

BOOK "C"

BOOK 2653

# FIELD NOTES

DEC 23 1913

OF THE SURVEY OF THE  
South

and completion of WEST Boundaries of Tp. 22 S. R. 16 E.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

John F. Hesse

In the capacity of U. S. Surveyor, under instructions dated September 19<sup>th</sup>, 1912, issued by the United States Surveyor General to govern surveys included in Group No. 18, which were approved by the Commissioner of the General Land Office, September 27<sup>th</sup>, 1912, pursuant to authority contained in the Act of Congress dated August 23<sup>rd</sup>, 1912

Survey commenced October 21, 1912.

Survey completed October 29, 1912.

BOOK 2653

# INDEX DIAGRAM.

Township 22 S, Range 16 E

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## Survey of S. Bdy. of Tp. 22 S. R. 16 E.

Chains. Survey commenced October 21, 1912 and executed with a W. and L.E. Gurley transit, with solar attachment, not numbered. The horizontal limb is provided with one double vernier, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was approved by the Supervising Surveyor August 28, 1912.

I examine the adjustments of the transit and find them correct, then to test the solar apparatus, by comparing its indications, resulting from solar observations, made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows

At my camp, which is situated near the cor. of secs. 26, 27, 34 and 35, Tp. 22 S. R. 16 E., latitude  $31^{\circ}29'N$ , longitude  $110^{\circ}40'20''W$ , I set off  $31^{\circ}29'N$  on lat. arc,  $10^{\circ}48'S$  on the decl. arc and at 4h.30m p.m. l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my station.

At 5h.33m. p.m. by my watch which has correct l.m.t. I observe Polaris at Eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

October 21, 1912.

October 22, <sup>1912</sup> At 7h.00m a.m. l.m.t., I lay off the azimuth of Polaris  $1^{\circ}21\frac{1}{2}'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone already set 5 chs. N. of my station, on which the meridian falls 0.4 ins. E. of the mark determined by the solar.

At 7h.30m. a.m. l.m.t., I set off  $31^{\circ}29'N$  on the lat. arc,  $11^{\circ}01\frac{1}{2}'S$  on the decl. arc and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.4 ins. E. of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'21''$  West and East of the 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 8h.00m a.m. l.m.t. is  $N. 13^{\circ}45' W$ . the angle thus determined gives the mag. decl.  $13^{\circ}45' E$ .

Survey of S. bdy. of Tp. 22S. R. 16 E.

Chains	<p>At 7h.00m. a.m. l.m.t., I set off 31° 28' N. on the lat. arc, 11° 04' S on the decl. arc and determine a meridian at the cor. of secs. 35 and 36, estab. by me yesterday when subdividing T. 22S. R. 16 E. as described in Book "D", thence I run, East, along S. bdy. of Sec. 36, on true line, Over mountainous land, descending through dense brush and heavy timber.</p>
14.45	Road in wash, 50 lks. wide, course N.W., road bears N.W. and S.E., ascend.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S36 in N. half, from which An oak 13 ins. diam., bears N20° E 170 lks. dist., marked $\frac{1}{4}$ S36BT. An oak 14 ins. diam., bears N3° W 176 lks. dist., marked $\frac{1}{4}$ S36BT.
49.62	Intersect W. bdy. of T. 22S. R. 17 E. at a point from which the cor. of Tps. 22 and 23 S. Rgs. 16 and 17 E. bears S0° 10' E. 7.03 chs. dist., which is a malpais stone 12x12x8 ins. above ground, marked and witnessed as described by the Surveyor General: I destroy markings on W. edge of stone and cut out the bearing trees in W. secs. At point of intersection set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for closing Tp. cor. of Tps. 22 and 23 S. R. 16 E., marked on brass cap, 1912; CC, E. of center. R17E in E. and T22S, S36, S1, T23S, R16E in W. half; T22S, S31 in N.E. T23S, S6 in S.E. quadrant, from which. An oak 10 ins. diam., bears S10 $\frac{1}{2}$ ° W 140 lks. dist., marked CCT23SR16ES1BT. An oak 8 ins. diam., bears N44 $\frac{1}{2}$ ° W 135 lks. dist., marked CCT23SR16ES36BT. Land, rough mountainous. Soil, rocky, 4th rate. Timber, heavy oak. Undergrowth, dense oak brush.
Note	<p>At this cor. I set off 11° 07' S. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 31° 28' N. N.</p> <p style="text-align: right;">October 22, 1912.</p>
	<p>October 25<sup>1912</sup> At 7h.30m a.m. l.m.t., I set off 31° 28' N. on the lat. arc, 12° 04' S. on the decl. arc and determine a meridian at the cor. of secs. 35 and 36, described in Book "D".        Thence I run,        West, on S. bdy. of Sec. 35, on true line,        Over mountainous land, ascending through heavy timber and dense brush.</p>
4.12	Fence, bears N.W. and S.E.
24.60	Ridge bears N. and S., descend.
36.50	Gulch, 20 lks. wide, course N. ascend.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S35 in N. half; from which An oak 9 ins. diam., bears N2 $\frac{1}{2}$ ° E 122 lks. dist., marked $\frac{1}{4}$ S35BT An oak 6 ins. diam., bears N33 $\frac{1}{4}$ ° E 134 lks. dist., marked $\frac{1}{4}$ S35BT
44.90	Summit of high round rocky hill, descend.
51.38	Fence, bears N.W. and S.E.
60.00	Cross through low saddle in mt., and ascend along N.E. slope.
70.50	Top of ascent, bears N.W. and S.E., leave dense brush, thence over level mesa.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 34 and 35, marked on brass cap, 1912; T22S in N. and R16E in W. half; S34 in N.W. and S35 in N.E. quadrant, from which An oak 7 ins. diam., bears N6 $\frac{1}{2}$ ° E 167 lks. dist marked T22SR16ES35BT

Chains	Survey of the South Bdy. Of Tp. 22 S. R. 16 E.
	A mesquite 8 ins, diam., bears N5 <sup>1</sup> / <sub>2</sub> °W. 266 lks. dist., marked T22SR16ES34BT
	Land, rough mountainous Soil, rocky, 4th rate. Timber, heavy oak and pinon. Undergrowth, dense oak and manzanita brush 70.00 chs.
Note	At this cor. I set off 12°10' S. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 31°28' N.
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	West, along S. bdy. of sec. 34, on true line, Over mountainous land, through heavy timber.
0.30	Leave mess N. and S., enter dense brush and descend,
33.00	Gulch, 20 lks. wide, course N.W., ascend. Timber becomes
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, <sup>1912</sup> S34 in N. half, No trees available therefore raise mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable
48.50	Ridge, bears N. and S., descend.
54.35	Wash 25 lks. wide, course N.W., ascend.
69.86	Fence, bears N.E. and S.W.
72.87	Road, bears N.E. and S.W.
73.22	Wash 50 lks. wide, course N.E., ascend.
77.56	Fence, bears N.E. and S.W.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 33 and 34, marked on brass cap, <sup>1912</sup> T22S in N. and R16E in W. half; S33 in N.W. and S34 in N.E. quadrant, No trees available therefore raise mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Land, rough mountainous. Soil, rocky, 4th rate. Timber, heavy oak 33.00 chs. scattering 47.00 chs. Undergrowth, dense oak and manzanita
	October 25, 1912.
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	October 26 <sup>1912</sup> At 7h.30m a.m. l.m.t., I set off 31°28' N. on the lat. arc, 12°24 $\frac{1}{2}$ ' S. on the decl. arc and determine a meridian <sup>with the solar</sup> at the cor. of secs. 33 and 34, above described. Thence I run,
	West, along S. bdy. of sec. 33, on true line, Over mountainous land, ascending through scattering timber and dense brush.
8.94	Mill bears S21°37' E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, <sup>1912</sup> S33 in N. half, from which An oak 10 ins. diam., bears N89 $\frac{1}{4}$ °E. 25 lks. dist., marked $\frac{1}{4}$ S33BT. An oak 14 ins. diam., bears N4 $\frac{1}{2}$ °W. 24 lks. dist., marked $\frac{1}{4}$ S33BT.
67.00	Ridge, bears N. and S., descend.
74.00	Drain, 10 lks. wide, course N.W.
79.75	Same drain, 10 lks. wide, from N.E., course S.W.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 32 and 33, marked on brass cap, <sup>1912</sup> T22S in N. and R16E in W. half; S32 in N.W. and S33 in N.E. quadrant, from which An oak 6 ins. diam., bears N37°E. 80 lks. dist., marked T22SR16ES33BT. An oak 9 ins. diam., bears N40 $\frac{1}{2}$ °W 143 lks. dist., marked T22SR16ES32BT.
	Land, rough mountainous. Soil, rocky, 4th rate. Timber, scattering oak and pinon. Undergrowth, dense manzanita and oak brush.
Note	At this cor. I set off 12°30 $\frac{1}{2}$ ' S. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 31°28' N.

BOOK 2653

Survey of South Bdy. of Tp. 22 S. R. 16 E.

Chains West, along S. bdy. of sec. 32, on true line,  
 Over mountainous land, descending through scattering  
 timber and dense brush.

1.50 Drain, 10 lks. wide, same as crossed at 79.75 chs. on S.  
 bdy. of sec. 33., from S.E., course N.W.

11.60 Same drain, 10 lks. wide, from N.E., course S.W.

13.88 Intersect East bdy. of NORTON MINING CLAIM at a point  
 from which COR. NO6 bears N27°30'W. 3.45 chs. dist.

21.63 Road, bears N.W. and S.E.

22.65 Intersect West bdy. of JANUARY MINING CLAIM at a point  
 from which COR. No6 bears S38°E 1.99 chs. dist.

23.40 Alum Canyon 25 lks. wide, course N.W., ascend.

37.00 Ridge, bears N. and S., descend.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, <sup>1912</sup>S32 in N.  
 half, from which

An oak 5 ins. diam., bears N13 $\frac{1}{2}$ °E 31 lks. dist.,  
 marked  $\frac{1}{4}$ S32BT

A Pine 6 ins. diam., bears N53 $\frac{1}{4}$ °W 28 lks. dist.,  
 marked  $\frac{1}{4}$ S32BT.

40.70 Wash, 20 lks. wide, course N., ascend.

78.40 Ridge, bears N. and S., descend along steep rocky S.W.  
 slope.

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the  
 ground for cor. of secs. 31 and 32, marked on brass cap, <sup>1912</sup>T22S  
 in N and  
 R16E in W. half;  
 S31 in N.W. and  
 S32 in N.E. quadrant; No trees available, therefore raise  
 mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor. Pits  
 impracticable.  
 Land, rough mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scattering oak, pine and yinon  
 Undergrowth, dense oak and manzanita brush.

October 26, 1912.

October 29<sup>1912</sup> At 7h.30m. a.m. l.m.t., I set off 31°28'N  
 on the lat. arc; 13°25 $\frac{1}{2}$ 'S. on the decl. arc and deter-  
 mine a meridian with the solar at the cor. of secs 31 & 32,  
 above described, Thence I run,  
 West, along S. bdy. of sec. 31, on true line,  
 Over rough mountainous land, descending through scattering  
 timber and dense brush.

24.70 Canyon, 20 lks. wide, course N30°W., ascend.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, <sup>1912</sup>S31 in N.  
 half. No trees available therefore raise a mound of stone  
 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

75.00 Ridge, bears N. and S., descend.

80.00 Set temp. cor. of Tps. 22 and 23 S. Rgs. 15 and 16 E.  
 When I run South on the West bdy. of Tp. 22 S. R. 16 E.  
 I intersect this line at a point 74 lks. E. of <sup>this</sup> temp. cor.  
 of Tps. 22 and 23 S. Rgs. 15 and 16 E., which makes this  
 mile, 79.26 chs., therefore I set cor. at

79.26 The cor. of Tps. 22 and 23 S. Rgs. 15 and 16 E., hereinafter  
 Land, rough mountainous. described.  
 Soil, rocky, 4th rate.  
 Timber, scattering oak.  
 Undergrowth, dense oak and manzanita brush,

October 29, 1912.

BOOK 2653

Survey of Completion of West Eddy. of T. 22 S. R. 16 E.

Chains. October 28, 1912 From cor. of secs. 19, 24, 25 and 30, which is a granite stone 8x8x6 ins. above ground, mkd. & witnessed as described by the Surveyor General, Iron. South, bet. secs. 25 and 30, on true line.

Over mountainous land, descending through scattering timber and dense brush.

11.30 Wash, 15 lks. wide, course N.W., ascend.

16.44 Intersect E. bdy. of CALIFORNIA MINING CLAIM at a point from which COR. No7 bears N23°22'W. 179 chs. dist.

27.31 U.S. MINERAL MONUMENT No3 bears N60°54'W.

38.22 Intersect S. bdy. of CALIFORNIA MINING CLAIM at a point from which COR. No4 bears S66°38'W. 18 lks. dist.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1912; S25 in W. and S30 in E. half, from which

An oak 9 ins. diam., bears N89 $\frac{1}{2}$ °E. 58 lks. dist. marked  $\frac{1}{4}$ S30BT

An oak 10 ins. diam., bears S9 $\frac{1}{2}$ °W. 44 lks. dist., marked  $\frac{1}{4}$ S25BT

From this cor. U.S. MINERAL MONUMENT No3 bears N37°16'W.

42.90 Ridge, bears N.W. and S.E., descend.

64.40 Wash, 30 lks. wide, course N.W., ascend.

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap, 1912;

T22S in N. half;  
R15E, S25 in N.W.  
R16E, S30 in N.E.  
S31 in S.E. and  
S36 in S.W. quadrant, from which

An oak 10 ins. diam., bears N35 $\frac{1}{2}$ °E. 50 lks. dist., marked T22SR16ES30BT

An oak 8 ins. diam., bears S31°E. 38 lks. dist., marked T22SR16ES31BT

An oak 9 ins. diam., bears S55°W. 57 lks. dist., marked T22SR15ES36BT

An oak 12 ins. diam., bears N21°W. 88 lks. dist., marked T22SR15ES25BT

Land, rough mountainous.  
Soil, rocky, 4th rate.  
Timber scattering oak  
Undergrowth, dense oak and manzanita brush.

October 28, 1912.

October 29, 1912, At the cor. of secs. 25, 30, 31 and 36, <sup>above described</sup> I set off 13°31'S. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 31°29'N. Thence Iron, South, bet. secs. 31 and 36, on true line,

Over mountainous land, ascending through scattering timber and dense brush.

3.00 Drain, 10 lks. wide, course N.E.

16.80 Same drain, 10 lks. wide, from S.E., course N.W.

30.50 East end of ridge, bears E. and W., descend.

33.40 Same drain, 10 lks. wide, from S.W., course N.E.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1912; S36 in W. and S31 in E. half; from which

A pine 8 ins. diam., bears N80°E. 65 lks. dist., marked  $\frac{1}{4}$ S31BT

A pine 6 ins. diam., bears N84°W. 81 lks. dist., marked  $\frac{1}{4}$ S36BT

46.50 Top of round rocky hill, descend along S.W. slopes

79.96 Intersect S. bdy. of Tp. 74 lks. E. of temp. cor. of Tps. 22 and 23 S. Rgs. 15 and 16 E., set by me this day when surveying South boundary of Tps. 22 S. Rgs. 15 and 16 E.

At the point of intersection set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 22 and 23 S. Rgs. 15 and 16 E., marked on brass cap, 1912;

T22S in N.  
R16E in E.  
T22S in S. and  
R15E in W. half;

Completion of  
Survey of West Edy. of Tp. 22 S. R. 16 E.

Chains.

S36 in N.W.

S31 in N.E.

S6 in S.E. and

S1 in S.W. quadrant; no trees available, therefore  
raise mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high S. of cor.

Pits impracticable.

Land, rough mountainous.

Soil, rocky, 4th rate.

Timber scattering oak, pine and pinon.

Undergrowth, dense oak and manzanita brush..

October 29, 1912.

BOOK 2658

Boundaries of Tp. 22. S. R. 16 E.

Latitude, departures, and closing errors.

Line Designated	Courses	Distances Chs,	Latitudes		Departures	
			Chs. North	Chs. South	Chs. East	Chs. West
EAST-BOUNDARY	S2°16'W	43.93		43.90		1.74
	S0°34'W	40.04		40.04		0.40
	S0°13'W	39.90		39.90		0.15
	S0°11'W	40.84		40.84		0.13
	S0°04'W	39.86		39.86		0.05
	S0°01'W	40.78		40.78		0.01
	S0°05'E	80.80		80.80	0.12	
	S0°03'E	39.89		39.89	0.02	
	S0°09'E	40.82		40.82	0.11	
	S0°10'E	73.21		73.21	0.21	
SOUTH-BOUNDARY	West	448.88				448.88
WEST-BOUNDARY	North	159.96	159.96			
	N0°06'E	40.78	40.78		0.07	
	N0°10'W	39.25	39.25			0.12
S.J.deS.P.L.G.BDY.	N.0°3'W.	38.29	38.29			0.03
	N56°25'E	75.02	41.50		62.50	
SUBDIVISIONS	East	16.88			16.88	
	N89°51'E	80.12	0.21		80.12	
	S89°59'E	79.90		0.02	79.90	
	East	80.12			80.12	
	N0°01'W	80.00	80.00			0.02
NORTH-BOUNDARY	East	80.00			80.00	
	North	80.10	80.10			
Convergency		52.42			52.42	

Totals	480.09	480.06	452.92	451.53
	480.06		451.53	
Error in lat	0.03			
Error in dep	1.39			

General Description  
Bdys.

This township is all rough and mountainous and covered with undergrowth and timber. The township is watered by small creeks and springs.

*John P. Hesse*  
U. S. Surveyor

**CERTIFICATE OF ASSISTANTS.**

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,  
 ..... **John F. Hesse** ....., U. S. Surveyor, during the periods and in the capacities  
 stated opposite our several signatures, in surveying all those parts or portions of the  
South and West boundaries of Tp. 22 S. Rg. 16 E.

of the Gila and Salt River <sup>Base and</sup> ..... Meridian, in the State of Arizona  
 which are represented in the foregoing field notes as having been executed by him, and under his direc-  
 tion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and  
 faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
<i>Ge. E. Long</i>	<i>October 16, 1912</i>	<i>November 18, 1912</i>	<i>Chairman</i>
<i>D. Q. Nicoll</i>	<i>October 16, 1912</i>	<i>November 18, 1912</i>	<i>Chairman</i>
<i>F. G. Ayers</i>	<i>October 16, 1912</i>	<i>November 18, 1912</i>	<i>Flagman</i>
<i>W. L. Ray</i>	<i>October 16, 1912</i>	<i>November 8, 1912</i>	<i>Coverman</i>
<i>Juan Serrano</i>	<i>October 18, 1912</i>	<i>November 18, 1912</i>	<i>Axman</i>
<i>Jose Hartine</i>	<i>November 9, 1912</i>	<i>November 18, 1912</i>	<i>Axman</i>

Subscribed and certified to before me on the dates of the final service as shown above.

*John F. Hesse*  
 U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, John F. Hesse, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona, for Group 18 bearing date of the 19th day of September, 1912, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the South and West boundaries of Tp. 22 S. Rg. 16 E.

Base and Meridian of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John F. Hesse  
U. S. Surveyor.

Subscribed by said John F. Hesse, and sworn to before me }  
this 23rd day of December, 1913



Frank S. Ingalls  
Surveyor General of Arizona

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, July 21, 1914

The foregoing field notes of the survey of the South Boundary and Completion of the West Boundary of Township No. 22 South, Range No. 16 East, of the Gila and Salt River Base and Meridian, Arizona

executed by John F. Hesse, U. S. Surveyor under his special instructions dated September 19, 1912, 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 of Arizona

~~I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.~~