

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 6

IN

TOWNSHIP 11 NORTH, RANGE 23 EAST

OF THE PRINCIPAL MERIDIAN

IN THE STATE OF MONTANA

EXECUTED BY

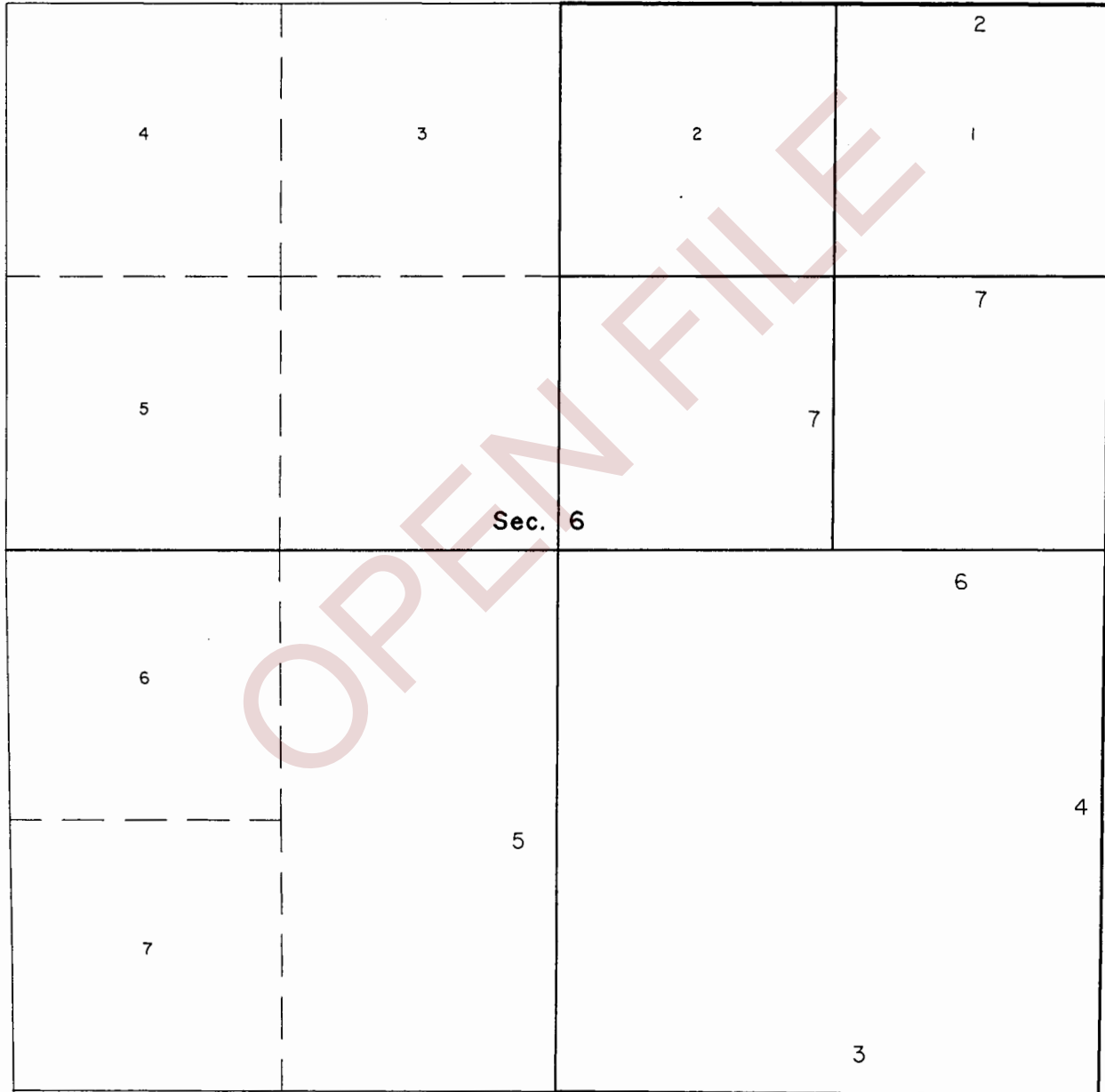
Andrew J. Varilek
Cadastral Surveyor

Under special instructions dated October 21, 2014 and supplemental special instructions dated April 22, 2015, which provided for the surveys included under Group Number 1128, Montana, and assignment instructions dated October 21, 2014.

Survey commenced April 23, 2015
Survey completed April 29, 2015

INDEX DIAGRAM

Township 11 North, Range 23 East
Principal Meridian, Montana
Group No. 1128



1
Township 11 North, Range 23 East
Principal Meridian, Montana

The following field notes are those of the dependent resurvey of a portion of the north boundary and a portion of the subdivisional lines, and the subdivision of section 6, in Township 11 North, Range 23 East, Principal Meridian, Montana.

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

Philip M. Gallaher, U.S. Deputy Surveyor, surveyed the south, east, and north boundaries in 1882, as shown on the official plat approved February 7, 1883.

Woodrow E. Damm, Cadastral Engineer, dependently resurveyed portions of the south boundary and the subdivisional lines of Township 12 North, Range 23 East, in 1965-1966, as shown on the official plat accepted October 1, 1969.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 2009, Special Instructions dated October 21, 2014, and the Supplemental Special Instructions dated April 22, 2015 for Group Number 1128, Montana.

In initiating this work, retracements of the previous surveys were performed and a diligent search was made to identify evidence of the previously established corner monuments and other calls of the record. Identified corners were remonumented, as necessary, in their original positions.

All standard monuments are stainless steel posts, 30 ins. long, 2 1/2 ins. diam., with a magnet encased in plastic beneath, unless otherwise specified.

The locational calls to fences contained herein are given as ground conditions existed at the time of survey. Subsequent discussions have begun, during the construction of this record, indicating the potential for many of the fences to move. Future reliance on these locational calls for the reestablishment of lost or obliterated corners should consider this fact.

The direction and measurements of the lines of this survey refer to the true meridian and were determined by Global Positioning System-Real Time Kinematic (GPS-RTK) methods.

Geodetic control (NAD83) for this survey project was established utilizing static Global Positioning System (GPS) observations post-processed by National Geodetic Survey's (NGS) Online Positioning User Service (OPUS). The geographic position of the 1/4 cor. of secs. 6 and 31, on the north bdy. of the Tp., as determined by GPS-RTK methods is as follows:

Latitude: 46° 45' 00.650" N.
Longitude: 108° 52' 20.686" W.

Township 11 North, Range 23 East
Principal Meridian, Montana

The geographic position of the 1/4 cor. of secs. 5 and 6, as determined by GPS-RTK methods is as follows:

Latitude: 46° 44' 34.574" N.

Longitude: 108° 51' 43.018" W.

Dependent Resurvey of a Portion of the North Boundary
Township 11 North, Range 23 East
Principal Meridian, Montana

Reestablishment of the Surveys Executed by
Philip M. Gallaher, United States Deputy Surveyor, in 1882,
and
Woodrow E. Damm, Cadastral Engineer, in 1965 and 1966.

Beginning at the cor. of secs. 5, 6, 31, and 32, on the N bdy. of the Tp.,
monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 10
ins. above ground, and witnessed by a scattered mound of stone, 2 ft.
diam., alongside N edge, with brass cap mkd.

T 12 N R 23 E

S 31	S 32
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S 6	S 5
-----	-----

T 11 N R 23 E

1965

from which the remaining 1965 bearing tree:

A pine, 12 ins. diam., bears S. 49° W., 39.6 ft. dist., mkd. with a
healed blaze. (Record: 60 lks.).

Set a steel post alongside the iron post.

The cor. is situated at the cor. of fences extending N, E, and W.

N. 89° 41' 50" W., on the N bdy. of sec. 6.

Dependent Resurvey of a Portion of the North Boundary
Township 11 North, Range 23 East
Principal Meridian, Montana

Feet

1324.1	<p>Point for the E 1/16 sec. cor. of secs. 6 and 31.</p> <p>Set a standard monument, 12 ins. in the ground, to bedrock, in a supporting collar of stone, 3 ft. diam., 1 1/2 ft. high., with brass cap mkd.</p> <p style="text-align: center;">T 12 N R 23 E S 31 E 1/16 ————— S 6 T 11 N 2014</p> <p>The cor. is situated in a fence extending E and W.</p>
2648.2	<p>The 1/4 sec. cor. of secs. 6 and 31, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 10 ins. above ground, in a collar of stone, 4 ft. diam., with brass cap mkd.</p> <p style="text-align: center;">T 12 N R 23 E S 31 1/4 ————— S 6 T 11 N R 23 E 1965</p> <p>from which the 1965 bearing tree:</p> <p>A pine, 16 ins. diam., bears N. 38 1/2° E., 23.0 ft. dist., mkd. 1/4 S 31 BX. (Record: 30 lks.).</p> <hr/> <p style="text-align: center;">Dependent Resurvey of a Portion of the Subdivisional Lines Township 11 North, Range 23 East Principal Meridian, Montana</p> <hr/> <p style="text-align: center;">Reestablishment of the Survey Executed by Woodrow E. Damm, Cadastral Engineer, in 1965 and 1966</p> <hr/> <p>From the cor. of secs. 5, 6, 7, and 8, monumented with a sandstone, 18 x 13 x 2 ins., firmly set 12 ins. in the ground, mkd. with 5 grooves on the S and E faces, in a collar of stone, 3 ft. diam.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines
Township 11 North, Range 23 East
Principal Meridian, Montana

Feet

2618.1	<p>At the cor. point</p> <p>Set a standard monument, 23 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 11 N R 23 E</p> <p>S 1/16</p> <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S 6</td> <td style="padding: 0 5px;">S 5</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S 7</td> <td style="padding: 0 5px;">S 8</td> </tr> </table> <p>2015</p> </div> <p>Bury the original stone alongside and raise a collar of stone, 2 1/2 ft. diam., around the standard monument.</p> <p>N. 89° 24' 20" W., bet. secs. 6 and 7.</p> <p>The 1/4 sec. cor. of secs. 6 and 7, monumented with a broken sandstone, 8 x 5 x 3 ins., faintly mkd. 1/4, loosely set in a collar of stone, 2 1/2 ft. diam.</p> <p>At the corner point</p> <p>Set a standard monument, 23 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 11 N R 23 E</p> <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding-right: 10px;">1/4</td> <td style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 0 5px;">S 6</td> </tr> <tr> <td></td> <td style="padding: 0 5px;">S 7</td> </tr> </table> <p>2015</p> </div> <p>Rebuild the collar of stone, 2 1/2 ft. diam., around the standard monument.</p> <hr style="width: 50%; margin-left: auto; margin-right: auto;"/> <p>From the cor. of secs. 5, 6, 7, and 8.</p> <p>N. 0° 32' 10" E., bet. secs. 5 and 6.</p> <p>Point for the 1/4 sec. cor. of secs. 5 and 6, at proportionate measurement; there is no remaining evidence of the original cor.</p>	S 6	S 5	S 7	S 8	1/4	S 6		S 7
S 6	S 5								
S 7	S 8								
1/4	S 6								
	S 7								
2631.8									

Dependent Resurvey of a Portion of the Subdivisional Lines
 Township 11 North, Range 23 East
 Principal Meridian, Montana

Feet

	<p>Set a standard monument, 19 ins. in the ground, in a supporting collar of stone, 3 ft. diam., 1 ft. high, with brass cap mkd.</p> <p style="text-align: center;">T 11 N R 23 E</p> <p style="text-align: center;">1/4</p> <p style="text-align: center;">S 6 S 5</p> <p style="text-align: center;">2015</p>
3947.7	Point for the N 1/16 sec. cor. of secs. 5 and 6. Not monumented.
5260.3	The cor. of secs. 5, 6, 31, and 32, on the N bdy. of the Tp.
	<hr/> <p>Subdivision of Section 6 Township 11 North, Range 23 East Principal Meridian, Montana</p> <hr/> <p>Section 6</p> <hr/>
2609.8	<p>From the 1/4 sec. cor. of secs. 6 and 7.</p> <p>N. 0° 11' 50" E., on the N-S center line of sec. 6.</p> <p>Point for the C 1/4 sec. cor. of sec. 6, at the intersection with E-W center line of sec. 6.</p> <p>Set a standard monument, 20 ins. in the ground, to bedrock, in a supporting collar of stone, 3 ft. diam., 1 ft. high, with brass cap mkd.</p> <p style="text-align: center;">T 11 N R 23 E</p> <p style="text-align: center;">C 1/4</p> <p style="text-align: center;">S 6</p> <p style="text-align: center;">2015</p>

6
 Subdivision of Section 6
 Township 11 North, Range 23 East
 Principal Meridian, Montana

Feet			
3929.2	<p>Point for the C-N 1/16 sec. cor. of sec. 6.</p> <p>Set a standard monument, 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 11 N R 23 E</p> <p>C</p> <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 0 10px;">N 1/16</td> <td style="padding: 0 10px;">S 6</td> </tr> </table> <p>C</p> <p>2015</p> </div> <p>Set a steel post alongside the standard monument.</p>	N 1/16	S 6
N 1/16	S 6		
5246.9	<p>The 1/4 sec. cor. of secs. 6 and 31, on the N bdy. of the Tp..</p> <hr style="width: 50%; margin-left: 0;"/> <p>From the 1/4 sec. cor. of secs. 5 and 6.</p> <p>N. 89° 53' 10" W., on the E-W center line of sec. 6.</p>		
1316.6	<p>Point for the C-E 1/16 sec. cor of sec. 6, not monumented.</p>		
2633.2	<p>The C 1/4 sec. cor. of sec. 6.</p>		
5281.4	<p>The 1/4 sec. cor. of secs. 1 and 6, on the W bdy. of the Tp., monumented with a sandstone, 24 x 14 x 3 ins, firmly set 14 ins. in the ground, mkd. 1/4 on the W face, and witnessed by a mound of stone, 3 ft. diam., N, 3 ft. dist.</p> <p>At the corner point</p> <p>Set a standard monument, 26 ins. in the ground, with brass cap mkd.</p>		

7
 Subdivision of Section 6
 Township 11 North, Range 23 East
 Principal Meridian, Montana

Feet	
	T 11 N R 22 E R 23 E 1/4 S 1 S 6 2015 Bury the original stone alongside the standard monument. <hr/> From the point for the C-E 1/16 sec. cor. of sec. 6. N. 0° 22' 00" E., on the N-S center line of the NE1/4 of sec. 6. 1317.6 Point for the NE 1/16 sec. cor. of sec. 6, at the intersection with the E-W center line of the NE1/4 of sec. 6. Set a standard monument, 24 ins. in the ground, with brass cap mkd. T 11 N R 23 E NE 1/16 S 6 2015 Set a steel post alongside and raise a collar of stone, 2 1/2 ft. diam., around the standard monument. 2632.7 The E 1/16 sec. cor. of secs. 6 and 31, on the N bdy. of the Tp.. <hr/> From the point for the N 1/16 sec. cor. of secs. 5 and 6. N. 89° 48' 30" W., on the E-W center line of the NE1/4 of sec. 6. 1320.3 The NE 1/16 sec. cor. of sec. 6. 2640.6 The C-N 1/16 sec. cor. of sec. 6. <hr/>

8
Subdivision of Section 6
Township 11 North, Range 23 East
Principal Meridian, Montana

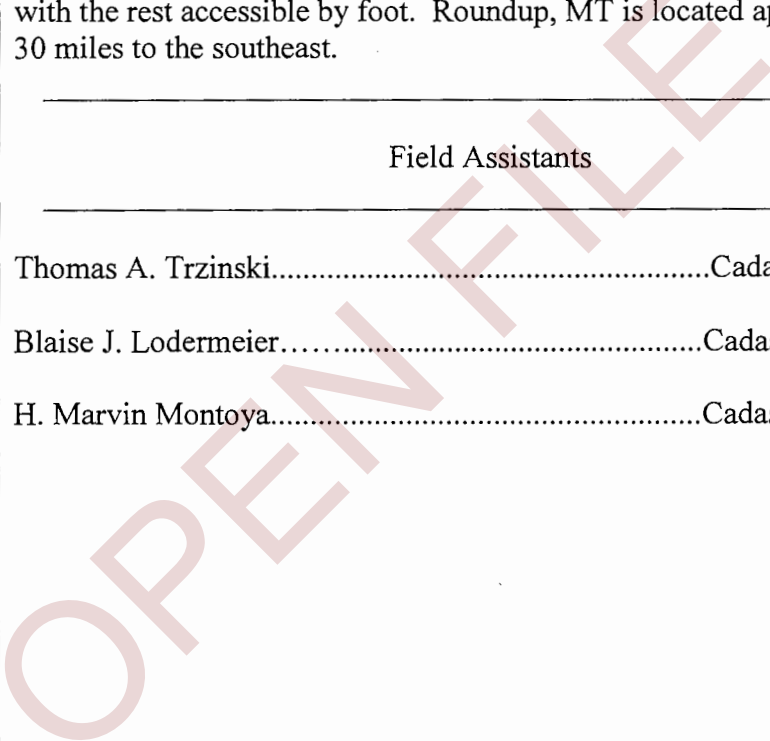
Feet

GENERAL DESCRIPTION

The area surveyed is at the southern edge of the Little Snowy Mountains. Average elevation is 4300 ft. The area is timbered with pine in the northeastern portion of the section and prairie in the rest. Primary access to the area is provided via Snowy Mountain Road of which is accessed from U.S. Hwy 87. Secondary access is only by way of graded private ranch roads which transition into two-track roads. Most of the survey corners for this survey can be reached by way of All-Terrain Vehicles with the rest accessible by foot. Roundup, MT is located approximately 30 miles to the southeast.

Field Assistants

Thomas A. Trzinski.....Cadastral Surveyor
Blaise J. Lodermeier.....Cadastral Surveyor
H. Marvin Montoya.....Cadastral Surveyor



CERTIFICATE OF SURVEY

I, Andrew J. Varilek, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing the date of the 21st day of October, 2014 and supplemental special instructions bearing the date of the 22nd day of April, 2015. I have dependently resurveyed a portion of the north boundary and a portion of the subdivisional lines, and subdivided section 6, in Township 11 North, Range 23 East, of the Principal Meridian, in the State of Montana, 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 2009, and in the specific manner described in the foregoing field notes.

July 21, 2015
(Date)

Andrew J. Varilek
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL BUREAU OF LAND MANAGEMENT Billings, Montana

The foregoing 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 6, in Township 11 North, Range 23 East, of the Principal Meridian, in the State of Montana, executed by Andrew J. Varilek, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

July 21, 2015
(Date)

Joshua F. Alexander
(Chief Cadastral Surveyor, for Montana)