

Record of Survey

Moss Springs/Eagle Cap Wilderness Boundary Wallowa-Whitman National Forest

NARRATIVE

Purpose:

This survey is an administrative survey within the boundary of the Wallowa-Whitman National Forest (WWNF). This survey was performed under WWNF Task No. AG-04M3-D-10-0053, dated August 2, 2010, with Notice to Proceed dated August 3, 2010. Ken Lind, USFS, was the Contracting Officers Representative (COR), and provided technical support and consultation. The purpose of the survey is to post and mark portions of Eagle Cap Wilderness Boundary. This contract does not include a Title Report or Title Research. The lines to post and mark are as delineated by WWNF within said contract.

History:

The legal description of the Eagle Cap Wilderness is as shown on the map dated September 1986 on file in the office of the Chief of the USDA Forest Service, as generally described in Public Law documents 98-328, 92-521 and 88-577.

Procedure:

This survey is controlled by the documents listed above. The vertical datum is the National Spatial Reference System (NSRS) NGVD 1929 ('29), and is defined by Bench Marks (BM) Mt. Fanny, with a '29 record elevation of 7153 feet and Point Prominence, with a '29 record elevation of 6745 feet. Points 50 and 51 GPS elevations derived from Geoid '09 were converted to NGVD'29 values by Corpsc0n 6.0.1 and controlled by said benchmarks. Additionally, general field procedures and methods were done with reference to the Department of Interior, Bureau of Land Management, Manual of Survey Instructions (Manual), USFS Cadastral Survey Specifications, Oregon Revised Statutes (ORS), and followed the "Standards and Guidelines for Cadastral Surveys using Global Positioning System Methods, Version 1.0, March 31, 2001, as adopted by the US DOI Bureau of Land Management and USDA Forest Service". Lines shown as Posted were posted with six foot galvanized channel posts, with Wilderness Boundary signs attached, at intervals generally less than 200 feet.

This survey was performed by a combination of Global Navigation Satellite System (GNSS) GPS and conventional ground survey methods. All monumented positions are within closed GPS networks, a conventional closed traverse, or with benefit of redundant measurements. Trimble Geomatics Office software was used for least squares adjustment, at the two sigma level, of survey data.

The geographic positions shown hereon were derived by static GPS methods and are controlled by observation data uploaded to the U.S. National Geodetic Survey (NGS) Online Positioning User Service (OPUS), which utilized Continuously Operating Reference Stations (CORS'96, epoch 2002); ENTERPRISEOR2007 (P372), GRANGEVILLE APT (IDNP), AND MCCALLAIR_ID2007 (P023).

Basis of Bearing:

The Basis of Bearing is the True Meridian and was derived from GPS observations. Plane Coordinates were calculated on a false meridian, and zero convergence angle, at the GPS control station 51, and then converted to ground bearing and distances with a project scale factor of 1.0003075072.

SHEET INDEX

SHEET 1 - Record of Survey

SHEET 2 - Corner Records

SHEET 3 - Corner Records, Notes and Reference Material.

NOTES

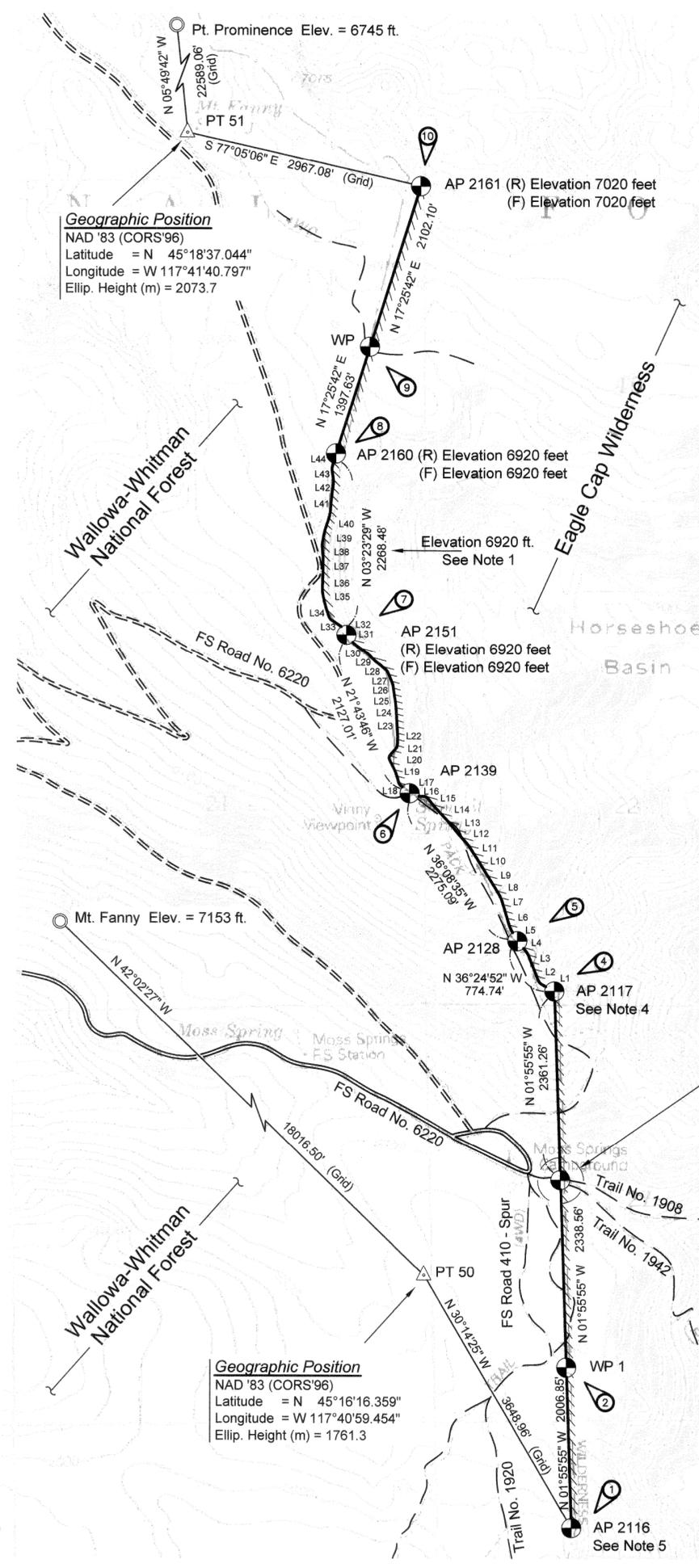
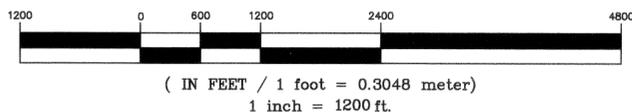
(See NOTES on sheet 3)

REFERENCE MATERIAL

(See REFERENCE MATERIAL on sheet 3)

National Geophysical Data Center
2010

GRAPHIC SCALE



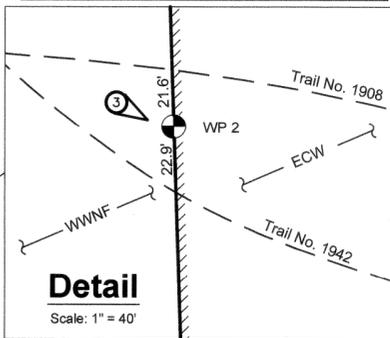
Geographic Position

NAD '83 (CORS'96)
Latitude = N 45°18'37.044"
Longitude = W 117°41'40.797"
Ellip. Height (m) = 2073.7

Geographic Position

NAD '83 (CORS'96)
Latitude = N 45°18'16.359"
Longitude = W 117°40'59.454"
Ellip. Height (m) = 1761.3

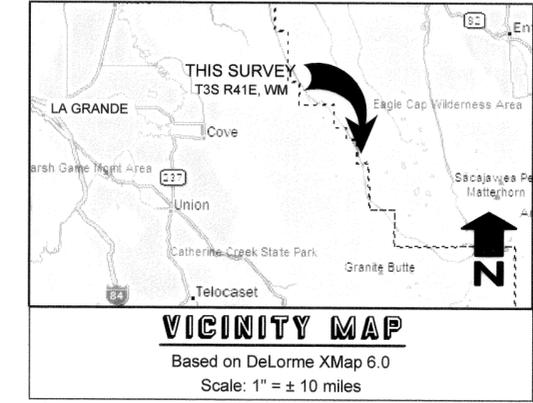
LINE TABLE		
LINE	LENGTH	BEARING
AP 2117		
L1	211.1	N62°05'W
L2	200.7	N22°01'W
L3	198.5	N21°03'W
L4	199.0	N39°36'W
AP 2128		
L5	191.4	N29°48'W
L6	195.6	N16°45'W
L7	210.6	N16°42'W
L8	188.0	N31°15'W
L9	175.0	N32°47'W
L10	198.5	N30°46'W
L11	193.1	N33°12'W
L12	196.0	N42°47'W
L13	204.5	N37°51'W
L14	200.4	N44°57'W
L15	202.3	N38°55'W
L16	116.4	S88°48'W
L17	95.4	N65°16'W
AP 2139		
L18	165.8	N50°40'W
L19	171.4	N16°15'W
L20	205.1	N26°46'W
L21	173.0	N41°42'E
L22	137.4	N01°50'E
L23	185.1	N04°02'W
L24	186.8	N02°32'W
L25	125.9	N09°59'W
L26	141.5	N07°39'W
L27	191.7	N22°35'W
L28	219.7	N51°30'W
L29	101.0	N42°30'W
L30	200.3	N55°51'W
L31	154.6	N38°46'W
AP 2151		
L32	105.0	N28°23'W
L33	194.1	N55°30'W
L34	173.3	N18°22'W
L35	168.9	N12°28'W
L36	197.7	N01°25'E
L37	201.0	N01°53'E
L38	202.0	N04°48'W
L39	202.1	N11°19'E
L40	192.6	N18°43'E
L41	202.7	N04°09'E
L42	204.6	N07°52'E
L43	164.8	N08°47'W
L44	192.2	N16°06'E
AP 2160		



REGISTERED
PROFESSIONAL
LAND SURVEYOR

Ron Walter
OREGON
JANUARY 18, 1994
RON C. WALTER
2648
Renewal Date: June 30, 2012

UNION COUNTY
SURVEYOR
Date Received 11/10/10
Date Filed 11/10/10
By R. Robinson, DEPUTY
File No. 023-2010



- ### LEGEND
- Positioned in compliance with the Eagle Cap Wilderness Boundary Description and Public Law documents 98-328, 92-521 and 88-577. Set a 3/4" aluminum cap on 2 1/2" diam. by 30" long aluminum pipe, with clear DEEP-1 magnet at base.
 - Survey line Posted (Wilderness Boundary signs) and Blazed.
 - GPS control point, this survey. Set a 2" aluminum cap on a 5/8" diam. by 30" long rebar, stamped "LS 2648 2010."
 - Existing Tri-station used for elevation control.
 - Pack Trail
 - Primary Road (NFS Road No. 6220)
 - Secondary Road (NFS Road No. 6220)
 - See corresponding corner note
 - WWNF Wallowa-Whitman National Forest
 - ECW Eagle Cap Wilderness
 - (R) Record (F) Found
 - AP Angle Point WP Witness Point
 - NFSL National Forest System Lands
 - USFS United States Forest Service

F. S. ACCEPTANCE

Examined and approved for the U.S. Forest Service
this 1st day of November, 2010.
Ken Lind, COR.
I certify that this survey was performed at the
request of the Wallowa-Whitman National Forest Supervisor.
Ron Walter 11/9/10
Signature Date

CERTIFICATE OF SURVEY

I, Ron C. Walter, L.S. No. 2648, State of Oregon, do hereby certify that the survey represented on this plat was performed by me or under my supervision in accordance with the laws of the State of Oregon, at the request of the U.S. Department of Agriculture, Forest Service.
Ron Walter 10-28-10
Signature Date

Record of Survey Wallowa-Whitman National Forest		
LOCATED WITHIN Moss Springs / Eagle Cap Wilderness Boundary Through Portions of Sections 16, 21, 22, 27 and 34, T3S, R41E Willamette Meridian, Union County, Oregon		
Wallowa Associates 303 S.E. Alamo Street Enterprise, Oregon 97828 (541) 426-9049		
SCALE 1" = 1200'	SHEET No. 1 of 3	DATE OF SURVEY Beginning: 8/5/10 Ending: 9/10/10
DRAWN BY KLP	CHECKED RCW	PROJECT No. WA 1091-03/2018ms
DATE 10/2010		

Record of Survey

Moss Springs/Eagle Cap Wilderness Boundary Wallowa-Whitman National Forest

1 Eagle Cap Wilderness Angle Point 2116

HISTORY OF ORIGINAL CORNER ESTABLISHED:

This is an administrative corner interior to NFSL. The position of this corner is controlled by the legal description of the Eagle Cap Wilderness as shown on the map dated September, 1986, as generally described in Public Law 98-328, 92-521 and 88-577, and as shown on Record of Survey filed with the Union County Surveyor as CS 023-2010.

DESCRIPTION OF CORNER EVIDENCE FOUND:

Corner not previously monumented.

DESCRIPTION OF MONUMENT AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATION OF THIS CORNER:

At the position determined by survey, Union County Survey No. 023-2010: Set a standard USFS 3/4 ins. diam. alum. cap on a 2 1/2 ins. diam. alum. post, 30 ins. long, buried 6 ins. in the ground to solid rock with 3 ft. diam. stone mound to top and a clear DEEP-1 magnet at base, mkd. as shown:
Set a guard post 2 ft. south of monument with Land Survey Monument (54-9) sign attached.

New bearing trees:

- A white fir, 7 ins. diam., bears S. 17° W., 30.9 ft. dist., mkd. X BT, on double blaze.
- A white fir, 7 ins. diam., bears S. 69° W., 11.7 ft. dist., mkd. X BT, on single blaze.



Both bearing trees in the same quadrant because they are the best available. Note: There is significant magnetic local attraction in this area. Shown bearings are mean of multiple forward and backward observations with a hand compass.

Autonomous C/A code geographic position:

Lat. 45°15'45.2" N
Long. 117°40'33.8" W

All bearing trees have a brass washer stamped "LS 2648" nailed in the side center and Bearing Tree (54-3) and Land Survey Monument (54-9) signs attached.

Posted Eagle Cap Wilderness Boundary N. 01°55'55" W. from corner with Wilderness Boundary (27-6A) signs, and a Land Survey Monument (54-9) sign on nearby post.

Monument is on top of a rocky high point.
Witnesses: Matt Brockamp and Kristina Powell
Date: 09/02/2010

2 Eagle Cap Wilderness Witness Point No. 1 line 2116-2117

HISTORY OF ORIGINAL CORNER ESTABLISHED:

This is an administrative corner interior to NFSL. The position of this corner is controlled by the legal description of the Eagle Cap Wilderness as shown on the map dated September, 1986, as generally described in Public Law 98-328, 92-521 and 88-577, and as shown on Record of Survey filed with the Union County Surveyor as CS 023-2010.

DESCRIPTION OF CORNER EVIDENCE FOUND:

Corner not previously monumented.

DESCRIPTION OF MONUMENT AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATION OF THIS CORNER:

At the position determined by survey, Union County Survey No. 023-2010: Set a standard USFS 3/4 ins. diam. alum. cap on a 2 1/2 ins. diam. alum. post, 30 ins. long, buried 25 ins. in ground with rock collar, with clear DEEP-1 magnet at base, mkd. as shown:

New bearing trees:

- A lodgepole pine, 6 ins. diam., bears N. 77° E., 22.0 ft. dist., mkd. X BT on double blaze.
- A lodgepole pine, 6 ins. diam., bears N. 59° W., 11.6 ft. dist., mkd. X BT on single blaze.



Autonomous C/A code geographic position:

Lat. 45°16'05.0" N
Long. 117°40'34.7" W

All bearing trees have a brass washer stamped "LS 2648" nailed in the side center and Bearing Tree (54-3) and Land Survey Monument (54-9) signs attached.

Posted Eagle Cap Wilderness Boundary N. 01°55'55" W. and S. 01°55'55" E. from corner with Wilderness Boundary (27-6A) signs, and a Land Survey Monument (54-9) sign on nearby post.

Witnesses: Matt Brockamp and Kristina Powell
Date: 09/02/2010

3 Eagle Cap Wilderness Witness Point No. 2 line 2116-2117

HISTORY OF ORIGINAL CORNER ESTABLISHED:

This is an administrative corner interior to NFSL. The position of this corner is controlled by the legal description of the Eagle Cap Wilderness as shown on the map dated September, 1986, as generally described in Public Law 98-328, 92-521 and 88-577, and as shown on Record of Survey filed with the Union County Surveyor as CS 023-2010.

DESCRIPTION OF CORNER EVIDENCE FOUND:

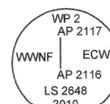
Corner not previously monumented.

DESCRIPTION OF MONUMENT AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATION OF THIS CORNER:

At the position determined by survey, Union County Survey No. 023-2010: Set a standard USFS 3/4 ins. diam. alum. cap on a 2 1/2 ins. diam. alum. post, 30 ins. long, buried 22 ins. in the ground, with a 4 ft. diam. stone mound and clear DEEP-1 magnet at base, mkd. as shown:

New bearing trees:

- A tamarack, 14 ins. diam., bears S. 71° E., 12.7 ft. dist., mkd. X BT on double blaze.
- A tamarack, 15 ins. diam., bears S. 63° W., 13.8 ft. dist., mkd. X BT on single blaze.



Autonomous C/A code geographic position:

Lat. 45°16'28.1" N
Long. 117°40'35.8" W

All bearing trees have a brass washer stamped "LS 2648" nailed in the side center and Bearing Tree (54-3) and Land Survey Monument (54-9) signs attached.

Posted Eagle Cap Wilderness Boundary N. 01°55'55" W. and S. 01°55'55" E. from corner with Wilderness Boundary (27-6A) signs, and a Land Survey Monument (54-9) sign on nearby post.

Monument is set in "Y" near Moss Springs trailhead.

Witnesses: Matt Brockamp and Kristina Powell

Date: 09/02/2010

4 Eagle Cap Wilderness Angle Point 2117

HISTORY OF ORIGINAL CORNER ESTABLISHED:

This is an administrative corner interior to NFSL. The position of this corner is controlled by the legal description of the Eagle Cap Wilderness as shown on the map dated September, 1986, as generally described in Public Law 98-328, 92-521 and 88-577, and as shown on Record of Survey filed with the Union County Surveyor as CS 023-2010.

DESCRIPTION OF CORNER EVIDENCE FOUND:

Corner not previously monumented.

DESCRIPTION OF MONUMENT AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATION OF THIS CORNER:

At the position determined by survey, Union County Survey No. 023-2010: Set a standard USFS 3/4 ins. diam. alum. cap on a 2 1/2 ins. diam. alum. post, 30 ins. long, buried 6 ins. in the ground to solid rock, with a 3 ft. diam. stone mound to top and a clear DEEP-1 magnet at base, mkd. as shown:

New bearing trees:

- An alpine fir, 12 ins. diam., bears S. 80° E., 59.6 ft. dist., mkd. ECWAP2117 BT.
- A lodgepole pine, 13 ins. diam., bears S. 43° W., 16.0 ft. dist., mkd. X BT on single blaze.



Autonomous C/A code geographic position:

Lat. 45°16'51.4" N
Long. 117°40'36.9" W

All bearing trees have a brass washer stamped "LS 2648" nailed in the side center and Bearing Tree (54-3) and Land Survey Monument (54-9) signs attached.

Posted Eagle Cap Wilderness Boundary N. 62°04'41" W. and S. 01°55'55" E. from corner with Wilderness Boundary (27-6A) signs, and a Land Survey Monument (54-9) sign on nearby post.

Monument is on top of a rocky divide between Catherine Creek and Minam Creek drainages.

Witnesses: Matt Brockamp and Kristina Powell

Date: 09/01/2010

5 Eagle Cap Wilderness Angle Point 2128

HISTORY OF ORIGINAL CORNER ESTABLISHED:

This is an administrative corner interior to NFSL. The position of this corner is controlled by the legal description of the Eagle Cap Wilderness as shown on the map dated September, 1986, as generally described in Public Law 98-328, 92-521 and 88-577, and as shown on Record of Survey filed with the Union County Surveyor as CS 023-2010.

DESCRIPTION OF CORNER EVIDENCE FOUND:

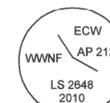
Corner not previously monumented.

DESCRIPTION OF MONUMENT AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATION OF THIS CORNER:

At the position determined by survey, Union County Survey No. 023-2010: Set a standard USFS 3/4 ins. diam. alum. cap on a 2 1/2 ins. diam. alum. post, 30 ins. long, buried 22 ins. in the ground, with a 3 ft. diam. stone mound to top and a clear DEEP-1 magnet at base, mkd. as shown:

New bearing trees:

- A Douglas fir, 18 ins. diam., bears N. 11° E., 18.1 ft. dist., mkd. ECWAP2128 BT.
- A lodgepole pine, 15 ins. diam., bears N. 82° W., 38.2 ft. dist., mkd. X BT on single blaze.



Autonomous C/A code geographic position:

Lat. 45°16'57.6" N
Long. 117°40'43.4" W

All bearing trees have a brass washer stamped "LS 2648" nailed in the side center and Bearing Tree (54-3) and Land Survey Monument (54-9) signs attached.

Posted Eagle Cap Wilderness Boundary N. 29°47'50" W. and S. 39°36'03" E. from corner with Wilderness Boundary (27-6A) signs, and a Land Survey Monument (54-9) sign on nearby post.

A trail bears N. 40° W and S. 50° E., ± 60 ft. west of monument.

Witnesses: Matt Brockamp and Kristina Powell

Date: 09/01/2010

6 Eagle Cap Wilderness Angle Point 2139

HISTORY OF ORIGINAL CORNER ESTABLISHED:

This is an administrative corner interior to NFSL. The position of this corner is controlled by the legal description of the Eagle Cap Wilderness as shown on the map dated September, 1986, as generally described in Public Law 98-328, 92-521 and 88-577, and as shown on Record of Survey filed with the Union County Surveyor as CS 023-2010.

DESCRIPTION OF CORNER EVIDENCE FOUND:

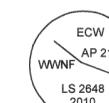
Corner not previously monumented.

DESCRIPTION OF MONUMENT AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATION OF THIS CORNER:

At the position determined by survey, Union County Survey No. 023-2010: Set a standard USFS 3/4 ins. diam. alum. cap on a 2 1/2 ins. diam. alum. post, 30 ins. long, buried 18 ins. in the ground to solid rock, with a 3 ft. diam. stone mound to top and a clear DEEP-1 magnet at base, mkd. as shown:

New bearing trees:

- A lodgepole pine, 8 ins. diam., bears S. 18° W., 42.0 ft. dist., mkd. X BT on single blaze.
- A lodgepole pine, 11 ins. diam., bears N. 24° W., 33.3 ft. dist., mkd. ECWAP2139 BT.



Autonomous C/A code geographic position:

Lat. 45°17'15.7" N
Long. 117°41'02.1" W

All bearing trees have a brass washer stamped "LS 2648" nailed in the side center and Bearing Tree (54-3) and Land Survey Monument (54-9) signs attached.

Posted Eagle Cap Wilderness Boundary N. 52°24'25" W. and S. 65°16'11" E. from corner with Wilderness Boundary (27-6A) signs, and a Land Survey Monument (54-9) sign on nearby post.

A trail bears NW-SE, ±5 ft. S'y of monument.

Witnesses: Matt Brockamp and Kristina Powell

Date: 09/01/2010

NOTES

(See NOTES on sheet 3)

REFERENCE MATERIAL

(See REFERENCE MATERIAL on sheet 3)

UNION COUNTY SURVEYOR	
Date Received	11/10/10
Date Filed	11/10/10
By	R. ROBINSON, DEPUTY
File No.	023-2010

Record of Survey Wallowa-Whitman National Forest		
LOCATED WITHIN Moss Springs / Eagle Cap Wilderness Boundary Through Portions of Sections 16, 21, 22, 27 and 34, T3S, R41E Willamette Meridian, Union County, Oregon		
 Wallowa Associates 303 S.E. Alamo Street Enterprise, Oregon 97828 (541) 426-9049		
SCALE 1" = 1200'	SHEET No. 2 of 3	DATE OF SURVEY Beginning: 8/5/2010 Ending: 9/10/2010
DRAWN BY KLP	CHECKED RCW	PROJECT No. WA 1091-03/2018ms
DATE 10/2010		

County Survey No. 023-2010

Record of Survey

Moss Springs/Eagle Cap Wilderness Boundary Wallowa-Whitman National Forest

Eagle Cap Wilderness Angle Point 2151

HISTORY OF ORIGINAL CORNER ESTABLISHED:

This is an administrative corner interior to NFSL. The position of this corner is controlled by the legal description of the Eagle Cap Wilderness as shown on the map dated September, 1986, as generally described in Public Law 98-328, 92-521 and 88-577, and as shown on Record of Survey filed with the Union County Surveyor as CS 023-2010.

DESCRIPTION OF CORNER EVIDENCE FOUND:

Corner not previously monumented.

DESCRIPTION OF MONUMENT AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATION OF THIS CORNER:

At the position determined by survey, Union County Survey No. 023-2010:
Set a standard USFS 3/4 ins. diam. alum. cap on a 2 1/2 ins. diam. alum. post, 30 ins. long, buried 25 ins. in the ground, with a 3 ft. diam. stone mound to top and clear DEEP-1 magnet at base, mkd. as shown:

New bearing trees:

- A lodgepole pine, 16 ins. diam., bears S. 36° E., 37.2 ft. dist., mkd. ECWAP2151 BT.
- A lodgepole pine, 12 ins. diam., bears S. 55° W., 12.7 ft. dist., mkd. X BT on double blaze.

Autonomous C/A code geographic position:

Lat. 45°17'35.2" N
Long. 117°41'13.1" W



All bearing trees have a brass washer stamped "LS 2648" nailed in the side center and Bearing Tree (54-3) and Land Survey Monument (54-9) signs attached.

Posted Eagle Cap Wilderness Boundary N. 28°23'05" W. and S. 38°46'20" E. from corner with Wilderness Boundary (27-6A) signs, and a Land Survey Monument (54-9) sign on nearby post.

South end of 6920 ft. elevation contour, basin bears NE'ly.

Witnesses: Matt Brockamp and Kristina Powell

Date: 08/26/2010

Eagle Cap Wilderness Angle Point 2160

HISTORY OF ORIGINAL CORNER ESTABLISHED:

This is an administrative corner interior to NFSL. The position of this corner is controlled by the legal description of the Eagle Cap Wilderness as shown on the map dated September, 1986, as generally described in Public Law 98-328, 92-521 and 88-577, and as shown on Record of Survey filed with the Union County Surveyor as CS 023-2010.

DESCRIPTION OF CORNER EVIDENCE FOUND:

Corner not previously monumented.

DESCRIPTION OF MONUMENT AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATION OF THIS CORNER:

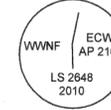
At the position determined by survey, Union County Survey No. 023-2010:
Set a standard USFS 3/4 ins. diam. alum. cap on a 2 1/2 ins. diam. alum. post, 30 ins. long, buried 25 ins. in the ground, with a rock collar and clear DEEP-1 magnet at base, mkd. as shown:

New bearing trees:

- A lodgepole pine, 8 ins. diam., bears S. 73° E., 24.8 ft. dist., mkd. ECWAP2160 BT.
- A mountain hemlock, 6 ins. diam., bears N. 4° W., 20.6 ft. dist., mkd. X BT on single blaze.

Autonomous C/A code geographic position:

Lat. 45°17'57.5" N
Long. 117°41'15.0" W



All bearing trees have a brass washer stamped "LS 2648" nailed in the side center and Bearing Tree (54-3) and Land Survey Monument (54-9) signs attached.

Posted Eagle Cap Wilderness Boundary N. 17°25'42" E. and S. 16°06'26" W. from corner with Wilderness Boundary (27-6A) signs, and a Land Survey Monument (54-9) sign on nearby post.

North end of 6920 ft. elevation contour, basin bears SE'ly.

Witnesses: Matt Brockamp and Kristina Powell

Date: 08/26/2010

Eagle Cap Wilderness Witness Point line 2160-2161

HISTORY OF ORIGINAL CORNER ESTABLISHED:

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DESCRIPTION OF CORNER EVIDENCE FOUND:

Corner not previously monumented.

DESCRIPTION OF MONUMENT AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATION OF THIS CORNER:

At the position determined by survey, Union County Survey No. 023-2010:
Set a standard USFS 3/4 ins. diam. alum. cap on a 2 1/2 ins. diam. alum. post, 30 ins. long, buried 25 ins. in the ground, with a rock collar and a clear DEEP-1 magnet at base, mkd. as shown:

New bearing trees:

- A lodgepole pine, 5 ins. diam., bears S. 4° W., 61.7 ft. dist., mkd. X BT on double blaze.
- A lodgepole pine, 5 ins. diam., bears N. 38° W., 32.2 ft. dist., mkd. X BT on single blaze.

Autonomous C/A code geographic position:

Lat. 45°18'10.7" N
Long. 117°41'09.2" W



All bearing trees have a brass washer stamped "LS 2648" nailed in the side center and Bearing Tree (54-3) and Land Survey Monument (54-9) signs attached.

Posted Eagle Cap Wilderness Boundary N. 17°25'42" E. and S. 17°25'42" W. from corner with Wilderness Boundary (27-6A) signs, and a Land Survey Monument (54-9) sign on nearby post.

A trail bears E-W, ± 50 ft. N'ly of monument.

Witnesses: Matt Brockamp and Kristina Powell

Date: 09/02/2010

Eagle Cap Wilderness Angle Point 2161

HISTORY OF ORIGINAL CORNER ESTABLISHED:

This is an administrative corner interior to NFSL. The position of this corner is controlled by the legal description of the Eagle Cap Wilderness as shown on the map dated September, 1986, as generally described in Public Law 98-328, 92-521 and 88-577, and as shown on Record of Survey filed with the Union County Surveyor as CS 023-2010.

DESCRIPTION OF CORNER EVIDENCE FOUND:

Corner not previously monumented.

DESCRIPTION OF MONUMENT AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATION OF THIS CORNER:

At the position determined by survey, Union County Survey No. 023-2010:
Set a standard USFS 3/4 ins. diam. alum. cap on a 2 1/2 ins. diam. alum. post, 30 ins. long, buried 25 ins. in the ground, with a clear DEEP-1 magnet at base with rock collar, mkd. as shown:
Set a guard post 2 ft. north of monument with Land Survey Monument (54-9) sign attached.

New bearing trees:

- A lodgepole pine, 6 ins. diam., bears S. 70° E., 16.7 ft. dist., mkd. ECWAP2161 BT.
- A lodgepole pine, 8 ins. diam., bears S. 4° W., 12.0 ft. dist., mkd. ECWAP2161 BT.

Autonomous C/A code geographic position:

Lat. 45°18'30.5" N
Long. 117°41'00.3" W



All bearing trees have a brass washer stamped "LS 2648" nailed in the side center and Bearing Tree (54-3) and Land Survey Monument (54-9) signs attached.

Posted Eagle Cap Wilderness Boundary S. 17°25'42" W. from corner with Wilderness Boundary (27-6A) signs, and a Land Survey Monument (54-9) sign on nearby post.

Monument is on top of a spur ridge with a vertical precipice which bears east-west, ± 20 ft. north of monument.

Witnesses: Matt Brockamp and Kristina Powell

Date: 08/25/2010

NOTES

1. The boundary line between Angle Point 2151 and Angle Point 2160 follows the 6920 ft. elevation contour.
2. The trail and FS Road No. 6220 shown hereon have been surveyed where they approach or cross the boundary line. The continuation of these have been graphically depicted off of Google Earth and DeLorme Xmap 6.0.
3. Six foot galvanized channel posts with Wilderness Boundary signs are set at the end of every line shown in the Line Table, unless monumented.
4. AP 2117 (R) Elevation 6390 feet
(F) Elevation 6381 feet
5. AP 2116 (R) Elevation 6080 feet
(F) Elevation 6080 feet
6. Bearings and distances to new bearing trees were measured using a Warren Knight staff compass with tripod, a logger's tape, a diameter tape and clinometer, or a Total Station from established control. Bearings to bearing trees at corners not needing new accessories were checked against the record with a hand compass. The project magnetic declination was determined to be 15° East using the National Geophysical Data Center website. Some accessories, shown hereon, with short witness distances were determined by hand compass, with benefit of forward and back bearings to verify accuracy.

REFERENCE MATERIAL

County Surveys:
Survey No. 051-1998

Other:

Eagle Cap Wilderness Boundary description, dated 1986.
Public Law No. 88-577
Public Law No. 92-521
Public Law No. 98-328

UNION COUNTY SURVEYOR	
Date Received	11/10/10
Date Filed	11/10/10
By	R. ROBINSON, Deputy
File No.	023-2010

Record of Survey Wallowa-Whitman National Forest		
LOCATED WITHIN Moss Springs / Eagle Cap Wilderness Boundary Through Portions of Sections 16, 21, 22, and 34, T3S, R41E Willamette Meridian, Union County, Oregon		
 Wallowa Associates 303 S.E. Alamo Street Enterprise, Oregon 97828 (541) 426-9049		
SCALE 1" = 1200'	SHEET No. 3 of 3	DATE OF SURVEY Beginning: 8/5/2010 Ending: 9/10/2010
DRAWN BY KLP DATE 10/2010	CHECKED RCW	PROJECT No. WA 1091-03/2018ms

County Survey No. 023-2010