**ORIGINAL** 

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF THE NORTH BOUNDARY

AND A PORTION OF THE SUBDIVISIONAL LINES,

AND THE SUBDIVISION OF SECTION 4,

TOWNSHIP 22 NORTH, RANGE 6 EAST,

OF THE GILA AND SALT RIVER MERIDIAN,

IN THE STATE OF ARIZONA.

#### **EXECUTED BY**

### Blas J. Urena, Cadastral Surveyor

Under Special Instructions dated November 4, 2013, approved November 4, 2013, which provided for the surveys included under Group No. 1123, and assignment instructions dated April 3, 2014.

Survey commenced April 24, 2014

Survey completed April 25, 2014

### INDEX DIAGRAM

### TOWNSHIP 22 NORTH RANGE 6 EAST GILA AND SALT RIVER MERIDIAN, ARIZONA

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#### T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the north boundary and a portion of the subdivisional lines, and the subdivision of section 4, Township 22 North, Range 6 East, Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this survey is as follows:

W. R. Fitzgerald surveyed the south boundary of Township 23 North, Range 6 East, in 1883. Washington O. Secor surveyed the subdivisional lines in 1889. Ty White and Bert E. Wakeman resurveyed the south boundary of Township 23 North, Range 6 East, in 1943.

The survey was executed in accordance with the specifications as set forth in the  $\underline{\text{Manual}}$  of  $\underline{\text{Surveying Instructions}}$  for the  $\underline{\text{Survey}}$  of the  $\underline{\text{Public Lands}}$  of the  $\underline{\text{United States}}$ , 2009, and the  $\underline{\text{Special Instructions}}$  dated  $\underline{\text{November 4, 2013, for Group Number 1123, Arizona.}}$ 

The true meridian direction and length of all lines were determined by static and real time kinematic global navigation satellite system observations using Trimble Navigation R8-3 model receivers.

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

The survey was needed for the purpose of locating and identifying property boundaries between portions of the Coconino National Forest (CNF) System and other ownership lands necessary for the implementation of the Four Forest Restoration Initiative. Steel fence posts, with attached USFS sign # 54-2 were set on the forest boundary at intervals of 4 chains +/-.

The "USFS signs # 54-2" referred to in these notes are marked "PROPERTY BOUNDARY National Forest land behind this sign". The "USFS signs # 54-4" are marked "ATTENTION To willfully destroy, deface, change, or remove any Government Survey Corner or Monument, or to willfully cut down any Witness Tree or Blazed Tree marking the line of a Government Survey, is punishable by a Fine of \$250.00 or Six Months Imprisonment or both". The "USFS signs # 54-9" are marked "LAND SURVEY MONUMENT Please do not disturb".

#### T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

CHAINS

Geodetic control was derived from global navigation satellite system (GNSS), static observation, post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations AI8820 FERN FERNO MESA CORS, DL1898 AZPS PRESCOTT CORS, DJ8981 FST5 FLAGSTAFF 5 CORS. The NAD 83 (CORS2011) (EPOCH 2010.0000), geographic position of the corner of sections 3, 4, 9, and 10, Township 22 North, Range 6 East, is as follows:

Latitude: 35°18'40.673" N. Longitude: 111°45'15.997" W

The NAD 83 (CORS2011) (EPOCH 2010.0000), geographic position of the corner of sections 4, 5, 32, and 33, Townships 22 and 23 North, Range 6 East, is as follows:

Latitude: 35°19'34.585" N. Longitude: 111°46'22.204" W

The mean magnetic declination is 10 3/4° E.

Dependent Resurvey of a Portion of the North Boundary, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

Restoring the resurvey executed by Ty White and Bert E. Wakeman, in 1943

Beginning at the cor. of secs. 3, 4, 33, and 34, Tps. 22 and 23 N., R. 6 E., on the N. bdy. of the Tp. monumented with an iron post, 2 ins. diam., firmly set, projecting 16 ins. above ground, in a mound of stone, 2 1/2 ft. base, to top, with brass cap mkd. T23N R6E S33 S34 S4 S3 T22N 1943, with a steel fence post, with attached USFS signs # 54-2 and # 54-9, SW of cor.

from which the 1943 bearing trees

- A ponderosa pine, 18 ins. diam., bears N. 19 3/4° E., 1.65 chs. dist., with a healed blaze and 2 BT tags.
- A ponderosa pine, 20 ins. diam., bears S. 34 3/4° E., 37 lks. dist., with a healed blaze and 2 BT tags. (Record: 35 lks.)
- A ponderosa pine, 22 ins. diam., bears S. 36 1/2° W., 1.15 chs. dist., with a healed blaze and 2 BT tags.
- A ponderosa pine, 19 ins. diam., bears N. 28° W., 1.16 chs. dist., with a healed blaze and 2 BT tags.

Add the marks 2014 to the brass cap.

# Dependent Resurvey of a Portion of the North Boundary, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

CHAINS	
	The cor. is located 4 lks. S. of a fence cor., barbed wire, from which fences extend N., S. 75° E., and W.
	N. 89°56' W., bet. secs. 4 and 33, on the N. bdy. of the Tp.
39.95	The 1/4 sec. cor. of secs. 4 and 33, monumented with an iron post, 1 in. diam., firmly set, projecting 11 ins. above ground, with brass cap mkd. 1/4 S33 S4 1943.
	from which the 1943 bearing trees
	A pine, 33 ins. diam., bears S. 35 1/4° W., 24 lks. dist., with a healed blaze.
	A pine, 19 ins. diam., bears N. 66 1/4° W., 1.17 chs. dist., with no marks visible.
	Encircled the iron post in a mound of stone, 2 1/2 ft. base, to top of brass cap.
	Add the marks T23N R6E T22N 2014 to the brass cap.
	Set a steel fence post, with attached USFS sign # 54-9, N. of cor.
	N. 89°52' W., beginning new measurement, continuing on the N. bdy. of the Tp.
20.04	Point for the W. 1/16 sec. cor. of secs. 4 and 33, not monumented.
40.08	The cor. of secs. 4, 5, 32, and 33, monumented with an iron post, 2 ins. diam., firmly set, projecting 6 ins. above ground, with brass cap mkd. T23N R6E S32 S33 S5 S4 T22N 1943.
	from which the remaining original bearing trees
	A pine, 38 ins. diam., bears S. 24 3/4° E., 62 lks. dist., with a healed blaze.
	A burned stump, bears S. 3/4° W., 62 lks. dist.
	A burned stump, bears N. 39 1/2° W., 22 lks. dist.
	and the bearing trees of unknown origin
	A pine, 28 ins. diam., bears S. 75° E., 1.315 chs. dist., with no marks visible and 1 BT tag.
	A pine, 17 ins. diam., bears N. 83° W., 96.5 lks. dist., with no marks visible and 1 BT tag.

### Dependent Resurvey of a Portion of the North Boundary, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

CHAINS

Add the marks 2014 to the brass cap.

Set a steel fence post, with attached USFS sign # 54-9, W. of cor.

Dependent Resurvey of a Portion of the Subdivisional Lines, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

Restoring the survey executed by Washington O. Secor, in 1889

From the cor. of secs. 3, 4, 9, and 10, perpetuated by Chris J. Franks, Arizona R.L.S. No. 22258, in 1988, under contract with the U. S. Forest Service, according to Records of Survey Book 6, Page 90, on file at Coconino County Recorder's Office, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 12 ins. above ground, in a mound of stone, 2 ft. base, 8 ins. high, with an aluminum cap, 3 1/4 ins. diam., U. S. DEPT. OF AGRICULTURE FOREST SERVICE CADASTRAL SURVEY. mkd. T22N R6E S4 S3 S9 S10 RLS 22258 1988, with a steel fence post, with attached USFS sign # 54-9, SW of cor. This is accepted as careful and faithful perpetuation of the cor. position.

from which the bearing tree marked by Chris J. Franks in 1988

A pine, 14 ins. diam., bears N. 14° E., 1.91 chs. dist., with a healed blaze and 1 BT tag.

Found a malpais stone, in the mound of stone, 16 x 14 x 10 ins., with no marks visible.

Rebuilt the mound of stone,  $2\ 1/2$  ft. base, to top of the aluminum cap.

N. 2°10' W., bet. secs. 3 and 4.

41.03

The 1/4 sec. cor. of secs. 3 and 4, reestablished by Chris J. Franks, Arizona R.L.S. No. 22258, in 1988, under contract with the U. S. Forest Service, according to Records of Survey Book 6, Page 90, on file at Coconino County Recorder's Office, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 9 ins. above ground, with an aluminum cap, 3 1/4 ins. diam., U. S. DEPT. OF AGRICULTURE FOREST SERVICE CADASTRAL SURVEY. mkd. T22N R6E 1/4 S4 S3 RLS 22258 1988, with a steel fence post, with attached USFS sign # 54-9, E. of cor. This is accepted as careful and faithful reestablishment of the original cor.

from which the bearing trees marked by Chris J. Franks in 1988

### Dependent Resurvey of a Portion of the Subdivisional Lines, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

,	T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona
CHAINS	
	A pine, 13 ins. diam., bears West, 50.5 lks. dist., with a partially healed blaze.
	A pine, 14 ins. diam., bears N. 9° W., 16.5 lks. dist., with a healed blaze.
	N. 2°10' W., beginning new measurement.
41.52	The cor. of secs. 3, 4, 33, and 34.
	From the cor. of secs. 3, 4, 9, and 10.
	N. 87°30' W., bet. secs. 4 and 9.
42.06	The 1/4 sec. cor. of secs. 4 and 9, perpetuated by Chris J. Franks, Arizona R.L.S. No. 22258, in 1988, under contract with the U.S. Forest Service, according to Records of Survey Book 6, Page 90, on file at Coconino County Recorder's Office, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 12 ins. above ground, in a mound of stone, 2 ft. base, 9 ins. high, with an aluminum cap, 3 1/4 ins. diam., U. S. DEPT. OF AGRICULTURE FOREST SERVICE CADASTRAL SURVEY. mkd. T22N R6E 1/4 S4 S9 RLS 22258 1988, with a steel fence post, with attached USFS sign # 54-9, S. of cor. This is accepted as careful and faithful perpetuation of the cor. position.
	from which the bearing trees marked by Chris J. Franks in 1988
	A pine, 14 ins. diam., bears N. 14° E., 31.5 lks. dist., with a healed blaze.
	A pine, 17 ins. diam., bears S. 40° E., 26.5 lks. dist., with scribe marks 1/4 S9 BT visible on partially open blaze.
	Found a malpais stone, in the mound of stone, 18 $\times$ 10 $\times$ 9 ins., with a X mkd.
	N. 88°32' W., beginning new measurement.

#### Dependent Resurvey of a Portion of the Subdivisional Lines, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

CHAINS

42.20

The cor. of secs. 4, 5, 8 and 9, perpetuated by Chris J. Franks, Arizona R.L.S. No. 22258, in 1988, under contract with the U. S. Forest Service, according to Records of Survey Book 6, Page 90, on file at Coconino County Recorder's Office, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 9 ins. above ground, in a mound of stone, 1 1/2 ft. base, 6 ins. high, with an aluminum cap, 3 1/4 ins. diam., U. S. DEPT. OF AGRICULTURE FOREST SERVICE CADASTRAL SURVEY. mkd. T22N R6E S5 S4 S8 S9 RLS 22258 1988, with a steel fence post, with attached USFS sign # 54-9, S. of cor. This is accepted as a careful and faithful perpetuation of the cor. position.

from which bearing trees of unknown origin

- A pine, 18 ins. diam., bears N. 24  $1/2^{\circ}$  E., 56 lks. dist., with scribe marks S4 BT visible on partially open blaze and 1 BT tag.
- A pine, 26 ins. diam., bears S. 37° E., 29.5 lks. dist., with scribe marks S9 BT visible on partially open blaze, 1 BT tag and USFS sign # 54-4.
- A down pine, bears N. 70° W., 44 lks. dist., with scribe marks S5 BT visible on partially open blaze.

Found a basalt stone, in the mound of stone, 13 x 12 x 11 ins., with no marks visible.

N. 0°49' E., bet. secs. 4 and 5.

39.64

The 1/4 sec. cor. of secs. 4 and 5, reestablished by Chris J. Franks, Arizona R.L.S. No. 22258, in 1988, under contract with the U. S. Forest Service, according to Records of Survey Book 6, Page 90, on file at Coconino County Recorder's Office, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 9 ins. above ground, in a mound of stone, 1 1/2 ft. base, 6 ins. high, with an aluminum cap, 3 1/4 ins. diam., U. S. DEPT. OF AGRICULTURE FOREST SERVICE CADASTRAL SURVEY. mkd. T22N R6E 1/4 S5 S4 RLS 22258 1988, with a steel fence post, with attached USFS signs # 54-2 and # 54-9, W. of cor. This is accepted as careful and faithful reestablishment of the original cor.

from which the bearing trees marked by Chris J. Franks in 1988

- A pine, 31 ins. diam., bears N. 21° E., 46 lks. dist., with scribe marks 1/4 S4 BT visible on partially open blaze.
- A pine, 13 ins. diam., bears N. 85° W., 19.5 lks. dist., with a healed blaze. (Record 10.1 ft. "15.3 lks")

## Dependent Resurvey of a Portion of the Subdivisional Lines, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

CHAINS	1. 22 N., R. O H., GITA and bate kivel heridan, included
CHAINS	
	N. 0°40' E., beginning new measurement.
19.77	Point for the N. $1/16$ sec. cor. of secs. 4 and 5, not monumented.
40.09	The cor. of secs. 4, 5, 32, and 33.
	Subdivision of Section 4, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona
Z	From the 1/4 sec. cor. of secs. 4 and 9.
·	N. 0°46' W., on the N. and S. center line of sec. 4.
39.95	The center 1/4 sec. cor. of sec. 4, established by Chris J. Franks, Arizona R.L.S. No. 22258, in 1988, under contract with the U. S. Forest Service, according to Records of Survey Book 6, Page 90, on file at Coconino County Recorder's Office, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 8 ins. above ground, with an aluminum cap, 3 1/4 ins. diam., U. S. DEPT. OF AGRICULTURE FOREST SERVICE CADASTRAL SURVEY. mkd. T22N R6E S4 C 1/4 RLS 22258 1988, with a steel fence post, with attached USFS signs # 54-2 and # 54-9, SE of cor. This is accepted as careful and faithful determination of the cor. position.
	from which the bearing trees marked by Chris J. Franks in 1988
	A pine, 11 ins. diam., bears N. 65° E., 15.5 lks. dist., with scribe marks C 1/4 S4 BT visible on partially open blaze and 1 BT tag.
	A pine, 11 ins. diam., bears N. 84 1/2° W., 11.5 lks. dist., with scribe marks C 1/4 S4 BT visible on partially open blaze and 1 BT tag.
	N. 0°44' W., beginning new measurement.
20.12	The center N. 1/16 sec. cor. of sec. 4, established by Chris J. Franks, Arizona R.L.S. No. 22258, in 1988, under contract with the U. S. Forest Service, according to Records of Survey Book 6, Page 90, on file at Coconino County Recorder's Office, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above ground, with an aluminum cap, 3 1/4 ins. diam., U. S. DEPT. OF AGRICULTURE FOREST SERVICE CADASTRAL SURVEY. mkd. T22N R6E S4 C-N 1/16 RLS 22258 1988. This is accepted as careful and faithful establishment of the cor. position.
	from which the bearing trees marked by Chris J. Franks in 1988
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### Subdivision of Section 4, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

CHAINS	
	A pine, 11 ins. diam., bears S. 51° E., 7.5 lks. dist., with scribe marks X BT at base, visible on partially open blaze and 1 BT tag.
	A pine, 11 ins. diam., bears S. 49° W., 27 lks. dist., with a healed blaze.
	Found a steel fence post, with attached USFS signs # 54-2 and # 54-9, loose in the fence line, N. of the cor.
	Reset the steel fence post, with attached USFS signs # 54-2 and # 54-9, NE of cor.
	The cor. is located on a fence cor., barbed wire and chain link, from which fences extending N., S., and W.
	From this cor. point, a rebar, 5/8 in. diam., firmly set, projecting 1 in. above ground, bears N. 1°24'W., 42.5 lks. dist., this rebar is located 3.5 lks., W. of a barbed wire fence, bears N. and S.
	N. 0°44' W., beginning new measurement.
20.63	The 1/4 sec. cor. of secs. 4 and 33.
·	From the $1/4$ sec. cor. of secs. 3 and 4.
	N. 88°54' W., on the E. and W. center line of sec. 4.
41.01	The center 1/4 sec. cor. of sec. 4.
·	N. 88°52' W., beginning new measurement.
20.54	The center W. 1/16 sec. cor. of sec. 4, established by Chris J. Franks, Arizona R.L.S. No. 22258, in 1988, under contract with the U. S. Forest Service, according to Records of Survey Book 6, Page 90, on file at Coconino County Recorder's Office, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 6 ins. above ground, with an aluminum cap, 3 1/4 ins. diam., U. S. DEPT. OF AGRICULTURE FOREST SERVICE CADASTRAL SURVEY. mkd. T22N R6E S4 C-W 1/16 RLS 22258 1988, with a steel fence post, with attached USFS sign # 54-2, SW. of cor. This is accepted as careful and faithful establishment of the cor. position.
	from which the bearing trees marked by Chris J. Franks in 1988
	A pine, 17 ins. diam., bears N. 16° W., 19.5 lks. dist., with a healed blaze and 1 BT tag.

# Subdivision of Section 4, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

	T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona
CHAINS	
	A pine, 14 ins. diam., bears N. 71° W., 22 lks. dist., with scribe marks X BT visible on partially open blaze.
	Attached USFS sign # 54-9 to the steel fence post.
	The cor. is located 1 lk. SW of a fence cor., barbed wire, with fences extending N. and E.
	N. 89°01' W., beginning new measurement.
20.55	The 1/4 sec. cor. of secs. 4 and 5.
	From the center W. 1/16 sec. cor. of sec. 4.
	N. 0°03' W., on the N. and S. center line of the NW $1/4$ of sec. 4.
19.95	The NW 1/16 sec. cor. of sec. 4, established by Chris J. Franks, Arizona R.L.S. No. 22258, in 1988, under contract with the U. S. Forest Service, according to Records of Survey Book 6, Page 90, on file at Coconino County Recorder's Office, monumented with an aluminum post, 3/4 in. diam., firmly set, projecting 20 ins. above ground, in a supporting mound of stone, 3 ft. base, 16 ins. high, with an aluminum cap, 3 1/4 ins. diam., U. S. DEPT. OF AGRICULTURE FOREST SERVICE CADASTRAL SURVEY. mkd. T22N R6E S4 N-W 1/16 RLS 22258 1988, with a steel fence post, with attached USFS sign # 54-2 and # 54-9, NW. of cor. This is accepted as careful and faithful establishment of the cor. position.
	from which the bearing trees marked by Chris J. Franks in 1988
	A stump hole, 30 ins. diam., bears N. 69° E., 7.5 lks. dist.
<b>S</b>	A pine, 19 ins. diam., bears S. 13 1/2° W., 1.045 chs. dist., with a healed blaze and 1 BT tag.
	Rebuilt the supporting mound of stone, 3 ft. base, to top of aluminum cap.
	The cor. is located 5 lks. SW of a fence cor., barbed wire, from which fences extend E. and S.
	N. 0°03' W., beginning new measurement.
20.44	The W. 1/16 sec. cor. of secs. 4 and 33.
	From the center N. 1/16 sec. cor. of sec 4.

### Subdivision of Section 4, T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona

	T. 22 N., R. 6 E., Gila and Salt River Meridian, Arizona
CHAINS	
	N. 89°20' W., on the E. and W. center line of the NW $1/4$ of sec. 4.
20.29	The NW 1/16 sec. cor. sec. 4.
	N. 89°30' W., beginning new measurement.
20.30	The N. 1/16 sec. cor. of secs. 4 and 5.
	GENERAL DESCRIPTION
	The area surveyed and resurveyed within T. 22 N., R. 6 E., is located on Coconino National Forest, approximately 10.5 miles NW of Flagstaff, Arizona. The terrain varies from rolling to mountainous in the NW 1/4 of sec. 4. The elevation ranges from approximately 7995 to 8385 ft. above sea level.
	Access to the area surveyed and resurveyed is provided by Arizona Highway No. 180, Forest Service Roads 151, 151A, 9004L, 9005L, 9216M and 9216L. Crater Lake is situated on the SE 1/4 of the NW 1/4 of sec. 4.
	The mean magnetic declination of 10 3/4° E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2010-2015 for the dates of survey.
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# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Philip Freiberg	Surveying Technician
	I

#### CERTIFICATE OF SURVEY

I, Blas J. Urena, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 4th day of November, 2013, I have dependently resurveyed a portion of the north boundary and a portion of the subdivisional lines, and subdivided section 4, T. 22 N., R. 6 E., 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. Said survey has been made in strict conformity with said special instructions, the Manual of Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and in specific manner described in the foregoing field notes.

9/28/20/5 (Date)	Cadastral Surveyor)
CER	TIFICATE OF APPROVAL
	BUREAU OF LAND MANAGEMENT Phoenix, Arizona
boundary and a portion of the section 4, T. 22 N., R. 6 E.,	he dependent resurvey of a portion of the north e subdivisional lines, and the subdivision of Gila and Salt River Meridian, in the State of J. Urena, Cadastral Surveyor, having been correct, are hereby approved.  (Chief Cadastral Surveyor of Arizona)
CERT	IFICATE OF TRANSCRIPT
I CERTIFY That the foregoing described surveys in T. 22 Arizona, is a true copy of the	transcript of the field notes of the above N., R. 6 E., Gila and Salt River Meridian, original field notes.

(Chief Cadastral Surveyor of

(Date)