

1699

North and West  
Boundaries

Tp. 30N. Range 3 West

BOOK 1699

4-671

BOOK™ 1699

1699

FIELD NOTES

GENERAL LAND OFFICE.

1699

1699

BOOK 1699

Field Notes  
of the survey of the  
North and West Boundaries  
of Townships No 30 of North Range No 3 West  
of the  
Gila and Salt River Basins Meridian  
in the  
Territory of Arizona  
as surveyed by  
Francis B Jacobs compassman  
for James C. Dohkins  
W. S. Deputy Surveyor  
under his contract No 71  
Dated June 13. 1900.

Survey commenced June 30<sup>th</sup> 1901  
Survey completed July 6<sup>th</sup> 1901

2 West and N boundaries 4.30 N. R. 3 W.

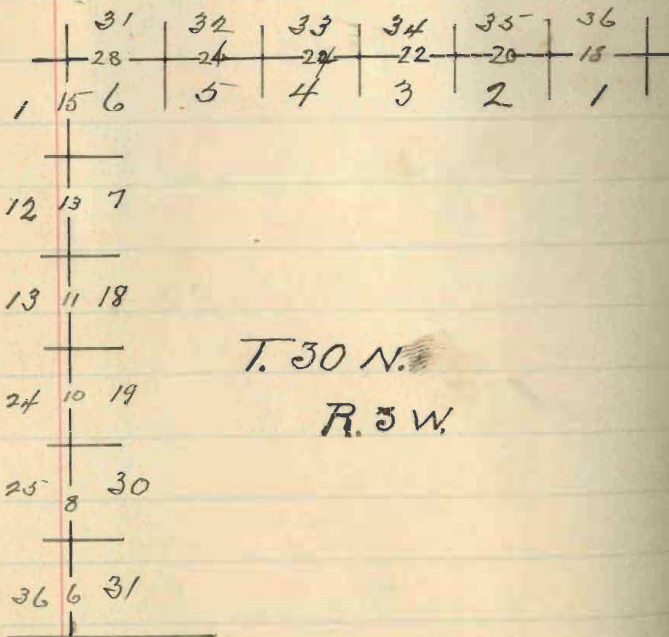
BOOK 1699

Names and Duties of assistants

William A Lockridge	Chain man.
Fred Ferguson.	Chain man
Jay Liebch	Mounds man.
Henry Spaw	Ap man
Henry J Sillus	Ap man
Jay Jacobs.	Flagman.

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T. 30 N.

R. 3 W.

West and N. boundaries 730 N. R. 3 W. 2

Chorus Survey commenced June 30<sup>th</sup> 1901  
and executed with a Waukegan E. Guley  
light mountain transit with  
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 verniers of the latitude and  
declination arcs.

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, & proceed  
as follows.

June 30<sup>th</sup> at my camp at the centre

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W. and N. boundaries 1.30 N. R. 3 W.

Chains

of Sec. 16 T<sup>p</sup>. 30 N. R. 3 W.Latitude  $35^{\circ}57'39''$  N. Longitude $112^{\circ}35'54''$  W. at 5 P.M. l.m.t. &set off  $36^{\circ}58'$  on the lat. arc;  $23^{\circ}12'$  N. on  
the Dec. arc and determine with the solara true Meridian; and mark a point  
thereof on a stone set firmly in the

ground 5.00 chs. N. of my transit point

July 1<sup>st</sup> at 12<sup>hrs</sup> 48.96<sup>min</sup> l.m.t. &observe Polaris Eastern elongation  
in accordance with Manual ofinstructions and mark a point  
on the line. This determined on

a plug driven in the ground

5.00 chs. N. of my Transit point

At 6<sup>hrs</sup> 30<sup>min</sup> A.M. l.m.t. & lay offthe azimuth of Polaris  $133\frac{1}{2}$  the Westand mark the True Meridian thus  
determined, by cutting a small  
groove in the stone set June

W. and N. boundaries 430 N. R. 3 W.

5

Chains 30<sup>th</sup> on which the true meridian falls 0.45 ins. East of the mark determined by the Solar.

At 7 a.m. I set & set off 35° 58' on the lat. arc; 23° 10' N. on the decl. arc. and mark a point in the true meridian determined with the solar by cross on the stone already set 500 chs N. of my transit point. This mark falls 0.3 ins. E. of the true meridian established by the Polaris observation. The solar apparatus, by P. and A. M. observations defines for true meridians respectively about 0' 14" N. and 0' 21" E. of the true meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 7 a.m. is N. 13° 50' W. mean declination as corrected by table page 100. N. 13° 47' E

6 West boundary 7.30 n. R 3 N.

Chains Begin at the cor. of 4/5s.  
 29 and 30 n. R. 3 and 4 N.  
 which is a lime stone 12 X  
 10 X 8 ins. above ground  
 properly marked & witness.  
 Thence to run  
 North bet. sec. 31 & 34  
 through dense undergrowth  
 of Cedar, Ches and Sage  
 brush

Descend

19-00 Ravine course E. Ascending

24-50 Ridge E & N.

31-00 Ravine course East.

ascend

40-00 Top of ascent set a  
 lime stone 24 X 14 X 4 ins.

16 in ground for  $\frac{1}{4}$  sec. cor.

marked  $\frac{1}{4}$  on N. face

West boundary. 7.30 N. P. 3 W. 7

Chains dig pits, 8x18x12 ins. N. and S. of stone, 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1/2 ft. high W. of cor.

Descend

64 10 Ravine course N. E.

75 10 Flat Ridge E & W.

80 10 Set a Lime Stone 80x12x5 <sup>ins</sup>

<sup>21 ins</sup> in ground for cor. of

Sec. 25-30-31-36, marked with 5 notches on N. and 1

notches on S. edges; dig pits 18x18x12 ins. in each sec.

5 1/2 ft. dist.; and raise a mound of earth, 4 ft. base 2 ft. high W. of cor.

Wind, hilly and level.

Soil stony & loam <sup>nd #</sup> and <sup>4</sup> <sup>etc.</sup>

Timber scattered scrub cedar.



8 West boundary 730 N. R. 34

Chains dense undergrowth of Cher  
and sage brush, 80 chs.

North lat. sec. 25 and 30  
over rolling land, drainage  
W. and N. through dense  
undergrowth of sage,  
Cher, and scrub cedar

653 Prairie course E.

Ascend

2055 Top of ascent

4015 Set Sand Stone 18x10x4 ins.

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

cov. marked  $\frac{1}{4}$  m W. from dig  
pits, 18x18x12 ins. N. & S. of

stone 3 ft dist. and raise

a mound of earth  $3\frac{1}{2}$  ft base

$1\frac{1}{2}$  ft high W. of cov

8855

Descend gently

West boundary 430 N. R. 31. 9

Chains

8070

Set lime stone  $18 \times 12 \times 10$  (inches)  
12. ins in the ground.for cov. of sec.  
19-24-25<sup>and</sup> 30 marked with 2  
notches on S. and 4 notcheson N. edges; dig pits  $18 \times 18$   
 $\times 12$  ins, in each sec.  $5\frac{1}{2}$ ft. dist.; and raise a mound  
of earth 4 ft. base, 2 ft high  
N. of cov.

Land, hilly and level.

Soil, stony and brown, 2<sup>nd</sup>  
and 4<sup>th</sup> gradeTimber scattered scrub Cedar  
since undergrowth of Choco  
and sage brush, 80 chd.

July 7. 1901

BOOK 1699  
10 West boundary Y. 30. N. R. 3 N.

Chains north bet. sec. 19 & 24  
Over rolling land through  
dense undergrowth of sage,  
Chico, young hyson, cholla  
and cedar.

3.00 Ascend gently

24.00 Descend gently

41.00 Bottom of descent

Set dime Stone 16 X 10 X 8 ins.

11 ins. in the ground for

$\frac{1}{4}$  sec. cov marked  $\frac{1}{4}$  on N.

Face dig pits, 18 X 18 X 12 ins.

N & 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 cov.

Over rolling country  
drainage to West.

43.00 Ascend

55.00 Descend.

West boundary T. 30 N. R. 3 W. 11

Chains

88 50

Bottom of descent.  
 Set lime stone 20x10x5 ins.  
 18 ins. in ground for cor.  
 of secs. 13-18-19 and 24  
 marked with 2 notches on N.  
 and 4 notches on S. edges. dig  
 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.  
 Land, hilly & level  
 Soil 2<sup>nd</sup> and 4<sup>th</sup> rate  
 Timber, scattered scrub  
 Cedar  
 Dense undergrowth so cho

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North bet. secs. 13 and 18  
 Over rolling land through

West boundary 430 N.R. 34.

- Chains dense under growth of Cedar and Sage.
- 4.00 Bottom flat wash course  
N.
- 7.00 As ends
- 40.00 Set lime stone  $24 \times 12 \times 3$   
ins. 16 ins in ground  
for  $\frac{1}{4}$  sec. cov. 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. W. of cov.
- 80.00 Set lime stone  $24 \times 12 \times 6$  ins  
16 ins. in ground for cov.  
of sec. 7-12-13 and 18,  
marked with 2 notches  
on N. and 4 notches on S.  
edges. dig pits  $18 \times 18 \times 12$   
ins. in each sec.  $5\frac{1}{2}$  ft.

West boundary T. 30 N. R. 3 N. 13

Chains dist.; and raise a mound  
 of earth 4 ft base 2 ft high  
 N. of cor.  
 Land hilly and level.  
 Soil stony and loam  
 2<sup>nd</sup> and 4<sup>th</sup> site  
 Timber, scattered scrub  
 cedar  
 Dense undergrowth rocks

North lat. sec. 7 and 12.  
 Over rolling land through  
 dense undergrowth of Chico  
 sage and scrub cedar  
 Descend

32.00 Flat mark corner N. N.

Ascend

40.00 Top of flat ridge

41.00 Set lime stone 20x10x4 ins.  
 12 ins in ground

Next boundary 4.30 P.M. 3<sup>rd</sup> N.

Chains for  $\frac{1}{4}$  sec cor marked  
 $\frac{1}{4}$  on W face dig pits  
 18x18x12 ins. N and S.  
 A stone 3 ft. dist and  
 raise a mound of earth  
 3 $\frac{1}{2}$  ft base, 1 $\frac{1}{2}$  ft. high W  
 of cor.

60.00 Descend

80.00 Set lime stone 24x12x4 ins.  
 16 ins in ground for cor.  
 A sec. 1-6-7- and 17.  
 marked with 7 notches on  
 W. and 4 notches on S.  
 edges; dig pits, 18x18x12 ins  
 in each sec. 5 $\frac{1}{2}$  ft. dist. and  
 raise a mound of earth 4  
 ft. base 2 ft high N of cor.  
 Land Billy and level  
 Soil strong and brown 2<sup>nd</sup>  
 and 4<sup>th</sup> rate

West boundary 430 N. R. &amp; N. 15-

Chains Timber scattered scrub  
cedar  
dense undergrowth rocks

North lot sec. 1 and 6  
Dro rolling rocky broken  
land through dense under  
growth of cedar scrub  
chico and sage brush

5.00 Flat Wash course N. W.

40.00 Set lime Stone 18 x 10 x 6 ins  
12 ins in ground for  $\frac{1}{4}$  sec.  
Cor. marked  $\frac{1}{4}$  on N. face  
dig pits 18 x 18 x 12 ins.  
N. and S. of stone 3 ft. dist.  
and raise a mound of  
earth  $3\frac{1}{2}$  ft high N. of Cor.  
Descends

80.00 Set lime Stone 30 x 12 x 5 ins  
20 ins in ground



16 West boundary of 30 N. R. 3 W.

Chains In cor. of Twp. 28 and 31 N.  
 Rs. 3 and 4 W. Marked  
 with 6 notches on each  
 edge dig pits 24 X 24 X 2  
 ins on each line N. E. and  
 W. 4 ft. and S. of stone 8 ft  
 dist. and raise a mound  
 of earth 5 ft base 2 1/2 ft  
 high S. of cor.

hand rolling and level  
 Soil stony & loam 2<sup>nd</sup> and  
 4<sup>th</sup> rate

Timber scattered scrub  
 Cedar

Dense undergrowth 80 chs.

July 7/90

North boundary 730 N.R. 3 N. 17

Chains

July 3<sup>rd</sup> At 8 am. l.m.t.  
 Set off 2301 m. on the  
 decl. arc. and 36° on the  
 lat. arc; and determine  
 a true meridian with  
 the solar, at the cor. of  
 Yrs. 30 and 31 N. R.  
 3 and 4 N.

Thence bearing N. 89° 58' E.  
 on random line along  
 the N. bdy. of Yrs 30  
 N. R. 3 N. setting temp.  
 $\frac{1}{4}$  sec. and sec. cors at  
 intervals of 4000 chs. and  
 at 478.42. chs. intersect  
 East boundary, 102 fcs. N.  
 of cor. of Yrs. 30 and 31 N.  
 R. 3 and 4 N. which is a  
 lime stone 8 x 14 x 8 ins.  
 above the ground

18 North boundary of 4.30 N.R. 3 N.

Chains marked & witnessed.

The falling answer  
 is a correction of 0° 57'  
 or 17 lks S. per mile  
 counting from the N. N.  
 corner of the 4p. Therefore  
 I run N 89° 55' N.

Set. Sec. 1 and 36

Descending over broken  
 rocky land through  
 dense undergrowth of  
 Cedar, Cholla, scrub  
 oak & sage brush.

500 Descend

1500 Gulch course N.

3900 ascend

4000 Set Sand Stone 24 x 16 x 6 ins  
 16 ins in the ground to bedrock  
 surrounded by mound  
 of stone. Stone marked

North boundary of 4.30 N. R. 3 N. 10

Chains from  $\frac{1}{4}$  sec. <sup>cor.</sup> marked  $\frac{1}{4}$  m. N. face d. and raise a mound of stone  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high N. of corner pits impracticable

61.50 Gulch course N  $25^{\circ}$  E.

Ascend.

70.00 Road bet. S. E. & N. W.

80.00 Set a Sand Stone  $24 \times 16 \times 8$  ins. 16 ins. in ground for cor.

of sec. 1-2-35 and 36 marked with 1 notches on E. and 5 notches on W.

edges. dig pits  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of corner sand badly broken and rocky

soil rocky 4<sup>th</sup> rate

North boundary of T30 N. R. 3 W.

Chains Timber scattered scrub  
cedar Mountainous land  
and dense undergrowth  
80 chs.

July 3 and 4 1901

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North 89° 55' W. bet 2 and 35.

6.00 Top of ascent

9.15 Road to Platinum Camp  
Road Bvs. N. and S.

12.00 Descend

21.00 Bottom of descent

39.60 Ascend

40.00 Set a Sand Stone 24 x 8 x 6 in  
10 ins. in the ground. To bet-  
rock surrounded by  
mound of stone. For  $\frac{1}{4}$   
sec. cov. marked  $\frac{1}{4}$  on N.  
face and raise a mound  
of stone  $3\frac{1}{2}$  ft base  $1\frac{1}{2}$  ft high

North boundary of 430 N. R. 3 W. 21

- Chains N. of cor. Pits imprac-  
ticable
- 40.25 Small gulch course S. E.  
Ascend
- 52.00 Top of ascent
- 76.00 Descend
- 80.00 Set a lime Stone 24 X 8 X 6 ins.  
bins in the ground to  
bedrock surrounded by  
mound of stone. In corner  
of Sec. 2-3-34 and 35.  
marked with 2 notch on E.  
and 4 notches on Wedges  
and raise a mound of stone  
4 ft base 2 ft high N. of cor.  
From which a cedar 10 ins.  
diam. bears  $N. 64^{\circ} \frac{3}{4} E.$  132 lbs.  
Marked. 431. N. R. 3 W. S. 35  
B. 4.  
A cedar 8 ins. diam.

22 North boundary of Y30N. R3W.

Chimney bears.  $S 0\frac{1}{2}^{\circ} W$ . 46 lks.  
dist marked Y. 30 N.-R.  
3 W. S. 3. B. 4.

ground rocky & badly broken  
Soil rocky. 4<sup>th</sup> calc  
Timber scattered scrub  
cedar Mountainous land  
and dense undergrowth  
80 chas.

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North  $89^{\circ} 55'$  W. bet. sec.  
3 and 34.

6.00	Descend
7.00	Gulch course S. W.
	Ascend
14.00	Top of rocky rim
19.50	Descend very abrupt
30.50	Descent almost perp.
33.00	Bottom of canon 300 ft deep.

North boundary of T. 38 N. R. 3 W. 23

- Chains Ascend almost steep,  
 34.60 Top of cañon wall N. W.  
 Descend  
 36.00 Bottom of side cañon  
 of Catacast  
 120 feet deep course  
 N. W.  
 45.85 N. bank of cañon set a  
 lime stone 20 x 10 x 6 ins  
 10 ins in ground for  
 N. C. to  $\frac{1}{4}$  sec. cor  
 surrounded by mound  
 of stone marked  $\frac{1}{4}$   
 N. face and raise a  
 mound of stone  $3\frac{1}{2}$   
 ft base  $1\frac{1}{2}$  ft high N. of cor.  
 cuts impracticable  
 to descend  
 53.00 Ascent more gentle  
 62.00 Top of ascent  
 80.00 Set a lime stone 24 x 10 x 8 ins



24 North boundary 400 N.P. 3 W.

Chains 18 ins in ground. In cor. of  
Ses. 3-4-33 and 34 surrounded  
by a mound of stone  
marked by notches on the  
East and West edges  
and raise a mound of  
stone 1 ft base 2 ft high  
W. of cor.

Hard rocky and badly broken  
Soil thin and rocky 4<sup>th</sup> rate  
Timber scattered scrub cedar  
mountainous land 80 elev

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N. 89° 55' W. bet ses. 4 and 33.

600 Descend

1800 Canon course N. W.

Ascend

2200 Top of ridge slope N. W.

Descend

North boundary 730 N.P. 3 W. 25

Chains

2750 Canon course N.

Ascend

3500 Top of bank

4000 Set a lime stone 24 X 10 X 6

ins. 18 ins in the ground  
 to bed rock surrounded by  
 mound of stone for  $\frac{1}{4}$  sec  
 cor. marked  $\frac{1}{4}$  on N face  
 and raise a mound of  
 stone  $3\frac{1}{2}$  ft base  $1\frac{1}{2}$  ft high  
 N. of cor pits impracticable.

5650 Canon 75 ft deep course N.

Ascend

7500 Ridge bet N. and S.

Descend

8000 Set a Sand Stone 20 X 15 X 5

ins 5 ins in the ground  
 for cor. S. to 413+32 and 33 marked  
 4 notches on E. and 2. canon N. E. of  
 from which a cedar 16 ins

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BOOK 1699

north boundary of T. 30. N. R. 3. W.

Chains in diame. brs. S.  $85^{\circ}$  E. 168 links dist.

marked T. 30 N. R. 3 W. Sec 4 - B. 1

A Cedar 12 ins in diame.

brs. S.  $12\frac{1}{4}^{\circ}$  W. 343 lbs dist

marked T. 30 N. R. 3 W. Sec 5 - B. 4.

A Cedar 12 ins in diame. brs.

N.  $42\frac{3}{4}^{\circ}$  W. 260 lbs dist

marked T. 30 N. R. 3 W. - Sec 32 B. 4.

Land mountainous rough  
and rockySoil rocky and thin 4<sup>th</sup> rili  
Timber scattered CedarMountainous land and  
dense undergrowth 80 chs.July 5<sup>th</sup> 1901N.  $89^{\circ} 55'$  W. bet sec 5 and 32.

1600 Descend

30/15 Gulch course N.

Ascend

## North boundary of T. 30 N. R. 3. W. 27

Chains

40.00 Set a lime stone  $18 \times 10 \times 5$   
 12 ins in the ground for  $\frac{1}{4}$   
 sec marked  $\frac{1}{4}$  on N. face  
 from which

A cedar 10 ins in diam.  
 br. S. 1/2 th. 11 lbs. dist  
 marked  $\frac{1}{4}$  S. 32 B. 7  
 - B. 7.

A cedar 12 ins in diam br  
 N.  $47\frac{1}{2}$  N- 55 lbs dist.  
 Marked  $\frac{1}{4}$  S. 32 B. 7.

80.00 Set a lime stone  $30 \times 10 \times 5$  ins  
 20 ins in the ground for cor  
 of Secs. 5-6-31 and 32  
 marked 5 notches on E. and  
 1 notch on W. wedges dig pits  
 $18 \times 18 \times 12$  ins in each sec.  
 $5\frac{1}{2}$  ft dist and raise a  
 mound of earth 4 ft base

28 North boundary of T. 30 N. R. 3 W.

Chains 2 ft high N. of cor.

Land mountainous and rocky

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

Timber, scrub cedar.

Mountainous land and dense  
undergrowth 80 chs.

N. 89° 05' N. bet sees 6-31.

Ascend

6.50 Road bet. S.E. and N. W.

16.35 Road bet. S.E. and N. W.

18.40 Road bet. S.E. and N. W.

Top of ascent

30.50 Descend

40.00 Set a Lime Stone 30 X 10 X 4 ins  
20 ins in the ground marked  
 $\frac{1}{4}$  on N. face dig pits 18 X 18 X 12  
ins E. and W. of stone 3 ft  
dist and raise a mound

North boundary of Y. 20 N. R. 3 W. 29

Chains of earth  $3\frac{1}{2}$  ft high W of cor.  
 76.60 Road hrs. N. and S.  
 bottom of descent

78.42 Corner of Tps. 30 and 31 N.  
 R. 3 and 4 W.

Land rolling

Soil strong and brown 2<sup>nd</sup>  
 and 4<sup>th</sup> rate

Timber none

Dense undergrowth

July 6<sup>th</sup> 1901

Chains

# Boundaries of

## T 30 N. - R 3 W.

### Latitudes Departures and Closing Error

Line Designated	True Bearing	Distance	Latitude		Departure	
			N.	S.	E.	W.
South Bay	S. 89° 55' N.	479.27		.30		479.27
West "	North	480.-	480.00			
North "	S 89° 55' E.	478.42		102. 72	478.42	
East "	South	480.-		480.00		
Convergency,					.52	
			480.	481.32 480.	478.94	479.27 478.94
				1.32		.33

R.H.S. correct

Chino

## General Description

This township is rolling hills in the South part very broken and mountainous in the North and West. With cedar and Pine timber in the North and West. Francis Jacoby

comptroller

U.S. Deputy Surveyor.



A P, P R O V A L

OFFICE OF THE U.S. SURVEYOR GENERAL.

Phoenix, Arizona.

August 2-1902.

The foregoing field notes of the survey of North & West bdys,  
Tp. 30 N., R. 3 W.  
 executed by F. D. Jacobs Compassman  
 under ~~his~~ Contract No. 71- dated June  
13th, 1900. having been critic-  
 ally examined, and the necessary correct-  
 ions and explanations made, the said  
 field notes, and the surveys they des-  
 cribe, are hereby approved.

Wm. H. Rice  
 U.S. Sur. Gen. for Ariz.,