

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE SURVEY OF

A PORTION OF THE SUBDIVISIONAL LINES,

AND

THE METES AND BOUNDS SURVEY OF THE EASTERLY BOUNDARY

OF CAPITOL REEF NATIONAL PARK,

IN

TOWNSHIP 37 SOUTH, RANGE 10 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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INDEX DIAGRAM

Township 37 South, Range 10 East.

6	5	4	3	2	1
7	8	9	10	11	12
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18	17	16	15	14	13
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The Metes and Bounds survey of
the Easterly Boundary of Capitol Reef National Park.....Page 4

TOWNSHIP 37 SOUTH, RANGE 10 EAST, SALT LAKE MERIDIAN, UTAH.

The following field notes describe the survey of a portion of the subdivisional lines, and the metes and bounds survey of the easterly boundary of Capitol Reef National Park, in T. 37 S., R. 10 E., Salt Lake Meridian, Utah.

HISTORY OF SURVEYS

	Surveyed by		Retr. or Resurveyed by	
SOUTH BOUNDARY				
All	E. Bird & R.C. Yundt	1923		
Portion			B.S. Owens	1957
EAST BOUNDARY				
All	B.S. Owens & A.D. Griffin	1957		
WEST BOUNDARY				
All	D. Cazier & A.D. Griffin	1957		
Portion			S.A. Burkhardt (Concurrently)	2011
NORTH BOUNDARY				
All	B.S. Owens & A.D. Griffin	1957		
SUBDIVISION				
Portion	B.S. Owens & A.D. Griffin	1957		

TOWNSHIP 37 SOUTH, RANGE 10 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)*, 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 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.

The geographic position for the corner of sections 8, 9, 16, and 17, T. 37 S., R. 10 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **37°35'55.010" N.**,
Longitude: **110°49'38.519" W.**, N.A.D. 83,
Network Accuracy = 0.200 meter at 95% confidence.

THE SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 37 SOUTH, RANGE 10 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

The Survey of a Portion of the Subdivisional Lines,
T. 37 S., R. 10 E., Salt Lake Meridian, Utah.

Beginning at the corner of sections 8, 9, 16, and 17, monumented with an iron post, 2 1/2 inches diameter, firmly set, projecting 5 inches above a mound of stone, 2 ft. base, 1 ft. high, with brass cap marked as described in the official record of the 1957 survey.

S. 89°54.4' W., between sections 8 and 17.

40.000 Point for the 1/4 section corner of sections 8 and 17.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 20 inches in the ground, to bedrock, with a magnet at base, in a mound of stone, 3 ft. base, to top of aluminum cap marked:

	T37S	R10E
		S8
1/4	———	
		S17
		2011

Corner is located in broken terrain, on a bench above and northwest of a drainage.

80.000 Point for the corner of sections 7, 8, 17, and 18.

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 a large boulder, marked:

	T37S	R10E
	S7	S8
	———	———
	S18	S17
		2011

Corner is located on the southeast face of a boulder, 8'x 5'x 4', in a drainage, course S. 50° W.

S. 89°54.4' W., between sections 7 and 18.

40.000 Point for the 1/4 section corner of sections 7 and 18.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 6 inches in the ground, to bedrock, with a magnet at base, in a mound of stone, 4 ft. base, to top of aluminum cap marked:

THE SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 37 SOUTH, RANGE 10 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

T37S R10E

1/4 $\frac{S7}{S18}$

2011

Corner is located in broken terrain, with numerous drainages and exposed sandstone ledges.

- 73.861** Intersect the easterly boundary of Capitol Reef National Park, point for Angle Point No. 1, not monumented.

From this point, the witness corner of sections 7, 12, 13, and 18, as described in the concurrent resurvey of T. 37 S., R. 9 E., bears South, 0.700 links distance.

- 77.971** True point for the corner of sections 7, 12, 13, and 18, on the west boundary of the township, as described in the concurrent resurvey of T. 37 S., R. 9 E.

From this point, the witness corner of sections 7, 12, 13, and 18, bears East, 4.110 chains distance.

Metes and Bounds Survey of
the Easterly Boundary of Capitol Reef National Park,
T. 37 S., R. 10 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. This survey follows along the westerly edge of Hall Mesa.

From the point for Angle Point No. 1, at intersection of the line between sections 7 and 18, T. 37 S., R. 10 E. Point not monumented.

Thence, **N. 8°12.9' E.**

- 7.581** 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 R10E
CRNP } AP 2
2011

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

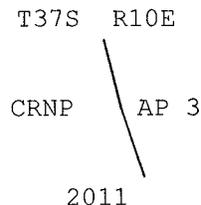
METES AND BOUNDS SURVEY OF
THE EASTERLY BOUNDARY OF CAPITOL REEF NATIONAL PARK,
TOWNSHIP 37 SOUTH, RANGE 10 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

Thence, **N. 1°45.9' W.**

6.562 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:

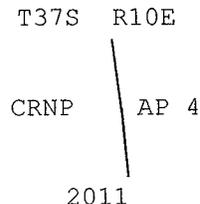


Set a steel fence post, in a mound of stone, 2 ft. base, 2 ft. high, southwest of corner.

Thence, **N. 4°28.3' W.**

15.905 Point for Angle Point No. 4.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 20 inches in the ground, with a magnet at base, in a mound of stone, 3 ft. base, to top of aluminum cap marked:



Set a steel fence post east of corner.

Thence, **N. 0°06.9' E.**

9.916 Point for Angle Point No. 5. Also functions (and marked as) the witness corner for the 1/4 section corner of sections 7 and 12, T. 37 S., Rs. 9 and 10 E., monumented with an iron post, 2 1/2 inches diameter, firmly set, in a mound of stone, 3 ft. base to top of brass cap marked as described in the concurrent survey of T. 37 S., R. 9 E.

No additional marks were added to the brass cap.

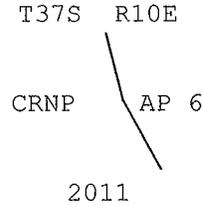
Thence, **N. 21°52.2' W.**

9.241 Point for Angle Point No. 6.

METES AND BOUNDS SURVEY OF
THE EASTERLY BOUNDARY OF CAPITOL REEF NATIONAL PARK,
TOWNSHIP 37 SOUTH, RANGE 10 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

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, 2 ft. high, north of corner.

Thence, **N. 16°07.2' W.**

- 1.476** Intersect the west boundary of the township. Point not monumented.

From this point, the true point for the 1/4 section corner of sections 7 and 12, bears S. 0°05.6' E., 9.844 chains distance, as described in the concurrent survey of T. 37 S., R. 9 E.

UNITED STATES
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BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

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

CERTIFICATE OF SURVEY

I, *Scott A. Burkhardt, Cadastral Surveyor*, HEREBY CERTIFY upon honor, that in pursuance of Special Instructions bearing the date of the *4th day of April, 2011*, I have *surveyed a portion of the subdivisional lines, and surveyed the metes and bounds of the easterly boundary of Capitol Reef National Park, in Township 37 South, Range 10 East, 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 *survey of a portion of the subdivisional lines, and the metes and bounds survey of the easterly boundary of Capitol Reef National Park, in Township 37 South, Range 10 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