

FRACTIONAL EAST Bdy.  
and  
SECTION LINE, BEING THE  
SOUTH BOUNDARY  
of  
FRAG. T. 15 N., R. 7 E

CONT. #8101.

1407

+

4-671

BOOK 1407

BOOK 1407

FIELD NOTES  
GENERAL LAND OFFICE.

No. 1407

No. 1407

BOOK 1407

Field Notes  
of the survey of the  
East boundary of the fractional  
Township 15 N R<sup>y</sup> 7 East - and  
The South boundary of the fractional  
Twp 15 N R<sup>y</sup> 7 East.

of the  
Gila and Salt River  
Base and Meridian in  
the Territory of Arizona  
as surveyed by  
James B. Girard  
and

Robt. W. Galtimer.  
Under their contract  
No 101.

Dated June 30, 1902.

Survey commenced Nov 5<sup>th</sup> 1902  
Survey completed Nov 24<sup>th</sup> 1902

TA

BOOK 1407

Names and Duties of Assistant

W. H. Platt Chairman

R. W. Peet Chairman

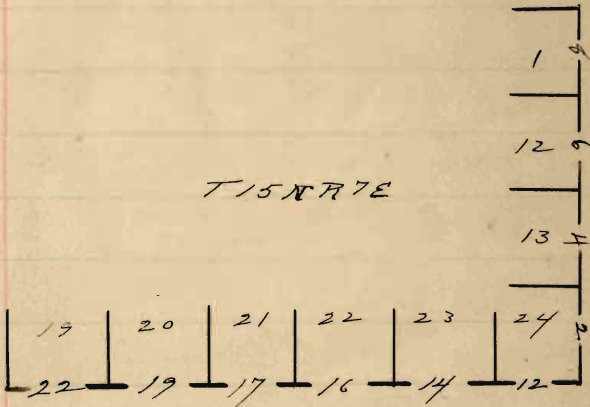
R. G. Brockelman

A. J. Bethune Flyman

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T 15 N R 7 E



1 10

BOOK 1407

Survey of E. side of trail Top 15 N. R. 7 C.  
Chains

Nov 5th 1902 at 7 a.m. went  
 out of 340 44' on the lat. arc and  
 150 20' 30 3" on the decl. arc and  
 determine a true meridian  
 with the solar at the cur of  
 Top 15 and 16 N. R. 9 and S. C. on  
 the summit of Apache Mts. Mt  
 I then I run S on a ran-  
 -down line setting trap cor  
 every 40 and 80 chains for the  
 dist. of 4 miles -

Having run a sectional  
 correction line W from the cur  
 of sec 24, 25, 19 and 30 on the W  
 side of Top 15 N. R. 9 E I find that  
 it intersects this random line  
 S from the top cor. 96 lbs N of the  
 4 mile cor. Hence I set the  
 cor at the intersection of the two  
 lines as follows - Set a malpais



Band S.B. Mt Ariz -  
 Chanis

stone 18 x 16 x 4 ins 21 ins in the ground  
 for the only sees 19, 30, 24 and 25 -

marked with 4 notches on the N  
 and 2 notches on the S edges of the

azimuth 24 ins in diam br.  $12^{\circ} E$

156 lbs dist. marked T 15 NR 8 ES 19 BT

azimuth 28 ins in diam br.  $346^{\circ} W$

328 lbs dist. marked T 15 NR 7 ES 25 BT

azimuth 26 ins in diam br.  $742^{\circ} W$

142 lbs dist. marked T 15 NR 7 ES 24 BT

and I raised a mound of stone 2 ft  
 tall  $1\frac{1}{2}$  ft high W of the cor

Nov 5th 1902

True mag. decl.  $12^{\circ} 44' E$ .

Nov 22 1902 at 54 m. l. m. t.

I set off  $34^{\circ} 40'$  in the lat arc

and  $19^{\circ} 57' 5$  in the decl arc and

determine a true meridian

with the thesolar at the cor

sees 19, 30, 24 and 25 on the S

Survey of E. Edge of foot Top 15 NB 72.  
Chains

- bdry of Top 15 NB 72. Thence I  
run North on the E. edge of  
the Top bet sec 19 and 24 over  
rolling mesa through scattering  
juniper timber.
- 2400 Top of ridge bet E and W.
- 4000 Set a molpais stone 26 x 12 x 6 ins 21  
ins in the ground for  $\frac{1}{4}$  sec cor  
wtd  $\frac{1}{4}$  in the W face - W. Spoke:  
a juniper 12 ins in diam bet 7400 &  
2180 chodit: wtd  $\frac{1}{4}$  51915 T.
- a juniper 24 ins in diam bet 8880 W.  
2120 chodit: wtd  $\frac{1}{4}$  52415 T.
- 6520 - cross draw, course West,
- 7750 Brims of small cañon and descend.
- 8000 Set a molpais stone 18 x 12 x 6 ins 12  
ins in the ground on the brims of Wet  
Koon cañon for the corners 19, 17, 15  
and 24 on the E. edge of Top wtd with  
3 notches on the N and S edges - W. Spoke.

Land S. R. Mus. W. J. -  
Chains

A gumpier 2 in diameter to N 2° W:

108 lbs dist: mhd T 15 N R 725 13 13 T

A gumpier 10 in in diam to S 50° W:

66 lbs dist: mhd T 15 N R 725 24 13 T

and I saw a mound of stone 2 ft  
base  $1\frac{1}{2}$  ft high w of the cor-  
pand, mountainous -

Soil, rocky, & the note -

Timber, gumpier and oak bush.

Mountainous land with scattering

timber 80.00 chains - X

North on the E side of the T. p bet  
sec 13 and 18 descending perpen-  
-dicular fluffs through dense  
oak brush into Mt. Bloom  
canyon -

1.00 cross small side canyon course N 25° W to T. p.

3.50 descend rapidly -

33.10 cross bed of canyon 150 lbs wide



Survey of E. Ady of fract Exp 15 N R 7 E  
Chains

- 1000 ft deep course N.W. and ascend  
40.00 Mark a sandstone in place 60  
x 60 x 50 ins above ground with  
cross for exact  $\frac{1}{4}$  sec cor pt and  
mark  $\frac{1}{4}$  on the W face and  
raise a mound of stone 2 ft base  $1\frac{1}{2}$   
ft high W of the cor. Pits in-  
practicable. ascending bluffs  
through very dense oak brush.
- 50.61 N. brink of canon and top rolling  
country.
- 80.00 Set a molpains stone 20 x 15 x 10 ins  
15 ins in the ground for the cor  
of nos 12, 13, 7 and 8 marked with 2  
notches on the N and 4 notches on  
the S edges. Where  
a pine 24 ins in diam br N 72° W.  
245 lbs dist. marked T 15 N R 7 E S 12 15 T  
a juniper 15 ins in diam br S 36° W.  
272 lbs dist. marked T 15 N R 7 E S 13 15 T.

Grand S. B. Mt. Miz-  
Chavis

And I will a mound of stone 2  
ft base  $\frac{1}{2}$  ft high w/ the cor.

Pits unpracticable -

Grand mountainous

Soil, rocky & the note -

Timber, pine, cedar, juniper

and saskbrush.

Mountainous land 8000 ft.

Very rough broken mountainous

country with very dense oak-

brush to Chavis -

North on the E. side of the TP bet  
secs 12 and 7 over rolling mesa-

4000

Set a sulphur stone 18.4 x 12 x 6 ins

1 ins in the ground for  $\frac{1}{4}$  sec cor

mkd  $\frac{1}{4}$  on the W face. W. here:

a juniper 86 ins in diam bet 58° E.

257. lbs dist, mkd  $\frac{1}{4}$  S 75° E.

a juniper 22 ins in diam bet 71° 35' W.

Survey of Eddy of fault Top 15 N 13 7 E  
chain

133 lbs diet. mtd 1/4 512 BT.

6700 Top of slope and declivity

7900 Foot of slope.

79.65 cross wash 10 lbs wide course W.

8000 Set a molpaids stone 18.16.16 in  
12 in in the ground for the  
engines 6, 7, 1 and 12 mtd with  
notches on the round 5 notches on  
the 3 edges - whence:

a juniper 16 ins in diam br 732° E.

279 lbs diet. mtd T 15 N R 8 E S 6 BT.

A pine 14 ins in diam br 334° E.

168 lbs diet. mtd T 10 N R 8 E S 7 BT.

an oak 8 ins in diam br 341° W.

144 lbs diet. mtd T 15 N R 7 E S 12 BT.

and I will a mound of stone 2 ft  
high 1 1/2 ft high W of the low.

Pits impracticable -

of and rolling mountains -

Soil, rocky 4th note -

Grand A. B. Mer Ariz -  
 Chains

✓ Timber pine and juniper  
 Rolling mts land with scatter-  
 -ing timber 80.00 chains -

North on the E edge of the top  
 but sees sand & over rolling  
 mts country -

- 19.94 cross wash 20 lbs wide course S.W.  
 24.28 cross wash 20 lbs wide course S.W.  
 27.00 Top of ridge and descend to E and W.  
 26.31 cross wash 30 lbs wide course S.W.  
 23.10 Top of bluff and through dense brush -  
 40.00 Set a molpau stone 18 1/2 x 8 ins 12 ins  
 in the ground for 1/4 sec covered  
 1/4 on the W face - Whence:  
 a juniper 4 ins in diameter N 60° E: 54  
 lbs dist. marked 1/4 56 B.T. There  
 being no other being trees found  
 a mound of stone 2 ft tall 1 1/2 ft  
 high W of the cen. Pits impracticable



Survey of E. edge of gravel Tp 15. N. 75°  
 chains

4100 ascend steep south slope of sparse  
 Maid mt through dense brush.

7457 summit of bluff -

7204 The corner of Tps 15 and 16 N. Rgs 7  
 and 5 E which is a spot, not  
 marked and witnessed as before  
 described.

Land, mountainous -

Soil, rocky & thorny.

Timber, juniper, pine and dense  
 oak brush.

Mountainous land with very  
 dense oak brush 48 chains -

Nov 22nd 1902

Nov 22nd 1902 at 4 P.M.

C. M. T. I set off  $34^{\circ}44'$   
 on the lat arc and  
 $20^{\circ}03'S$  on the decl arc  
 and determine a true

meridian with the color  
at the top cor of Tpo 15  
and 16 N Pgd 7 and 8 E  
and observe that the  
magnetic bearing of the  
true meridian is  $N 14^{\circ} 27' W$   
which reduced by the  
table on page 100 of the  
manual gives the mean  
magnetic declination  
 $14^{\circ} 28' E$ .



St. John  
 Survey of tract Top 15' N Ry 72.  
 Main

Nov 23<sup>rd</sup> 1902 at 7 A. M. Lunt.

I set off 34°40' on the lat arc  
 and 26°01' on the decl arc -  
 and determine a true meridian

with the solar at the end of

secs 24, 25, 19 and 30 on the E

body of Top 15' N Ry 72. Then a

run west on the S body of the

tract Top 15' N Ry 72 bet secs 24

and 25 over rolling mesa through

scattering juniper timber -

12.30

Descend into draw

20.55-

cross draw course North

31.00

Top of slope and up gentle incline

35.30

cross molpaia dyke bet NW and SE.

35.40

Top of hill on line 55 to S of summit

36.03

Molpaia dyke bet NW and SE.

36.57

Molpaia dyke bet S.W.

40.00

Set a molpaia stone 26 x 12 x 6 ins

2 ins in the ground for  $\frac{1}{4}$  sec

on solid  $\frac{1}{4}$  m the N face and S



Survey of S side of fract Top 15 NR 7E.  
 Chain

raise a mound of stone 4 ft  
 base 1/2 ft high N of the cor.  
 Pits impracticable.

- 52.55 edge of low molpaio bluff  
 6300 cross draw hro S.  
 6800 Top of ridge hro S.  
 7000 descend slope into canon  
 7483 bet of canon 40 lbs wide corner N.  
 7900 W bank of canon  
 8000 Set a molpaio 24.5 x 10.58 ins 18 in in the  
 ground for the corques 23, 24, 25  
 and 26 mtd with 2 notch withes  
 and 1 notch in the edges - Where  
 a juniper 26 ins in diam hro N 26° E  
 278 lbs dist: mtd T 15 NR 7 E S 24 BT  
 a cedar 10 ins in diam hro S 68° E 224  
 lbs dist: mtd T 15 NR 7 E S 20 BT  
 a cedar 24 ins in diam hro S 38° W  
 215 lbs dist: mtd T 15 NR 7 E S 26 BT  
 a cedar 26 ins in diam hro N 74° W

Grand S. R. Mer

Chains

138-cho list: subd T 10 NR 7E 523 BT.

Grand mountains -

Soil rocky &amp; the note -

Timber scattering cedar and juniper

Mountainous land with scatter-  
ing timber 8500 chains -

West on the side of fract 9p

15 NR 7E bet sec 23 and 26

our broken country -

2.00

Top of low ridge bet N and S.

6.60

descend into draw -

9.32

cross draw - course north.

21.10

Top of slope -

23.52

Top of low ridge and descend -

37.00

cross wash 35 ft wide course N.

40.00

Set a molpaire stone 30 X 12 X 10 ins

22 ins in the ground for  $\frac{1}{4}$  sec onNbt  $\frac{1}{4}$  on the face - W. bank:

a cedar 24 ins in diam bet N 8° W.

Survey of S. Side of Peak Top 15-NR-72  
Chains

- 331-lbs dist: whd  $\frac{1}{4}$  S 23 15 T  
 a juniper 26 ins in diam brs S 58° E  
 167 lbs dist: whd  $\frac{1}{4}$  S 26 15 T  
 44.43 Brink of wash and descent  
 45.10 enter my dense cedar timber  
 7900 Leave my dense timber  
 8000 Set a molpave stone 20.812 x 6 ins 15  
 ins in the ground further east  
 sec 22, 23, 26 and 27 whd with 2  
 matches on the S and E edges. Whence  
 a cedar 12 ins in diam brs N 48° E. 88  
 lbs dist: whd T 15 NR 72 S 23 15 T  
 a cedar 8 ins in diam brs S 63° E. 83  
 lbs dist: whd T 15 NR 72 S 26 15 T  
 a juniper 8 ins in diam brs S 42° W  
 167 lbs dist: whd T 15 NR 72 S 27 15 T  
 a cedar 10 ins in diam brs N 37° W: 133  
 lbs dist: whd T 15 NR 72 S 22 15 T  
 Ground mountainous —  
 Soil, rocky & stony

## Grand S. R. Mts Ariz -

Chains

Timber, cedar and juniper -  
 Mountainous land 8500 Chain  
 Dense cedar timber best 40 chs -

Out on the side of trail top  
 15 N by 75. hit nos 22 and 27  
 descending slope through dense  
 cedar timber

13.50

Leave timber and enter opening -

22.83

Cross draw bro N.E.

32.00

Enter dense cedar timber

33.50

Leave timber and enter opening -

37.00

Top of ridge bro N.W.

40.00

Set a molpauis stone 20.8 12.8 ins in dia  
 in the ground for  $\frac{1}{4}$  in eastward  
 $\frac{1}{4}$  in the N face - where:

a cedar 24 ins in dia bro N 73° W

130 lbs diet: wood  $\frac{1}{4}$  522 B.T.

a cedar 20 ins in dia bro S 39° W

143 lbs diet: wood  $\frac{1}{4}$  527 B.T.



Survey of Study of forest Top 15 W. 7 E.  
Chain

55.95 Enter dense cedar timber

92.00 Leave dense cedar timber

98.00 Top of ridge to stand

88.00 Set a molpa's stone 20x12x12 ins

15 ins in the ground for the corner  
of nos 21, 22, 26 and 27 whd with  
2 notches in the S and 3 notches on  
the S edges where:

a cedar 12 ins in diam nos 286° S. 340

the dit: whd T 15 NR 928 22 RT

a cedar 8 ins in diam nos 542° N. 5143

the dit: whd T 15 NR 925 27 BT

a cedar 8 ins in diam nos 264° N. 271

the dit: whd T 10 NR 925 21 BT

and drive a moundy stone eye  
base 1/2 ft high W of the cor. Pits

symmetrical the  
found into - soil, rocky & the etc. Timber  
cedar - Mound anions land with dense timber

50 Chains.

Nov 20<sup>th</sup> 1902

Nov 20<sup>th</sup> 1902 at 7 A. M. Grant

G and J. B. Mer. Ariz -  
Davis

A set off  $34^{\circ}40'$  on the lat arc and  
 $20^{\circ}24'$  on the decl arc and de-  
termine a true meridian with  
the solar at the equinoxes 21, 22  
27 and 28. Then run West  
on the side of the frail 7 p 10  
N by 72 hits sees 21 and 28 de-  
scending gradual W slope -

39.34

cross wash 20 lbs wide course NW

4000

Set a molpaia stone  $18 \times 12 \times 6$  ins 12  
ins in the ground fur  $\frac{1}{4}$  sec en  
ward  $\frac{1}{4}$  on the N face. Hence:

a cedar 15 ins in diam brs  $78^{\circ}E$ :

39 lbs diet: wtd  $\frac{1}{4}$  521 D.T.

a cedar 12 ins in diam brs  $55^{\circ}3'E$ :

36 lbs diet: wtd  $\frac{1}{4}$  528 B.T.

80.00

Set a molpaia stone  $24 \times 12 \times 6$  ins

18 ins in the ground fur the cor-  
ner of sees 20, 21, 28 and 29 wtd with  
2 notches on the 5 and 4 notches

Survey of S. side of track T<sub>15</sub> NR 7E. <sup>Chains</sup>

on the E edges. Whence:

a cedar 6 ins in diam brs N82°E:

43 chs dist: whed T<sub>15</sub> NR 7E S 21 B.T.

a cedar 2 6 ins in diam brs S34°E:

67 chs dist: whed T<sub>15</sub> NR 7E S 28 B.T.

a cedar 8 ins in diam brs S21°W: 73

chs dist: whed T<sub>15</sub> NR 7E S 29 B.T.

a primum 2 ins in diam brs N79°W

43 chs dist: whed T<sub>15</sub> NR 7E S 20 B.T.

of and mountainous -

Soil, rocky 4th rate -

Timber cedar and primum

Mountainous land or heavily

timbered land 8 s. s. chains.

West on the S. side of the track

T<sub>15</sub> NR 7E bet sec 20 and 29

descending to creek through

dense cedar timber -

H and A.R. Merrey -  
 Chanis

- 4.50 edge of bluff and descent rapidly -
- 27.50 Sandstone bluff and descent rapidly -
- 30.65 cross rd of cañon 500 lbs with cross  
 N 82° W -
- 34.50 cross sandstone pt to N -
- 36.00 cross small cañon course N.
- 40.00 Mark a sandstone in place 24 x 12  
 16 ins above ground with cross  
 for exact  $\frac{1}{4}$  sec cor pt and mtd  
 $\frac{1}{4}$  on the N face - Whence -  
 a cedar 15 ins in diam br. 77° W  
 107 lbs dist: mtd  $\frac{1}{4}$  520 B.T.  
 a cedar 6 ins in diam br. 58° W.  
 93 lbs dist: mtd  $\frac{1}{4}$  529 B.T.  
 and drive a mound of stone  
 2 ft tall  $\frac{1}{2}$  ft high N of the ca -  
 ascending the S side of cañon through  
 very dense oak brush -
- 81.00 Pt in sandstone bluff - mark a  
 sandstone in place with cross



Survey of a day of fall Tp 15 NR 7 E.  
Chenoweth

for the exact extent of sec 19, 20, 29  
and 30 and marked with 5 notches on E  
and 2 notches on the S edges. When:  
a pinion 4 ins in diam has  $N46^{\circ}E. 47$

the dist: marked T 15 NR 7 E S 20 BT

a pinion 4 ins in diam has  $S2^{\circ}E.$

53 the dist marked T 15 NR 7 E S 29 BT.

a pinion 6 ins in diam has  $S46^{\circ}W. 8$

the dist: marked T 15 NR 7 E S 30 BT.

a pinion 8 ins in diam has  $N5^{\circ}20'W.$

61 the dist: marked T 15 NR 7 E S 19 BT

and I raise a mound of stone 2  
ft base  $1\frac{1}{2}$  ft high w<sup>y</sup> the car  
Pits impracticable -

Land very rough and broken  
Soil, rocky & the water

Timber cedar, pinon and very  
some oak brush.

very rough broken and  
mountainous country with

Grand A. R. Mersey -  
 Chanis

very dense oak brush or  
 very dense cedar timber 8000 ch

West bet sec 19 and 30 on the  
 S. side of the frac. Tp 15 N R 5 E:  
 ascending along the side of  
 Wet Beaver canon through  
 very dense oak brush and  
 over unusually rough and  
 broken country -

30.00 S. side of canon and cross point  
 bet the two canons N.W.

34.00 center of pt bet canons

38.50 S. side of canon and descend  
 abruptly through dense brush

40.00 Mark a molpans stone in place  
 36 x 30 x 25 ins above ground with  
 a cross for the start of sec 30 pt  
 and end of on the N. face - when  
 a pin 8 ins in diam bet N 20 W:

Survey of S bdy of fract Top 15 N R 20  
Chains

42 lbs dit: marked  $\frac{1}{4}$  5 19 13 T.

a pin in 15 ins in diam bro 535°.

52 lbs dit: marked  $\frac{1}{4}$  5 30 13 T.

52.20 Bed of deep canon 1200 ft deep 200  
lbs inside course N. W. and then  
ascend W side of canon rapidly.

74.00 Top of slope on W side and then  
through dense cedar timber

82.94 Enter the E bdy of Top 15 N  
By 62 30.94 chains S of the cor-  
ner 24 and 25 - as here before  
described so Ent a molpau  
stone 18 x 12 x 18 ins 12 ins in the  
ground for the <sup>closing</sup> bet runs 19 and  
30 on the W bdy of Top 15 N R 20  
marked with 2 notches on the S end  
4 notches on the N sides and cc  
on the E face - Whence:

a cedar 4 ins in diam bro 765° 02: 187

lbs dit: marked T 15 N R 20 5 19 13 T

G and S. R. Mearns -  
Chains

a pine tree in diam No. 54795:  
113 lbs. dia. inhd + 1577 R 725 30 B. T.  
and I raise a mound of stone  
2 ft base  $1\frac{1}{2}$  ft high E of the  
car.

Land very rough, broken and  
mountainous -

Soil, rocky & stony -

Timber cedar, pine and oak  
- brush -

Very rough, broken and into  
land with dense sagebrush  
or dense cedar timber 8254 lbs

Nov 24<sup>th</sup> 1902



The country traversed by these lines is of a rough broken character especially rough and broken on the South and West. The timber is devil cedar, juniper, pine and juniper. The soil is very poor being covered with molpais stones. There is no water and the grass is very poor.

James Howard  
Park W. Latimer  
U. S. Deputy Surveyor

## Latitude observations and Closing Errors

Readings of Top 15 22B 25 Standard A.R. Mer

True Azimuth distance	W	E	S	W
W. B. Day E	482.55	482.55		
E. B. Day S	319.04		315.04	
S. B. Day W	482.54			482.54
W. B. Day W	319.18			
Compass	320.04			
Totals	319.18	483.29	315.04	482.54
Differences	319.04	482.94		
Error in Set	0.14	0.35		
Error in Obs	1.00			

copied by J. J. J. J.

We, H. S. Rathwell  
and C. L. Brooke

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 western boundaries of fractional  
townships No 15 North Ranges  
6, 7 and 8 East.

BOOK 1407

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

H. S. Rathwell, Flagman.  
C. L. Brooke, Axman.  
\_\_\_\_\_, Axman.  
\_\_\_\_\_, Axman.

Subscribed and sworn to before me this 20<sup>th</sup> day  
of August, 1902.

W. S. Herndon  
Notary Public.

PRELIMINARY OATHS OF ASSISTANTS.

We, W. W. Platt

and B. W. Hunt

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

exterior boundaries of <sup>Fractional</sup> townships  
No 15 North Ranges 6, 7 and 8  
East

BOOK 1407

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

W. W. Platt, Chainman.

B. W. Hunt, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

Subscribed and sworn to before me this 20<sup>th</sup> day of August, 1902.

[Signature]

[SEAL.]

Notary Public.

My Commission expires April 16, 1905.