



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

STATE OF TEXAS  
TEXAS WATER COMMISSION

GRANGER LAKE QUADRANGLE  
TEXAS  
7.5 MINUTE SERIES (TOPOGRAPHIC)

Maped, edited, and published by the Geological Survey  
Control by USGS and USC&GS  
Topography by photogrammetric methods from aerial  
photographs taken 1960. Field checked 1963  
Polyconic projection. 1927 North American Datum  
10,000-foot grid ticks based on Texas coordinate system, central zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 14, shown in blue  
To place on the predicted North American Datum 1983  
move the projection lines 17 meters south and  
27 meters east as shown by dashed corner ticks  
Fine red dashed lines indicate selected fence lines  
Areas covered by dashed light-blue pattern are subject  
to controlled inundation

UTM GRID AND 1988 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET

Revisions shown in purple and woodland compiled  
from aerial photographs taken 1981 and other sources  
This information not field checked. Map edited 1988

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Scale: 1:24,000  
1 inch = 2000 feet  
1 centimeter = 100 meters

Contour Interval: 10 feet  
Dotted lines represent 5-foot contours  
National Geodetic Vertical Datum of 1929

ROAD CLASSIFICATION  
Medium-duty — Light-duty  
Unimproved dirt  
State Route

TEXAS  
QUADRANGLE LOCATION

USGS NMD HISTORICAL MAP  
SEP 05 1989  
REC'D FILE COPY

GRANGER LAKE, TEX.  
(FORMERLY FRIENDSHIP)  
30097-F3-TF-024  
1963  
PHOTOREVISED 1988  
DMA 6545 III NE - SERIES V882