



Prepared by the U.S. Geological Survey for Publication by the National Imagery and Mapping Agency

**MAP INFORMATION AS OF 1996**

**LEGEND**

**POPULATED PLACES**  
 Densely built-up areas  
 Sparingly to moderately built-up areas

**ROADS**  
 Divided highway  
 All weather, hard surface  
 Two or more lanes wide  
 One lane wide  
 All weather, loose or light surface  
 Two or more lanes wide  
 One lane wide

**RAILROADS**  
 Normal gauge 1.41m  
 Narrow gauge 0.81m  
 Electric

**MISCELLANEOUS CULTURAL FEATURES**  
 Church  
 Building: School, Hospital  
 Located object: Tank, Well  
 Mine: Active, Abandoned  
 Area name: Las Palmas

**OBSTRUCTIONS**  
 Elevation of obstruction top above sea level  
 Elevation of obstruction top above ground level  
 High tension power line, communication tower

**BOUNDARIES**  
 International  
 First-order administrative division

**RELIEF**  
 Bluff, cliff, escarpment  
 Depression  
 Levee: Sand  
 Spot elevation: Highest, Normal  
 2077  
 1455  
 Potential, intermittent

**DRAINAGE**  
 Streams: Less than 25m wide, Over 25m wide  
 Lakeland  
 Spring  
 Well  
 Ditches: Less than 25m wide, Over 25m wide  
 Tank  
 Disappearing stream  
 Land subject to inundation  
 Vegetation: Woodland, Scrub, Scattered trees, Orchard, Vineyard

**NOTES**  
 A LANE ON THIS MAP IS CONSIDERED TO BE AT LEAST 2.5 METERS (8 FEET) WIDE.  
 ROAD CLASSIFICATION SHOULD BE REFERRED TO WITH CAUTION.  
 IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.  
 CAUTION: NOT ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE SHOWN.  
 NORTH AMERICAN DATUM 1983 (NAD 83) AND WORLD GEODETIC SYSTEM 1984 (WGS 84) ARE EQUIVALENT FOR MAPPING, CHARTING AND NAVIGATION AT THIS SCALE.

Scale 1:50,000

Meters 1000 500 0 1 2 3 4 5 Kilometers

0 1 2 3 4 5 6 Statute Miles

0 1 2 3 4 5 Nautical Miles

**ELEVATIONS IN METERS**

CONTOUR INTERVAL 20 METERS

ELLIPSOID: WORLD GEODETIC SYSTEM 1984  
 1,000-METER UTM ZONE 12 (BLACK NUMBERED LINES)  
 1,000-METER UTM ZONE 13 (BLUE NUMBERED TICKS)  
 5,000-METER STATE GRID TICKS, NEW MEXICO WEST ZONES

PROJECTION: TRANSVERSE MERCATOR  
 VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929  
 HORIZONTAL DATUM: WORLD GEODETIC SYSTEM 1984  
 PREPARED BY: U.S. GEOLOGICAL SURVEY  
 PRINTED BY: NIMA 12-99



**BOUNDARIES**

UNITED STATES  
 NEW MEXICO  
 Hidalgo County

MEXICO  
 Chihuahua

**ADJOINING SHEETS**

4346 III	4347 III	3377 II
4346 IV	4348 IV	3378 I
3378 II	3379 II	3378 II
3378 I	3379 I	3378 I

Sheet 4346 IV falls within NIMA 12-3 1996-1999

**ELEVATION GUIDE**

Highest  
 High  
 Medium  
 Low

**SLOPE GUIDE**

PERCENTAGE DEGREE

PERCENTAGE	DEGREE
10%	5.7°
20%	11.3°
30%	16.7°
40%	21.8°
50%	26.6°
60%	31.0°
70%	35.0°
80%	38.7°
90%	42.0°
100%	45.0°

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**ELEVATION GUIDE**

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 High  
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 Low

**SAMPLE 1,000 METER GRID SQUARE**

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: 123456

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

Example: VV123456

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION.

Example: 12R123456

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK: 1-800-455-0899. COMMERCIAL: 1-314-260-5832. DSN: 498-5022. OR WRITE TO: ATTN: COD, MAIL STOP P-37, NATIONAL IMAGERY AND MAPPING AGENCY, 4606 SANGAMORE ROAD, RETREAT, MD 20615-0035.

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**GRID ZONE DESIGNATION**

12R

100,000 M. SQUARE IDENTIFICATION

VV

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

Example: VV123456

**WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION.**

Example: 12R123456

**THIS MAP IS RED AND BLUE/GREEN LIGHT READABLE**

GRID CONVERGENCE 172.0 (MILES) FOR CENTER OF SHEET

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

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

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