TEXAS 1:50,000

WILLAMAR

EDITION 1–NIMA SERIES V782 SHEET 6436 I

One second of longitude equals 27.69m

97°45′ 25 26 27 28 29 30 31 32 40′33 34 35 36 37 38 39 40 41 35′ 42 43 44 45 46 47 48 49 PORT MANSFIELD 11 km 97°30′

395 000 METERS

26°30′ 31 30 29 28 27 26 25 24 23 25′ 22 21 20 19 18 17 16 15 14 20′ 13 12 11 10 09 08 07 06 05 26°15′

5 090 000 METERS

5 070 000 METERS

RAYMONDVILLE 3.2 km

LYFORD 5.0 km

SEBASTIAN 8.5 km

ARROYO CITY 6.0 km

RIO HONDO 3.5 km

HARLIGEN 5.0 km

6.0 km TO TEXAS 83

One second of latitude equals 30.78m

One second of longitude equals 27.75m

San Perlita · Tower 103 (97) · El Toro Cem · Windmill · Radio tower 132(127) · El Sauz Ranch · Cem · Oil · Precita Well · Retamita Tank · Sacatosa Tank · Cabellos Well · Salao Tank · Gus Well · Esterita Well · San Francisco Well · Lampasos Tank · Footbridge · Silo · Perlita · Raymond 2 · Hard surface · Substation · Windmill 6 · Radio tower · Willamar · Silos · Tower 143 (135) · Windmill · Cem · Porfirio · Mujatos Well · Yucas Well · Porfirio Well · WILLAMAR OIL FIELD · Underground pipeline · Numerous wells · Pumping sta · Penalto Well · Long Hill Tank · Nopal Well · Nopal · Indio Well · Cebalo Well · La Jarita Cem · La Jarita Ranch · Willamar Camp · Cemetery · Los Coyotes Gin · Silos · Silo · El Sabinito Ranch · Sabino Cem · Tres Norias Ranch · Santa Monica · Monica 9 · Santa Rosa Lake · Bracero Camp (site) · Noyola Cem · Aldale Ranch · Tanquesitos Cemetery · Ballenger · Beacon · San Antonio Cem · Paso Real · Light · Dredge tailings · Windmills · Windmill · Soft surface 12 · El Grazal Ranch · Hardin Ranch · Pumping station · Substation · Rifle range · Camp Perry · Monte Grande · Cem · Combes · Soft surface 8 · McCloud Hood Reservoir

PILOT CHANNEL · NORTH FLOODWAY · COLORADO ARROYO · SAN VICENTE DRAINAGE DITCH · Road on levee · Pipeline

WILLACY CO · CAMERON CO

RED FISH BAY · ROAD · PARKER ROAD · UNION PACIFIC

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

MAP INFORMATION AS OF 1995

LEGEND

POPULATED PLACES
- Densely built-up areas
- Sparsely 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
- Fair or dry weather, loose surface
- Track
- Trail
- Route markers: Interstate; National; Secondary

RAILROADS (Single Track / Double Track)
- Normal gauge 1.44m (4′8½″)
- Narrow gauge 0.91m (3′)
- Electrified

BRIDGES
- Pedestrian
- Standard
- Culvert

MISCELLANEOUS CULTURAL FEATURES
- Church
- Cemetery
- Building; School; Hospital
- Located object; Tank; Well
- Mine: Active; Abandoned
- Area name (Porfirio)

OBSTRUCTIONS (Single / Group)
- Elevation of obstruction top above sea level (200)
- Elevation of obstruction top above ground level (100)
- High tension power line; communication tower

BOUNDARIES
- International
- First-order administrative division

RELIEF
- Bluff, cliff, escarpment
- Depression
- Levee; Sand; Levee
- Spot elevations: Highest; Normal (•14 •7)

DRAINAGE (Perennial / Intermittent)
- Streams: Less than 25m wide; Over 25m wide
- Lake/pond
- Spring
- Well
- Ditches: Less than 25m wide; Over 25m wide
- Tank
- Dissipating stream
- Land subject to inundation

VEGETATION
- Woodland
- Scrub; Scattered trees
- Orchard; Swamp

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

SLOPES ON THIS MAP ARE LESS THAN 5%

Scale 1:50,000

Meters 1000 500 0 1 2 3 4 5 Kilometers

1 ½ 0 1 2 3 Statute Miles

1 ½ 0 1 2 3 Nautical Miles

ELEVATIONS IN METERS

CONTOUR INTERVAL 5 METERS

ELLIPSOID ..... WORLD GEODETIC SYSTEM 1984
GRID ..... 1,000-METER UTM ZONE 14 (BLACK NUMBERED LINES); 5,000-METER STATE GRID TICKS, TEXAS (SOUTH ZONE)
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 ..... USGS 2-99

SAMPLE 1,000 METER GRID SQUARE

100,000 M. SQUARE IDENTIFICATION

PQ

GRID ZONE DESIGNATION

14R

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: PQ123456

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

Example: 14RPQ123456

CONVERSION GRAPH

(1 meter = 3.28 feet)

Meters	Feet
100	300
	200
	100
0	0

GRID NORTH · MAGNETIC NORTH · TRUE NORTH

1995 G-M ANGLE 5½° (100 MILS)

GRID CONVERGENCE 0°37 (11 MILS) 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

THIS MAP IS RED AND BLUE/GREEN LIGHT READABLE

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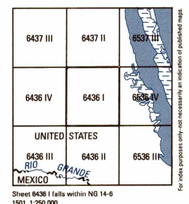

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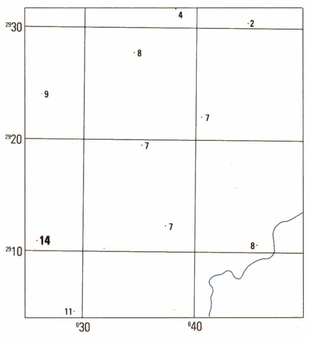
1501, 1:250,000

ELEVATION GUIDE



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