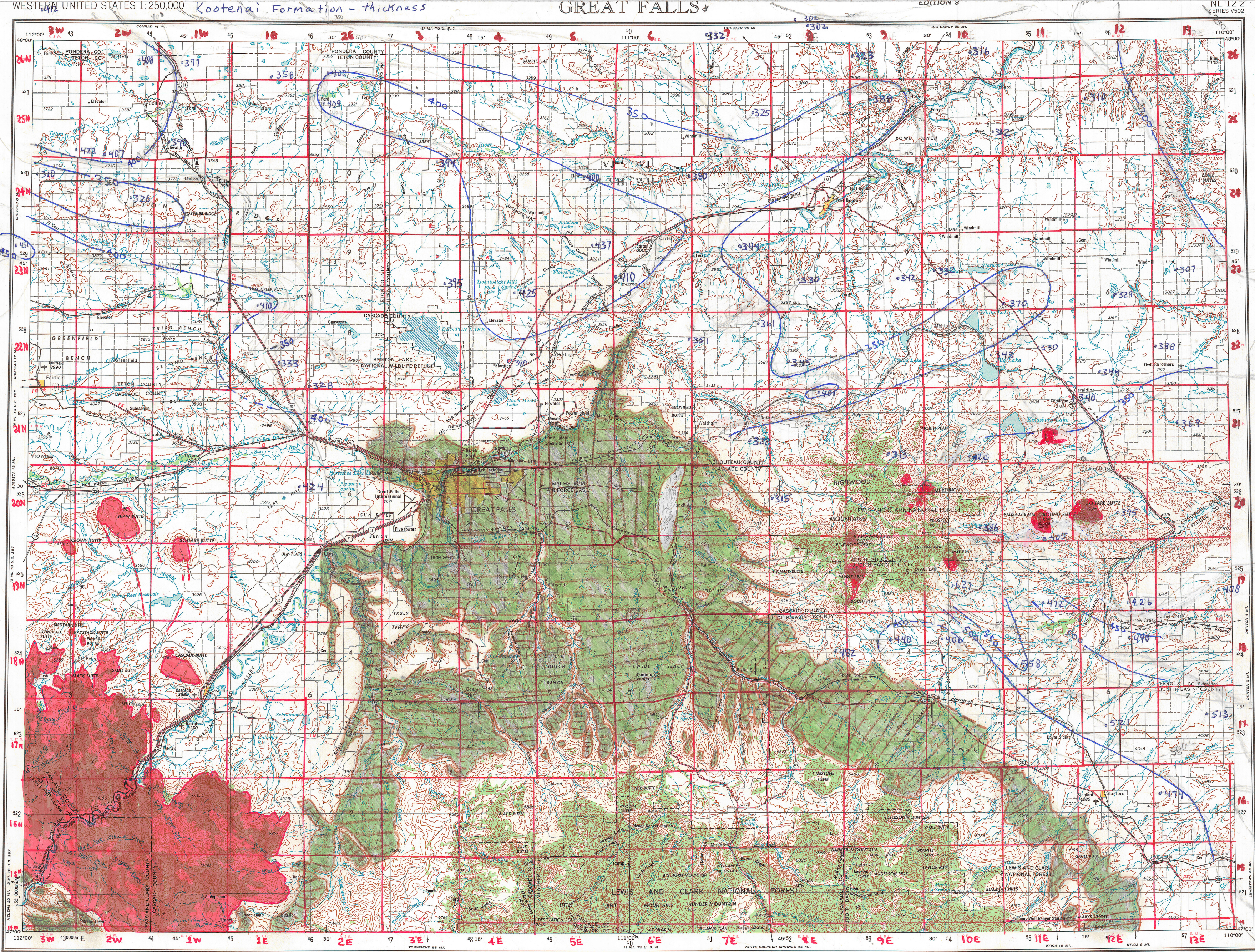




502, EDITION 3

Prepared by the U.S. Army Topographic Command (AJART), Washington, D.C. Compiled in 1955 by photogrammetric methods from aerial photographs taken 1953. Photographs field annotated 1954. Revised in 1972 by the U.S. Geological Survey from aerial photographs taken 1972.

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
100,000 to 500,000
25,000 to 100,000
5,000 to 25,000
1,000 to 5,000
Less than 1,000

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
Gravel or dirt road
Trail

RAILROADS

Single track
Double or multiple track
Standard gauge
Narrow gauge
Interurban
State
County
Park or reservation

Landmark: School; Church; Other

Spot elevation in feet

Marsh or swamp

Intermittent or dry stream

Woods: brushwood

Power line

Scale 1:250,000

0 5 10 15 20 25 30 Kilometers

0 5 10 15 20 25 30 Nautical Miles

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS.
TRANSVERSE MERCATOR PROJECTION

BLACK NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 12

1970 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 8° 04' 00" WEST FOR THE CENTER OF THE WEST EDGE TO 14° 00' 00" WEST FOR THE CENTER OF THE EAST EDGE

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

LOCATION DIAGRAM

BRITISH COLUMBIA ALBERTA SASKATCHEWAN

CANADA

UNITED STATES

ONTARIO QUEBEC MANITOBA SASKATCHEWAN ALBERTA

NEW BRUNSWICK NEWFOUNDLAND

YUKON TERRITORY NORTHWEST TERRITORY

ONTARIO QUEBEC MANITOBA SASKATCHEWAN ALBERTA

NEW BRUNSWICK NEWFOUNDLAND

YUKON TERRITORY NORTHWEST TERRITORY

SECTIONIZED TOWNSHIP

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

GRID ZONE DESIGNATION

12T

TO ONE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1000 METERS

SAMPLE POINT: BOWMAN RANCH

1. Read letters identifying 100,000 meter square in which the point lies.

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.

4. 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.

5. Estimate tenths from grid line to point.

SAMPLE REFERENCE:

If reporting beyond 32" in any direction, prefix Grid Zone Designation as: 12T700000

GREAT FALLS, MONTANA

1954

REVISED 1972

Thickness of the Kootenai Formation, feet