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618 - 5883

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**ORIGINAL**

*R. Allen*

# FIELD NOTES

OF THE

REMONUMENTATION

OF THE NORTHWEST CORNER OF WYOMING,

ON THE MONTANA STATE BOUNDARY,

OF THE

MONTANA AND SIXTH PRINCIPAL MERIDIANS,

EXECUTED BY

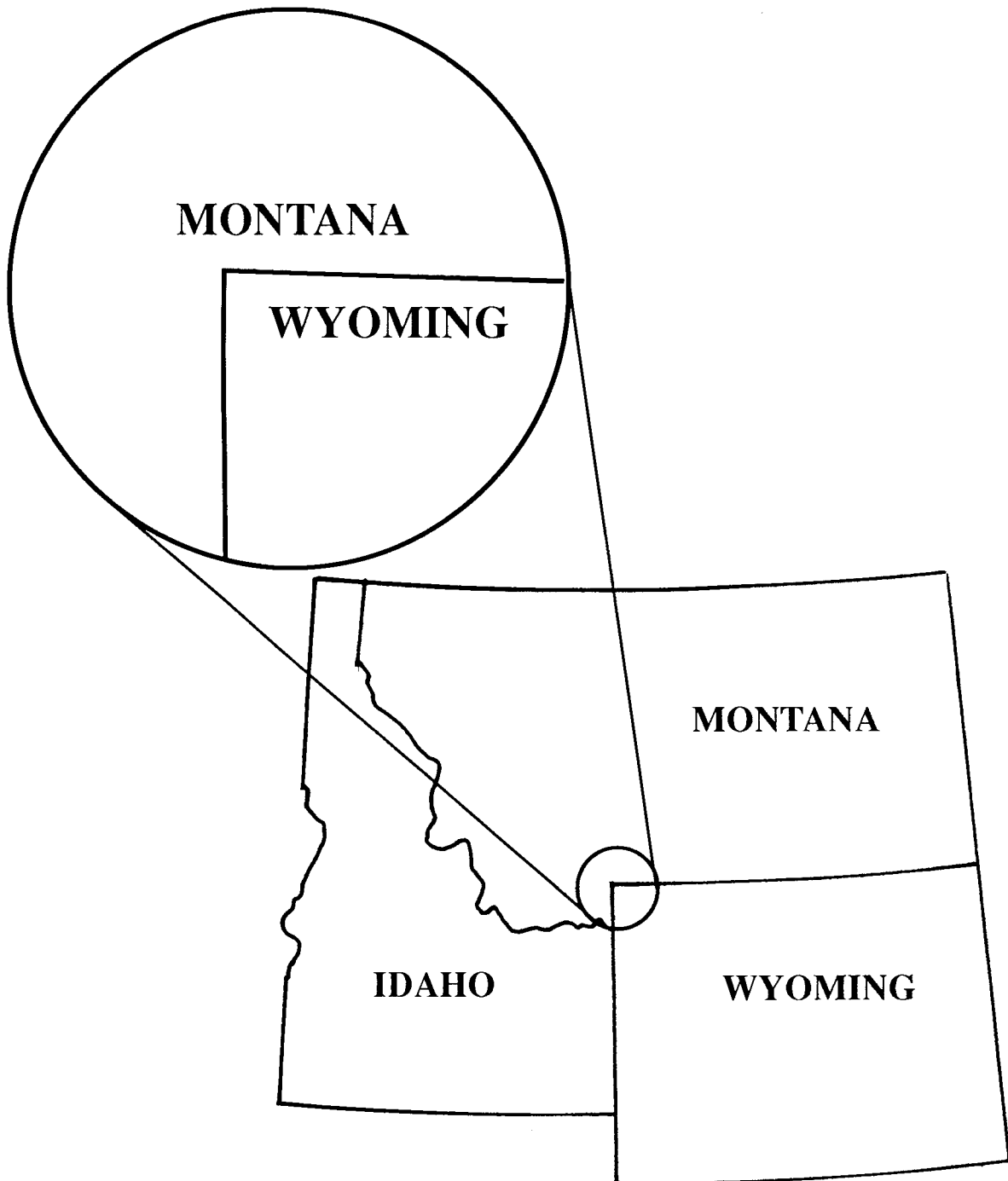
JERRY L. MESSICK  
STEPHEN D. ALBRIGHT  
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SUPERVISORY CADASTRAL SURVEYOR  
CADASTRAL SURVEYOR  
CADASTRAL SURVEYOR VOLUNTEER  
CADASTRAL SURVEYOR VOLUNTEER

Under Special Instructions dated August 8, 1994, approved August 8, 1994, which provided for the surveys included under Group Number 588, and assignment instructions dated August 8, 1994.

Survey commenced AUGUST 19, 1994  
Survey completed AUGUST 19, 1994

# INDEX DIAGRAM



03

Northwest Corner of Wyoming, on the Montana  
State Boundary, Montana and Sixth Principal Meridians

## CHAINS

The following field notes are those of the remonumentation of the Northwest Corner of Wyoming, on the Montana State Boundary, Montana and Sixth Principal Meridians.

The remonumentation was undertaken at the request of the Professional Surveyors of the Sixth Principal Meridian, a consortium of the Professional Land Surveying Associations of Montana and Wyoming, and in cooperation with the U. S. National Park Service. The request follows a successful recovery of the remains of the original monument.

The monument was originally established by A. V. Richards, U. S. Astronomer and Surveyor during the survey of the west boundary of the Wyoming Territory. He terminated the survey at the intersection of the 45th Parallel North Latitude and the 34th Meridian West of Washington D. C., where he established the terminal monument for the Northwest Corner of Wyoming on September 10, 1874. Rollin J. Reeves surveyed the north boundary of the Wyoming Territory in 1879-80.

The remonumentation was executed in accordance with the Manual of Surveying Instructions, 1973, and the Special Instructions for Group No. 588, Wyoming, dated August 8, 1994.

The direction of all connections to corner accessories refer to the true meridian.

The geographic position of the northwest corner of Wyoming on the Montana State Boundary was determined by satellite positioning methods utilizing the Trimble Global Positioning System, Model Pathfinder PROXL, and is:

North American Datum of 1927

Latitude 45° 00' 03.69" N., Longitude 111° 03' 13.60" W.

North American Datum of 1983

Latitude 45° 00' 03.44" N., Longitude 111° 03' 16.40" W.

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Remonumentation of the Northwest Corner of Wyoming  
on the Montana State Boundary,  
Montana and Sixth Principal Meridians

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(Remonumentation of the Corner Position  
Established by A. V. Richards in 1874)

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04

Northwest Corner of Wyoming, on the Montana  
State Boundary, Montana and Sixth Principal Meridians

CHAINS	<p>The northwest corner of Wyoming, on the Montana State Boundary, monumented with the remains of the original mound of stone, 7 ft. base, 3 ft. high, encircling an open hole, 20 ins. diam., 4 ft. deep, where the original wood post was destroyed by fire in 1988, with the original deposited stone, a deteriorated porphyry stone, 12x10x6 ins., at the base. Two of the original pits, the outlines of which are clearly visible, 24 x 10 ins., bears N. and S., 6 ft. dist., from which the original reference stones</p> <p>A porphyry stone, 30x20x10 ins., lying loose on the SE. side of the mound, plainly mkd. WYO 277M 72 CHS 66 LKS on a face.</p> <p>A porphyry stone, 24x16x8 ins., lying loose on the SW. side of the mound, plainly mkd. R on a face.</p> <p>A porphyry stone, 28x24x10 ins., lying loose on the NW. side of the mound, plainly mkd. MONT WL 34° NL 45° 1874 on a face.</p> <p>from which the remains of the original bearing trees</p> <p>A dead, charred and standing pine, 14 ins. diam., bears N. 11° E., 38.5 lks. dist., with healed blaze. (Record: N. 10° 31' E., 38 lks. dist.)</p> <p>A dead, charred and standing pine, 14 ins. diam., bears N. 73½° E., 47 lks. dist., mkd. BT on opened blaze.</p> <p>A dead, charred and standing pine, 11 ins. diam., bears S. 55° E., 24.5 lks. dist., no marks visible. (Record: S. 49° 32' E., 25 lks. dist.)</p> <p>A dead, charred and standing pine, 10 ins. diam., bears S. 14½° E., 14.5 lks. dist., no marks visible. (Record: S. 18° 30' E., 16 lks. dist.)</p> <p>A root crown of a charred pine, 10 ins. diam., bears N. 84° W., 36 lks. dist., no marks visible. (Record: 26 lks. dist.)</p> <p>A root crown of a charred pine, 24 ins. diam., bears N. 8½° W., 69 lks. dist., no marks visible. (Record: N. 8° 21' W., 70 lks. dist.)</p>
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05

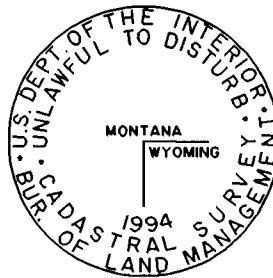
Northwest Corner of Wyoming, on the Montana  
State Boundary, Montana and Sixth Principal Meridians

## CHAINS

A monument not of record consisting of a brass disk, 4½ ins. diam., 1 in. thick, secured to a steel shaft 20 ins. long, 1 in. diam., in a large mound of stone was found erroneously placed approximately one half mile northwesterly, and mkd. WYOMING NW CORNER 1890-1990 7-8-90 KATY LUPTON R. LUPTON ASHLEY ROADIFER I. ROADIFER N. ROADIFER PEGGY ROADIFER 82801 82834. Mr. Ira Roadifer stated that this centennial monument was set to commemorate 100 years of Wyoming statehood.

At the corner point

Set a special purpose brass monument, 4½ ins. diam., with 6 in. diam. flange, and machine grooved stem attached to a steel reinforcement rod, 24 ins. long, 1/2 in. diam., embedded in concrete and stone base to its surface, 30 ins. diam., 6 ins. thick, in a mound of stone, 8 ft. diam., with brass cap mkd.



from which

A stainless steel post, 28 ins. long, 2½ ins. diam., set flush with the surface of the ground, for a reference monument bears N. 46° E., 39.4 lks. dist., with brass cap mkd. RM MONTANA 26 FT 1994 and an arrow pointing to the corner.

A stainless steel post, 28 ins. long, 2½ ins. diam., set 15 ins. in the ground, in a mound of stone, 3½ ft. base to top, for a reference monument bears S. 17° E., 18.2 lks. dist., with brass cap mkd. RM WYOMING 12 FT 1994 and an arrow pointing to the corner.

from which new bearing trees

A pine, 14 ins. diam., bears S. 46° E., 329 lks. dist., mkd. NW COR WYOMING BT.

A pine, 12 ins. diam., bears N. 81° W., 137.5 lks. dist., mkd. MONTANA BT.

06

Northwest Corner of Wyoming, on the Montana  
State Boundary, Montana and Sixth Principal Meridians

CHAINS	<p>Reset each of the original reference stones E., S. and NW. of the corner, at 8 ft. dist.</p> <p>Set a brass plaque 11 x 13 ins. square, 1/2 in. thick, flush with the surface of the concrete on the north side to the brass cap, with raised letters reading as follows:</p> <p style="padding-left: 40px;">This position was originally established by A.V. Richards, U.S. Astronomer and Surveyor, on September 10, 1874, to mark the 45th degree of north latitude, and the 34 degree of west longitude (from Washington, D.C.) at the northwest corner of the Wyoming Territory.</p> <p style="padding-left: 40px;">Remonumented August 19, 1994 by</p> <p style="padding-left: 40px;">Emblems of the Bureau of Land Management, U. S. National Park Service and the Professional Land Surveyors of Montana and Wyoming.</p> <p>As a memorial a replica of the original wood post, set a treated wood post, 8 ft. long, 20 ins. diam., 30 ins. in the ground, in a mound of stone, 6 ft. base, 7.8 ft. N. of the cor. The post is beveled on top, and mkd. 34 WL 45 NL 1874 USNPS RESERVE on N. face, WYOMING PLSW PS 6TH PM on E. face, 277M 72 CHS 66 LKS USBLM on S. face, and MONTANA MARLS on W. face.</p> <p>Deposit the Lupton/Roadifer monument in the concrete base of the monument.</p>
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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Michael O. Brown	Supervisory Land Surveyor (BLM)
James A. Claflin	Supervisory Land Surveyor (BLM)
John P. Lee	Supervisory Land Surveyor (BLM)
Danial T. Mates	Supervisory Land Surveyor (BLM)
Harry K. Smith	Supervisory Land Surveyor (BLM)
Daniel W. Webb	Land Surveyor (BLM)
Mike Londe	Geodesist (BLM)
Phil Drake	Land Surveyor (U.S.F.S.)
Patricia S. Factor	Land Surveyor (U.S.F.S.)
Janet Kempff	Land Surveyor (U.S.F.S.)
Donald W. Patterson	Land Surveyor (U.S.F.S.)
Tim A. Hudson	Civil Engineer (U.S.P.S.)
Tom McKenna	Civil Engineer (U.S.P.S.)
Jade Henderson	Wyoming State Engineers Office
Steve Anderson	Professional Land Surveyor
Mark A. Chandler	Professional Land Surveyor
Gerald P. Dubiel	Professional Land Surveyor
Richard W. Greenwood	Professional Land Surveyor
Chris D. Hamilton	Professional Land Surveyor
Thomas M. Henesh	Professional Land Surveyor
Pete Jorgensen	Professional Land Surveyor
Warren P. Latvala	Professional Land Surveyor
Scott R. Pierson	Professional Land Surveyor
Mike Quinn	Professional Land Surveyor
Marlowe A. Scherbel	Professional Land Surveyor
Scott Scherbel	Professional Land Surveyor

## OTHER ASSISTANTS PRESENT

[illegible]

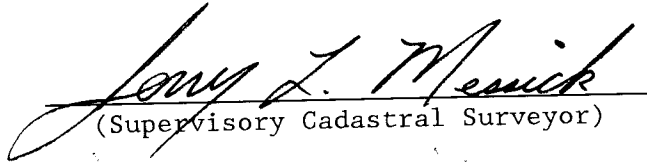


## CERTIFICATE OF SURVEY

I, Jerry L. Messick, Stephen D. Albright, Cadastral Surveyors, and Ronald W. Allen, Paul N. Scherbel, Cadastral Surveyors (Volunteers) HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 19th day of August, 1994, we have remonumented the Northwest Corner of Wyoming, on the Montana State Boundary, Montana and Sixth Principal Meridians, which are represented in the foregoing field notes as having been executed by us and under our 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.

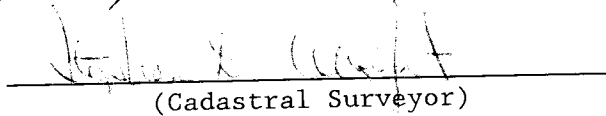
February 9, 1995

(Date)

  
(Supervisory Cadastral Surveyor)

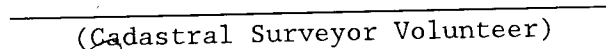
February 9, 1995

(Date)

  
(Cadastral Surveyor)

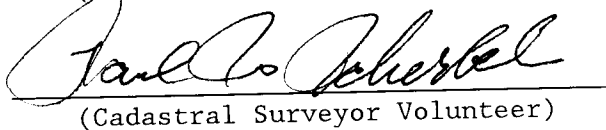
February 9, 1995

(Date)

  
(Cadastral Surveyor Volunteer)

February 9, 1995

(Date)

  
(Cadastral Surveyor Volunteer)

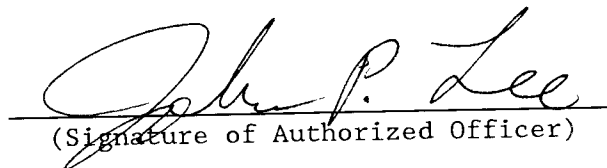
## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Cheyenne, Wyoming

The foregoing field notes of the remonumentation of the Northwest Corner of Wyoming, on the Montana State Boundary, Montana and Sixth Principal Meridians, executed by Jerry L. Messick, Stephen D. Albright, Cadastral Surveyors, and Ronald W. Allen, Paul N. Scherbel, Cadastral Surveyors (Volunteers) having been critically examined and found correct, are hereby approved.

February 9, 1995

(Date)

  
(Signature of Authorized Officer)