



Prepared by the U. S. Geological Survey for publication by the Defense Mapping Agency, Hydrographic/Topographic Center, Washington, D. C.

**LEGEND**

**MAP INFORMATION AS OF 1978**  
ON THIS MAP, A LANE IS GENERALLY CONSIDERED AS BEING A MINIMUM OF 2.5 METERS (8 FEET) IN WIDTH. IN DEVELOPED AREAS, ONLY THROUGH ROADS ARE CLASSIFIED.

<ul style="list-style-type: none"> <li>Divided highway with median strip</li> <li>Primary, all weather, hard surface</li> <li>Secondary, all weather, hard surface</li> <li>Light duty, all weather, hard or improved surface</li> <li>Fair or dry weather, unimproved surface</li> <li>Trail</li> <li>Route markers: Interstate, Federal, State</li> <li>Bridge: With superstructure, Without superstructure</li> <li>RAILROADS (Standard gauge 1.44m - 4'8 1/2")</li> <li>Single track</li> <li>Multiple track</li> <li>Nonoperating</li> <li>Railroad station: Location known, Location unknown</li> <li>Car line</li> <li>Railroad bridge: With superstructure, Without superstructure</li> <li>Tunnel: Highway, Railroad</li> </ul>	<ul style="list-style-type: none"> <li>Buildings</li> <li>Structures</li> <li>Church, School</li> <li>Power substation</li> <li>Windmill, Watermill</li> <li>Well, Tank</li> <li>Mine shaft</li> <li>Open pit mine or quarry</li> <li>Horizontal control station</li> <li>Bench mark, monument</li> <li>Bench mark, non-monumented</li> <li>Spot elevations in meters</li> <li>Leaves, rim, dikes</li> <li>Bluffs, cliffs</li> <li>Woodland</li> <li>Scattered trees; Scrub</li> <li>Vineyard; Orchard; plantation</li> <li>Intermittent lake; Dam; Earthen, Masonry</li> <li>Stream; Perennial; Intermittent</li> <li>Marsh, swamp</li> <li>Small rapids; Small falls</li> <li>Large rapids; Large falls</li> </ul>
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**BOUNDARIES**

- National, with monument
- State, territory
- County, parish
- Civil township, town
- Incorporated city, village, town
- Reservation: National, State, Military

Scale 1:50,000

Meters 1000 500 0 500 1000 Kilometers

3 Statute Miles 3 Nautical Miles

**CONTOUR INTERVAL 20 METERS**  
**ELEVATIONS IN METERS**

**SHERIDAN** CLARKE 1866  
**GRID** 1 000 METERS UTM ZONE 18A (600 000 METERS)  
10 000 FOOT NEW MEXICO STATE PLANE COORDINATE SYSTEM,  
CENTRAL ZONE (600 000 METERS)

**PROJECTION:** NATIONAL GEODETIC DATUM OF 1929  
**HORIZONTAL DATUM:** NORTH AMERICAN DATUM OF 1927  
**CONTROL BY:** USGS MONITORING  
**PREPARED BY:** U. S. GEOLOGICAL SURVEY

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**100 METER REFERENCE**

1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenths (100 meters) from grid line to point. 12.3

2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point. 45.6

Example: 12345.6

**100 000 METER SQUARE IDENTIFICATION**

WHEN REPORTING OUTSIDE THE 100 000 METER SQUARE AREA IN WHICH THE POINT LIES, PREFIX THE 100 000 METER SQUARE IDENTIFICATION. Example: D0123456

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION. Example: 18D0123456

**GRID CONVERGENCE** (0709 10 MILS) FOR CENTER OF SHEET

**GRID NORTH** vs **MAGNETIC NORTH**

1880 G.M. ANGLE 11 1/2' (200 MILS)

TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH  
SUBTRACT G.M. ANGLE

TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH  
ADD G.M. ANGLE

**ELEVATION GUIDE**

**ADJOINING SHEETS**

4750 II	4830 III	4850 I
4749 I	4849 IV	4849 I
4749 II	4849 II	4849 II

**BOUNDARIES**

OTERO COUNTY

**THIS MAP IS RED-LIGHT READABLE**

There may be printing irregularities within the boundaries of the National or State Reservations shown on this map.