13-44

EAST. WEST and NORTH

BOUNDARIES

Township No. 14 S. Range No. 20 E.

FIELD NOTES

GENERAL LAND OFFICE.

15-44 1

BOOK 1544

Field notes
of the Survey of the

East. West and North
Boundarys
of
Township No. 14 S Range No 20 E.
of the
Gila and Salt River
Base and Meridian.
in the
Territory of Arizona
as surveyed by
Francis B. Jacobs
U.S. Deputy Surveyor
under his Contract No 81
Dated May 22d 1901

Survey commenced January 11th 1902
Survey Completed January 21st 1902

BOOK 1544

2

East. West and North Bdys. of

Names and duties of Assistants

Harry R. Eckert Chainman

Everett L. Boulden Chainman

James L. Henderson Rearman

Rearman

Jay Jacobs Flagman

BOOK 1544

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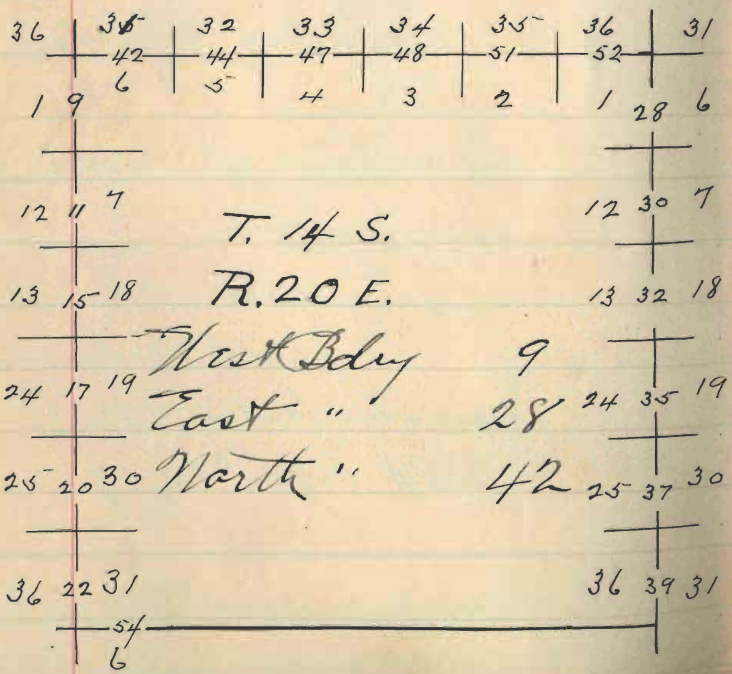

T 14 S. - R 20 E

Survey commenced January 11th 1902 and executed with a Wm. & E. Gurley light mountain transit with a Burt 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 lat. and dep. arcs.

The instrument was examined tested on the 2nd Meridian at Tucson found correct and was approved by the Surveyor General for Arizona November 12th 1901. —

East, West and North Bdys. of

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 true Meridian determined by observations on Polaris, I proceed as follows

At My camps near the center of Sec. 17. in Tp 14 S. — R. 20 E.; Latitude 32° 12' 35" N., Longitude 110° 19' 13" W. — at 4h 10m P.M. L.M.T. I set off 32° 13' on the Lat. arc; 21° 47' S. on the decl. arc; and determine with the Solar a Tru Meridian

T. 14 S. — R 20 E

and mark a point thereof on a stone set firmly in the ground 5 chs. N of my station.

At 11h 56m 58s P.M. l.m.t., I observed Polaris at Western elongation, in accordance with Manual of Instructions, and mark a point on the line thus determined on a stake driven in the ground 5 chs N of my station.

January 11th 1902

January 12th: at 7h 40m a.m. l.m.t. I set off the azimuth of Polaris 1° 26', to the east and mark the True Meridian thus determined by cutting

6 East, West and North Bdys. of

a small groove in the stone set January 11, on which the true meridian falls 0.3 ins. West of the mark determined by the Solar at 8h 11m a m l.m.t. I set off 32° 13' on the Lat. arc; 21° 41' S. on the decl. arc, and mark a point on the true meridian determined with the Solar on the stone already set 5.00 chs. N. of my station. This mark coincides with the True Meridian as established by the Polaris Observation

The Solar apparatus, by P.M. and a.m. observations Gelfins positions for true meridians respectively about 0' 16" east. and the True meridian established by

T. 14 S. — R. 20 E.

the Polaris observations.

Therefor, I conclude the adjustments of the instrument are correct.

The magnetic bearing of the true meridian at 8h 15m a.m. l.m.t. is N 12° 53' W.; the angle thus determined, reduced by the table page 100 gives the mean. mag. dec. 12° 52' E. —

I begin at the cor. of Tps. 14 and 15 S. — Rs. 19 and 20 E. which is a post 4 ins square 2½ ft. above ground firmly set and marked as described by the Surveyor General

Thence I run

West Boundary of

Work on a random line along the W. bdy. of T. 14 S.- R. 20 E., setting temps. 1/4 sec. and sec. cors. at intervals of 40.00 chs.; and at 486.30 chs. intersect the N. bdy. of the Tp. 10.35 chs. E. of the cor. of Tps. 13 and 14 S.- Rs. 19 and 20 E. which is a post 4 ins square 2½ ft above ground firmly set and marked and witnessed as described by the Surveyor General.-

The following answers to a correction of 1° 13', or 170.4 lks W. per mile, counting from the S. W. cor. of the Tp.

Therefore I run

T 14 S. – R 20 E

	S. 1° 13' E. Set Stone 1 and 6 Over Very Broken land Ascend
3.75	Ridge bears N E and S. W Descend
6.15	Gulch 15 Lks. Wide course N 61° E Ascend
11.25	Ridge bears N.E. and S. W. Descend
16.50	Gulch 20 Lks. wide course N.E. Ascend
21.00	Ridge bears S. E and N.W.
28.00	Descend
42.40	Dup Gulch 50 Lks. wide course E. Ascend along E. slope of steep mountain
46.41	Set a Quartz Stone 18×12×8 ins. 12 ins. in the ground for 1/4 Sec. Cor. Marked 1/4 S on W. face and raise a mound of stone 3 ft. base

10 West boundary of

2 ft high W. of cor.
Pit impracticable

48.00 Top of Ascent
Descend

56.25 Canon 50 Lks. wide course N 60° E
Ascend

67.75 Ridge bears E. and W.
Descend

66.00 Gulch 30 Lks. wide course N. 60° E.
Ascend

71.00 Ridge bears E. and W.
Descend

74 75 Gulch 25 Lks. wide course E.

78.00 Ascend

78.00 Ridge bears E. and W.

81.1 Descend

81.10 Gulch 30 Lks. wide course E
Ascend

85.00 Ridge bears E. and W.
Descend

T. 14 S. — R 70 E.

86.41 A limestone reef (in place) bears S. 60° E. and N. 60° W. I cut a (+) cross at the exact for cor. of Secs 1-6-7 and 12 cor. point, and 1 groove on N and 5 grooves on S of + and raise a mound of stone 3 ft. base 2 ft. high W of cor. Land mountainous

Soil 4th rate

No timber

Mountainous land 86.41 chs.

S 1° 13' E bet. Secs 7 and 12 over mountainous land

Descend

- 40. Gulch 10 lks. wide course E

Ascend

4.50 Ridge bears E. and W.

Descend

12 West boundary of

19.40	Gulch 50 Lks. wide course E Ascend
13.50	Ridge bears E. and W. Descend
16.00	Gulch 2 Lks. wide course E Ascend
20.00	Ridge bears E. and W. Descend
23.50	Gulch 2 Lks. wide course E Ascend
27.00	Ridge bears E. and W. Descend
29.30	Gulch 1 Lks. wide course E. Ascend
33.50	Ridge bears E. and W. Descend
40.00	a Limestone in place 1 x 6 x 4 ft. above ground from 1/4 Sec. Cor I cut a cross at exact cor. point and 1/4 S on W of (H)

T. 14 S. — R. 20 E.

and raise a mound of stone
2½ ft base 1½ ft. high W.f.cor.
Pits impracticable
Ascend

47.50 Ridge bears E. and W.
Descend very steep ridge

48.25 Gulch 50 Lks. wide course N. 60° E.
Ascend

60.00 Ridge bears E. and W.

62.00 Descend

65.00 Gulch 10 Lks. wide course E.
Ascend

67.30 Ridge bears E and W
Descend

75.80 Gulch 30 Lks. wide course E.
Ascend very steep hill

80.00 Set a Limestone 18×16×10 ins. 12 ins.
in the ground for cor. of Secs.
7 - 12 - 13 and 18
Marked with 2 notches on N

West boundary of

and 4 notches on 3 edges
and raise a mound of stone
3 ft. base 2 ft high W of cor.
Pits impracticable
Land mountainous
Soil of 2d rate
No timber
Mountainous land and covered
with dense thorn bushes and
cacte 80.00 chs. —

January 12 and 13th 1902

January 14th: at the cor of Secs.
7-12-13 and 18, I set off
32° 12' on the Lat. arc;
21° 22' S. on the decl. arc:
and at 8h 00m l.m.t. determined
with the Solar a true Meridian
and run thence

T. 14 S. — R 20 E

N 1° 13' E bet Secs 13 and 18
Over Mountainous land
1.00 High mountain Ridge bears E. & W.
Descend
6.15 Gulch 35 lks. wide course S. E
Ascend
10.00 Descend
15.25 Gulch 50 lks. wide course E.
Ascend
23.00 Top of ascent on E. slope of Ridge
Descend
30.40 Gulch 40 lks. wide course N 65° E
39.00 Gulch 10 lks. wide course N. E
Ascend
40.00 Set a Limestone 16 x 14 x 8 ins. 11 ins.
in E ground for 1/4 Sec. cor.
Marked 1/4 S. on W. face. and
raise a mound of stone 3 ft. base
2 ft. high W. of cor. p
Pits impracticable

16 West boundary of

40.50 Ridge bears E. and W.
Descend

44.00 Gulch 30 lks. wide course N 70° E
Ascend

48.50 Ridge bears E and W
Descend

60.00 Gulch 30 lks. wide course E
Ascend

68.75 Ridge bears E. and W.
Descend

80.00 set a Limestone 20 x 12 x 0 ins. 15 ins.
in the ground for cor. of Secs.
13 - 18 - 19 and 24
Marked with 3 notches on
N. and S. edges and raise
a mound of stone 3 ft. base
2 ft. high N. of cor.
Pits impracticable
Land mountainous
Soil 4th rate

T. 14 S. – R. 20 E.

No Timber
Mountainous land and
covered with dense thorn
bushes and Cacti.
80.00 chs.

S 1° 13' E Bet. Secs 19 and 24
Over Mountainous Land
Descend
1.75 Gulch 60 lks. wide course E.
Ascend
13-00 Ridge Bear E and W.
Descend
19.20 Gulch 30 lks. wide course E.-
Ascend
32-25 High Ridge bear E and W.
Descend
40.00 set a Quarty Stone 16 x 12 x 8 ins. 12 ins
in the ground for 1/4 Sec. cor
Marked 1/4 S. on N. face and

West boundary of

Raise a mound of stone 3 ft. base 2 ft. high N. of cor.
Pits impracticable

+1.00	Gulch 6 lks. wide course S. 60° E.
+2.00	Ascend very steep bank
+2.80	Top of bank 50 ft high
+4.50	Descend very steep bank
+6.00	Gulch 30 lks. wide course E. Ascend
55.50	Ridge bears E. and W. Descend
59.75	Gulch 20 lks. wide course S. 60° E Ascend
61.50	Ridge bears E. and W. Descend
67.50	Gulch 25 lks. wide course S. 60° E Ascend
70.75	Ridge bears E. and W. Descend
78.00	Gulch 40 lks. wide course S. E.

5 T. 14 S. - R 20 E

Ascend

79.00 Top of bank

80.00 Set a Granite Stone 24 x 12 x 10 ins.

18 ins. in the ground for cor of Secs

19 - 24 - 25 and 30.

Marked with 4 notches on N and

2 notches on S. sdes, and

dug pits 24 x 24 x 12 ins in each sec

50 ft dist. and thence mound of stones

4 ft base

2 ft high W. of cor. -

From Which

A Paloverde 4 ins in diam.

bears N 31 1/4 W. 14.2 lks. dist.

Marked T. 14 S. - R. 19 E S. 24 - B.T.

no other trees within limits

Land Mountainous

Soil of the rate

No Timber

Mountainous land and

Covered with dense thorn bushes

and cacti 8,000 lks.

20 West boundary of

S 1° 13' E. Ext. Secs. 25. and 36.

over Mountainous land

Descend

1.60 Gulch 40 Lks. wide course E.

Ascend

6.80 Ridge bears N.E. and S.W.

Descend

9.30 Gulch 20 Lks. wide course N 65° E

Ascend

13.60 Ridge bears E. and W.

Descend

19.20. Gulch 25 Lks. wide course E.-

Ascend

25.00 Ridge bears E. and W.

Descend

32.10 Gulch 30 Lks. wide course E.

Ascend

38.75 Ridge bears E and W.

Descend

40.00 Set a Granite Stone 18 x 10 x 6 ins. 12 ins.

T. 14 S. - R. 20 E.

in the ground for 1/4 sec. cor
Marked 1/4 S on N. face
Dig pits 24 x 24 x 12 in N and S.
of stone 3 ft dist. and raise
mound of earth and stone
3½ ft base. 2 ft high W. of cor,
42.80 Deep Gulch 10 Lks. wide course E
Ascend
50.00 Ridge brow E, and W.
Descend
53.50 Gulch 15 Lks. wide course S 70° E
Ascend
68.00 Ridge brow E, and W.
70.00 Descend
79.50 Gulch 10 Lks. wide course S 75° E
Ascend
80.00 Set a Limestone 20 x 10 x 6 ins. 15 ins.
in the ground for cor. of Secs.
25 - 30 - 31 and 36,
Marked with 5 notches on N.

22

West boundary of

and / notch on S. edge
and raise a mound of stone
3 ft. base 2 ft. high N. of cor;
Pits impracticable
Land Mountainous
Soil of 2d rate
No Timber
Mountainous land and covered
with dense thorn bushes and
Cacti 80.00 Chs.

S. 1° 13' E. Ld. Exs. 31 and 36
cor. Mountainous land
Ascend
2.00 Ridge bears NE and S.W.
Descend
8.00 Gulch 70 Lks. wide course E.
9.00 Ascend
13.75 Ridge bears S. E. and N.W.
Descend

T 14 S. - R 20 E

160.00 Gulch 20 lks. wide course N. E.
Ascend

20.75 Ridge bears E. and W.
Descend

25.75 Gulch 15 lks. wide course E.
Ascend

28.00 Ridge bears E and W
Descend

31.15 Gulch 35 lks wide Course E.
Ascend

35.25 Ridge bears E. and W.
Descend

38.00 Gulch 50 lks. wide course E 10 chs.
thence N. E.

40.00 Set a Limestone 2f x 1f x 6 ins. 18 ins.
in the ground for ~~Cor. of~~ Secs. 6, 7,
Marked 1/4 S on W face.
Dig pits 2f x 2f x 12 ins
N. and S. of stone 3 ft dist.
and raise a mound of earth

24 West boundary of

and stone 3½ ft base 2 ft high.

42.00 Ridge bears E and W
Descend

52.80 Gulch 20 Lks. wide course S-E
Ascend

56.00 Ridge bears S.E. and N.W.
Descend

57.50 Gulch 50 Lks. wide course E.
Ascend

61.40 Ridge bears E. and W.
Descend

69.20 Gulch 30 Lks. wide course S.E
Ascend

76.00 Ridge bears S.E. and N.W
Descend

78 00 Gulch 25 Lks. wide course S.80°E
Ascend

80.00 The cor. of Tps. 14 and 15
S.— Rs. 19 and 20 E.
Land mountainous

T 14 S. — R. 20 E.

Soil 4th rate
No timber
Mountainous land and
covered with dense Shorn
bushes and Cacte 80.00 chs

January 14th 1902

East boundary of

January 15th; at 8h 20m 10. am
l.m.t., I set off 32° 10'
on the lat. arc: 21° 11'
S. on the dec. arc; and
determine a true
meridian with the Solar
at the cor. of Tps. 14 and
15 S. - Rs. 20 and 21. E
which is a past ~~of~~ ins.
square, properly marked
Not described by the
Surveyor General
The past being decayed in
the ground I cut off the
decayed portion leaving
the stake 30 ins long and
reset it in the oreginal
position 18 ins in the
ground and dug pits
24 x 24 x 12 ins E - W and N

T. 14 S. - R. 20 E.

of cor 4 ft dist. and S. of cor 8 ft. dist. and rais. mound of earth 5 ft. base 2½ ft. high. S. of cor.

Thence I run North on a random line along the East bdy. of Tp. 14 S. R 20 E., setting tmp. ¼ sec. and sec. cors. at intervals of 40.00 chs. and at 47.50 chs. intersect the S. bdy. of Tp 31.45 chs. E. of the cor. of Tps 13 and 14 S. Rs 20 and 21 E. which is a Limestone 8 x 12 x 8 ins above ground formerly set and marked with 6 notches on each edge with mound of stone

East boundary of

West of cor. —

The falling answers to a correction of 3° 47', or 5.39 chs. W. per Mile counting from the S. E cor of the Tp.

Thereon I run

S. 3° 47' E. 64 Lks and 6 over mountainous land Ascend

4.50 1 ft. of high Mountain bears S. E. and N. W. Descend

33.00 Gulch 20 Lks. wide course N. Ascend

The true line being 1.04 chs longer than the random line I add this amount to the 475.50 chs. and at

36.54 Set a Limestone 20×14×8 ins.

T. 14 S. — R. 20 E.

15 ins in the ground for 1/4 Sec. Cor.
Marked 1/4 S on W face, and
raise a mound of stone
3 ft base 2 ft high W. of Cor.
Pits impracticable

37.00 Ridge bears E. slopes W
Descend

43.25 Gulch 30 Lks wide course W.
Ascend

51.00 Ridge bears E. and W.
Descend

68.50 Gulch 40 Lks. wide course N. E.
Ascend

75.00 Ridge bears S. E. and N. W.
Descend

76.54 set a Granite Stone 20 x 10 x 8 ins. 15 ins
in the ground for cor. of Secs.
1-6-7 and 12
Marked with 1 notch on N.
and 5 notches on S edges

30 East boundary of

And raised a mound of
stone 3½ ft. base 2 ft. high
N of cr.

Pits impracticable
Land mountainous
Soil 4th rate
No timber
Mountainous land 76.5 chs.
January 15, 16, and 17, 1902

S 3° 47' E. brt. Decs. 7 and 12
Over mountainous land
Descend
3.50 Ascend
10.00 Ridge bears S. E. and N. W.
Descend
13.80 Gulch 20 lks. wide course N. 60° W.
Ascend
20.00 Ridge bears S. E. and N. W.
Descend

T. 14 S. — R. 20 E.

23.10	Gulch 40 Lks. wide course N. 60° W. Ascend
33.00	Ridge bears E. and W. Descend
37.75	Gulch 20 Lks. wide course S. 75° W. Ascend
40.00	Set a granite stone 24 x 10 x 6 ins. 18 ins. in the ground for 1/4 Sec. Cor. Marked 1/4 S. on W face and raise a mound of stone 3 ft. base 2 ft Light N. of cor Pits impracticable
41.50	Ridge bears E. and W. Descend
51.75	Gulch 10 Lk. wide course W.
53.00	Ascend
60.50	Ridge bears S. E. and N. W. Descend
65.50	Gulch 75 Lks. wide course W.
66.50	Ascend

East boundary of

71.75	Ridge bears E and N. Descend
80.00	Set a Granite Stone 24 x 8 x 6 ins - 12 ins. in the ground for cor. of secs. 7 - 12 - 13 and 18 Marked with 2 notches on N. and 4 notches on S edges and raise a mound of stone 3½ ft. base 2 ft. high W. of cor. Pits impracticable Land Mountainous Soil 4th rate No Timber Mountainous land 80,00 chs
	S 3° 47' E. bet. Secs. 13 and 18 over broken land Descend
14.60	Gulch 50 lks. wide course N 60° W Ascend

T 14 S. — R 20 E

22.00	Ridge brs S. E and N. W. Descend
31.40	Gulch 40 lks. wide course N. W Ascend
39.00	Ridge brs S. E. and N. W. Descend
40.00	Set a Mnute Stone 18x10x5 ins. 12 ins. in the ground for 1/4 Sec. Cor Marked 1/4 S on W. face and raise a mound of stone 3 ft. base 2 ft. high W. of cor Pits impracticable A Mining Shaft 7x9 ft. 60 ft deep bears N 75° W about 5 chs. dist. —
47.40	Gulch 20 lks. wide course N. W. Ascend
53.00	Ridge brs S. E. and N. W. Descend
60.50	Gulch 75 lks. wide course W.

34

East boundary of

Ascend

66.00 Ridge runs S. E. and N. W.

Descend

70.20 Gulch 50 Lks. wide course W.

Ascend

78.50 Ridge runs S. E. and N. W.

Descend

80.00 Set a Granite Stone 20 x 12 x 8 ins 15 ins. in the ground for cor. of secs 13 - 18 - 19 and 24 Marked with 3 notches on N and S. edges. - Dig pits 24 x 24 x 12 ins in each Sec. 5 ft. dist. and raise a mound of earth and stone 5 ft base 2 ft high W. of cor. -

Land rough and hilly

Soil 4th and 3d rate

No Timber

Mountainous land Sagebrush

T 14 S. — R. 20 E.

S. 3° 47' E. bet. Secs 19 and 24.
Over broken land
Descend

3.60 Gulch 40 Lks. wide course N.
Ascend

10.00 Ridge runs E. and W.
Descend

14.75 Wash 30 Lks. wide, course N.

17.00 Wash 35 Lks. wide, course N.

32.60 Wash 40 Lks. wide. course N.
Ascend

35.75 Ridge runs E. and W.
Descend

37.40 Gulch 30 Lks. wide course N.
Ascend

40.00 Set a Granite Stone 24 x 12 x 10 ins 18 ins.
in the ground for 1/4 Sec. cor
Marked 1/4 S. on N. face
Dig pits 24 x 24 x 12 ins. N and S
of Stone 3 ft dist. and raise

36

East boundary of

a mound of Earth and Stone
4 ft. base 1½ ft high W. of cor.

+3.00 Descend

+6.40 Wash 60 Lks wide, course W.

+9.00 Ascend

60.00 Top of Ascend

66.00 Descend

73.50 Wash 20 Lks. wide, course W.
Ascend

80.00 Set a Granite Stone 20×14×10 ins. 15 ins.
in the ground for cor. of Secs.
19. 24. 20 and 30
Marked with 4 Notches on N.
and 2 notches on S edges
Dig pits 24×24×12 ins. in
each Sec 5½ ft dist and raise
a mound of earth 5 ft base
2 ft high. W. of cor.
Land hilly
Soil 3d rate

T. 14 S. – R. 20 E.

No Timber
Mountainous land 80.00 chs.

S 3° 47' E. Set Dcs 25 and 30
Over hilly land
– .15 Road bears E and W,
13.35 Trail bears N.E. and S.W.
14.75 Gulch 50 lks. wide course N.
ascend
17.50 Ridge bears E. and W.
Descend
20.70 Wash 15 lks. wide course N.
37.30 Wash 30 lks. wide course N.
40.00 Set a Granite Stone 20x12x8 ins. 15 ins.
in the ground for 1/4 sec. cor.
Marked 1/4 S. on W. face.
Dig pits 24 x 24 x 12 in. N and
S. of stone 3 ft. dist. and raise
a mound of earth 4 ft base
1/2 ft. high W. of cor.

38 East boundary of

44.40 North 20 Lks. wide course W,
Ascend
54.00 Top of ascent
58.00 Descend
61.10 North 50 Lks. wide course W.
69.00 North 10 Lks. wide course W.
80.00 Set a Limestone 24×12×10 ins. 18 ins.
in the ground for cor of secs.
25-30-31 and 36.
Marked with 5 notches on N. and 1
notch on S edges:—
Dig pits 24×24×2 ins in each
sec. 5½ ft. dist. and raise
a mound of earth 5 ft. base
2 ft. high N. & cor
Land Hilly
Soil 3d and 2d rate
No timber
Mountainous land and covered
with dense undergrowth 80.00 chs.

T 14 S. — R 20 E

	S. 3° 47' E. bet. Secs 31, and 36.
	Over hilly land
4. 85	Wash 1 ch. wide, course W.
6.00	Ascend
12.00	Ridge, bears E. and W.
	Descend rocky hill
14.40	Wash 50 lks. wide course W.
15.00	Ascend
20.70	Ridge and trail bears E. and W.
	Descend
32.00	Wash 50 lks. wide course W.
34.00	Wash 1 ch wide course W.
36.70	Wash 100 lks. wide course W.
	Ascend
39.75	Ridge bears E and W
	Descend
40.00	Set a Granite Stone 20 x 12 x 10 ins. 15 ins.
	in the ground for 1/4 sec. cor.
	Marked T 14 S on W. face
	Dig pits 24 x 24 x 12 ins N. and S.

40 Ext. boundary of T. 4 S. - R. 20 E.

of stone 3 ft. dist. and raise a mound of earth 4 ft. base 1½ ft. high W. of cor.

41.00 Wash 50 lks. wide course W.

42.00 Ascend

46.00 Ridge brow E and W Descend

49.50 Wash 30 lks. wide, course W

52.75 Wash 25 lks. wide, course W.

58.00 Wash 15 lks. wide, course W.

63.70 Wash 20 lks. wide, course W.

68.00 Wash 12 lks. wide, course W.

75.70 Wash 8 lks. wide, course W.

77.00 Wash 12 lks. wide, course W.

80.00 The cor. of Tps. 14 and 15 S., Rs. 20 and 21 E.,

Land hilly and rolling

Soil 2d rate

no timber.

Dense undergrowth of Cotsdam

North boundary of T. 14 S. - R. 20 E.

cacte Palmiello 800 chs

January 18th 1902

January 19.- At 8h 00m A.M. I. M. T. I ~~set~~ off. 32° 15' on the lat. arc.- 20° 24' S. on the dist. arc. and determine, with the Solar, a true meridian at the cor. of Tps. 13 and 14 S. Rs. 20 and 21 E

and run thence West on a random line along the N. bdy of T. 14 S.- R 20 E. setting temp. 1/4 sec., and sec. cors. at intervals of 40 00 chs. and at 46 0.67 chs. intersect the W. bdy. 10.32 chs. S of the cor. of Tps. 13 and 14 S. R 19 and 20 E.- The falling answers

#2 North boundary of

to a correction of 1°17', or
179 Lks. W. per mile counting
from the N. E. cor. of the T6.

→ Thence I run
N. 88° 43' E. bet lines 6 and 31
over mountainous land
Descend

3.70 Gulch 20 Lks. wide course N. 30 E.
Ascend

8.00 Ridge bran N.E. and S.W.
Descend

13.15 Gulch 30 Lks. wide course N.E.
Ascend

15.50 Ridge ~~lines~~ slopes N.
Descend
I add 12 Lks. to the length
of the random line and at

20.79 set a Limestone 18×9×5 ins. 12 ins.
in the ground for 1/4 sec. cor.
marked 1/4 S. on N. face and
raise a mound of stone

T. 14 S. - R. 20 E.

3 ft. base 2 ft. high N. of cor.
Pits impracticable

27.20 Gulch 30 lks. wide course N 30° E
Ascend

31.50 Ridge bears N.E. and S.W.
Descend

35.75 Gulch 20 lks. wide course N. E
Ascend

39.00 Sharp ridge bears N.E and S.W.
Descend very steep bluff

40.50 Bottom of bluff
Descend

48.00 Enter San Pedro Valley
bears N. and S.

60.79 Set a Granite Stone, 8 x 10 x 6 ins. 12 ins.
in the ground for cor. of Sect.
5 - 6 - 31 and 32
marked with 5 notches on E.
and 1 notch on W. edges
Dug pits 24 x 24 x 12 ins. in

44 North boundary of

each sec 5 ¼ ft dist and raise a mound of earth 5 ft. base 2 ft. high N of cor.

Land mountainous and stony

Soil 4th and 1st rate

Timber Mesquite in the valley Mountainous land and some Mesquite undergrowth 60.79 chs.

S 88° 43' E. bet. secs 5 and 32 across San Pedro valley through Mesquite timber

1.20 W. Bank San Pedro River 20 ft. high. descend

1.40 Edge of River 1 ch. wide flows N 45° W.

2.40 East Bank San Pedro River 20 ft. high.

18.70 Benson-Mammoth Road bears S 15° E and N 15° W

T 14 S. — R 20 E.

31.00	Leave Sandrock valley bears N and S.
	Ascend
36.00	Ridge bears N.E. and S.W.
38.00	Descend
40.00	Set a limestone 18×10×5 ins. 12 ins. in the ground for 1/4 Sec. Cor. Marked 1/45 on N face
	From which
	A Mesquite 12 ins. in diam. bears N 22° E 138 lks. dist. Marked 1/4 S. 32 B.T.
	An Ironwood 8 ins. in diam. bears S 66½° E 128 lks. dist. Marked 1/4 S 45 B.T.
40.40	Enter Wash course S. 60° W.
43.00	Leave Wash course S 60° W.
49.00	Ascend Stump hill
52.00	Top of Stump ridge, bears N.E. & S.W.
	Ascend

#6 North boundary of

75.00 Ridge bears N. and S.
Descend

77.70 Gulch 15 Lks. wide course N
Ascend

80.00 Set a granite stone 18x12x8 ins 12 ins
in the ground for cor. of secs.
4-5-32 and 33
Marked with 4 notches on E.
and 2 notches on W. edges
and raise a mound of stone
3½ ft. base 2 ft. high W. of cor
Pits impracticable
Land level and mountainous
Soil 1st and 2d rate
Timber Mesquite
Mountainous land and
covered with dense Mesquite
underbrush 80.00 chs

January 19 and 20-1912

T. 14 S. — R 20 E

S 88° 43' E. bet. Secs. 4 and 33
Over Mountainous land
Ascend
12.00 Ridge bears N.E. and S.W.
Descend along S slope of ridge
40.00 Set a Granite stone 18 x 10 x 8 ins. 12 ins.
in the ground for 1/4 Sec. cor.
Marked 1/4 S on N. face.
From Which
A Mesquite 10 ins. in diam.
bears N 68° E 1 3/4 lks. dist.
Marked 1/4 S. 33 - B.T.
An Ironwood 5 ins. in diam.
bears S 61 1/2° E 78 lks. dist.
Marked 1/4 S. 4 B.T.
42.00 Gulch 50 Lks. wide course S 60° W
Ascend
58.00 Ridge bears N.E. and S.W.
Descend
80.00 Set a Granite stone 24 x 12 x 6 ins. 18 ins.

48 North boundary of

in the ground for cor of secs.
3-4-33 and 34.
Marked with 3 notches on E and
W edges.-
From which
A Mesquite 8ins. in diam.
bears N.40° W 2 1/2 lks. dist.
Marked T 13S.-R 20 E S 33 B.T.
No other trees within limits
and raise a mound of stone
3 1/2 ft. base 2 1/2 ft high W. of cor.
Pits impracticable
Land Mountainous.
Soil & rocks
Timber Scattering Mesquite
Mountainous land 80.00 chs.

S 88° 45' E bet. Secs. 3 and 34
over Mountainous land
1-50 Descend bluff into Kelsey Canon

T. 14 S. – R. 20 E.

2.50 Bottom of Kibsey. Canon 150 ft. deep course S. W.

4.75 Ascend left wall of Canon

6.00 Top of Canon Wall bears N. E. & S. W. Ascend ridge

21.00 Ridge bears E. and S. W. Descend

26.30 Gulch 30 lks. wide course S. W. Ascend

34.75 Ridge bears N E. and S. W Descend

40.00 Set a Granite stone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 Sec. Cor. Marked 1/4 S on N. face.

Dig pits 24 x 24 x 12 ins. E and N. of stone 3 ft. dist. and raise a mound of sand and stone 4 ft. base 2 ft. high N of cor. Thence along S. slope of ridge

58.50 Descend

50 North boundary of

8.00 Set a Granite Stone 20 x 12 x 5 ins. 15 ins.
in the ground for cor of secs
2- 3- 34 and 35 —
Marked with 2 notches on E.
and 4 notches on Mdpos
~~From~~ which
A Mesquite 8 ins. in diam.
bears N 50½° E 246 lks. dist.
Marked T 13 S. R 20 E S 35 B.T.
A Mesquite 10 ins. in diam.
bears S 83¾° E 302 lks. dist.
Marked T. 14 S. R 20 E S 2 B.T.
no other trees within limit,
and raise a mound of stone
3½ ft base. 2 ft high N of cor.
~~Sets impracticable~~
Land Mountainous
Soil 4th rate
Timber Scattering Mesquite
Mountainous land 8.00 chs.

T. 14 S. - R. 20 E.

S 58° E 3 E. bet. Secs 2 and 35
Over mountainous land
,50 Gulch 50 Lks. wide course N 60° W
Ascend
8.00 S. W. end of Ridge bears N. E
Descend along S. slope of ridge
73,60 Same Gulch 40 Lks wide course S 75° W.
Ascend
34.00 Top of Ridge bears N 35 E and S 70 W.
40.00 Set a Granite stone 18 x 12 x 8 ins. 12 ins. in the ground for 1/4 Sec cor.
Marked 1/4 S on N face and raise a mound of stone 3 ft. base 2 ft. high N. of cor.
Pits impracticable
70.50 Ridge bears N 30° E and S. 30 W
Descend
80.00 Set a Granite Stone 20 x 10 x 6 ins 15 ins in the ground for cor. of Secs.
1 - 2 - 35 and 36

5 2 North boundary of

Marked with 1 notch on E & and 5 notches on Ridges and raise a mound of stone 3½ ft base 2 ft high Pits/cor.

Pits impracticable

Land Mountainous

Soil & Rate

No Timber

Mountainous land 80 rods

S 88° 45' E bet. Secs. 1 and 36 Over mountainous land

Ascend

6.75 Ridge bears N.E. and S.W

Descend

16.00 Gulch 35 Lks. wide course South

Ascend

19.60 Ridge bears N.E and S.W

Descend

24.70 Gulch 30 Lks. wide course S.W

T 14 S. — R. 20 E.

	Ascend
27.10	Ridge brs N.E. and S.W.
	Descend
29.20	Gulch 3 Lks. wide course S.W.
	Ascend
37.00	Ridge brs N.E. and S.W.
	Descend
40.00	Set a Granite Stone 20x10x6 ins. 15 ins. in the ground for 1/4 Sec. Cor. Marked 1/4 S on N. face and raise a mound of stone 3 ft. base 2 ft. high N of cor. Pits impracticable
40.40	Gulch 20 Lks. wide course South
	Ascend
44.00	Ridge brs N. and S.
	Descend
49.60	Gulch 30 Lks. wide course S 60° W
	Ascend
54.00	Ridge brs N and S

54 North boundary of

57.55 Wire fence bears N15°E and S.15°W.

58.50 Gulch 20 lks. wide course S.W Ascend steep mountain

75.25 Top of mountain bears S.E. and N.W. Descend

80.00 The cor. of Tps. 13 and 14 S., Rs. 20 and 21 E.

Land Mountainous

Soil of the rate

No Timber

Mountainous Land 80.00 chs

January 31st 1902

Note

I carefully chained four miles of the South bdy. of this Tp. and I find the line bet. Secs. 6 and 31. to be 80.45 chs. in place of 79.30 chs. as given in the original field notes

T 14 S. - R 20 E

General Description

These boundaries for the most part pass over very rugged broken land the surface is rocky and covered with various thorn bushes. -

There is considerable evidence of mineral bearing rock in the N. E portion of the Tp. -

Francis Jacobs
U.S. Deputy Surveyor

5-6

Boundaries of T. 14 S. - R. 20 E.

Latitudes, departures and closing errors

Line designated	True Brng.	Distance	Latitudes		Departures	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Bdy.	S89°54'E	480.45	S	.84	480.45	
East Bdy.	N.3° 47'W.	476.54	475.60			31.44
North Bdy.	N88°43'W	460.79	10.32			460.67
West Bdy.	S 1° 13'E	486.41		486.30	10.33	
Convergency						.46
Totals			485.82	487.14	490.78	492.57
				5.82		.78
		Error in Lat.		1.32	Error in Dep.	1.79

BOOK 1544

APPROVAL.

OFFICE OF THE U. S. SURVEYOR GENERAL.

Phoenix, Arizona.

Dec. 10. 1902.

The foregoing field notes of the survey of East, West & North Bdys. Tp. 14 South, Range 20 East executed by F. B. Jacobs D. S. under his contract No. 81 dated May 23 1901, having critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Hugh K. Price

U.S. Surveyor. for Arizona.