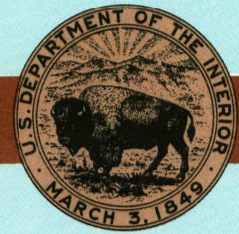




30 X 60 MINUTE QUADRANGLE
SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



GEOLOGICAL SURVEY

1983


Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1952-1963. Partially revised from other source data. Revised information not field checked. Map edited 1983.

Projection and 10 000-meter grid, zone 12 Universal Transverse Mercator. 25 000-foot grid ticks based on Montana coordinate system, south zone. 1927 North American datum. To place on the predicted North American Datum 1983 move the projection lines 12 meters north and 67 meters east. There may be private inholdings within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL 50 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS		
Meters	Feet		1	2	3
1	3.2808		4	5	6
2	6.5617		7	8	9
3	9.8425		10	11	12
4	13.1234		13	14	15
5	16.4042		16	17	18
6	19.6850		19	20	21
7	22.9659		22	23	24
8	26.2467		25	26	27
9	29.5276		28	29	30
10	32.8084	31	32	33	
To convert meters to feet multiply by 3.2808		UTM grid convergence (GCM) and 1983 magnetic declination (MD) at center of map. Diagram is approximate	34	35	36
To convert feet to meters multiply by 0.3048			37	38	39
			40	41	42

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Topographic Map Symbols

Primary highway, hard surface	
Secondary highway, hard surface	
Light duty road, principal street, hard or improved surface	
Other road or street; trail	
Route marker: Interstate, U. S.; State	
Railroad: standard gage; narrow gage	
Bridge, overpass, underpass	
Tunnel: road; railroad	
Built up area; locality; elevation	
Airport; landing field; landing strip	
National boundary	
State boundary	
County boundary	
National or State reservation boundary	
Land grant boundary	
U. S. public lands survey; range, township; section	
Range, township; section line: protected	
Power transmission line; pipeline	
Dam; dam with lock	
Cemetery; building	
Windmill; water well; spring	
Mine shaft; adit or cave; mine, quarry; gravel pit	
Campground; picnic area; U. S. location monument	
Ruin; cliff dwelling	
Dissected surface: strip mine; lava; sand	
Contours: index; intermediate; supplementary	
Bathymetric contours: index; intermediate	
Stream, lake; perennial; intermittent	
Rapids, large and small; falls, large and small	
Area to be salvaged; marsh, swamp	
Land subject to controlled inundation; woodland	
Scrub; mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request.

