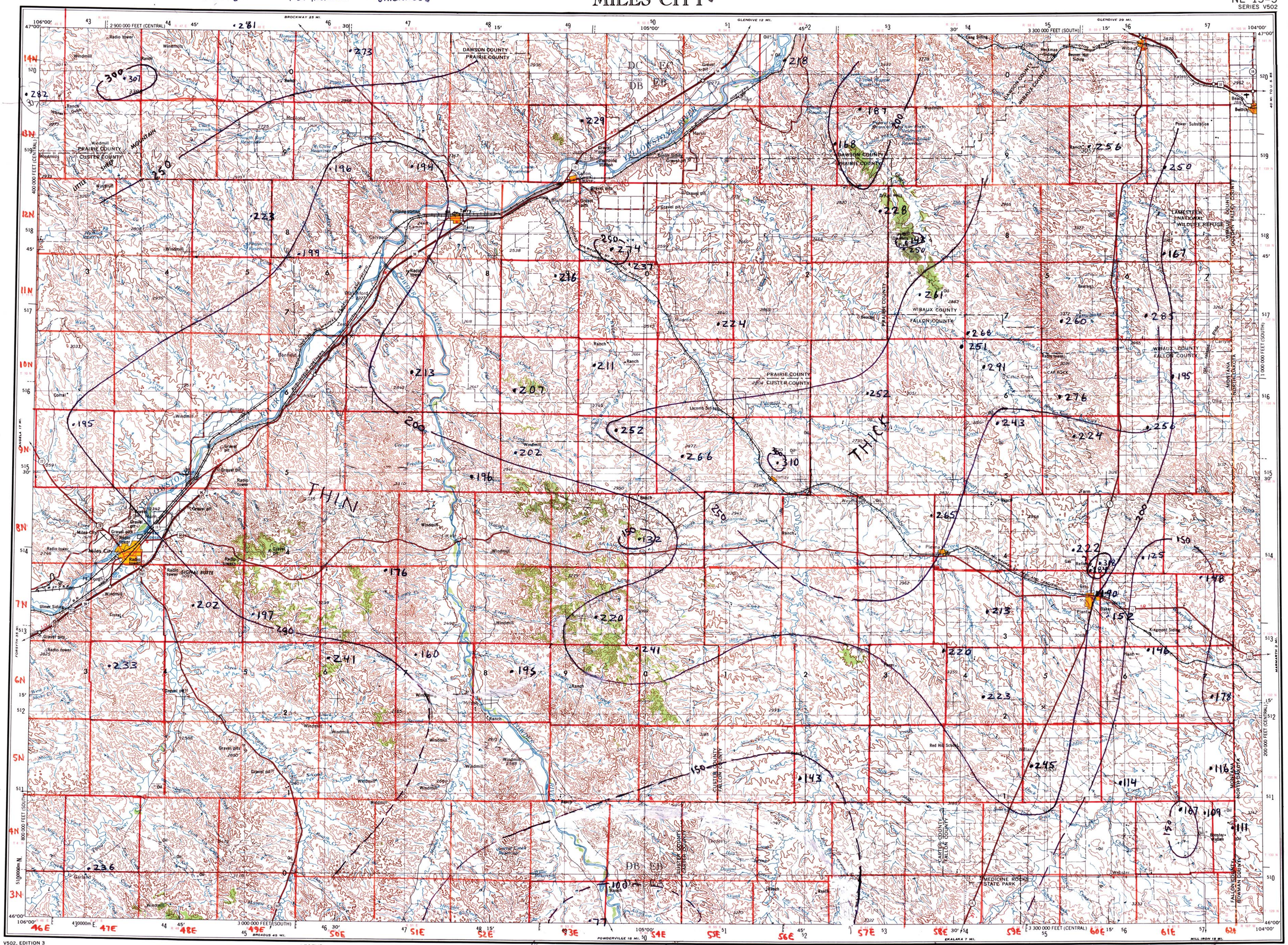
Contoured by R.N. Bergantino, 1982
released 2014

WESTERN UNITED STATES 1:250,000 Kootenai Formation – thickness

MILES CITY

EDITION 3

NL 13-5
SERIES V502



V502, EDITION 3

Prepared by the U. S. Army Topographic Command (ASART), Washington, D. C. Compiled in 1954 by photogrammetric methods from aerial photographs taken 1951. Map field checked 1953. Revised in 1975 by the U. S. Geological Survey from aerial photographs taken 1974.

100,000-foot grids based on Montana coordinate system, south and central zones

Location of geodetic control established by government agencies is shown on corresponding 1:250,000-scale Geodetic Control Diagram

Data points from:
Feltis, R.D., Lewis, B.D., Frasure, R.L., Rioux, R.P. Jauhola, C.A. and Hotchkiss, W.R., 1981, Selected Geologic Data from the Northern Great Plains area of Montana: U.S. Geological Survey Water-Resources Investigations Open-file report 81-415, 63 p.,
Contoured by R.N. Bergantino, 1982

LEGEND

Figures in red denote approximate distances in miles between stars

POPULATED PLACES
Over 500,000 — LOS ANGELES
100,000 to 500,000 — OMAHA
25,000 to 100,000 — GALVESTON
5,000 to 25,000 — Durango
1,000 to 5,000 — Grand Coulee
Less than 1,000 — Sun Valley

RAILROADS
Standard gauge — Single track, Double or Multiple
Narrow gauge

BOUNDARIES
International
State
County
Park or reservation

ROADS
Primary, all-weather, hard surface
Secondary, all-weather, hard surface
Light-duty, all-weather, hard or improved surface
Fair or dry weather, unimproved surface
Trail
Interchange
Route markers: Interstate, U.S., State

Landplane airport
Landing area
Seaplane airport
Seaplane anchorage
Woods-brushwood

Landmark: School; Church; Other
Mine
Spot elevation in feet
Marsh or swamp
Intermittent or dry stream
Power line

Scale 1:250,000

5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometres
5 0 5 10 15 Nautical Miles

CONTOUR INTERVAL 100 FEET
TRANSVERSE MERCATOR PROJECTION

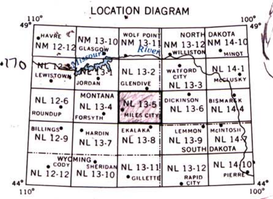
BLACK NUMBERED LINES INDICATE THE 10,000 METRE UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 13

1975 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 15° (270 MILS) EASTERLY FOR THE CENTER OF THE WEST EDGE TO 13½° (240 MILS) EASTERLY FOR THE CENTER OF THE EAST EDGE

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

Thickness of the Kootenai Formation, feet

LOCATION DIAGRAM

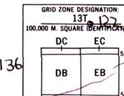


SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

TOWNSHIP OR RANGE LINE
LAND GRANT BOUNDARY

GRID ZONE DESIGNATION: 13T
100,000 M. SQUARE IDENTIFICATION



IGNORE the SMALLER figures of any grid number; these are for finding the full coordinates. Use ONLY the LARGER figure of the grid number.
EXAMPLE: 510 320

TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1000 METRES

SAMPLE POINT: RED HILL SCHOOL

1. Read letters identifying 100,000 metre squares in which the point lies: EB
2. Locate first VERTICAL grid line to LEFT of point and read LARGE figure labeling the line either in the top or bottom margin, or on the line itself: 3
   Estimate tenths from grid line to point: 9
3. Locate first HORIZONTAL grid line BELOW point and read LARGE figure labeling the line either in the left or right margin, or on the line itself: 1
   Estimate tenths from grid line to point: 6

SAMPLE REFERENCE: EB3916

If reporting beyond 18° in any direction, prefix Grid Zone Designation, as: 13TEB3916

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1976

MILES CITY, MONTANA; NORTH DAKOTA
1953
REVISED 1975