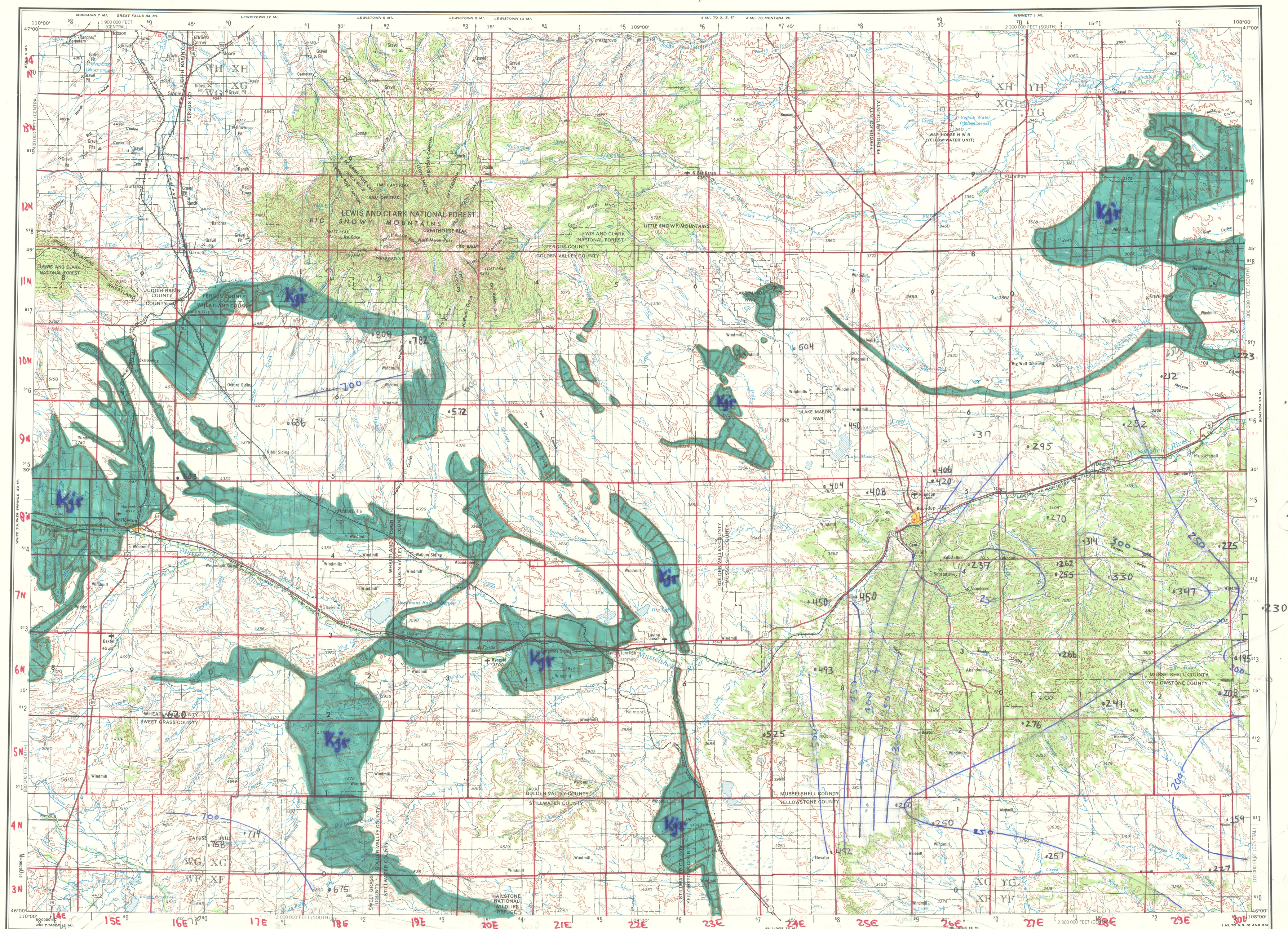




Prepared by the Defense Mapping Agency Topographic Center, Washington, D. C. Compiled in 1955 by photogrammetric methods from aerial photographs taken 1953. Photographs field annotated 1954. Revised in 1977 by the U. S. Geological Survey from aerial photographs taken 1975.

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

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

Data points from:

Feltis, R.D., Lewis, B.D., Frasure, R.L., Riox, 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.,

Countoured by R.N. Bergantino, 1982

LEGEND

Figures in red denote approximate distances in miles between stars

POPULATED PLACES

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

RAILROADS

Standard gauge
Narrow gauge
BOUNDARIES
International
County
Park or reservation

LOS ANGELES
OMAHA
GALVESTON
Durango
Grand Coulee
Sun Valley

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

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



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

1975 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 17° (300 MILS) EASTERLY FOR THE CENTER OF THE WEST EDGE TO 16° (180 MILS) EASTERLY FOR THE CENTER OF THE EAST EDGE

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

LOCATION DIAGRAM

Latitude: 44°N, 45°N, 46°N
Longitude: 114°W, 104°W

Species and Locations:

- CUTBANK: NM12-10
- SPOT-NECKED: NM12-11
- RAVINE: NM12-12
- NM13-10: GLASGOW
- NM13-11: WOLF POINT
- CHOTTEN: NM12-1
- GRASSY FLATS: NM12-2
- NM12-3: JONES
- NM13-2: GLENDALE
- NM12-5: MONTANA
- NORTH: NM13-4
- KAUKA: NM13-5
- BUTTE: NM12-4
- WHITE SULPHUR SPRINGS: NM12-6
- BARON: NM13-7
- ERLAKKA: NM13-8
- NM12-7: NORMAN
- WILLES: NM12-9
- LOW: NM12-8
- NM12-10: DOW
- NM12-11: DOW
- NM12-12: BURTON
- ASTON: NM12-11
- COODY: NM12-12
- WYOMING: NM13-10
- HAZARD: NM13-11
- GLLETTE: NM13-12

400 300

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

● INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1978

GRID ZONE DESIGNATION: 12T 100,000 M. SQUARE IDENTIFICATION: IGNORE THE SMALLER AREAS IF ANY. THESE ARE FOR FINDING THE GRID COORDINATES. USE ONLY THE LARGER FIGURES IF THE GRID SAMPLE REFERENCE: S100000	TO OBTAIN A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1000 METERS SAMPLE POINT: ELEVATOR 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 below the line either in the 10 or bottom margin, or on the right margin. Estimate thirds from grid line to point: 3. Locate first HORIZONTAL grid line and read BELOW point and read LARGE figure below the line either in the 10 or right margin, or on the right margin. Estimate thirds from grid line to point: XG 7 0 3 GRID SAMPLE REFERENCE: 700750 If reporting bearing 18° in any direction, use the following conversion: 1275000
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ROUNDUP, MONTANA
1958
REVISED 1977

Thickness of the Judith River Formation, feet