

CERTIFICATE OF SURVEY
DEPENDENT RESURVEY AND SECTION SUBDIVISION
SW1/4 & NW1/4, SEC. 9, T.28N., R.30W., P.M., MT.
LINCOLN COUNTY, MONTANA
OCTOBER 2010

GEODETIC POSITION N 1/4 S9
LATITUDE: 48°12'41.32357"N
LONGITUDE: 115°28'20.82636"W

FOREST SUPERVISOR'S CERTIFICATE

This survey was made at my request for National Forest management purposes

Maggie Pittman
Maggie Pittman, Acting Forest Supervisor

1-6-11
Date

PURPOSE OF SURVEY

THE PURPOSE OF THIS SURVEY IS TO RETRACE AND MARK THE BOUNDARIES OF AN EXISTING PARCEL, DISTINGUISHING BETWEEN NATIONAL FOREST SYSTEM LANDS AND PRIVATE LANDS AND NO DIVISION OF LAND IS HEREBY CREATED, EXEMPTING THIS SURVEY FROM SUBDIVISION REVIEW, SEC. 76-3-207, MCA.

LEGAL DESCRIPTION OF PRIVATE OWNERSHIP:

NE1/4, SE1/4, NE1/4SW1/4, SE1/4SW1/4, SW1/4SW1/4, E1/2NW1/4 SECTION 9, T28N, R30W, P. M. MT

LEGAL DESCRIPTION OF NATIONAL FOREST SYSTEM LANDS:

NW1/4SW1/4, W1/2NW1/4, SECTION 9, T28N, R30W P. M. MT

HISTORY OF SURVEY

1893 SURVEY OF THE OF THE 7TH STANDARD PARALLEL NORTH BY DANIEL P. MUMBRUE
1898 REESTABLISHMENT OF THE 7TH STANDARD PARALLEL NORTH BY PAUL S. A. BICKEL
1900 SURVEY OF THE LIBBY CREEK GUIDE MERIDIAN BY BURTON S. ADAMS
1900 SURVEY OF THE SOUTH AND EAST BOUNDARIES OF TOWNSHIPS 27 & 28 NORTH, RANGE 30 WEST BY BURTON S. ADAMS
1900 SUBDIVISION OF FRACTIONAL TOWNSHIP 28 NORTH, RANGE 30 WEST BY BURTON S. ADAMS
1964 BLM REMONUMENTATION OF CERTAIN CORNERS IN TOWNSHIP 28 NORTH, RANGE 30 WEST BY RICHARD L. LARIMER AND HAROLD W. GRUSING

METHOD OF SURVEY

GPS RTK USING TRIMBLE 5800 ROVER AND 5700 BASE, POST PROCESSED AGAINST THE CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) IN MISSOULA AND KALISPELL, MT AND SPOKANE, WA AND A 3 SECOND TOTAL STATION TO TIE CONTROLLING CORNERS USING CLOSED TRAVERSE PROCEDURES. THE DATA WAS ADJUSTED USING STARNET LEAST SQUARES ADJUSTMENT PROGRAM

BASIS OF BEARING

ALL BEARINGS ARE BASED UPON THE GEODETIC MERIDIAN OBTAINED THROUGH GPS OBSERVATIONS FOR PROJECT CONTROL. A LOCAL COORDINATE SYSTEM WAS ESTABLISHED WITH THE ORIGIN AT THE N 1/4 OF SECTION 9. GEODETIC BEARINGS ARE EQUAL TO LOCAL PLANE BEARINGS ON RADIAL LINES EXTENDING FROM THIS ORIGIN.

GEODETIC POSITION: N 1/4 SECTION 9

THE NAD 83 (CORS 96) (EPOCH: 2002.0000) LATITUDE AND LONGITUDE WAS DETERMINED BY POST PROCESSING A SURVEY GRADE (TRIMBLE 5700) GLOBAL POSITIONING SYSTEM (GPS) DATA FILE USING THE NATIONAL GEODETIC SURVEY (NGS) ON-LINE POSITIONING SERVICE (OPUS). THE FILE WAS PROCESSED WITH RESPECT TO CORS STATIONS SPOKANE, FLATHEAD AND MISSOULA. THROUGH REAL TIME KINEMATIC OBSERVATION (RTK), THE POSITION IS ESTIMATED TO BE WITHIN 7CM AT 95% CONFIDENCE RELATIVE TO THE NATIONAL SPATIAL REFERENCE SYSTEM (NSRS)

SURVEYOR'S NOTES

CONTROL SURVEYED BY: T. HOMMEL, S. BOYER

DATE OF FIELD WORK: 10/2010

DRAWN BY: T. HOMMEL 10/13/2010

CHECKED BY: S. BOYER

CORNERS SET AND BOUNDARY MARKED UNDER A CO-OP SURVEY BETWEEN USFS KOOTENAI NF AND PLUM CREEK TIMBER CO.; CONTRACTOR KOOTENAI SURVEYORS INC.

SURVEYOR'S CERTIFICATE:

I hereby certify that I am a registered land surveyor in the state of Montana, that the survey shown on this Certificate of Survey has been prepared in accordance with the Montana Code Annotated (Sections 76-3-101 through 76-3-625) and the Lincoln County regulations adopted pursuant thereto.

Steven A. Boyer
Steven A. Boyer, Montana Reg. No. 9750LS

1/7/11
Date



CERTIFICATE OF EXAMINING SURVEYOR

Ronald A. Pearson
Ronald A. Pearson, Reg. No. 9008LS
Lincoln County Examining Official

Jan 7, 2011
Date

STATE OF MONTANA
County of Lincoln

Filed on the 7th day of January, 2011, A.D., at 2:05 o'clock P.M.

James D. Lauer
County Clerk and Recorder

By: *Jeannie Lauer*
Deputy

Instrument Record No. 230659

CERTIFICATE OF SURVEY NO. 4060

SHEET 1 OF 1

LEGEND

- BLM. SECTION CORNER MONUMENT, 2 1/2" DIAM. IRON POST WITH 3" DIAM. BRASS CAP PER 1964 BLM REMONUMENTATION NOTES-FOUND AND TIED THIS SURVEY
- BLM. 1/4 SECTION CORNER MONUMENT, 2 1/2" DIAM. IRON POST WITH 3" DIAM. BRASS CAP PER 1964 BLM REMONUMENTATION NOTES-FOUND AND TIED THIS SURVEY
- SET A 5/8" X 24" REBAR WITH A 3 1/4" U.S.F.S. ALUMINUM CAP, MARKED 9750LS AND THE APPROPRIATE CORNER IDENTIFICATION MARKINGS
- COMPUTED POINT-CORNER NOT SET
- PROPERTY BOUNDARY MARKED AND POSTED TO U.S. FOREST SERVICE REGION ONE STANDARDS
- SECTION SUBDIVISION LINES
- SECTION LINES
- (R1) 1900 FRACTIONAL SUBDIVISION BY BURTON S. ADAMS
- N.F.S.L. NATIONAL FOREST SYSTEM LANDS

GRAPHIC SCALE



(IN FEET)
1 inch = 400 ft.

SE1/4
PLUM CR.
TIMBERLANDS LP.



VICINITY MAP
NO SCALE