

Liberal
KANSAS-OKLAHOMA1:100 000-scale metric
topographic map30 X 60 MINUTE QUADRANGLE
SHOWING

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

GEOLOGICAL SURVEY

1985

Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1963-1983. Planimetry revised from aerial photographs taken 1981 and other source data. Revised information not field checked. Map dated 1985.

Projection and 10 000-meter grid, zone 14,
1927 North American Datum
25 000-foot grid ticks based on Kansas coordinate system, south zone
To place on the predicted North American Datum 1983, move the projection lines 1 meter north and 36 meters east.
There may be private inholdings within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL 10 METERS
SUPPLEMENTARY CONTOUR INTERVAL 5 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS			
Meters	Feet		1	2	3	
1	3.2808	<p>GN MN 0°54' 10 MIN. 9'</p>	1	2	3	
2	6.5617		4	5	6	
3	9.8425		7	8	9	
4	13.1234					
5	16.4042					
6	19.6850					
7	22.9659					
8	26.2467					
9	29.5276					
10	32.8084					
To convert meters to feet multiply by 3.2808		UTM grid convergence (GN and MN magnetic declination 10 min) at center of map Diagram is approximate	1	2	3	
To convert feet to meters multiply by 0.3048			4	5	6	
			7	8	9	

- 1 Ulysses
- 2 Dodge City
- 3 Kinley
- 4 Jackson
- 5 Protection
- 6 Guymon
- 7 Beaver
- 8 Buffalo
- 9 Bluff

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

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 gauge; narrow gauge.....	
Bridge, overpass, underpass.....	
Tunnel: road, railroad.....	
Built up area; locality; elevation.....	
Airport; landing field; landing strip.....	
National boundary.....	
County boundary.....	
National or State reservation boundary.....	
Land grant boundary.....	
U.S. public lands survey; range, township, section.....	
Range, township, section line; tract.....	
Power transmission line; pipeline.....	
Dam; dam with lock.....	
Cemetery; building.....	
Winds; water well; spring.....	
Mine shaft; site or cave; mine, quarry; gravel pit.....	
Campground; picnic area; U.S. location monument.....	
Ruins; cliff dwelling.....	
Distorted surface: strip mine; lava, sand.....	
Contours: index; intermediate; supplementary.....	
Barometric contours: index; intermediate.....	
Stream, lake, pond; intermittent.....	
Rapids; large and small; falls, large and small.....	
Area to be submerged; marsh, swamp.....	
Land subject to controlled inundation; woodland.....	
Scrub; mangrove.....	
Orchard; vineyard.....	

A pamphlet describing topographic maps is available on request