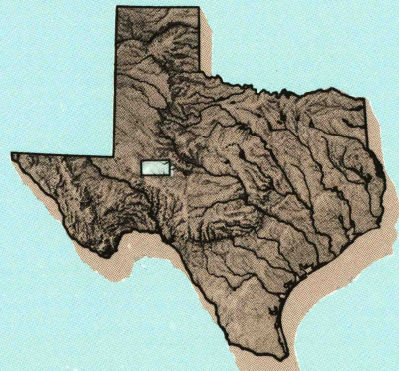
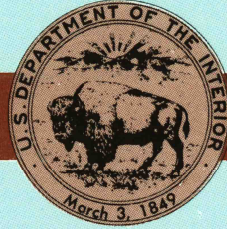


**1:100 000-scale *metric*  
topographic map**



**30 X 60 MINUTE QUADRANGLE  
SHOWING**

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



GEOLOGICAL SURVEY

1986

Produced by the United States Geological Survey  
Compiled from USGS 1:24 000-scale topographic maps  
dated 1963-1973. Planimetry revised from aerial  
photographs taken 1980 and other source data. Revised  
information not field checked. Map edited 1986  
1927 North American Datum (NAD 27). Projection and  
10 000-meter grid: Universal Transverse Mercator, zone 14  
25 000-foot ticks: Texas coordinate system, central zone  
The difference between NAD 27 and North American Datum of  
1983 (NAD 83) is too small to show at this scale. The values  
of the shift between the datums for 7.5-minute intersections  
are given in USGS Bulletin 1875

CONTOUR INTERVAL 10 METERS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

### CONVERSION TABLE

| Meters | Feet    |
|--------|---------|
| 1      | 3.2808  |
| 2      | 6.5617  |
| 3      | 9.8425  |
| 4      | 13.1234 |
| 5      | 16.4042 |
| 6      | 19.6850 |
| 7      | 22.9659 |
| 8      | 26.2467 |
| 9      | 29.5276 |
| 10     | 32.8084 |

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

### DECLINATION DIAGRAM

GN  
MN

11°19' 8°15'

23 MILS 151 MILS

UTM grid convergence (GN) and 1981 magnetic declination (MN) at center of map  
Diagram is approximate

### ADJOINING MAPS

|   |              |     |
|---|--------------|-----|
| 1 | Andrew       |     |
| 2 | Dig Spouting |     |
| 3 | Sweetwater   |     |
| 4 | Caladon      |     |
| 5 | Robert Lee   |     |
| 6 | 7            | 8   |
|   | 9            | 10  |
|   | 11           | 12  |
|   | 13           | 14  |
|   | 15           | 16  |
|   | 17           | 18  |
|   | 19           | 20  |
|   | 21           | 22  |
|   | 23           | 24  |
|   | 25           | 26  |
|   | 27           | 28  |
|   | 29           | 30  |
|   | 31           | 32  |
|   | 33           | 34  |
|   | 35           | 36  |
|   | 37           | 38  |
|   | 39           | 40  |
|   | 41           | 42  |
|   | 43           | 44  |
|   | 45           | 46  |
|   | 47           | 48  |
|   | 49           | 50  |
|   | 51           | 52  |
|   | 53           | 54  |
|   | 55           | 56  |
|   | 57           | 58  |
|   | 59           | 60  |
|   | 61           | 62  |
|   | 63           | 64  |
|   | 65           | 66  |
|   | 67           | 68  |
|   | 69           | 70  |
|   | 71           | 72  |
|   | 73           | 74  |
|   | 75           | 76  |
|   | 77           | 78  |
|   | 79           | 80  |
|   | 81           | 82  |
|   | 83           | 84  |
|   | 85           | 86  |
|   | 87           | 88  |
|   | 89           | 90  |
|   | 91           | 92  |
|   | 93           | 94  |
|   | 95           | 96  |
|   | 97           | 98  |
|   | 99           | 100 |

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



## Topographic Map Symbols

- |                                                                              |  |
|------------------------------------------------------------------------------|--|
| Primary highway, hard surface                                                |  |
| Secondary highway, hard surface                                              |  |
| Light gray road, principal street, hard or improved surface                  |  |
| Other road or street; soil                                                   |  |
| Route marker: Interstate: U. S.; State: Railroad: standard gage; narrow gage |  |
| Bridge; overpass; underpass                                                  |  |
| Arched road; railroad                                                        |  |
| Built up area; locality; elevation                                           |  |
| Airport; landing field; landing strip                                        |  |
| National boundary                                                            |  |
| State boundary                                                               |  |
| County boundary                                                              |  |
| National or State reservation boundary                                       |  |
| Land grant boundary                                                          |  |
| U. S. public lands survey: range, township; section                          |  |
| Waterway; section line; protected                                            |  |
| Power transmission line; pipeline                                            |  |
| Dam; dam with lock                                                           |  |
| Canal; building                                                              |  |
| Windmill; water well; spring                                                 |  |
| Mine shaft; old or new; mine; quarry; gravel pit                             |  |
| Cemetary; picnic area; U. S. location monument                               |  |
| Ruins; diff dwelling                                                         |  |
| Disturbed surface: strip mine, levee, sand                                   |  |
| Stream; lake; intermittent; supplementary                                    |  |
| Hydrographic contours; index; intermediate                                   |  |
| Coastline; ice; perennial; intermittent                                      |  |
| Rapids, large and small; falls, large and small                              |  |
| Area to be submerged; marsh, swamp                                           |  |
| Area subject to controlled inundation; woodland                              |  |
| Small; swamp                                                                 |  |
| Orchard; vineyard                                                            |  |

A pamphlet describing topographic maps is available on request.