

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE
DEPENDENT RESURVEY
OF
PORTIONS OF THE WEST AND NORTH BOUNDARIES,
AND
A PORTION OF THE SUBDIVISIONAL LINES,
AND THE
SUBDIVISION OF CERTAIN SECTIONS,
TOWNSHIP 29 NORTH, RANGE 85 WEST,
OF THE SIXTH PRINCIPAL MERIDIAN,
IN THE STATE OF WYOMING.

EXECUTED BY

LYNN A. FORBES

CADASTRAL SURVEYOR

Under Special Instructions dated JUNE 14 1999, approved JUNE 14, 1999, which provided for the surveys included under Group Number 664, and assignment instructions dated JUNE 14, 1999.

Survey commenced JUNE 23, 1999

Survey completed JULY 6, 1999

INDEX DIAGRAM

Township 29 North, Range 85 West

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T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming

CHAINS

The following field notes are those of the dependent resurvey of portions of the west and north boundaries, and a portion of the subdivisional lines, and the subdivision of certain sections, Township 29 North, Range 85 West, Sixth Principal Meridian, Wyoming.

William O. Downey and Mortimer N. Grant surveyed the west and north boundaries in 1881. William O. Owen retraced the west and north boundaries and surveyed the subdivisional lines in 1882. Anthony C. Kimmell dependently resurveyed the west boundary and a portion of the north boundary in 1940. The Bureau of Biological Survey performed an unofficial administrative survey of the Pathfinder Wildlife refuge in 1934. This survey was never recorded with the General Land Office.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions for Group No. 664, Wyoming, dated June 14, 1999.

Preliminary to the resurvey, the lines of the previous surveys were retraced and diligent search was made for all corners and other calls of the field note record. Identified corners were remonumented in their original positions; lost corners were reestablished and monumented at proportionate positions based on the latest official record, but only after exhausting every possibility of finding direct evidence of such corners. The retracement data was thoroughly verified and only true line field notes are given herein, which refer to the completed survey.

The survey was executed with a Global Positioning System (GPS) TRIMBLE Model 4000 receiver. The instruments were maintained in proper adjustment at all times. The direction of all lines refer to the true meridian. All directions, distances and geographic positions were determined by GPS.

The geographic position of the 1/4 section corner of sections 7 and 18, based on NAD 83 (1993) and determined by GPS, is:

Latitude 42° 29' 29.907" N., Longitude 107° 03' 49.175" W.

The magnetic declination is 12° E.

Dependent Resurvey, Portion of the West Boundary,
T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming

CHAINS																																	
	<p>(Restoring the resurvey executed by Anthony C. Kimmell in 1940)</p> <hr/> <p>Beginning at the cor. of secs. 7, 12, 13 and 18, monumented with an iron post, 2½ ins. diam., firmly set, projecting 10 ins. above the ground, with a mound of stone, 3 ft. base, 3 ft. high, W. of the cor., with brass cap mkd.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td colspan="2" style="text-align: center;">T29N</td></tr> <tr><td style="text-align: center;">R86W</td><td style="text-align: center;">R85W</td></tr> <tr><td style="text-align: center;">S 12</td><td style="text-align: center;">S 7</td></tr> <tr><td colspan="2" style="text-align: center;">-----</td></tr> <tr><td style="text-align: center;">S 13</td><td style="text-align: center;">S 18</td></tr> <tr><td colspan="2" style="text-align: center;">1940</td></tr> </table> <p>N. 0° 13' E., bet. secs. 7 and 12.</p> <p>Over gently rolling terrain.</p> <p>20.105 Point for the S. 1/16 sec. cor. of secs. 7 and 12.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td colspan="2" style="text-align: center;">T29N</td></tr> <tr><td style="text-align: center;">R86W</td><td style="text-align: center;">R85W</td></tr> <tr><td colspan="2" style="text-align: center;">S1/16</td></tr> <tr><td style="text-align: center;">S 12</td><td style="text-align: center;">S 7</td></tr> <tr><td colspan="2" style="text-align: center;">1999</td></tr> </table> <p>Set a steel fence post alongside the iron post.</p> <p>40.21 The 1/4 sec. cor. of secs. 7 and 12, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above the ground, with a mound of stone, 3 ft. base, 2 ft. high, W. of the cor., with brass cap mkd.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td colspan="2" style="text-align: center;">T29N</td></tr> <tr><td style="text-align: center;">R86W</td><td style="text-align: center;">R85W</td></tr> <tr><td colspan="2" style="text-align: center;">1/4</td></tr> <tr><td style="text-align: center;">S 12</td><td style="text-align: center;">S 7</td></tr> <tr><td colspan="2" style="text-align: center;">1940</td></tr> </table> <hr/>	T29N		R86W	R85W	S 12	S 7	-----		S 13	S 18	1940		T29N		R86W	R85W	S1/16		S 12	S 7	1999		T29N		R86W	R85W	1/4		S 12	S 7	1940	
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Dependent Resurvey, Portion of the North Boundary,
T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming

CHAINS

(Restoring the survey executed by
Anthony C. Kimmell in 1940)

From the W. 1/16 sec. cor. of secs. 5 and 32, established by
Biological Survey, monumented with a concrete post, 3 ins. diam.,
firmly set, projecting 12 ins. above the ground, with brass cap
mkd.

100
T30N
S 32
W1/16 ———
S 5
T29N
R85W
1934

This position is accepted as a careful and faithful determination
of the position of the cor.

N. 89° 26' W., bet. secs. 5 and 32.

Over nearly level terrain.

20.01 The cor. of secs. 5, 6, 31 and 32, monumented with an iron post,
2 ins. diam., firmly set, projecting 6 ins. above the ground,
with a mound of stone, 3 ft. base, 2 ft. high, W. of cor., with
brass cap mkd.

T30N R85W
S 31 | S 32
———|———
S 6 | S 5
T29N
1940

Dependent Resurvey, Portion of the Subdivisional Lines,
T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming

(Restoring the survey executed by
William O. Owen in 1882)

From the 1/4 sec. cor. of secs. 7 and 8, monumented with a
granite stone, 9x5x4 ins., firmly set 8 ins. in the ground,
plainly mkd. 1/4 on W. face.

Dependent Resurvey, Portion of the Subdivisional Lines,
T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming

CHAINS	
	<p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T29N R85W 1/4 S 7 S 8 1999</p> <p>Bury the original cor. stone and set a steel fence post alongside the iron post.</p> <p>Cor. is located in fence extending N., and S. 30 lks. to cor. of fences extending N. and W.</p> <p>N. 0° 03' E., bet. secs. 7 and 8.</p> <p>Over gently rolling terrain, along fence.</p>
20.01	<p>Point for the N. 1/16 sec. cor. of secs. 7 and 8.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T29N R85W N1/16 S 7 S 8 1999</p> <p>Cor. is located in fence extending N. and S.</p>
40.02	<p>The cor. of secs. 5, 6, 7 and 8, monumented with a granite stone, 18x4x4 ins., firmly set 4 ins. in the ground, plainly mkd. 5 grooves on E. face and 5 grooves on S. face, with a Biological Survey concrete monument, 24 ins. long, 3 ins. diam., firmly set 26 ins. in the ground, alongside, with brass cap mkd. 95 T29N 5 6 7 8 R85W 1934.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T29N R85W S 6 S 5 ----- S 7 S 8 1999</p>

Dependent Resurvey, Portion of the Subdivisional Lines,
T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming

CHAINS	<p>Bury the original cor. stone and the Biological Survey monument alongside the iron post.</p> <p>Cor. is located at cor. of fences extending E. and S.</p> <hr/> <p>From the cor. of secs. 4, 5, 8 and 9, reestablished by Biological Survey, monumented with a concrete post, 3 ins. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <table style="margin: auto; border-collapse: collapse;"> <tr><td style="padding: 0 10px;">93</td></tr> <tr><td style="padding: 0 10px;">T29N</td></tr> <tr><td style="padding: 0 10px;">5 4</td></tr> <tr><td style="border-top: 1px solid black; padding: 0 10px;">8 9</td></tr> <tr><td style="padding: 0 10px;">R85W</td></tr> <tr><td style="padding: 0 10px;">1934</td></tr> </table> </div> <p>This position is accepted as a careful and faithful reestablishment of the original cor. position.</p> <p>Cor. is located in fence extending E. and W.</p> <p>N. 89° 07' W., bet. secs. 5 and 8.</p> <p>Over gently rolling terrain, along fence.</p> <p>40.01 The 1/4 sec. cor. of secs. 5 and 8, monumented with a granite stone, 14x6x4 ins., firmly set 5 ins. in the ground, plainly mkd. 1/4 on N. face, with a Biological Survey concrete monument, 24 ins. long, 3 ins. diam., firmly set 26 ins. in the ground, alongside, with brass cap mkd. 94 T29N 1/4 5 8 R85W 1934.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <table style="margin: auto; border-collapse: collapse;"> <tr><td style="padding: 0 10px;">T29N R85W</td></tr> <tr><td style="padding: 0 10px;">S 5</td></tr> <tr><td style="padding: 0 10px;">1/4 ———</td></tr> <tr><td style="padding: 0 10px;">S 8</td></tr> <tr><td style="padding: 0 10px;">1999</td></tr> </table> </div> <p>Bury the original cor. stone and the Biological Survey monument alongside the iron post.</p> <p>Cor. is located in fence extending E. and W.</p> <hr/>	93	T29N	5 4	8 9	R85W	1934	T29N R85W	S 5	1/4 ———	S 8	1999
93												
T29N												
5 4												
8 9												
R85W												
1934												
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S 5												
1/4 ———												
S 8												
1999												

Dependent Resurvey, Portion of the Subdivisional Lines,
T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming

CHAINS	
	N. 89° 51' W., beginning new measurement.
	Over gently rolling terrain.
23.00	Natrona County Road No. 410 (Buzzard Road), bears SE. and NW.
	Over rolling terrain, along fence.
40.02	The cor. of secs. 5, 6, 7 and 8.
	<hr/> S. 89° 42' W., bet. secs. 6 and 7.
	Over gently rolling terrain.
20.50	Natrona County Road No. 410 (Buzzard Road), bears NE. and SW.
30.75	Same road, bears SSE. and WNW. on bridge over Sweetwater River, course ENE.
39.78	The 1/4 sec. cor. of secs. 6 and 7, reestablished by Biological Survey, monumented with a concrete post, 3 ins. diam., firmly set, projecting 10 ins. above the ground, with brass cap mkd.
	<div style="text-align: center;"> 96 T29N 6 1/4 ——— 7 R85W 1934 </div>
	This position is accepted as a careful and faithful reestablishment of the original cor. position.
	<hr/> S. 89° 42' W., beginning new measurement.
	Over gently rolling terrain.
14.00	Sweetwater River, course N.
39.30	The cor. of secs. 1, 6, 7 and 12, on the W. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above the ground, with a mound of stone, 4 ft. base, 3 ft. high, W. of the cor., with brass cap mkd.

Dependent Resurvey, Portion of the Subdivisional Lines,
T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming

CHAINS	<p style="text-align: center;">T29N R86W R85W S 1 S 6 ----- S 12 S 7 1940</p>
	<p>From the cor. of secs. 5, 6, 7 and 8.</p> <p>N. 0° 01' W., bet. secs. 5 and 6.</p> <p>Over gently rolling terrain.</p> <p>3.50 Buzzard Ranch Road, bears ESE. and WNW.</p> <p>14.00 S. shore of Pathfinder Reservoir, bears NE. and SW.; thence across reservoir.</p> <p>40.39 The 1/4 sec. cor. of secs. 5 and 6, remonumented by the Biological Survey, with a concrete post, 24 ins. long, 3 ins. diam., firmly set, projecting 9 ins. above the ground, with brass cap missing, with a National Wildlife Refuge wooden sign post, 6 ins. diam., alongside. This position is accepted as a careful and faithful perpetuation of the original cor. position.</p> <p>At corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">T29N R85W 1/4 S 6 S 5 1999</p> <p>Bury the remains of the concrete monument and retain the wood sign post alongside the iron post.</p> <p>Cor. is located in flood plane of Pathfinder Reservoir.</p> <p>51.00 N. shore of Pathfinder Reservoir, bears E. and W.; thence over gently rolling terrain.</p> <p>79.42 The cor. of secs. 5, 6, 31 and 32, on the N. bdy. of the Tp.</p>

Subdivision of Section 5,
T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming

CHAINS	<p>From the point for the center W. 1/16 sec. cor. of sec. 5, at proportionate distance by the method of grant boundary adjustment, base on the records of the 1934 Biological Survey; there is no remaining evidence of the their monument. This method of restoration was determined to be the most applicable to determine the position as established in 1934.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T29N R85W W 1/16 C———C S 5 2002</p> <p>Set a steel fence post alongside the iron post.</p> <p>Cor. is located 7 lks. W. of underground gas pipeline extending E. and W., 35 lks. S. the high water line of Pathfinder Reservoir, bears ESE. and WNW.</p> <p>N. 89° 10' W., on the E. and W. center line of sec. 5.</p> <p>Over gently rolling terrain.</p> <p>19.99 The 1/4 sec. cor. of secs. 5 and 6.</p> <hr/> <p>From the center W. 1/16 sec. cor. of sec. 5.</p> <p>N. 0° 03' W., on the N. and S. center line of the NW¼ of sec. 5.</p> <p>Over gently rolling terrain.</p> <p>39.12 The W. 1/16 sec. cor. of secs. 5 and 32, on the N. bdy. of the Tp.</p> <hr/> <p style="text-align: center;">Subdivision of Section 6, T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming</p> <hr/> <p>From the 1/4 sec. cor. of secs. 5 and 6.</p> <p>S. 89° 49' W., on the E. and W. center line of sec. 6.</p> <p>Across Pathfinder reservoir.</p>
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Subdivision of Section 6,
T. 29 N., R. 85 W., Sixth Principal Meridian, Wyoming

CHAINS	
4.00	W. bank of Pathfinder Reservoir, bears N. and S.; thence over gently rolling terrain.
19.98	Point for the center E. 1/16 sec. cor. of sec. 6. Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd. <div style="text-align: center;"> T29N R85W E1/16 C—————C S 6 1999 </div> Set a steel fence post alongside the iron post.
39.96	The center 1/4 sec. cor. of sec. 6, established by Biological Survey, monumented with a concrete post, 3 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. <div style="text-align: center;"> 97 T29N C 1/4 6 C — — C C R85W 1934 </div> This position is accepted as a careful and faithful determination of the cor. position. <hr style="width: 20%; margin: auto;"/> S. 89° 47' W., beginning new measurement. Over nearly level terrain.
0.32	Fence, bears N. and S.
39.55	The 1/4 sec. cor. of secs. 1 and 6, on the W. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. <div style="text-align: center;"> 1/4 S 1 S 6 1940 </div> <hr style="width: 100%; margin-top: 20px;"/>

Subdivision of Section 7,
T. 30 N., R. 86 W., Sixth Principal Meridian, Wyoming

CHAINS	
	<p>From the 1/4 sec. cor. of secs. 7 and 18, monumented with a granite stone, 18x12x7 ins., firmly set 12 ins. in the ground, plainly mkd. 1/4 on N. face.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T29N R85W S 7 1/4 ——— S 18 1999</p> <p>Bury the original cor. stone alongside the iron post.</p> <p>Cor. is located 20 lks. E. of fence extending N. and S.</p> <p>N. 0° 05' W., on the N. and S. center line of sec. 7.</p> <p>Over gently rolling terrain, along fence.</p>
19.86	<p>Point for the center S. 1/16 sec. cor. of sec. 7.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T29N R85W C S1/16 S 7 C 1999</p> <p>Set a steel fence post alongside the iron post.</p> <p>Cor. is located 24 lks. E. of fence extending N. and S.</p>
39.72	<p>Point for the center 1/4 sec. cor. of sec. 7, at intersection with the E. and W. center line.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T29N R85W C1/4 S 7 1999</p>

Subdivision of Section 7,
T. 30 N., R. 86 W., Sixth Principal Meridian, Wyoming

CHAINS	
	<p>Set a steel fence post alongside the iron post.</p> <p>Cor. is located 18 lks. E. of fence extending N. and S.</p>
59.54	<p>Point for the center N. 1/16 sec. cor. of sec. 7.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T29N R85W C N1/16 S 7 C 1999</p>
	<p>Set a steel fence post alongside the iron post.</p> <p>Cor. is located 10 lks. E. of fence extending N. and S.</p>
79.36	<p>The 1/4 sec. cor. of secs. 6 and 7.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 7 and 8.</p> <p>N. 89° 46' W., on the E. and W. center line of sec. 7.</p> <p>Over gently rolling terrain.</p>
19.84	<p>Point for the center E. 1/16 sec. cor. of sec. 7.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T29N R85W E1/16 C———C S 7 1999</p>
	<p>Set a steel fence post alongside the iron post.</p>
39.68	<p>The center 1/4 sec. cor. of sec. 7.</p>
78.71	<p>The 1/4 sec. cor. of secs. 7 and 12, on the W. bdy. of the Tp.</p> <hr/> <p>From the N. 1/16 sec. cor. of secs. 7 and 8.</p> <p>S. 89° 58' W. on the E. and W. center line of the NE¼ of sec. 7.</p>

Subdivision of Section 7,
T. 30 N., R. 86 W., Sixth Principal Meridian, Wyoming

CHAINS	<p>Over gently rolling terrain.</p>
39.73	<p>The center N. 1/16 sec. cor. of sec. 7.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <p>The area encompassed by this survey is situated in the southern portion of Natrona County, approximately 48 miles southwest of Casper, Wyoming. The terrain is gently rolling with an elevation of about 5,900 feet above sea level. The soil is primarily sandy with vegetation consisting of native grasses and sagebrush.</p> <p>Drainage of the area is northeasterly via the Sweetwater River emptying into Pathfinder Reservoir.</p> <p>Access is provided by Wyoming State Highway No. 220, by the Natrona County Road No. 410 (Buzzard Ranch Road), and by numerous trails in the area. There was no residences or mineral activity in this area at the time of the survey.</p>

CERTIFICATE OF SURVEY

I, Lynn A. Forbes, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 14th day of June, 1999, I have dependently resurveyed portions of the west and north boundaries, and a portion of the subdivisional lines, and subdivided certain sections, Township 29 North, Range 85 West, of the Sixth Principal Meridian, in the State of Wyoming, 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 for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

DEC 31 2002

(Date)


(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Cheyenne, Wyoming

The foregoing field notes of the dependent resurvey of portions of the west and north boundaries, and a portion of the subdivisional lines, and the subdivision of certain sections, Township 29 North, Range 85 West, Sixth Principal Meridian, Wyoming, executed by Lynn A. Forbes, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

DEC 31 2002

(Date)


(Signature of Authorized Officer)