

1853-  
Book "B"

# FIELD NOTES

1000 miles  
July 7/00

OF THE SURVEY OF THE

West and North Boundaries of Township  
21 North Range 6 West

1853.

1853

Of the Gila & Salt River Base and Meridian,

AS SURVEYED BY

John J. Fisher

, United States Deputy Surveyor,

Under his Contract No. 1344, dated June 7<sup>th</sup>, 189

Survey commenced July 17<sup>th</sup>, 189

Survey completed Aug 3<sup>rd</sup>, 189

To close  
Survey & etc.

NAMES AND DUTIES OF ASSISTANTS.

Geo. O Thomas and George Cassidy  
Chairmen, Bohunil Mredia  
Moundman, James Skeley  
Axman, and Frank Cassidy  
Flyman,

BOOK 1853

INDEX DIAGRAM.

Township 21 N., Range 6 W.

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*West 1/4 Township*

Meanders Page.....

921c

BOOK 1853

PRELIMINARY OATHS OF ASSISTANTS.

We, George O Thomas and George Cassidy

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths 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 West and Walk b'dys T. 21 N. R. 6 W.

Geo O Thomas, Chainman.  
George Cassidy, Chainman.

Subscribed and sworn to before me this 17<sup>th</sup>  
day of July, 1895



My commission expires  
May 19, 1908

J. J. Fisher  
Notary Public

I, Bohumil Mudra and \_\_\_\_\_

do solemnly swear that I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me, to the best of my skill and ability, in the survey of the West and Walk b'dys T. 21 N. R. 6 W.

Bohumil Mudra, Moundman.  
\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this 17<sup>th</sup>  
day of July, 1895



My commission expires  
May 19, 1908

J. J. Fisher  
Notary Public

I, James Sheehey and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me, to the best of our skill and ability, in the survey of the West and Walk b'dys T. 21 N. R. 6 W.

James X Sheehey, Axman.  
mark, Axman.

Subscribed and sworn to before me this 17<sup>th</sup>  
day of July, 1895



My commission expires  
May 19, 1908

J. J. Fisher  
Notary Public

I, Frank Cassidy, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the West and Walk b'dys T. 21 N. R. 6 W.

Frank Cassidy, Flagman.

Subscribed and sworn to before me this 17<sup>th</sup>  
day of July, 1895



My commission expires  
May 19, 1908

J. J. Fisher  
Notary Public

Chains

Survey commenced July 17, 1905 and executed with a W. & L. E. Gurley Light Mountain transit ~~Not numbered~~ with Smith Solar Attachment made by Young & Son. 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.

The instrument was examined tested on the true meridian at Phoenix, found correct and was approved by the Surveyor General of Arizona July 1, 1905.

I examined the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indication resulting from solar observations made during a.m. and p.m. hours with a true meridian determined by observations of Polaris, I proceed as follows:-

July 17, at the closing corner of Tps. 20 and 21 N., R. 6 W. established by me July 15, in lat.  $35^{\circ} 6' 43''$  N. long.  $112^{\circ} 55' 03''$  W. At 2 h.p.m. lmt. I set off  $35^{\circ} 7'$  on the lat. arc and  $21^{\circ} 13' N.$  on the decl. arc and determined with the solar a true meridian and mark a point thereof on a stone set firmly in the ground 5 chs. N. of the corner.

At 11 h. ~~43~~ m.p.m. by my watch which is 6 m. fast of lmt. I observed Polaris at Eastern elongation in accordance with the manual of instructions and mark a point on the line thus determined on ~~the~~ a plug driven in the ground 5 chs. N. of my station.

July 17, 1905.

July 18. at 7 h. 45 m. a.m. lmt. I lay off the azimuth of Polaris  $1^{\circ} 28' N.$  to the W. and mark the true meridian thus determined by cutting a small groove in the stone set July 17, on which the true meridian falls 0.3 inch W. of the mark determined by the solar.

At 8 h. a.m. lmt. I set off  $35^{\circ} 07'$  on the lat. arc and  $21^{\circ} 06' N.$  on the decl. arc and mark a point in the true meridian determined by the solar by a cross on the stone already set 5 chs. N. of my station, this mark falls 0.4 ins. W. of the true meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observation defines positions for true meridians respectively about  $0' 16''$  E. and  $0' 21''$  W. of the true meridian established by Polaris observation, therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 a.m. is N.  $14^{\circ} 30'$  W., the angle thus determined gives the magnetic declination of  $14^{\circ} 30'$  E.

I begin at the closing corner of Tps. 20 & 21 N. R. 6 W. which I established July 15, 1905.

whence  $1/4$  sec. cor. between Secs. 1 & 5, T. 20 N. R. 6 & 7 W. bears S.  $0^{\circ} 42'$  E. 23.79 chains. *as described by the*

Thence I run,

N  $0^{\circ} 42'$  W. bet. Secs. 1 & 32.

Descend through timber.

8.00 Enter Valley, course North Easterly.

20.00 Leave Valley, ascend mountain,

37.93 Closing corner, on old standard line for T. 20 N. R. 6 & 7 W. which I changed to closing cor. for T. 20 N. R. 7 W., from this point I destroyed all the corners ~~which~~ ~~stand~~ on the old Fifth Standard through R. 6 W. all of which I found up to the  $1/4$  cor. between Secs. 34 & 35 of said old Fifth Standard. Said closing corner is a lime stone 6x8x6 ins. above ground, firmly set and marked and witnessed as described by the Sur. General.

West Boundary T. 21 N. R. 6 W.

Chains  
7.60 Thence N.88°16' W. to Standard Cor. T. 21 N. Rs.6 & 7 W. which is a cedar tree marked and witnessed as described by the Surveyor General. *I changed tree originally marked for sec. 31, for sec. 32.*  
Thence I run  
1.84 N. through scattering timber and rolling mountaneous country, *on W. bdy. Sec. 32.*  
Set a lime stone 16 x 10 x 8 ins. set 12 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stones 2 ft. base, 1-1/2 ft. high W. of cor.  
21.00 Cross canon 20 lks. wide, course N.E.  
41.84 Set a lime stone 36x24x20ins. in mound of stones for Cor. Secs. 32 & 29, marked 1 groove on S. and 5 grooves on N. faces, and raised a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor.  
Land mountaneous.  
Soil stony, third and fourth rate.  
Timber scattering cedar and pine.  
Mountaneous or heavily timbered land 68.00 chs.

40.00 N. on W. bdy. Sec. 29. Through dense timber over rolling mountains. Set a lime stone 16x6x5ins. 12 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stones 2 ft. base, 1-1/2 ft. high W. of cor.  
A pinon 6 ins. diam. bears S. 36-1/4 ° E. 126 lks. marked 1/4 S. 29 B.T.,  
52.00 Cross gulch 20 lks. wide, course E. Ascend through dense timber.  
65.00 Cross ridge, course E. and W. Descend.  
80.00 Set a lime stone 20x12x8ins. in a mound of stones for cor. of Secs. 20 & 29 marked 2 grooves on S. and 4 grooves on N. faces, whence a pinon 6 ins. diam. bears S. 29° E. 19 lks. dist. marked T. 21 N. R. 6 W. S. 29 B.T.  
A pinon 5 ins. diam. bears N. 46° E. 131 lks. dist. marked T. 21 N. R. 6 W. S. 20 B.T.  
Land mountaneous.  
Soil rocky, fourth rate.  
Timber pine and cedar.  
Mountaneous or heavily timbered land, 80.00 chs.

July 18. At the above cor. I set off 21° 04' N. on the decl. arc and at 12 h. lmt. observed the sun on the meridian, the resulting latitude is ~~35° 28'~~ 35° 09'

12.50 North on W. boundary Sec. 20.  
20.00 Descend, through scattering timber.  
40.00 Cross dry wash, 20 lks. wide, course N.E. Leave timber.  
Set lime stone, 20x14x9ins. 16 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stones 2 ft. base, 1-1/2 ft. high W. of cor.  
No trees, pits impracticable.  
50.00 Enter timber.  
80.00 Set a lime stone 16x10x8ins. 12 ins. in ground for cor. of Secs. 17 & 20, marked 3 grooves on N. and S. faces and raised a mounce of stones 2 ft. base, 1-1/2 ft. high W. of cor.

Chains	
	<p>Whence a cedar 8 ins.diam. bears N.6°E. 79 lks.marked T.21 N.R.6 W.S.17 B.T.                      A cedar 10 ins.diam.bears S.62-1/2°E.223 lks.dist. marked T.21 N.R.6 W.S.20 B.T.                      Land, mountaneous.                      Soil, rocky, fourth rate.                      Timber, dense, pine and cedar.                      Mountaneous or heavily timbered land 80.00 chs.</p>
<p>40.00  80.00</p>	<p>July 19: At 7 h.a.m.lmt.I set off <del>35209'</del> on the lat. arc and 20° 56' Non the decl.arc and determine the true meridian with the solar at the cor.of Secs.17 &amp; 20. North on W.bdy.Sec.17.                      Through scattering timber over rolling mountaneous country.                      Set a lime stone 20x16x8ins. 16 ins.in ground for 1/4 Sec cor. marked 1/4 on W.face and raised a mound of stones 2 ft.base 1-1/2 ft.high W.of cor.                      No trees, pits impracticable.                      Set a lime stone 16x12x6 ins. 12 ins.in ground for cor. of Secs.8 and 17, marked 4 grooves on S. 2 grooves on N. faces and raised a mound of stone 2 ft.base, 1-1/2 ft.high&amp;W.of cor.                      No trees, pits impracticable.                      Land, rolling mountaneous.                      Soil, loam and rocky, second and third rate.                      Timber, scattering cedars.                      Mountaneous land, 80.00 chs.</p>
<p>16.50 40.00  50.30 71.75 80.00</p>	<p>North on W. bdy. Sec.8.                      Through scattering timber over rolling mountaneous country.                      Cross dry wash, 10 lks.wide, course E.                      Set a lime stone 16x8x8ins.12 ins.in ground for 1/4 Sec. cor.marked 1/4 on W.face,raise mound of stones 2 ft. base, 1-1/2 ft.high, W.of cor.whence                      A cedar 18 ins.diam.bears N.72-1/4° E. 229 lks.dist. marked 1/4 S.8 B.T., no other trees available.                      Cross dry wash, 10 lks.wide, course N.E.                      Cross dry wash, 10 lks.wide, course N.E.                      Set lime stone 16x10x7 ins. 12 ins.in ground for cor. of Secs.5 &amp; 8, marked 5 grooves on S. and 1 groove on N.faces and raised a mound of stones 2 ft.base 1-1/2 ft.high&amp;W.of cor.                      No trees, pits impracticable.                      Land, mountaneous,                      Soil, gravel and rocky, second and third rate.                      Timber, scattering cedars.                      Mountaneous land, 80.00 chs.</p>
<p>29.75 40.00  72.50 80.00</p>	<p>North on W. bdy. Sec.5.                      Over rolling mountaneous country.                      Cross wash, 10 lks.wide, course E;                      Set Lava rock 18x8x8 ins. 12 ins.in ground for 1/4 Sec. cor.marked 1/4 on W.face and raise mound of stone, 2 ft.base, 1-1/2 ft.high, W.of cor.                      No trees, pits impracticable.                      Cross wash, 10 lks.wide, course N.E.                      Set a lava stone 20x12x12 ins.16 ins.in ground, for cor.of Tps.21 &amp; 22 N. R.6 &amp; 7 W. marked                      22 N. on N.E.                      6 W. on S.E.                      21 N. on S.W.                      7 W. on N.W. faces, with six notches on each edge</p>

Chains

and raised a mound of stone 4 ft. base, 3-1/2 ft. high  
 S. of cor.

Land, mountaneous,  
 Soil, gravel and rocky, second and third rate.  
 No timber.  
 Mountaneous land, 80.00 chs.

July 19, 1905.

July 20:- At 7 h.a.m., l.m.t. I set off 35° 12' on the  
 lat. arc, 20° 45' N. on the decl. arc and determined a  
 true meridian with the solar at the cor. of Tps. 21  
 and 22 N. Rs. 5 and 6 W. a lava stone 14x12x12 ins.  
 above ground, firmly set and marked and witnessed  
 as described by the Surveyor General.

Thence I run,  
 West on a random line along the N. bdy. of T. 21 N. R. 6  
 W. establishing temporary 1/4 sec. and sec. cor. at  
 intervals of 40.00 chs.; and at 390.41 chs. cor. of  
 Tps. 21 and 22 N. Rs. 6 and 7 W. bears S. 4.57 chs.

This falling and distance being out of limits for  
 closing, I examine and test my own work and find the  
 error to be in the W. bdy. T. 21 N. R. 5 W., therefore I  
 return to standard cor. Tps. 20 and 21 N. Rs. 5 and 6  
 W. and retrace the W. bdy. T. 21 N. R. 5 W.

July 22: At 7 h.a.m. l.m.t. I set off 35° 12' on the  
 lat. arc. and 20° 22' N. on the decl. arc and determine  
 a true meridian with the solar at the cor. of Tps. 21  
 and 22 N. Rs. 6 and 7 W.

Having retraced the W. boundary of T. 21 N. R. 5 W. and  
 finding that the said boundary is 6 mi. 4.35 chs. long  
 and with falling of 2.05 chs. to the E. and having  
 set <sup>recently</sup> new cor. of Tps. 21 and 22 N. R. 6 W. at S. 0° 14' W.  
 4.35 chs. from old Tp. cor.; this gives a falling of the  
 random line on the N. bdy. of T. 21 N. R. 6 W. of 22 lks.  
 N. of cor. of Tps. 21 and 22 N. R. 6 and 7 W.

Therefore, in order to throw the excess of the length of  
 the random line caused by the irregularity of the W.  
 bdy. of T. 21 N. R. 5 W. in the E. half of the tier of  
 Sections bordering on said Tp. line,

I run,  
 N. 89° 58' E. on N. bdy. of Sec. 5.

Descr'd.

Enter Chino Valley, course S. E.

Cross road, course N. W. and S. E.

Set a lime stone 16x10x10 ins. 12 ins. in ground for 1/4  
 sec. cor. marked 1/4 on N. face, raised a mound of stones  
 2 ft. base, 1-1/2 ft. high N. of cor.

No trees, pits impracticable.

Over level land,

56.80 Leave Chino Valley,

Ascend steep mountain side.

68.36 To cor. Secs. 4, 5, 32 and 33, set a lime stone 16x10x7 ins.  
 12 ins. in ground, marked 4 grooves on E. and 2  
 grooves on W. faces, raised mound of stones 2 ft. base  
 1-1/2 ft. high W. of cor.

Land, level and mountaneous.

Soil, loam and rocky, 1st. and 3rd. rates.

No timber.

Mountaneous land, 18.56 chs.

7.00  
 16.50  
 26.00 28.36



North Boundary T. 21 N. R. 6 W.

Chains	N.89°58'E, on N.bdy.Sec.4. Ascend.
9.50	To summit of Mountain. Descend.
40.00	Set a sand stone 16x8x6 ins. in mound of stones for 1/4 sec.cor.marked 1/4 on N.face and raised a mound of stones 2 ft.base, 1-1/2 ft.high N.of cor. No trees, pits impracticable.
41.50	Cross canon, 20 lks.wide, course S.W.
80.00	Set a sand stone 24x12x8 ins. in mound of stones for cor.secs.3,4,33 and 34 marked 3 grooves on E. and W. edges and raised a mound of stones 2 ft.base 1-1/2 ft.high W.of cor. whence A cedar 6 ins.diam.bears N.20°45'W.69 lks. marked T.22 N.R.6 W.S.33 B.T. A cedar 24 ins.diam.bears S.46-3/4°E. 183 lks.dist. marked T.21 N.R.6 W.S.3 B.T. Land, mountaneous. Soil, rocky, 3rd.rate. Timber, scattering cedar. Mountaneous land, 80.00 chs.
40.00	N.89°58'E. on N.bdy.Sec.3. Ascend over rolling mountaneous country. Set a sand stone 18x12x6ins. in monument of stone for 1/4 sec.cor.marked 1/4 on N.face and raised a mound of stone 2 ft.base 1-1/2 ft.high W.of cor. No trees, pits impracticable.
80.00	Set a sand stone 24x8x5ins.18 ins.in ground for cor.of Secs.2,3,34 and 35 marked 2 grooves on E. and 4 grooves on W.edges, raised a mound of stones 2 ft. base, 1-1/2 ft.high W.of cor. Land, mountaneous, Soil, rocky, 4th.rate. No timber. Mountainous land, 80.00 chs.
37.50	July 22: At this cor.I set off 20° 19' N. on the decl. arc and at 12 h.l.m.t. observed the sun on the meridian, the resulting latitude is 35°12' 1/2". N.89°58'W. on N.bdy.Sec.2, over rolling mountaneous country. Cross dry wash, 20 lks.wide, course S.
40.00	Set a sand stone 18x10x7ins.14 ins.in ground for 1/4 sec. cor, marked 1/4 on N.face, raised a mound of stone 2 ft.base 1-1/2 ft.high N.of cor.
80.00	Set a sand stone 24x10x5ins.18 ins.in ground for cor.of Secs.1,2,35 and 36, marked 1 groove on E. and 5 grooves on W.edges and raised a mound of stone 2 ft. base, 1-1/2 ft.high W.of cor. Land, mountaneous. Soil, sand stone, 4th.rate. Timber, scattering cedar. Mountaneous land, 80.00 chs.
22.50	N.89°58'E. on N.bdy.Sec.1, over rolling mountaneous country. Descend. Cross Rail Road Canon, 20 lks.wide, course S.W.
32.00	Ascend. Cross top of ridge, course S.W. and N.E. Descend.
39.00	Cross wash, 10 lks.wide, course S.W.
40.00	Set sand stone 24x14x8ins. 18 ins.in ground for 1/4 Sec.

Chains

cor. marked 1/4 on N. face, raised a mound of stones  
 2 ft. base, 1-1/2 ft. high N. of cor.  
 No Trees, pits impracticable.  
 Ascend.  
 68.00 Cross top of ridge, course N.E. and S.W.  
 Descend.  
 79.50 Cross dry wash, 30 lks. wide, course S.  
 79.90 Cross wagon road, course N. and S.  
 82.05 Cor. Tps. 21 and 22 N. R. 6 W.  
 Land, mountainous.  
 Soil, gravelly and rocky, 3rd. and 4th. rates.  
 Timber, scattering cedar.  
 Mountainous land, 82.05 chs.

July 22, 1905.

LINE designated.	True Bear.	Dist.	LATITUDES		DEPARTURES	
			N	S	E	W
5 <sup>th</sup> Standard P. N. R 6 W	West	380.42				380.42
E. bdy T 20 N. R 7 W	N 0° 42' W	37.93	37.93			0.46
N. bdy T 20 N R 7 W	N 88° 16' W	7.60	0.23			7.60
W. bdy F. 21 N. R 6 W	North	441.84	441.84			
N. bdy T 21 N R 6 W	N 89° 58' E	390.41	0.22		390.41	
E. bdy T 21 N R 6 W	S 0° 15' W	480.00		480.00		2.05
						2.09
Convergency			480.22	480.00	0.41	
					390.82	390.57
			480.00		390.53	390.57
					0.725	
	Error Lat		.12	Err. Dep	0.725	

Note. The latitude observed by me is about 9 minutes less than that furnished by the Surveyor General; I am satisfied that my instrument is in perfect adjustment.

GENERAL DESCRIPTION.

This Township is generally rough and mountainous with the exception of a few small valleys. There is no living water in the Township. It is well timbered in the South Western portion, with scattering cedar in other portions. The soil in the valleys is very fertile but requires irrigation to produce crops; water for irrigation can only be obtained by storage reservoirs which can be constructed in the canons in different portions of the Township, through which immense floods pass during rainy seasons.

July 22, 1905.

*John J. Fisher*  
 U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

100  
7,

LIST OF NAMES.

BOOK 1853

A list of the names of the individuals employed by John J. Fisher

....., 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 West and North beds T. 21 N. R. 6 W.

showing the respective capacities in which they acted:

Geo. O. Thomas ..... Chainman.

George Cassidy ..... Chainman.

Bohumil Mudra ..... Moundman.

James Skelley ..... Moundman.

Frank Cassidy ..... Axman.

Frank Cassidy ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John J. Fisher

....., United States Deputy Surveyor, in surveying all those parts or portions of the West and North beds T. 21 N. R. 6 W.

Salt River meridian, Territory of Arizona of the Sixth

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona

Geo O Thomas ..... Chainman.

George Cassidy ..... Chainman.

Bohumil Mudra ..... Moundman.

James X Skelley ..... Moundman.

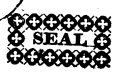
<sup>his</sup>  
<sub>mark</sub>

..... Axman.

Frank Cassidy ..... Axman.

Frank Cassidy ..... Flagman.

Subscribed and sworn to before me this 3<sup>rd</sup> day of August, 1895



J. J. Fisher  
Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

BOOK 1853

I, John J. Fisher, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank J. Ingalls, United States Surveyor General for Arizona, bearing date of the 7<sup>th</sup> day of June, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the West and North sides T. 21 N. R. 6 W

of the Gila and Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed 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 United States 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; 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 J. Fisher  
United States Deputy Surveyor.

Subscribed by said John J. Fisher, and sworn to before me }  
this 7<sup>th</sup> day of September, 1905

J. M. Watts  
Clerk U. S. Court



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, Dec. 20, 1905

The foregoing field notes of the survey of the West and North boundaries of T. 21 N. R. 6 W of the Gila and Salt River Base and Meridian in the territory of Arizona

executed by John J. Fisher, U.S. deputy surveyor under his contract No. 134, dated June 7<sup>th</sup> 1904, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank J. Ingalls  
United States Surveyor General.

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.

\_\_\_\_\_  
United States Surveyor General.