES AND DUTIES OF ASSISTANTS.

Frank H. Devin Chairman

Virgilus A. Morris "

Aloy H. Smith Maudslayi

Charles Morris Foreman

BOOK 2119

INDEX DIAGRAM.

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BOOK 2119

PRELIMINARY OATHS OF ASSISTANTS.

WE, Frank H. Bevin and Virgil A. Morris
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

Subdivision of Tp. 19 N R 12 1/2 E
Trac " " " " " " " "
Frank H. Bevin, Chainman.
Virgil A. Morris, Chainman.

Subscribed and sworn to before me this 28th
day of Nov, 1908



Jesse B. Wright
U. S. Deputy Surveyor

WE, Alvy H. Smith 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

Subdivision of Tp. 19 N R 12 1/2 E, Subd. Trac of Tp. 19 N R 12 E
Alvy H. Smith, Moundman.
_____, Moundman.

Subscribed and sworn to before me this 28th
day of Dec, 1908



Jesse B. Wright
U. S. Deputy Surveyor

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

_____, Axman.
_____, Axman.

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



I, Claude Morris, 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 Subdivision of T 19 N R 12 1/2 E Trac Subd T 19 N R 12 E

Claude Morris, Flagman.

Subscribed and sworn to before me this 28th
day of Nov, 1908



Jesse B. Wright
U. S. Deputy Surveyor

Subdivision of T. 19 N. R. 12 1/2 E.

Chains

Survey commenced Dec. 2, 1908, and executed with a W. & L. E. Gurley light mountain transit, special make, unnumbered,

The plates of inst. are provided with two double verniers each reading to 1' of arc, and with Burts patent solar attachment, the lat. & decl. arcs reading by verniers to 30" of arc.

I begin at the cor. of secs. 1, 2, 35 & 36, on S. bdy. of Tp. as recently established by me. (Latitude 34° 59' 45" N.)

I test the levels and line of collimation, also the standards of my instrument and find same in exact

adjustment. I also test the solar lenses and lines, the decl. arc and polar axis of the solar attachment and finding all parts of the inst. in accurate adjustment as to tests, in order to test the solar apparatus by comparing p.m., & a.m. obs. for mer. with a true mer. determined by polaris obs., I proceed as follows:

At the cor. above described at 3h p.m., l.m.t., I set off 21° 57' 30" S. on the decl. arc and 35° 0' N. on the lat. arc and determine a mer. with the solar and mark a point in the mer. thus determine by a nail driven in a cedar tree 5 chs. N. of my station.

Dec. 3, 1908, at 2h 34m a.m., l.m.t. I observe polaris at W. elong. in accordance with instructions in the manual and mark a point in the line thus determined by a tack in a stake driven in the ground 5 chs. N. of my sta.

At 8h a.m., l.m.t. I set off the azimuth of polaris 1° 27' to the East and mark a point in the mer. thus determined by a nail driven in the tree 5 chs. N. of My sta.

This point is 3 ins. W. of the mer. determined by solar on preceding evening.

Then I set off 22° 03' 30" S. on the decl. arc and 35° 0' N. on the lat. arc. and determine a mer. with the solar, which mer. coincides with the mer. determined by polaris obs.

Hence I conclude that my inst. is in satisfactory adjustment. The mag. bearing of the mer. at 8h a.m., is 14° 35' W. The angle thus determined gives the mag. Var. as 14° 35' E.

Thence from above described cor. I run, N. 0° 01' W. bet. secs. 35 & 36.

Over gently rolling land through scattering cedar timber, and dense sages brush.

40.00

St a limestone 30x15x6 ins. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of earth 4 ft. base 1 1/2 ft. high W. of cor. and dig pits 18x18x12 ins. N. & S. on line 3 ft. dist. From this cor. a

cedar tree 6 ins. diam. brs. S. 35° E. 132 lks. dist. marked 1/4 S. 36 B.T.

A cedar tree 6 ins. diam. brs. S. 62° W. 141 lks. dist. marked 1/4 S. 35 B.T.

80.00

Set a limestone 30x12x8 ins. 24 ins. in the ground for cor. of secs. 25, 26, 35 & 36 marked with 1 notch on S. & 1 notch on E. edges and raise a mound of stone covered with earth 4 ft. base 12 ft. high W. of cor. dig pits 18x18x12 ins. in Each sec. 5 1/2 ft. dist. No bearings available.

Land rolling.

Soil, 2nd rate sandy loamy.

Timber scattering cedar. Undergrowth, dense sage brush.

Rolling land covered with dense undergrowth, 80.00 chs.

East on a random line bet. secs. 25 & 36.

40.00

Set temp. 1/4 sec. cor.

80.20

Intersect E. bdy. at point 12 lks. S. of the cor. of secs.

30, 31, 25 & 36, whence I run,

S. 89° 55' W. on a true line bet. secs. 25 & 36.

Over rolling land through dense cedar.

Subdivision of T. 19 N. R. 12 1/2 E.

Chains	
35.00	Leave cedar timber, enter dense cedar undergrowth, mostly dead.
40.10	Set a limestone 20x10x6 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, dig pits 18x18x12 ins. E. & W. on line 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. No bearings available.
80.20	To cor. of secs. 25, 26, 35, & 36. Land, rolling. Soil, 3rd rate, sandy, gravelly. Timber, cedar. Undergrowth, dense cedar. Rolling land covered with dense undergrowth and exceptionally difficult to survey. 80.20 chs.
N. 0° 01' W. bet. secs. 25 & 26.	
10.00	Over rolling land, through scattering cedar. Leave cedar.
40.00	Set a limestone 15 x 12 x 8 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone covered with earth 3 ft. base 2 ft. high W. of cor. Dig pits. 18 x 18 x 12 ins. N. & S. of cor. 3 ft. dist. No bearings available.
80.00	Set a limestone 36x24x18 ins. 27 ins. in the ground for cor. of secs. 23, 24, 25, & 26 marked with 2 notches on S. & 1 notch on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available. Land, rolling, Soil, 2nd rate, sandy, loamy. No timber. Undergrowth, scattering cedar and sage brush. Good native grass last half mile. Rolling land 80.00 chs.
N. 89° 55' E. on a random line bet. secs. 24 & 25.	
40.00	Set temp. 1/4 sec. cor.
80.12	Intersect E. bdy at point 16 lks. S. of cor. of secs. 19, 24, 25, & 30, whence I run, Over rolling land. S. 89° 48' W. on a true line bet. secs. 24 & 25
40.06	Set a limestone 24x12x8 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. No bearings available.
46.65	Old road, brs. N.W. & S.E.
80.12	To cor. of secs. 23, 24, 25 & 26. Land, rolling. Good native grass. Soil, 2nd rate snay, loamy. No timber. Undergrowth, scattering sage brush. Rolling land 80.12 chs. ✓ At this cor. at 11h 50m, l.m.t., I set off 22° 07'S. on the decl. arc. and observe the sun on the mer. The resulting lat. is 35° 01' 30" N. ✓
N. 0° 01' W. bet. secs. 23 & 24.	
Over mts. land, asc. grad. along S.W. slope of crater mountain.	
40.00	Set a limestone 24x12x8 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a md. of stone. 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.
56.56	Cor. No. 2 of Saturn Placer, mineral survey No. 1806 brs. E. 90 lks. dist.
80.00	Set a limestone 30x15x6 ins. 24 ins. in the ground for Cor. of secs. 13, 14, 23, & 24, marked with 3 notches on S. & 1 notch on E. edge, and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.

Subdivision of T. 19 N. R. 12 1/2 E.

Chains Land mts.
 Soil, 3rd rate, gravelly, sandy, stony.
 No timber. Undergrowth, scattering sage brush.
 Mountainous land 80.00 chs.

N. 89° 48'E. on a random line bet. secs. 13 & 24.
 40.00 Set temp. 1/4 sec. cor.
 80.08 Intersect E. bdy at the cor. of secs. 13, 18, 19 & 24,
 whence I run,
 S. 89° 48'W. on a true line bet. secs. 13 & 24.
 Over mts. land asc. steep.
 11.70 Top of rim of crater mountain. Rim is circular and brs.
 N. & S. at this point. Desc. abrupt over bluff into
 crater.
 30.00 Foot of bluff, at bottom of crater, 500 ft. deep. thence
 along bottom of crater over large limestone boulders.
 40.00 I mark a cross on limestone boulder 10x10x5 ft. above
 ground for 1/4 sec. cor. with 1/4 on N. of cross and
 on a flat surface of boulder N. of cross I build a
 mound of stone 3 ft. base 2 ft. high.
 No bearings available.
 From this cor. cors. No. 3 of Venus & Mars, and cors. No.
 4 of Saturn & Jupiter placers, Mineral survey No. 1806
 brs. N. 3° 28' E. 16.56 chs. This cor. is in cen. of crater
 Smoke stack of Standard Iron Co's engine house brs.
 N. 7° 05' E. 17.25 chs.
 48.00 Foot of bluff asc. prec.
 63.28 Top of rim, I mark W.P. on N. face of large boulder and
 leave mound of stone on line for witness point.
 Desc. steep.
 80.08 To cor. of secs. 13, 14, 23, & 24.
 Land mts., very rough.
 Soil 3rd rate, stony.
 No timber. Undergrowth scattering cedar.
 Mountainous land exceptionally difficult to survey,
 80.08 chs.

N. 0° 01' W. bet. secs. 13 & 14.
 Over mts. land along W. slope of **crater mountain**.
 16.76 Cors. No 2 of Venus & 1 of Saturn placers, mineral survey
 No. 1806 brs. E. 95 lks. dist.
 02.00 Road, brs. N.W. & S.E.
 Desc. along N.W. slope.
 40.00 Set a limestone 30x15x8 ins. 24 ins. in the ground for
 1/4 sec. cor. marked 1/4 on W. face and raise a mound
 of stone 2 ft. base 1 1/2 ft. high W. of cor.
 No bearings available. Camp of St'd. Iron Co. is E. 30 chs.
 40.60 Road, brs. N.E. & S.W. Foot of slope. Thence over rolling ld.
 53.48 Pipe line of Standard Iron Co., brs N.E. & S.W.
 57.50 Cor. No. 1 of Venus Placer, mineral survey No. 1806
 brs. E. 98 lks. dist.
 60.00 Pump house of Standard Iron Co. brs. E. 2 chs. dist.
 69.67 Road from camp of St'd. Iron Co. to Sunshine Sta.
 brs. N.W. & S.E.
 80.00 Set a limestone 24x15x10 ins. 18 ins. in the ground for
 cor. of secs. 11, 12, 13 & 14 marked with 4 notches on S.
 & 1 notch on E. edges and raise a mound of stone 2 ft.
 base. 1 1/2 ft. high W. of cor.
 No bearings available.
 U.S.L.M. No. 1806, brs. N. 19° 10' E. 6.42 chs.
 Land rolling, & mts.
 Soil 2nd & 3rd rate stony, sandy.
 No timber or undergrowth.
 Mts. land 40.00 chs. Rolling land 40.00 chs.
 Dec. 3, 1908.

Subdivision of T. 19 N. R. 12 1/2 E.

Chains	Dec. 4, 1908, at 8h a.m., l.m.t. at the cor. of secs. 11, 12, 13 & 14, I set off 22° 12' S. on the decl. arc and 35° 03' 00" N. on the lat. arc and determine a true mer. with the solar, thence I run N. 89° 48' E. on a random line bet. secs. 12 & 13.
40.00	St temp. 1/4 sec. cor.
79.92	Intersect. E. bdy 5 lks. N. of the cor. of secs. 7, 12, 13 & 18, whence I run. S. 89° 50' W. on a true line bet. secs. 12 & 13.
39.96	Over Rolling land. Set a limestone 24x15x10 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. No bearings available.
61.25	Telephone line from Camp of Standard Iron Co. to Sunshine Sta. brs. N. 0° 45' W. & S. 0° 45' E.
79.92	To cor. of secs. 11, 12, 13 & 14. Land, rolling. Soil, 2nd rate, sandy, loamy. Good native grass. No timber or undergrowth. Rolling land, 79.92 chs.
6.00	N. 0° 01' W. bet. secs. 11 & 12. Over rolling land, asc. Top of sandstone ridge 30 ft. high, brs. E. & W. desc.
30.00	Foot of slope.
40.00	Set a limestone 30x15x12 ins. 8 ins. in ground to bed-rock, with mound of stone around it for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.
80.00	Set a limestone 24x12x10 ins. 18 ins. in the ground for cor. of secs. 1, 2, 11 & 12, marked with 5 notches on S. & 1 notch on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available. Land, rolling. Soil 3rd rate, sandy, gravelly. No timber or undergrowth. Rolling land 80.00 chs.
40.00	N. 89° 50' E. on a random line bet. secs. 1 & 12 Set temp. 1/4 sec. cor.
80.04	Intersect E. bdy. at point 9 lks. N. of cor. of secs. 1, 6, 7 & 12, whence I run, S. 89° 54' W. on a true line bet. secs. 1 & 12. Over Rolling land.
40.02	Set a limestone 24x12x8 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. No bearings available.
62.34	Telephone line, brs. N. and S.
80.04	To cor. of secs. 1, 2, 11 & 12. Land, rolling. Soil, 2nd & 3rd rate, sandy, loamy. No timber or undergrowth. Rolling land, 80.04 chs.
40.00	N. 0° 01' W. on a random line bet. secs. 1 & 2.
80.10	Set temp. 1/4 sec. cor. Intersect N. bdy. at point 5 lks. E. of cor. of secs. 1, 2, 35 & 36, whence I run, S. 0° 02' E. on a true line bet. secs. 1 & 2. Over rolling ld.
40.10	Set a limestone 30x18x6 ins. on bedrock in md. of stone & raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
80.10	To cor. of secs. 1, 2, 11 & 12. Land, rolling. Soil, 2nd rate, sandy. No timber or undergrowth. Rolling land 80.10 chs.

Subdivision of T. 19 N. R. 12 1/2 E.

CHAINS	
	N. 0° 01' W. bet. secs. 34 & 35. Over rolling land, through dense sage brush.
32.00	Draw, 2 chs. wide, course N.W.
40.00	Set a limestone 24x12x6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.
80.00	Set a limestone 24x12x8 ins. 18 ins. in the ground for cor. of secs. 26, 27, 34, & 35, marked with 1 notch on S. & 2 notches on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available. Land, rolling. Soil 2nd rate, sandy, loamy. No timber. Undergrowth dense sage brush. Rolling land covered with dense sage brush, 80.00 chs.
	East on a random line bet. secs. 26 & 35.
40.00	set temp 1/4 sec. cor.
79.82	Intersect N. & S. line at the cor of secs. 25, 26, 35, & 36 whence I run, West, on a true line bet. secs. 26 & 35. Over rolling land.
39.91	Set a limestone 30x15x6 ins. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
55.00	Road, brs N. & S.
79.82	To cor. of secs. 26, 27, 34 & 35. Land Rolling. Soil, 2nd rate, sandy, loamy. No timber. Undergrowth, scattering sage brush. Rolling land, 79.82 chs. At this cor. at 11h 50m, l.m.t., I set off 22° 15' S, ✓ on the decl. arc and observe the sun on the mer. The resulting lat. is 35' 0' 30" N. ✓
	West on a random line bet. secs. 27 & 34.
40.00	Set temp 1/4 sec. cor.
78.04	Intersect W. bdy. of Tp. at point 5 lks. N. of the Cor. of secs. 27, 34, 25 & 36, whence I run, N. 89° 58' E. on a true line bet. secs. 27 & 34. Over rolling land, through dense sage brush. desc. grad.
38.04	Set a limestone 24x, 5x6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. No bearings available.
45.00	W. bank of Canyon Diablo. desc. abrupt.
49.00	Canyon Diablo, 9 chs. wide 150 ft. deep, course N. asc. prec.
54.00	Top of mesa.
78.04	To cor. of secs. 26, 27, 24 & 35. Land, rolling. Soil, 2nd & 3rd rate, sandy, stony. No timber. Undergrowth, dense sage brush. Rolling land covered with dense undergrowth 78.04 chs.
	N. 0° 01' W. bet. secs. 26 & 27. Over rolling land.
40.00	Set a limestone 28x12x8 ins. 21 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.
80.00	Set a limestone 30x15x8 ins. 24 ins. in the ground for Cor. of secs. 22, 23, 26 & 27 marked with 2 notches on S. & 2 notches on E. edges and raise a md. of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available. Land, rolling. Soil 2nd rate sandy. No timber or undergrowth. Rolling land 80.00 chs.

C chains

- East on a random line bet. secs. 23 & 26.
 40.00 Set temp 1/4 sec. cor.
 79.88 Intersect N. & S. line at point 23 lks. S. of the cor.
 of secs. 23,24,25, & 26, whence I run,
 S. 89° 50' W. on a true line bet. secs. 23 & 26.
 Over Level land.
 39.94 Set a limestone 24 x 12 x 8 ins. 18 ins. in the ground
 for 1/4 sec. cor. marked 1/4 on N. face and raise a
 mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
 No bearings available.
 54.00 Road, brs. N. & S.
 79.88 To cor. of secs. 22,23,26 & 27.
 Land level, smooth and open.
 Soil, 2nd rate, sandy, loamy.
 No timber or undergrowth.
 Smooth and open land 79.88 chs.
-
- S. 89° 58' W. on a random line bet. secs. 22 & 27.
 40.00 Set temp. 1/4 sec. cor.
 78.00 Intersect W. bdy of T. at point 12 lks. S. of the cor.
 of secs. 22,27,24, & 25, whence I run,
 S. 89° 57' E. on a true line bet. secs. 22 & 27.
 Over rolling land, through dense sage brush.
 18.00 W. edge of Canyon Diablo, desc. prec.
 20.80 Wire fence, brs. N. & S.
 24.00 Canyon Diablo, 10 chs. wide, 180 ft. deep, course N.
 A stone dam is in canyon 8 chs. N.
 25.00 Lower windmill of Standard Iron Co. is S. 6 chs.
 28.00 Tank of St'd. Iron Co. is S. 6 chs.
 Top of E. edge of canyon.
 34.70 Pipe line of St'd. Iron Co., brs. N.E. & S.W.
 37.20 Road, brs. N.E. & S.W.
 38.00 Set a limestone 24x12x6 ins. 18 ins. in the ground for
 1/4 sec. cor. marked 1/4 on N. face and raise a mound
 of stone 2 ft. base 1 1/2 ft. high N. of cor.
 78.00 To cor. of secs. 22,23, 26 & 27.
 Land, rolling.
 Soil, 2nd & 3rd rate, sandy, gravelly, stony.
 Timber, scattering walnut and willow in canyon.
 Undergrowth, dense sage brush.
 Rolling land covered with dense undergrowth, 78.00 chs.
 Dec. 4, 1908.
-
- Dec. 5, 1908, at 8h a.m., l.m.t. at the cor. of secs.
 22,23,26 & 27, I set off 22° 20' S. on the decl. arc and
 35° 01' 30" N. on the lat. arc and determine a true
 meridian with the solar, thence I run,
 N. 0° 01' W. bet. secs. 22 & 23.
 Over rolling land.
 22.00 Road, brs. N.E. & S.W.
 40.00 Set a limestone 30x15x10 ins. 24 ins. in the ground for 1/4
 sec. cor. marked 1/4 on W. face and raise a md. of stone
 2 ft. base 1 1/2 ft. high W. of cor.
 No bearings available.
 47.80 Pipe line of St'd. Iron Co. brs. N.E & S.W.
 50.00 Old road, brs. N.E. & S.W.
 80.00 Set a limestone 24x12x8 ins. 18 ins. in the ground for
 Cor. of secs. 14,15, 22, & 23, marked with 3 notches on
 S. & 2 notches on E. edges and dig pits 18x18x12 ins.
 in each sec. 5 1/2 ft. dist. and raise a mound of stone
 covered with earth 4 ft. base 1 1/2 ft. high W. of cor.
 No bearings available.
 Land, rolling.
 Soil, 2nd rate, sandy, loamy. Good native grass.
 No timber. Undergrowth scattering sage brush.
 Rolling land 80.00 chs.

Subdivision of T. 19 N. R. 12 1/2 E.

Chains

N. 89° 50' E. on a random line bet. secs. 14 & 23.
 40.00 Set temp 1/4 sec. cor.
 79.90 Intersect N. & S. line at point 5 lks. N. of the cor. of
 secs. 13, 14, 23, & 24, whence I run,
 S. 89° 52' W. on a true line bet. secs. 14 & 23.
 Over rolling land desc. grad.
 32.30 Road, brs. N.N.E. & S.S.W.
 35.00 Road, brs. N.E. & S.W.
 39.95 Set a limestone 24x15 x12 ins. 18' ins. in the ground for
 1/4 sec. cor. marked 1/4 on N. face and raise a mound
 of stone 2 ft. base 1 1/2 ft. high N. of cor.
 No bearings available.
 44.00 Pipe line of Standard Iron Co. brs. N.E. & S.W.
 79.90 To cor. of secs. 14, 15, 22, & 23.
 Land, rolling.
 Soil, 2nd rate, sandy, loamy.
 No timber or undergrowth. Good native grass.
 Rolling land 79.90 chs.

The cor. of secs. 15, 22, 13 & 24 on W. bdy. being plainly
 visible I run,
 N. 89° 50' W. on a random line bet. secs. 15 & 22.
 40.00 Set temp. 1/4 sec. cor.
 77.95 Intersect W. bdy. of Tp. at cor. of secs. 15, 22, 13 & 24,
 whence I run,
 S. 89° 50' E. on a true line bet. secs. 15 & 22.
 Over rolling land.
 37.95 Set a limestone 30x10x6 ins. 24 ins. in the ground for
 1/4 sec. cor. marked 1/4 on N. face and raise a mound of
 stone 2 ft. base 1 1/2 ft. high N. of cor.
 No bearings available.
 51.00 Road, brs. N.E. & S.W.
 77.95 To cor. of secs. 14, 15, 22 & 23.
 Land, rolling.
 Soil, 2nd & 3rd rate, sandy, loamy.
 No timber. Undergrowth scattering sage brush.
 Rolling land, 77.95 chs.

N. 0° 01' W. bet. secs. 14 & 15 .
 Over rolling land.
 21.60 Road, brs. E.N.E. & W.S.W.
 40.00 Set a limestone 15x8x8 inches 10 ins. in the ground for
 1/4 sec. cor. marked 1/4 on N. face and raise a mound of
 stone covered with earth 3 1/2 ft. base 2 ft. high W. of
 cor. Dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist.
 No bearings available.
 80.00 Set a limestone 24x12x8 ins. 18 ins. in the ground for cor.
 of secs. 10, 11, 14, & 15, marked with 4 notches on S. & 2
 notches on E. edges and raise a mound of stone covered
 with earth 4 ft. base 2 ft. high W. of cor. Dig pits
 18x18x12 ins. in each sec. 5 1/2 ft. dist.
 No bearings available.
 Land, rolling.
 Soil, 2nd rate sandy, loamy.
 No timber. Undergrowth scattering sage brush.
 Rolling land 80.00 chs.

N. 89° 52' E. on a random line bet. secs. 11 & 14.
 40.00 Set temp. 1/4 sec. cor.
 80.00 Intersect N. & S. line at point 7 lks. N. of cor. of
 secs. 11, 12, 13, & 14, whence I run,
 S. 89° 55' W. on a true line bet. secs. 11 & 14.
 Over rolling land.
 3.35 Main road, brs. N.W. & S.E.
 40.00 Set a limestone 30x12x6 ins. 24 ins. in the ground for 1/4
 sec. cor. marked 1/4 on N. face and raise a md. of stone 2 ft.
 base 1 1/2 ft. high N. of cor.
 No bearings available.

Subdivision of T. 19 N. R. 12 1/2 E.

Chains

- 80.00 To cor. of secs. 10,11,14 & 15.
Land, rolling.
Soil, 2nd rate, sandy, loamy.
No timber. Undergrowth scattering sage brush.
Rolling land 80.00 chs.
-
- N. 89° 50' W. on a random line bet. secs. 10 & 15.
40.00 Set temp. 1/4 sec. cor.
77.90 Intersect W. bdy. of Tp. at point 14 lks. N. of the cor. of secs. 10,15,12 & 13, whence I run, S. 89° 56' E. on a true line bet. secs. 10 & 15.
Over rolling land.
12.00 Old road, brs. N.E. & S.W.
37.90 Set a limestone 24x10x6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
No bearings available.
77.90 To cor. of secs. 10,11,14 & 15.
Land, rolling.
Soil, 2nd rate, sandy, loamy.
No timber or undergrowth.
Rolling land, 77.90 chs.
At this cor. at 11h 51m., l.m.t., I st off 22° 23' S. on the decl. arc and observe the sun on the mer.
The resulting lat. is 35° 03' 30" N./
-
- N. 0° 01' W. bet. secs. 10 & 11.
Over rolling land, smooth and open.
40.00 Set a limestone 24x12x6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W of cor.
80.00 Set a limestone 30x15x6 ins. 24 ins. in the ground for cor. of secs. 2,3,10 & 11, marked with 5 notches on S. & 2 notches on E. edges and raise amount of earth 2 ft. base 1 1/2 ft. high W. of cor.
Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.
No bearings available.
Land rollin, smooth and open.
Soil, 2nd rate, sandy, loamy.
No timber or undergrowth.
Smooth and open land, 80.00 chs.
-
- N. 89° 55' E. on a random line bet. secs. 2 & 11.
40.00 Set temp. 1/4 sec. cor.
80.06 Intersect N. & S. line at point 7 lks. N. of the cor. of secs. 1,2,11 & 12, whence I run, S. 89° 58' W. on a true line bet. secs. 2 & 11.
Over rolling land.
38.10 Road, brs. N.N.W. & S.S.E.
40.03 Set a limestone 24x8x4 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
80.06 To cor. of secs. 2,3,10 & 11.
Land rolling.
Soil, 2nd rate, sandy, loamy.
No timber or undergrowth.
Rolling land, 80.06 chs.
-
- N. 89° 56' W. on a random line bet. secs. 3, & 10.
40.00 Set temp. 1/4 sec. cor.
77.80 Intersect W. bdy. of Tp. at point 9 lks. N. of cor. of secs. 3,10,1 & 12, whence I run, East on a true line bet. secs. 3, & 10.
Over rolling land. Through dense sage brush.

Subdivision of T. 19 N. R. 12 1/2 E.

Chains
21.00
26.00
30.00
37.80

W. edge of Canyon Diablo. desc. prec.
Canyon diablo 10 chs wide 160 ft. deep, course N. asc. prec.
Top of mesa.
Set a sandstone 30x18x6 ins. 24 ins. in the ground for
1/4 sec. cor. marked 1/4 on N. face and raise a mound of
stone 3 ft. base 1 1/2 ft. high covered with earth
N. of cor. Dig pits 18x18x12 ins. E. & W. of cor. 3 ft.
dist. No bearings available.
77.80 To cor. of secs. 2,3,10 & 11.
Land rolling.
Soil, 2nd & 3rd rate, sandy, stony.
No timber. Undergrowth, dense sage brush.
Rolling land covered with dense undergrowth, 77.80 chs.

40.00
80.05

North on a random line bet. secs. 2 & 3.
Set temp. 1/4 sec. cor. 5
Intersect N. bdy of T. 7 lks. E. of cor. of secs. 2,3,34
& 35, whence I run,
S. 0° 03' E. on a true line bet. sections 2 & 3.
Over rolling land.

40.05

Set a sandstone 30x15x6 ins. 24 ins in the ground for
1/4 sec. cor. marked 1/4 on W. face and raise a mound
of earth 4 ft. base 1 1/2 ft. high W. of cor. Dig pits
18x18x12 ins. N. & S. of cor. 3 ft. dist.
No bearings available.

80.05

To cor. of secs. 2,3,10 & 11.
Land, rolling.
Soil, 2nd rate sandy, loamy.
No timber, Undergrowth, scattering sage brush.
Rolling land , 80.05 chs. Dec. 5, 1908..

GENERAL DESCRIPTION.

This township is mostly rolling, mesa land, covered
with a fine sandy loam from 10 to 18 ins. Under this
loam lies a bedrock of limestone covering the entire
country. This sandy loam is the product of the decompo-
sition of a red sandstone strata which once covered
the entire country, but which now appears only in
isolated knolls and boulders.

There is considerable cedar timber in the S.E. part of
the township; and around the S. slopes of crater mountain.
The other portions of the township are covered with
scattering sage brush and with a very good growth of
native grass.

There is no water in the township except where developed
in Canyon Diablo, by the Standard Iron Co., who have
built 2 dams to collect and hold the flood waters, and
also erected two windmills and tanks for pumping and
storing water, which is transmitte by a pipe line to
the camp of the Co. on Crater Mountain.

The soil throughout the township would produce abundantly
with irrigation.

Crater Mountain, which lies in secs. 13 & 24 is the
result of a meteor of enormous proportions and velocity
striking and penetrating the earth to the depth of over
1,000 ft. as shown by the shafts and drillings of the
Standard Iron Co.

The rim of the Crater is circular and about 4000 ft. diam.
being elevated about 400 ft. above the surrounding
country. The crater is about 500 ft. deep .

The camp of the Standard Iron Co. is the only settlement
in the township. This Co. has erected substantial buildings
including engine & shaft houses, water tanks etc., laid a
pipe line several miles supplying the camp with good
water. They have also done much expensive development work
such as cuts, tunnels, shafts, drilling, etc.
The Iron ore developed from the meteor is very valuable.

James B. Wright U.S. Dep. Surveyor.

Retracements of Placer Claims of Min. Survey No. 1806.
in connection with surveys in T. 19 N. R. 12 1/2 E.

- In order to prove my closures on the exterior boundaries of the placer claims, Venus, Mars, Saturn and Jupiter, I find it necessary to retrace the exterior boundaries of same.
- I begin at cor. No. 1 of Venus placer and run thence, East, as per the official plat.
- 40.10 Cors. No. 4 of Venus & Mars placers, brs. S. 14 lks. dist. Hence the true course bet. cors. No. 1 & 4 of Venus Placer is N. 89° 48' W.
- Thence from this cor. I run, East
- 40.15 Cor. No. 1 of Mars placer, brs. S. 14 lks. dist. The true course back to cor. No. 4 is N. 89° 48' W. Thence from cor. No. 1 of Mars placer I run South
- 40.45 Cors. No. 2 of Mars & 1 of Jupiter placers brs. E. 3 lks. dist. The true course back to cor. No. 1 of Mars placer is N. 0° 03' W. Thence from cor. No. 1 of Jupiter I run South.
- 40.20 Cor. No. 2 of Jupiter placer brs. E. 6 lks. dist. The true course back to Cor. No. 1 is N. 0° 05' W. Thence from Cor. No. 2 of Jupiter placer I run, West.
- 40.12 Cors. No. 3 of Jupiter & Saturn placers brs. N. 12 lks. dist. The true course back to Cor. No. 2 of Jupiter is S. 89° 50' E. Thence from cor. No. 3 of Saturn placer I run, West.
- 40.15 Cor. No. 2 of Saturn placer brs. N. 12 lks. dist. The true course back to cor. No. 3 of Saturn is S. 89° 50' E. Thence from cor. No. 2 of Saturn placer I run, North.
- 40.18 Cor. No. 1 of Saturn & 2 of Venus on line. Thence I run, North.
- 40.60 To cor. No. 1 of Venus placer on line.

Dec., 5, 1908.

Jesse B. Wright
J.S. Deputy Surveyor.

*For authority for red ink connections
see Deputy's letter of May 2 - 1909.*

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Jose B. Wright

a, 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 Subd. of

T. 19 N R. 12 1/2 E and five Subd T 19 N R 12 E

showing the respective capacities in which they acted:

Frank H. Bevin, Chainman.

Virgilus A. Morris, Chainman.

Alvy H. Smith, Moundman.

Moundman.

Acman.

Acman.

Claude Morris, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jose B. Wright

a, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision of T. 19 N R

12 1/2 East and five Subd. of

T. 19 N R 12 E.

of the Great

Salt River meridian, T. 19 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

Frank H. Bevin, Chainman.

Virgilus A. Morris, Chainman.

Alvy H. Smith, Moundman.

Moundman.

Acman.

Acman.

Claude Morris, Flagman.

Subscribed and sworn to before me this 8th

day of Dec, 1908



Jose B. Wright
U. S. Deputy Surveyor

12 213

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. English United States Surveyor General for Arizona, bearing date of the 24th day of Oct., 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 Tp 19 N R 12 1/2 E and Tp 19 N R 12 E.

of the Gila Salt River meridian, in the Twp. 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.

Jesse B Wright
United States Deputy Surveyor.

Subscribed by said Jesse B Wright, and sworn to before me }
this 16th day of December, 1908

[Signature]
U.S. Commissioner



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Sept. 3, 1909

The foregoing field notes of the survey of the subdivision lines of Tract Tp. 19 N. R. 12 1/2 E. of the Gila and Salt River Bas and Meridian, Arizona.

executed by Jesse B Wright, U.S. Deputy Surveyor under his contract No. 152, dated October 2nd, 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. English
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.