

EXPLANATION

CORRELATION AND DESCRIPTION OF MAP UNITS

CENOZOIC	Quaternary to Paleocene	QTal	Alluvium, bolson deposits, and other surficial deposits including caliche, gypsite, conglomerates, fluvial deposits, terrace deposits, windblown sand, and playa deposits.
	Tertiary	Ts	Fluvial sand, silt, clay, and gravel capped by caliche
		Ti	Extrusive and intrusive igneous rocks
MESOZOIC	Cretaceous	Ks	Sedimentary rocks, undifferentiated
	Upper and Lower Cretaceous		
	Triassic	Ru Rs	Ru, Triassic rocks, undifferentiated, mostly shale and siltstone with some sandstone, limestone, and gravel. Rs, Santa Rosa Sandstone of the Dockum Group, a cross-bedded conglomeratic sandstone with interbeds of shale and claystone
PALEOZOIC	Permian	Pu	Permian rocks, undifferentiated
	Ochoan	Pr	Rustler Formation, interbedded anhydrite, gypsum, siltstone, and mudstone with two continuous thin dolomite marker beds and halite.
	Guadalupian	Pcr	Capitan reef complex, limestone, dolomite and minor amounts of sandstone and siltstone, includes the Fanshille, Yates, and Seven Rivers Formations, Capitan Limestone, Queen and Grayburg Formations, and the Goat Seep Limestone
PRECAMBRIAN	Silurian through Cambrian	SE	Silurian through Cambrian rocks, undifferentiated
	Precambrian	pE	Feldspathic sandstones and arkose, metasedimentary and metigneous rocks

GEOLOGIC CONTACTS

CONTACT BETWEEN GEOLOGIC UNITS--Dashed when inferred.

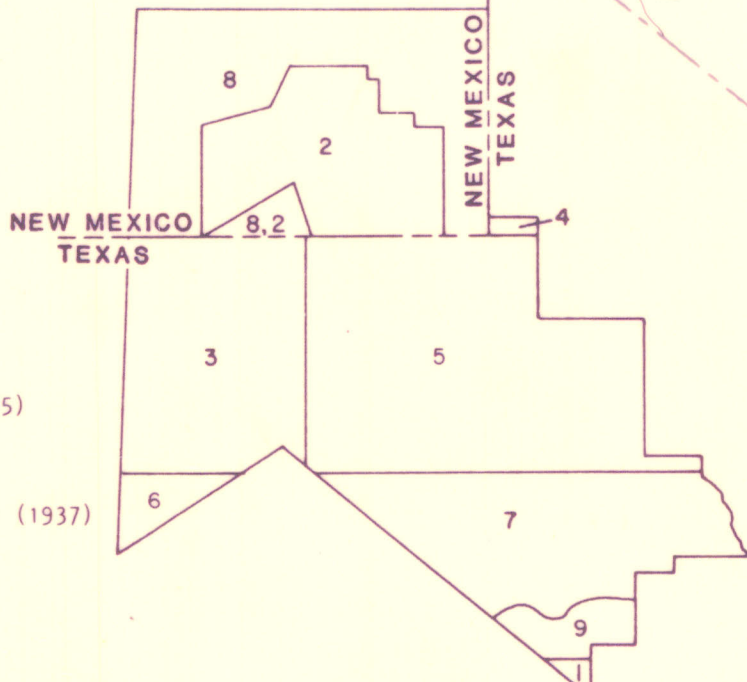
MAJOR FAULTS

FAULT--U, upthrown side; D, downthrown side; dotted where concealed, dashed where inferred.

THRUST FAULT--Sawteeth on upper plate

INDEX TO GEOLOGIC MAPPING

- Geology modified from
1. C.A. Armstrong, and L.G. McMillion (1972)
 2. G.O. Bachman (1980)
 3. V.E. Barnes (1975)
 4. V.E. Barnes (1976a)
 5. V.E. Barnes (1976b)
 6. V.E. Barnes (1979)
 7. J.B. Brown, L.T. Rogers, and B.B. Baker (1965)
 8. C.H. Dane and G.O. Bachman (1965)
 9. N.H. Darton, L.W. Stephenson, and J. Gardner (1937)



Base from U.S. Geological Survey State base maps: New Mexico, 1927; Texas, 1965.

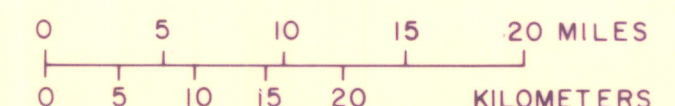


PLATE 1.--MAP SHOWING GEOLOGY OF THE DELAWARE BASIN, TEXAS AND NEW MEXICO.