

a Portion Book "A"  
of the NORTH AND SOUTH BOUNDARIES

T. 18 N.

R. 1 E.

CONTRACT No 103

HESSE

1382

No. 1382

BOOK 1382

4-671

**FIELD NOTES**  
**GENERAL LAND OFFICE.**

See Retracement S. Ddy 717 N P 1 E  
by Hesse.

ex  
~~(Copied Jan. 20/04 G.M.)~~

files July 3/03

Copied by C.M.A. 4/10/04

Compared by G.M.S. & C.M.A. 7/25/04

acct. checked G.M.S. also 7/13/04

BOOK 1382

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No. 1382

BOOK 1382

Field Notes  
of the survey of ~~the~~ a portion  
of the North and South Boundaries  
of  
Township 18 N. Range 1 East  
of the  
Gila and Salt River  
Base and Meridian  
in the  
Territory of Arizona  
as surveyed by  
John P. Hesse  
U. S. Deputy Surveyor  
Under his contract No. 103  
Dated September 27, 1902

Survey commenced  
February 1<sup>st</sup> 1903.  
Survey completed  
February 6<sup>th</sup> 1903

1A

Names and duties of assistants  
 Russel C. Stone Chairman  
 William O. Grimes Chairman  
 Reuben W. Dewitt Axman  
 Joe O. Landers Plagman.

BOOK 1382

T19N 36  
 R1E

T19N.R2E.

21 20

T18N R1E 2

1

T18N.R1E

T18N.R1E.

31	32	33	34	35	36
16	14	12	10	9	7
6	5	4	3	2	1

T17N.R1E.



18

PRELIMINARY OATHS OF ASSISTANTS.

We, Russel C. Stone  
and Willom O. Grimes

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 distance to all notable objects, and the true length 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

North and South boundaries  
of Pp. 18 N. Rg. 1 E.

BOOK 1882

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

Russel C. Stone, Chainman.  
Willom O. Grimes, Chainman.  
\_\_\_\_\_, Chainman.  
\_\_\_\_\_, Chainman.

Subscribed and sworn to before me this first day  
of February, 1903.

John P. Kesse

Notary Public.

U. S. Deputy Surveyor

[SEAL.]

1 BB

We, Joe O. Landers,  
and Reuben W. Delkitt,  
do solemnly swear that we will well and truly perform the duties of  
flagman and axmen, in the establishment of corners and other duties,  
according to instructions given us, to the best of our skill and ability, in  
the survey of the North and South  
boundaries of Pp. 18 N. Rg. 1 E.

BOOK  
1382

of the Gila and Salt River Base and Meridian, in the Territory of  
Arizona.

Joe O. Landers, Flagman.  
Reuben W. Delkitt, Axman.  
\_\_\_\_\_, Axman.  
\_\_\_\_\_, Axman.

Subscribed and sworn to before me this first day  
of February, 1903

John P. Hesse  
Notary Public.  
U. S. Deputy Surveyor

South boundary Pp. 18 N. Rg. 1 E. 10

Chains

Survey commenced  
February 1<sup>st</sup> 1903, and  
executed with a J. C. Sala  
light mountain transit  
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. Transit not  
numbered.

I examine the adjust-  
ments of the transit, and  
find it correct; then, to  
test the solar apparatus,  
by comparing its indi-  
cations, resulting from



South boundary Pps. 18 N. Rgs. 1 E.  
chains

solar observations made during a. m. and p. m. hours, with a true meridian determined by observations on Polaris, I proceed as follows: At the cor. of Pps. 17 and 18 N., Rgs. 1 and 2 E. of the Gila and Salt River Meridian; latitude  $34^{\circ}55'12''$  N., longitude  $112^{\circ}18'14''$  W. at  $10^{\text{h}}36^{\text{m}}$  p. m., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a stake driven firmly in the ground, 6 chs.

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South boundary Pp. 18 N. Pg. 16.

chains

N. of my station

February 1<sup>st</sup> 1903

February 2<sup>nd</sup> <sup>1903</sup> At 7<sup>h</sup> 30<sup>m</sup> a. m.,  
 l. m. t., I lay off the  
 azimuth of Polaris,  $1^{\circ} 29'$   
 to the east, and mark the  
 true meridian thus  
 determined, by a tack  
 driven in a stake set  
 firmly in the ground.  
 At 8<sup>h</sup> 00<sup>m</sup> a. m., l. m. t.,  
 I set off  $55^{\circ} 06' N$  for my  
 co-latitude;  $16^{\circ} 59' S$  for  
 my declination; and  
 mark a point in the  
 true meridian determined  
 with the solar on the  
 stake already set 6

29

At the cor. of Pps. 17 and  
18 N. Rys. 1 and 2 E. I  
set off  $34^{\circ}55'$  N. on the  
lat. arc;  $17^{\circ}10'$  S. on  
the decl. arc; and at  
 $4^{\text{h}}00^{\text{m}}$  p. m. l. m. t.  
determine a meridian  
with the solar.

South boundary  $P_i 18 N. Rg. 1 E.$   
chains

chs N. of my station;  
this mark falls on the  
true meridian established  
by the Polaris observation.

The solar apparatus,  
by a. m. and p. m.  
observations, defines  
positions for true  
meridians, which  
co-incide with the  
meridian established  
by the Polaris observation;  
therefore I conclude  
that the adjustments  
of the instrument are  
satisfactory.

The magnetic bearing  
of the true meridian,  
at 9<sup>h</sup>00<sup>m</sup> a. m., is  $N. 14^\circ W$ ;  
the angle thus determined,



South boundary Pps. 18 N. Rq. 1 E.  
Chains

reduced by the table,  
page 100, gives the mean  
mag. decl.  $14^{\circ}$  E.

February 2, 1903

February 3: At  $8^{\text{h}} 00^{\text{m}}$  a. m.  
l. m. t. I set off  $55^{\circ} 06' N$   
for my co-latitude;  $16^{\circ} 41'$   
for my declination; and  
determine a true meridian  
with the solar at the  
cor. of Pps. 17 and 18 N.  
Rq. 1 and 2 E. which is  
a sandstone firmly set  
in the ground and  
marked and witnessed  
as described by the  
surveyor general  
Phinck I run

South boundary Twp. 18 N. Rg. 1 E.  
chains

West on a random line,  
along the S. bdy. of Twp.  
18 N. Rg. 1 E. setting temp.  
1/4 sec. and sec. cors. at  
intervals of 40.00 chs.  
for 440 chs., then continue  
west without setting  
temp cors. and at 145.34  
chs. intersect the G. &  
S. R. Meridian ~~7.20~~<sup>7.50</sup> chs  
N. of the cor. of Tps. 17 and  
18 N. Rgs. 1 E. and 1 W.

Feb. 3 and 4, 1903.

February 5: At 8<sup>h</sup> 00<sup>m</sup> a.m.  
l. m. t. I set off 55° 06' N  
for my co-latitude; 16°  
06' S. for my declination  
and determine a true

South boundary Tps. 18 N. Rgs. 16

Chains

meridian at the cor.  
of Tps. 17 and 18 N. Rgs.  
1 and 2 E. previously  
described

Thence I run  
West on a true line  
bet secs 1 and 36.

Over rolling mountains

0.53 Cross road, bears N. and S.

2.25 Cross wash, course N. W.

16.40 Cross wash, course N. and  
enter very scattering  
timber.

40.00 Set a sand stone 16 x 10 x 3 ins. 11 ins.

in the ground for  $\frac{1}{4}$  sec.  
cor. marked  $\frac{1}{4}$  on N. face  
from which

A cedar, 3 ins. diam. bears S.  $85\frac{1}{2}^{\circ}$  W.

110 lks. dist. marked 1/4 S 1 BT

and raised a mound



## S. boundary Tp. 18 N. Rg. 1 E.

Chains

of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor.

43.35 Cross wash, course N. E.  
 56.75 Cross wash, course N.  
 61.90 Cross wash, course N. W.  
 80.00 Set a lime stone  $10 \times 12 \times 10$  ins. 11 ins  
 in the ground

for cor. of  
 secs. 1, 2, 35 and 36, marked with 1 notches  
 on E. and 5 notches on W. edges; from which  
 A cedar, 6 ins. diam. bears N  $46\frac{1}{2}^{\circ}$  E.  
 72 lks. dist. marked T 18 N R 1 E

S 36 B T

A cedar, 8 ins. diam. bears S  $41^{\circ}$  E.  
 159 lks. dist. marked T 17 N R 1 E

S 1 B T

A cedar, 8 ins. diam. bears S  $73\frac{1}{4}^{\circ}$  W.  
 18 lks. dist. marked T 17 N R 1 E

S 2 B T

A cedar, 8 ins. diam. bears N  $4\frac{1}{4}^{\circ}$  W.  
 71 lks. dist. marked T 18 N R 1 E

S 35 B T

Land, mountainous.  
 Soil, rocky and gravelly;  
 $4\frac{4}{11}$  rate.

South boundary of Twp. 18 N. Rg. 1 E.

Chains

Timber, cedar.

Mountainous land 80.00  
chains

West bet. secs. 2 and 35  
Over rolling mountains  
through scattering timber.

24.40 Cross wash in deep canon  
course N.

40.00 Set a conglomerate stone 18 x 14 x 12 ins. 12 ins.

in the ground for  $\frac{1}{4}$  sec.  
cor.; marked  $\frac{1}{4}$  on N. face; from which

A cedar 14 ins. diam. bears N.  $79^{\circ}$  E.

44 lbs. marked  $\frac{1}{4}$  S 35 B T

A cedar 6 ins. diam. bears S.  $71\frac{1}{2}^{\circ}$  W.

32 lbs. marked  $\frac{1}{4}$  S 2 B T

42.10 Cross wash, course N.

62.15 Cross wash, course N. E.

80.00 Set a lime stone 18 x 8 x 8 ins. 12  
ins in the ground for cor. of  
secs. 2, 3, 34 and 35, marked with 2 notches  
on E and 4 notches on W edges; from which

South boundary of Tp. 18 N. Rg. 1 E.

Chains

A cedar, 6 ins. diam. bears  $N 22\frac{3}{4}^{\circ} E$ .  
 60 lks. dist. marked T 18 N R 1 E

S 35 B T

A cedar, 3 ins. diam. bears  $S 76\frac{1}{4}^{\circ} E$ .  
 12 lks. dist. marked T 12 N R 1 E

S 2 B T

A cedar, 4 ins. diam. bears  $S 42\frac{1}{2}^{\circ} W$ .  
 22 lks. dist. marked T 17 N R 1 E

S 3 B T

A cedar, 4 ins. diam. bears  $N 20^{\circ} W$ .  
 50 lks. dist. marked T 18 N R 1 E

S 34 B T

Land, mountainous.

Soil, rocky and gravelly;  
 4<sup>th</sup> rate.

Timber, cedar.

Mountainous land 80.00  
 chs.

West bet. secs. 3 and 34

Over rolling mountains  
 through cedar timber.



South boundary of Pp. 18 N. Rg. 1 E.

Chains

- 3.50 Cross wash, course N.W.
- 40.00 Set a lime stone 18 x 6 x 6 ins. 12  
ins. in the ground for  $\frac{1}{4}$  sec.  
 cor.; marked  $\frac{1}{4}$  on N. face; from which  
 A cedar 6 ins. diam. bears N. 72° E.  
75 lks. marked  $\frac{1}{4}$  S 34 B T  
 A cedar 6 ins. diam. bears S 88° W.  
50 lks. marked  $\frac{1}{4}$  S 3 B T.
- 43.05 Cross wash, course N.W.
- 47.40 Cross wash, course N.E. and  
 timber becomes scattering.
- 79.45 Cross wash, course N.E.
- 80.00 Set a lime stone 18 x 12 x 10 ins. 12  
ins. in the ground for cor. of  
 secs. 3, 4, 33 and 34, marked with 3 notches  
 on E. and 3 notches on W. edges; from which  
 A cedar, 10 ins. diam. bears N 76 $\frac{3}{4}$ ° E.  
99 lks. dist. marked T 18 N R 1 E  
S 34 B T  
 A cedar, 6 ins. diam. bears S 58° E.  
83 lks. dist. marked T 17 N R 1 E  
S 3 B T  
 A cedar, 12 ins. diam. bears S 41 $\frac{3}{4}$ ° W.  
108 lks. dist. marked T 17 N R 1 E  
S 4 B T

South boundary of T<sub>1</sub>. 18 N. R<sub>1</sub>. 1 E.  
chains

No other tree available;  
raised a mound of stone  
2 ft. base 1 1/2 ft. high W.  
of cor. Pit impracticable  
Land, mountainous  
Soil, rocky and gravelly;  
4<sup>th</sup> rate.

Timber, cedar.

Mountainous and heavily  
timbered land, 80.00 chs.

West bet. secs. 4 and 33

Over rolling mountains  
through scattering cedars.

11.90 Cross wash, course N.

18.20 Cross wash, course N. E.

30.00 Cross wash in cañon,  
course N. E.

40.00 Set a lime stone 18 x 10 x 8 ins. in

South boundary Pp. 18 N. Rg. 1 E.

Chains

a mound of stone for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N.

face; from which

A cedar, 6 ins. diam. bears N  $8\frac{1}{2}^{\circ}$  W.

91 lks. dist. marked  $\frac{1}{4}$  S 4 BT

and raised a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable

80.00 Set a lime stone 16 x 12 x 3 ins. 11

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; from which

A cedar, 8 ins. diam. bears S  $6^{\circ}$  W.

83 lks. dist. marked T 17 N R 1 E

S 35 B T.

and raised a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable. *No other trees.*

Land, mountainous

Soil, rocky; 4<sup>th</sup> rate

Timber cedar.

South boundary Pp. 18 N. Rg. 1 E.  
chains

Mountainous land 80.00  
chs.

February 5, 1903

February 6: At 8<sup>h</sup> 00<sup>m</sup> a. m.  
l. m. t. I set off  $55^{\circ} 06'$  for  
my co-latitude;  $15^{\circ} 48'$  S. V  
for my declination; and  
determine a true meridian  
with the solar at the  
cor. of secs. 4, 5, 32 and 33

Thence I run

West bet. secs. 5 and 32.

Over rolling mountains  
through scattering  
cedar timber

- 1.30 Cross wash course N.  
19.00 Cross wash course N. E.  
26.30 Cross road bears N. and S.



South boundary Pp. 18 N. Rg. 1 E.

Chains

33.35 Cross wash course N. E.

40.00 Set a lime stone  $16 \times 12 \times 3$  ins. in

a mound of stone for  $\frac{1}{4}$  sec.  
cor.; marked  $\frac{1}{4}$  on N. face; from which

$\Delta$  cedar 6 ins. diam. bears N.  $20^\circ$  E.

120 lks. marked  $\frac{1}{4}$  S 32 B T

$\Delta$  cedar 8 ins. diam. bears S  $9^\circ$  W

65 lks. marked  $\frac{1}{4}$  S 5 B T

62.75 Cross wash, course N. W.

80.00 Set a lime stone  $18 \times 10 \times 6$  ins. in

a mound of stone for cor. of  
secs. 5, 6, 31 and 32, marked with 5 notches

on E and 1 notches on W edges; from which

$\Delta$  cedar 6 ins. diam. bears N.  $26\frac{1}{4}^\circ$  E.

225 lks. dist. marked T 18 N R 1 E

32 B T

$\Delta$  cedar 10 ins. diam. bears S  $60\frac{3}{4}^\circ$  E.

89 lks. dist. marked T 17 N R 1 E

5 B T

$\Delta$  cedar 10 ins. diam. bears S  $69^\circ$  W.

248 lks. dist. marked T 17 N R 1 E

6 B T

$\Delta$  cedar 3 ins. diam. bears N.  $53\frac{3}{4}^\circ$  W.

224 lks. dist. marked T 18 N R 1 E

31 B T

Land, mountainous

South boundary Np. 18 N. Rg. 1 E.

chains

Soil, rocky; 4 rate.

Timber, cedar.

Mountainous land

80.00 chs.

---

West bet. secs. 6 and 31

Over rolling mountains  
through scattering cedar  
timber.

7.20 Cross wash course N. E.

20.50 Edge of precipitous canon.  
through which the Verde  
River runs. It being  
impossible to chain, to  
determine the distance  
across the cañon I  
triangulate as follows;  
I set my flagman on  
line on west bank

South boundary Pp. 18 N. Rg. 1 E.

chains

of cañon and lay off  
a base due south 10.00  
chs. to B.; from B my  
flag on West bank of  
cañon bears N.  $69^{\circ}19'W$ .  
then  $10. \times \tan. 69^{\circ}19' =$   
distance across cañon or  
 $10 \times 2.6487 = 26.49$  chs. the  
dist. across the cañon  
and  $26.49 + 20.50 = 46.99$   
chains. the total dist. from  
sec. cor. to west bank of  
cañon.

34.00 Cross Verde River 1 chn. wide  
course N. (This dist. is  
estimated as it is impossible  
to chain to the river)

46.99 Set a lime stone  $18 \times 10 \times 8$  ins. in  
a large mound of stone  
for witness cor. to 1/4



South boundary Pps. 18 N. Rg. 1 E.  
chains

sec. cor., marked  $\frac{1}{4}$  W.C.  
on N. face; and raised  
a mound of stone 2 ft.  
base  $1\frac{1}{2}$  ft. high, N. of  
cor. Pits impracticable

Thence over rough mountains  
through cedar timber

145.34 Intersect Gila and Salt  
River Meridian ~~7.50~~<sup>7.00</sup> chs. N.  
of cor. of Pps. 17 and 18 N. Rg.  
1 W. and

Set a lime stone  $20 \times 6 \times 4$  ins. in a  
mound of stone for closing  
cor. of Pps. 17 and 18 N. Rg. 1  
E. marked with 6 grooves  
on E. N. and S. faces; and  
CC on E. face; from which

A cedar 5 ins. diam. bears  $S 42^\circ E$ .

36 lks. dist. marked T 17 N R 1 E

S 6 BT



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19

South boundary of Pp. 18 N. R. 1 E.

Chains

A cedar, 36 ins. diam. bears  $N 25^{\circ} E$ .130 lks. dist. marked T 18 N R 1 E

S 3/B T

Land, mountainous.

Soil, rocky; 4<sup>th</sup> rate.

Timber, cedar.

Mountainous or heavily  
timbered land 145.34February 6; At the cor. of <sup>18A</sup>

P. 18 and 19 N. R. 1 E. and 1 W.

I set off  $15^{\circ} 46'$  S. from the

suhl. arc; and observe the

suhl. on the meridian at

is 3w; The resulting lat.

 $75^{\circ} 00\frac{1}{2}' N. \checkmark$ 

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19

South boundary of Tp. 18 N. R. 1 E.

ains

A cedar, 36 ins. diam. bears  $N 25^{\circ} E$ .

130 lks. dist. marked T 18 N R 1 E

S 31 B T

Land, mountainous.

Soil, rocky; 4<sup>th</sup> rate.

Timber, cedar.

Mountainous or heavily  
timbered land 145.34

chs.

+

---

for correction in red ink see letter  
of March 19, 1904

North boundary Pps. 18 N. Rgs. 1 & 2  
chains

February 6: At 2<sup>h</sup> 00<sup>m</sup> p. m.  
l. m. t. I set off 55° 00' 30" for  
my co-latitude; 15° 44' S. on  
the decl. arc; and determine  
a meridian with the solar  
at the cor. of Pps. 18 N. Rgs.  
1 and 2 E. which is a  
stone firmly set and  
marked and witnessed  
as described by the  
Surveyor General  
Phence I run

West along N. bdy. of sec. 1  
Over rolling mountains  
through cedar timber.

40.00

Set a malpais stone 16 x 12 x 8 ins. in a  
mound of stone for 1/4 sec.  
cor. marked 1/4 on N. face  
from which. No other trees in  
limits. Pits impracticable.

## North boundary Pp. 18 N. Rg. 1 E.

Chains

A cedar 14 ins. diam. bears  $S 47\frac{3}{4}^{\circ} W$ .36 lks. dist. marked  $1/4 S 1 BT$ 

AND RAISED R.M.D. OF STONE 2 FT. BASE. H. FF. HIGH N. OF CORNER

41.00 Cross wash course S.

66.00 Cross wash course S.

80.00 Set a malpais stone  $18 \times 10 \times 8$  ins. 12ins. in the ground for cor. of  
secs. 1 and 2, marked with 1 notches  
on E and 5 notches on W edges; from whichA cedar 6 ins. diam. bears  $S 27\frac{1}{2}^{\circ} E$ .50 lks. dist. marked  $T 18 N R 1 E$ 

S 1 BT

A cedar 15 ins. diam. bears  $S 43\frac{1}{4}^{\circ} W$ .55 lks. dist. marked  $T 18 N R 1 E$ 

S 2 BT.

Land, mountainous.

Soil, rocky; 4<sup>th</sup> rate.

Timber cedar.

Mountainous or heavily  
timbered land 80.00 chs.

West along N. bdy. of sec. 2.

Over rolling mountains  
through heavy timber



North boundary of Pp. 18 N. Rg. 1 E.  
Chains

18.25 Cross wash 10 lks. wide course  
S.

40.00 Set a sand stone 20 x 20 x 6 ins. 15 ins.  
in the ground for  $\frac{1}{4}$  sec. cor.  
marked  $\frac{1}{4}$  on N. face; from  
which <sup>no other trees in limits.</sup>  
<sub>Pits impracticable</sub>

A cedar 12 ins. diam. bears S  $40\frac{1}{4}^{\circ}$  E.  
65 lks. dist. marked  $\frac{1}{4}$  S 2 BT.

AND RAISED A MD OF STONE 2 FT 6 IN. H FT HIGH N. OF  
CORNER

44.70 The cor. of Pps. 19 N. Rg. 1  
and 2 E.

Land, mountainous.

Soil, rocky 4<sup>th</sup> rate.

Timber cedar.

Mountainous or heavily  
timbered land 44.70 chs.

February 6, 1903

*General Description*

This township is rough and mountainous being cut by numerous deep ravines. The Verde River runs across the southern part of the township but as it flows through a deep cañon its water is not available in this Pp.

John P. Hesse  
U.S. Deputy Surveyor

X  
for corrections in Red Ink see  
letters of March 19 & April 11, 1908

LIST OF NAMES.

A list of the names of the individuals employed by-----

*John P. Hesse*

United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the

*North and South*

*boundaries of Twp. 18 N. Rg. 1 E.*

BOOK 1382

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, showing the respective capacities in which they acted.

*Russel C. Stone*

, Chainman.

*Willom O. Grimes*

, Chainman.

, Chainman.

, Chainman.

, Axman.

*Reuben W. Bellitt*

, Axman.

*Joe O. Sanders*

, Flagman.

27 ated in strict accordance with the Manual of Surveying Instructions, the special 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 TRUE field notes of such survey; and should any fraud be detected I will suffer the penalty of perjury, under the provisions of an act of Congress approved August 8, 1846.

*John P. Hesse*

U. S. Deputy Surveyor.

Subscribed and sworn to before me this 1<sup>st</sup> day  
of October, 1903.

*Frank A. Ingalls*  
U. S. Surveyor General

4890b150-8-02

BOOK 1382



A P P R O V A L.

Office of the

United States Surveyor-General.

Phoenix, Arizona.

*April 23 1904*

The foregoing field notes of the survey of *North & South boundaries*

*T. 18 N. R. 1 E.*

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

Executed by *John F. Hesse*

United States Deputy Surveyor, under his contract No. 103, dated *Sept 27* 1902,

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*

U. S. Surveyor-General.