

SOUTH BOUNDARY
ONE MILE of EAST BOUNDARY
Township N° 19 S. Range N° 28 E.

1538

1538

BOOK 1538

4-671

FIELD NOTES
GENERAL LAND OFFICE.

1538

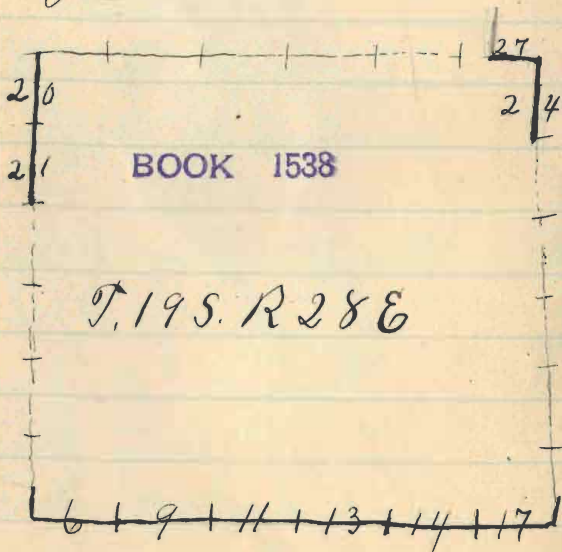
BOOK 1538

Field Notes
of the survey of the
South Boundary, Portion
of E. Bdy and Retracement
Portion of West Boundary
of
Twp. No. 19 S. Range No. 2 & 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.
Dated

Survey commenced February 15th 1902
Survey completed

Survey S. Body of
Names and duties of
assistants

Harry R. Collins Chairman
Wendell L. Boulden Chairman
James S. Henderson Boardman
Rogge Herreros Assman
Joy Jacobs Flagman



Tp 195. R 28 E

BOOK 1538

4

Survey of the South Bdy

BOOK 1538

T. 19 S. R 28 E

Survey commenced February
15th -

The description of the
transit and also of the observation
on Polaris and adjustments
of the instrument were recorded
in the first book of the
subdivisions hereof - by
mistake

Survey South Body

chs

From the cor Townships
19+20 S. Ranges 28+29 E.
I run

West on random line
on S. Body T. 19 S. R. 28 E.

492.75

Set ^{up} ^{1/4} ^{cor} ^{and} ^{corners}
Intersect W. body of Tps
308 links S of cor Tps 19+20
S. R. 27+28 E, which is
a malpais stone 12x10x6 ins
above ground, with six
notches on each edge and
mound of stone W. of cor.
Thence I run

S. 89° 39' E on true line
bet sees 6 and 31 over
mountainous land.

31.24

Descend rock 24x12x10 ins

18.80

Trail by N.E. slope S.W.
and low place in ridge
then E of and W. base

9. 195. R 28 E

BOOK 1538

7

chs

Ascribed N. of cor.

27.00

Dissectible

31.20

Descend very steep bluff.

33.60

Bottom of bluff + edge of wash 120 yds wide course N. E.

Well 30 ft deep, good water brs S. 8 chs.

35.00

Ascend high mountain

52.75

Set granite rock 24x12x10 ins 18 ins in ground for $\frac{1}{4}$ sec cor marked "4" on N. face raise mound of stone 2 ft base $1\frac{1}{2}$ ft high N. of cor. Pits impracticable

92.75

Set granite rock 20x12x10 ins 14 ins in ground for cor sees. 5, 6, 31 and 32 marked with 5 notches on

Survey South Bdy

East and 1 notch on W. edges.

An oak 10 ins diam
brs N. $39\frac{1}{2}^{\circ}$ E, 66 lks dist-
marked T. 19 S. R 28 E S. 32
B. T.

An oak 8 ins diam brs
S. $68\frac{1}{2}^{\circ}$ E, 72 lks dist-
marked T. 20 S. R 28 E. S. 5 B. S.

An oak 12 ins diam brs
S. $15\frac{3}{4}^{\circ}$ W. 133 lks dist, marked
T. 20 S. R 28 E. S. 6 B. S.

An oak 18 ins diam brs
N. $14\frac{1}{4}^{\circ}$ W, 141 lks dist, marked
T. 19 S. R 28 E. S. 31 B. S.

Land mountainous
Soil 4th rate

Timber scattering oak
Mountainous land ~~4~~^{22.75} chs.
February 16-17 and 18 - 1907
was 3 days on this line on account of not finding

T. 19 S. R. 28 E

obs

S $89^{\circ} 39' E$ bet secs 5 + 32

Over mountainous land,

11.00 Top of mountain 1000ft-high

25.00 Descent very steep

40.00 Sil-granite rock $18 \times 12 \times 8$ ins12 ins in ground for $\frac{1}{4}$ sec
cor. marked $\frac{1}{4}$ on N. face, raise
mound of stone 2ft-base $1\frac{1}{2}$ ft-
high N. of cor.

An oak 14 ins diam br

N. $65\frac{1}{4}^{\circ} W$, 198 lks dist marked $\frac{1}{4}$ S. B. Y.

Descend

44.00 Gulch 30 lks wide course N.E.

59.00 Entire pasture; Frank Moore's
wire fence br S.E. + N.W.

60.00 Descend

✓ 69.00 Gulch 40 lks wide course

N. $10^{\circ} E$.

Ascend

Survey South Body

cls	
74.00	Top of ridge brs N. + S. Descend
80.00	Get limestone 24 X 10 X 4 ins 18 ins in ground for cor secs 4, 5, 32 and 33 marked 4 notches on E. and 2 on W. edges. An oak 8 ins diam brs. N. 4 1/4 E. 143 lks dist, marked T. 19 S. R 28 E. S. 33 B. T. An oak 14 ins diam brs S. 7 1/2 E. 35 lks dist marked T. 20 S. R 28 E. S 4 B T. A Juniper 24 ins diam brs N. 86 1/2 W. 195 lks dist mark. ed T. 19 S. R 28 E S. 32 B. S. Raise mound of stone 2 ft base 2 1/2 ft high W. of cor. Land maintenance Soil 3 rd + 4 th rate

T. 19 S. R. 28 E.

chs

Mountainous land 80 chs

S. 89° 39' E bet sees 4 + 33

Leadore fracture

6.00 Frank Moores wire fence
brs N.E. + S.W.

28.00 Descend into valley.

28.30 Gulch 30 fms wide course N.

40.00 Set ^{granite} stone 18 x 12 x 6 ins. 12 ins

in the ground for 1/4 sec cor.

marked 1/4 on N. face dig pits.

24 x 24 x 12 ins E and W of stone 3 ft dist.

and raise a mound of earth 4 ft base 1/2 ft high ^{cor}

48.20 Road brs S. 20° E. +

61.00 Leave valley

72.00 Ascend

80.00 Set granite boulder 18 x 10 x 8
ins 12 ins in ground for cor
sees 3, 4, 33 and 34
marked with 3 notches on

Survey S. Bdy
cls

E. and 3 or 4 edges
diag pits 18x18x12 ins in
each sec 5-1/2 ft-dist; and
raise a mound of earth
4 ft-base, 2 ft-high N. of cor.
An Oak 6 ins diam tree
S. 16 1/2° E, 190 lks dist, marked
T. 20 S. R 28 E S. 3 B T.

An Oak 16 ins diam tree
S. 13 3/4° W. 112 lks, marked
T. 20 S. R. 28 E S. 4 B T.

This cor is on the N. slope
of ridge 100 ft high
Land broken
Sail 3¢ rate

Timber scattering oak
mountainous land
50.00 charis

Lat-at this cor 31° 47'

T. 19 S. R. 28 E. BOOK 1538

chs	S. $89^{\circ} 39' E$ bet secs 3 + 34
	Descend N. slope of ridge
9.00	Enter wash course N. $60^{\circ} W$
15.00	Leave wash
30.00	Ascend
37.00	Descend
39.00	Ravine 30 fms wide, course S. W.
40.00	Set granite rock $20 \times 14 \times 6$ ins 14 ins in ground for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N. face dig pits $18 \times 18 \times 12$ ins E + N. of stone 3 ft dist raise mound of earth $3\frac{1}{2}$ ft- base $1\frac{1}{2}$ ft-high N. of cor.
62.00	Ascend Along N. slope of ridge
80.00	Set granite boulder $24 \times$ 12×6 ins, 18 ins in ground for cor secs 2, 3, 34 + 35 marked with 2 notches

Survey South Body
cls

on E + 4 on W. edges
Dig pits 18X18X12 ins
in each sec 5 1/2 ft.
dist, raise mound
of earth 4 ft base
2 ft high W. of cor.
Land broken.

Soil 3^d rate
Timber scattering oak
Mountainous land
80,000 acres

S. 89°-39' E bet secs
2 + 35. Over broken
hilly land, Ascend

9.00 Ridge bet S.W + N.W.
Descend

19.20 Gulch 3-4ths wide course N.E.

28.00 Ascend

30.00 Top of ascent

T. 19 S. R. 28 E.

- dis
 34.50 Short gulch, course N.
 Descend along N. slope
 of ridge.
- 40.00 Sit granite boulder 18x
 10x6 ins, 12 ins in grd
 for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face; dig pits
 18x18x12 ins E. and W. of
 stone 3 ft dist, & raise
 a mound of earth
 3 $\frac{1}{2}$ ft base 1 $\frac{1}{2}$ ft high
 N. of cor.
- 42.00 Descend
- 42.80 Gulch 20 ft wide, course N. W.
 Ascend
- 57.00 Ridge bet S. E. & N. W.
 Descend steep hill
- 67.00 Enter valley.
- 68.00 Gulch 50 ft wide course N. 20° W.
- 71.75 Wood road C. C. to R

Survey South Body

ch

75.80

Gulch 10 lks wide, course N. W.

78.80

O'Keefe's wire fence brs
E. S. E. + N. N. W.

80.00

Set malpais rock 20X12X8 ins
14 ins in ground for course
1, 2, 35 + 36, marked with
1 notch on E. and 5 on W.
edges.An Oak 30 ins diam brs
S 30° E, 15-4 lks dist marked
T. 20 S. R. 28 E. S. 1 B. Y.An Oak 14 ins diam brs
S. 50° W. 15-7 lks dist. marked
T. 20 S. R. 28 E. S. 2 B. Y.An oak 36 ins diam brs
N. 76 1/2° W 113 lks dist, marked
T. 19 S. R. 28 E. S. 35-B. Y.Dig pits 18X18X12 ins in
each sec 5 1/2 ft dist +
raise mound of earth

T. 19 S. R. 28 E

chs

4 ft base, 2 ft high N.
of cor.Soil 1st + 3^d rateTimber ~~at~~ ^{at} ~~spring~~ ^{spring}
Dakota

Mountainous land

80.00 chains

S. 89° 39' E bet secs 1 + 36

Over mountainous land

10.00 Enter valley

32.00 Ascend

40.00 Set malpais rock 16x10x5 ins

10 ins in ground for
1/4 sec. cor. marked 1/4 on
N. face; dig pits 18x18x12
ins E + W of stone 3 ft
dist and raise mound
of earth 8 1/2 ft base
1 1/2 ft high N. of cor.

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Survey South Bdy

cls

- 61.00 Ridge brs E. and W.
Descend
- 78.50 O'Keefe's wire fence
brs N.N.E. + S.S.W.
- 80.00 Cov. Trs 19 + 20 S. Rs
28 + 29 E.
Soil 1st + 3^d rate
Timber Oak + Juniper
to S. of line
Mountainous land
80.00 chains
-

BOOK 1538

19

T. 19 S. R 28 E

Retracement of Two Miles

chs

- From the cor of Tps
18 and 19 S. R. 27 and 28 E
I run
S $4^{\circ}-41'E$ bet secs 1 and 6
- 1.50 Shunga wash 30 lks wide
course N. W.
- 48-48 The old $\frac{1}{4}$ sec cor.
I set granite $18 \times 14 \times 5$ ins
12 ins in ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on
N. face; dig pits $18 \times 18 \times 12$
ins N. and S. of stone
3 ft dist, and raise
a mound of earth $3\frac{1}{2}$ ft
base, $1\frac{1}{2}$ ft high N. of cor.
- 88.90 The cor of secs 1, 6, 7 and 12
I set granite rock $18 \times 12 \times 6$ ins
12 ins in ground, mark
1 notch on N. and 5- on
S. edges; dig pits $18 \times$

W. Bdy Twp 19 S. R 25 E

chs

18x12 ins in each sec
5 1/2 ft dist, and raise
a mound of earth
4 ft base, 2 ft high
H. of cor.

S. 4° 41' E bet secs 7 and 12

32.00 Descend

40.38 The 1/4 cor.

Set granite rock 24x12x
6 ins, 18 ins in ground
for 1/4 sec. cor. marked
1/4 on W. face; dig pits
18x18x12 ins N. and S. of
stone 3 ft dist, and
raise mound of earth
3 1/2 ft base 1 1/2 ft high
H. of cor.

41.00 Road from Tombstone

Retracement of Portion
 chs

- to Churichuanas bears
 E. N. E. and W. S. W.
- 46.00 Enter valley bears S. E. &
 N. W. covered with mes-
 quite undergrowth.
- 65.60 Wash 1 chain wide course
 N. W.
- 80.78 The cor of secs 7, 12, 13 & 18
 set Granite rock 24x10x
 5 ins, 18 ins in ground
 for new cor secs 7, 12, 13 & 18
 marked 2 notches on N.
 and 4 on S. edges.
 Dig pits 18x18x12 ins in
 each sec 5 1/2 ft dia
 and raise mound of
 earth 4 ft base, 2 ft high
 W. of cor.
- February 19th 1902

H. Body T. 19 S. R 28 E

Note

I spent three days in hunting the Tpr core. The corners on the N. two miles of the West Boundary could not be found only by retracing the line which I did, and reestablished the corners. —

These two miles of the N. Body, are not included in the account

Survey Portion & Body

From the cor, secs
1, 6, 7 and 12 on the
East boundary, which
is

- I run north bet secs 1 + 6
Ascend
- 7.00 Mountainous ridge 350
ft above the cor brs E + W.
Descend steep, rocky
hill, through oak timber.
- 28.20 Road brs E. and W.
- 29.00 Gulch 200ks wide, course W.
Ascend
- 34.00 Ridge brs E. and W.
Descend
- 38.85 Bottom steep bank and
gulch 1 chain wide
course West

T. 19 S. R. 28 E

chs

- 40.00 Set granite boulder
18 x 12 x 6 ins 12 ins in
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face.
An Oak 24 ins diam brs
S. $76^{\circ}15'E$ 52 lks dist
marked $\frac{1}{4}$ S. B.T.
An Oak 8 ins diam brs
S. $37^{\circ}W$, 50 lks dist marked
 $\frac{1}{4}$ S B.T.

42.00 Ascend

46.00 Ridge slopes West
Descend50.10 Gulch 25 lks wide course
S. W. Ascend60.00 Ridge brs E. and W.
Thence along E. slope of
mountain

71.00 Descend

81.50 Gulch 30 lks wide course

Survey Portion E. Bdy
 chs

S. 70° W. Ascend

92.5-5- Intersect N. Bdy of Tps
 5-5:72 chains E. of Tps cor
 which is plainly vis-
 ible on N. E. slope of
 high Knoll.

I set a granite $24 \times 16 \times 12$ ins
 18 ins in ground for C.C.
 Tps 19 S. R. 28 and 29 E
 marked C.C. on S, with
 6 grooves on S. E and W.
 faces. raise mound
 of stone 4 ft base, 3 ft high
 S. of cor. Pits impracti-
 cable.

A Spruce 8 ins diam
 hrs. S. $40^{\circ} 13' E$, 24 2 1/2 dist
 marked T. 19 S. R. 29 E. S 6 B. Y.
 An Oak 12 ins diam. hrs
 S. $18^{\circ} 30' W$, 34 1/2 dist, marked

T. 19 S. R 28 E.

cls

T. 19 S. R 28 E. S. 1 B. 7.

I change the cov. Tps
18 + 19 S. R. 28 + 29 E. to
cov. common to two
Tps by obliterating the
six marks on S. edge
+ child Cl. on N. face; raise ind. elev. 4 x 3 ft. N. of cov.
Land mountainous
Soil 4th rate.

Timber Oak + Juniper.
Mountainous land
92.5-5 chains

From cov Tps 19 S. R. 28
and 29 E. just es-
tablished by me I run
West bet sec 1 + 31

2.00 Rocky ridge bet S.E. + N.W.
Descend along S. slope
of ridge

22.00 Gulch, 15-lks wide, course S.

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Survey Portion E. Bdy
chs

- Ascend
40.00 Ridge slopes N. E.
Descend
48.50 Gulch 100ks wide course N.
Ascend steep moun-
tain.
55.72 The cor of Tps 18 S. R. 28 +
29 E.

Land mountainous
Soil 4th rate
Timber oak + juniper
Mountainous land

6-5-72 chains
February 23^d 1902

Francis B. Jacobs
U.S. Deputy Surveyor

T. 19 S. R. 28 E.

Boundaries of T. 19 S. R. 28 E.
 Latitudes Departures and
 Closing Errors

LINE	True Brg.	Distance	Latitudes.		Departures	
			N	S	E	W
East Bdy.	South	492.55		492.55		
South Bdy.	N 89° 39' W	492.75	3.08			492.74
West Bdy.	N 4° 41' W	489.68	488.04			39.98
North Bdy.	East	534.82			534.82	
Convergency					.45	
			491.01	492.55	535.27	532.72
					101	532.72
		error in Lat.	-	1.54	2.55	non in closure

adjusted

BOOK 1538

APPROVAL. BOOK 1538

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OFFICE OF THE U. S. SURVEYOR GENERAL.

Phoenix, Arizona.

Dec. 10-1902.

The foregoing field notes of the survey of I bdy, 1 mile of E. Bdy + retracement portion of Bdy Sp. 19 & R. 28 E., executed by F. B. Jacobs, D. I. 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 H. Price
U. S. Sur. Gen. for Arizona.