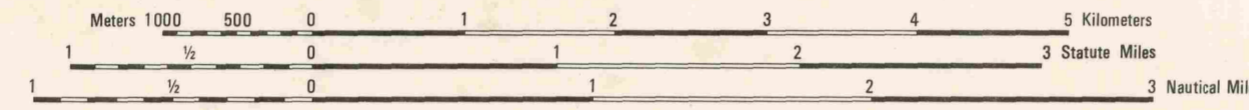


Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Photographic/Topographic Center, Washington, D.C.  
 MAP INFORMATION AS OF 1986

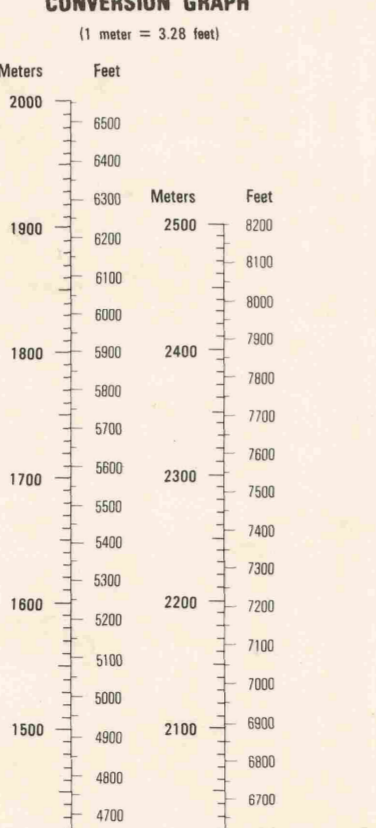
SCALE 1:50,000



**LEGEND**

CAUTION: ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE NOT SHOWN. A LINE ON THE MAP IS CONSIDERED TO BE 2.5 METERS WIDE. IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED. THERE MAY BE PRIVATE HOLOGRAMS WITHIN THE BOUNDARIES OF THE NATIONAL OR STATE RESERVATIONS SHOWN ON THIS MAP.

<p><b>ROADS</b></p> <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</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</li> <li>Tunnel: Highway, Railroad</li> </ul>	<p><b>Power transmission line</b></p> <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 air mine or quarry</li> <li>Horizontal central station</li> <li>Bench mark, monumented</li> <li>Bench mark, non-monumented</li> <li>Spot elevations in meters</li> <li>Leaves, rims, 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 falls; Large falls</li> <li>Small rapids; Large rapids</li> </ul>
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**ELEVATIONS IN METERS**

CONTOUR INTERVAL 10 METERS  
 SUPPLEMENTARY CONTOURS 5 METERS

ELLIPTICOID: CLARKE 1866  
 GRID: 1000-METER UTM ZONE 13 (BLACK NUMBERED LINES)  
 10,000-FOOT STATE GRID TICS, NEW MEXICO CENTRAL ZONE  
 PROJECTION: TRANSVERSE MERCATOR  
 VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929  
 HORIZONTAL DATUM: 1927 NORTH AMERICAN DATUM  
 CONTROL BY: U.S. GEOLOGICAL SURVEY  
 PREPARED BY: U.S. GEOLOGICAL SURVEY  
 PUBLISHED BY: DMAHTC 6-90

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

**SAMPLE 1000 METER GRID SQUARE**

100,000 M. SQUARE IDENTIFICATION

GRID ZONE DESIGNATION: 13S

**100 METER REFERENCE**

1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenth (100 meters) from grid line to point. 12 3

2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenth (100 meters) from grid line to point. 45 0

Example: 123456

WHEN REPORTING ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES. Example: C123456

WHEN REPORTING ACROSS THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION. Example: 13SC123456

**BOUNDARIES**

**ADJOINING SHEETS**

4654 IV	4654 I	4754 IV
4654 III	4654 II	4754 III
4653 IV	4653 I	4753 IV

**ELEVATION GUIDE**

PERCENTAGE: 100%  
 DEGREE: 0.9°

**SLOPE GUIDE**

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

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

1985 G-M ANGLE 12°00' (200 METERS)

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

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

THIS MAP IS RED LIGHT READABLE  
 USGS 35106-A5-TM-050  
 DMA STOCK NO. V781X46542