

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE DEPENDENT RESURVEY OF  
A PORTION OF THE EAST BOUNDARY,

AND

THE METES AND BOUNDS SURVEY OF THE EASTERLY BOUNDARY

OF CAPITOL REEF NATIONAL PARK,

IN

TOWNSHIP 37 SOUTH, RANGE 9 EAST,

OF THE SALT LAKE MERIDIAN  
IN THE STATE OF UTAH

EXECUTED BY

*Scott A. Burkhardt*  
*Cadastral Surveyor*

Under Special Instructions dated and approved **April 4, 2011**, which provided for the surveys included under Group No. **1162**, and Assignment Instructions dated **April 4, 2011**, and Reassignment Instructions dated **June 30, 2011**.

Survey Commenced, **May 10, 2011**  
Survey Completed, **July 1, 2011**

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Township 37 South, Range 9 East.

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## TOWNSHIP 37 SOUTH, RANGE 9 EAST, SALT LAKE MERIDIAN, UTAH.

The following field notes describe the dependent resurvey of a portion of the east boundary, and the metes and bounds survey of the easterly boundary of Capitol Reef National Park, in T. 37 S., R. 9 E., Salt Lake Meridian, Utah.

## HISTORY OF SURVEYS

	Surveyed by		Retr. or Resurveyed by
<b>SOUTH BOUNDARY</b>			
Portion	R.C. Yundt	1923	
Portion	D. Cazier, Et al.	1957	
<b>EAST BOUNDARY</b>			
All	D. Cazier, Et al.	1957	
<b>WEST BOUNDARY</b>			
All	D. Cazier, Et al.	1957	
<b>NORTH BOUNDARY</b>			
All	D. Cazier	1957	
Portion			S.A. Burkhardt (Concurrently) 2011
<b>SUBDIVISION</b>			
Portion	D. Cazier, Et al.	1957	

## TOWNSHIP 37 SOUTH, RANGE 9 EAST, SALT LAKE MERIDIAN, UTAH.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions for Group No. 1162, dated April 4, 2011.

The direction of the lines was determined by references to true meridian, established by Global Positioning System (GPS) utilizing Real-Time Kinematic (RTK) techniques throughout the survey. The positional accuracy of this survey complies with the *Standards For the Positional Accuracy of Cadastral Surveys When Using Global Navigation Satellite Systems (GNSS)*, dated February 23, 2009. Trimble model R8 GPS receivers were used for field collection. Cadastral Automated Plat Drafting (CAPD) software was the primary software utilized for project calculations.

Preliminary to the resurvey, the lines of the prior surveys were retraced and a 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.

Geodetic control was derived from GPS static observations, post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): DI2242 P009 MARYSVALE\_UT2006 CORS ARP, DK8419 AZPG CITY OF PAGE CORS ARP, and DI3419 P012 MONTICELLOUT2006 CORS ARP.

The geographic position for the corner of Angle Point No. 14, identical with Angle Point No. 1, T. 36 S., R. 9 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **37°37'39.430" N.**,  
Longitude: **110°52'26.310" W.**, N.A.D. 83,  
Network Accuracy = 0.200 meter at 95% confidence.

The geographic position for the witness corner of sections 7, 12, 13, and 18, T. 37 S., Rs. 9 and 10 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **37°35'54.842" N.**,  
Longitude: **110°51'44.668" W.**, N.A.D. 83,  
Network Accuracy = 0.200 meter at 95% confidence.

DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY,  
TOWNSHIP 37 SOUTH, RANGE 9 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

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Dependent Resurvey of a Portion of the East Boundary,  
T. 37 S., R. 9 E., Salt Lake Meridian, Utah.

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Reestablishment of the Survey Executed by  
D. Cazier, Et al., in 1957.

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Beginning at the true point for the corner of sections 7, 12, 13, and 18, on the east boundary of T. 37 S., R. 9 E. Point falls on an inaccessible cliff face.

From this point, the witness corner of sections 7, 12, 13, and 18, bears East, 4.110 chains (record bearing and distance), monumented with an iron post, 2 1/2 inches diameter, firmly set, flush in a mound of stone, 4 ft. base, 3 ft. high, with brass cap marked as described in the official record of the 1957 survey.

N. 0°05.6' W., between sections 7 and 12, on the east boundary of the township.

- 39.991** True point for the 1/4 section corner of sections 7 and 12, at proportionate distance. Point falls on an inaccessible cliff face. The 1957 witness corner iron post was found lying loose nearby, on a boulder.

From this point, the point selected for witness corner for the 1/4 section corner of sections 7 and 12, bears S. 87°45.6' E., 3.839 chains distance.

Reset the original iron post, 2 1/2 inches diameter, 30 inches long, 13 inches in the ground, in a mound of stone, 3 ft. base, to top of brass cap marked as described in the official record of the 1957 survey.

This witness corner also functions as Angle Point No. 5 of the metes and bounds survey of the easterly boundary of Capitol Reef National Park in T. 37 S., R. 10 E, as described in the concurrent survey.

Set a steel fence post north of the corner.

Corner is located on top of a ridge, with a steep drop-off to the west.

- 49.835** Intersect the easterly boundary of Capitol Reef National Park. Point not monumented.

- 79.982** The corner of sections 1, 6, 7, and 12, monumented with an iron post, 2 1/2 inches diameter, firmly set, projecting 5 inches above a mound of stone, 3 ft. diameter, 2 ft. high, with brass cap marked as described in the official record of the 1957 survey.

METES AND BOUNDS SURVEY OF THE EASTERLY BOUNDARY OF  
 CAPITOL REEF NATIONAL PARK,  
 TOWNSHIP 37 SOUTH, RANGE 9 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

Metes and Bounds Survey of the Easterly Boundary of  
 Capitol Reef National Park,  
 T. 37 S., R. 9 E., Salt Lake Meridian, Utah.

**NOTE:** The metes and bounds survey of the easterly boundary of Capitol Reef National Park is based on an act, Public Law 92-207, dated December 18, 1971. The survey follows the westerly edge of Hall Mesa.

From the point at the intersection of the east boundary of the township, and the easterly boundary of Capitol Reef National Park, hereinbefore described. Point not monumented.

Thence **N. 16°07.2' W.**

**8.665** Point for Angle Point No. 1.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:

T37S R9E  
 CRNP AP 1  
 2011

Set a steel fence post, in a mound of stone, 3 ft. base, 2 ft. high, east of corner.

Thence **N. 12°51.8' W.**

**9.794** Point for Angle Point No. 2.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:

T37S R9E  
 CRNP AP 2  
 2011

Set a steel fence post, in a mound of stone, 4 ft. base, 3 ft. high, south of corner.

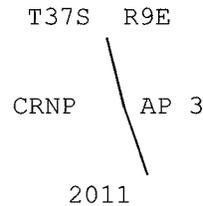
METES AND BOUNDS SURVEY OF THE EASTERLY BOUNDARY OF  
CAPITOL REEF NATIONAL PARK,  
TOWNSHIP 37 SOUTH, RANGE 9 EAST, SALT LAKE MERIDIAN, UTAH.

## CHAINS

Thence **N. 14°52.7' W.**

**16.478** Point for Angle Point No. 3.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:



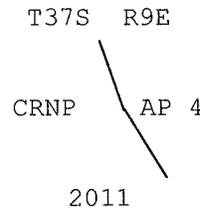
Set a steel fence post, in a mound of stone, 4 ft. base, 2 ft. high, north of corner.

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Thence **N. 4°43.4' W.**

**6.124** Point for Angle Point No. 4.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:



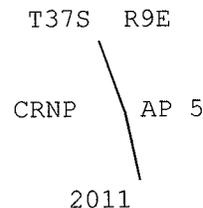
Set a steel fence post, in a mound of stone, 4 ft. base, 3 ft. high, north of corner.

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Thence **N. 2°45.4' E.**

**4.057** Point for Angle Point No. 5.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:



Set a steel fence post, in a mound of stone, 4 ft. base, 3 ft. high, south of corner.

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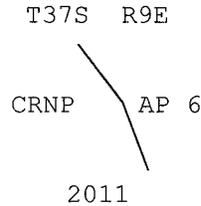
METES AND BOUNDS SURVEY OF THE EASTERLY BOUNDARY OF  
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 TOWNSHIP 37 SOUTH, RANGE 9 EAST, SALT LAKE MERIDIAN, UTAH.

## CHAINS

Thence **N. 9°24.7' W.**

**5.361** Point for Angle Point No. 6.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:



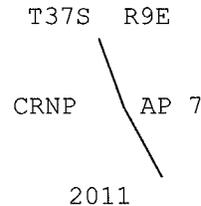
Set a steel fence post, in a mound of stone, 3 ft. base, 3 ft. high, north of corner.

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Thence **N. 36°38.3' W.**

**5.779** Point for Angle Point No. 7.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:



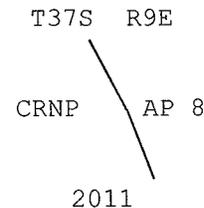
Set a steel fence post, in a mound of stone, 2 ft. base, 2 ft. high, south of corner.

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Thence **N. 33°07.3' W.**

**4.401** Point for Angle Point No. 8.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:



Set a steel fence post, in a mound of stone, 2 ft. base, 2 ft. high, southeast of corner.

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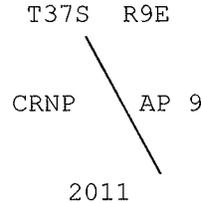
METES AND BOUNDS SURVEY OF THE EASTERLY BOUNDARY OF  
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 TOWNSHIP 37 SOUTH, RANGE 9 EAST, SALT LAKE MERIDIAN, UTAH.

## CHAINS

Thence **N. 35°51.3' W.**

**20.230** Point for Angle Point No. 9.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:



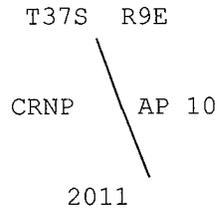
Set a steel fence post, in a mound of stone, 3 ft. base, 3 ft. high, southeast of corner.

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Thence **N. 32°02.4' W.**

**6.709** Point for Angle Point No. 10.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:



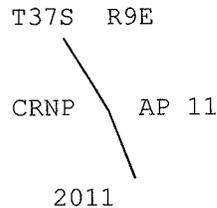
Set a steel fence post southwest of corner.

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Thence **N. 24°04.9' W.**

**6.430** Point for Angle Point No. 11.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 22 inches in the ground, with a magnet at base, with aluminum cap marked:



Set a steel fence post north of corner.

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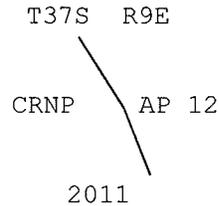
Thence **N. 24°34.0' W.**

METES AND BOUNDS SURVEY OF THE EASTERLY BOUNDARY OF  
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CHAINS

17.525 Point for Angle Point No. 12.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 24 inches in the ground, with a magnet at base, with aluminum cap marked:



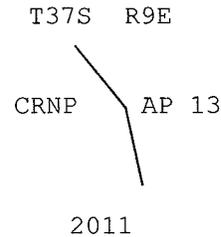
Set a steel fence post north of corner.

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Thence N. 24°34.4' W.

6.030 Point for Angle Point No. 13.

Set a brass tablet, 3 1/4 inch diameter, with 3 1/2 inch stem, flush with sandstone, in epoxy bond, into a drill hole on solid rock, marked:



Set a steel fence post northeast of corner.

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Thence N. 39°18.5' W.

4.584 Intersect the north boundary of the township at Angle Point No. 1 of the easterly boundary of Capital Reef National Park, on the south boundary of T. 36 S., R. 9 E., as described in the concurrent survey of T. 36 S., R. 9 E. This monument will also function as Angle Point No. 14 of the Park boundary in T. 37 S., R. 9 E. No additional marks were added to the brass tablet.

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**FIELD ASSISTANTS**

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Name	Capacity
Dale A. Graff	Cadastral Surveyor
Phil Freiberg	Survey Technician
Jacob R. Murdoch	Survey Aid

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## CERTIFICATE OF SURVEY

I, *Scott A. Burkhardt, Cadastral Surveyor*, HEREBY CERTIFY upon honor, that in pursuance of Special Instructions bearing the date of the *4<sup>th</sup> day of April, 2011*, I have *dependently resurveyed a portion of the east boundary, and surveyed the metes and bounds of the easterly boundary of Capitol Reef National Park, in Township 37 South, Range 9 East*, of the *Salt Lake Meridian*, in the State of *Utah*, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said special instructions, the Manual of Instructions of the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

7/27/12

Date

Scott Burkhardt

Cadastral Surveyor

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Salt Lake City, Utah

The following field notes of the *dependent resurvey of a portion of the east boundary, and a metes and bounds survey of the easterly boundary of Capitol Reef National Park, in Township 37 South, Range 9 East, Salt Lake Meridian, Utah*, executed by *Scott A. Burkhardt, Cadastral Surveyor*, having been critically examined and found correct, are hereby approved.

August 3, 2012

Date

Daniel W. Webb

Chief Cadastral Surveyor for Utah