

(200)  
R290  
NO. 84-739  
EXPLANATION

GEOLOGIC SECTION

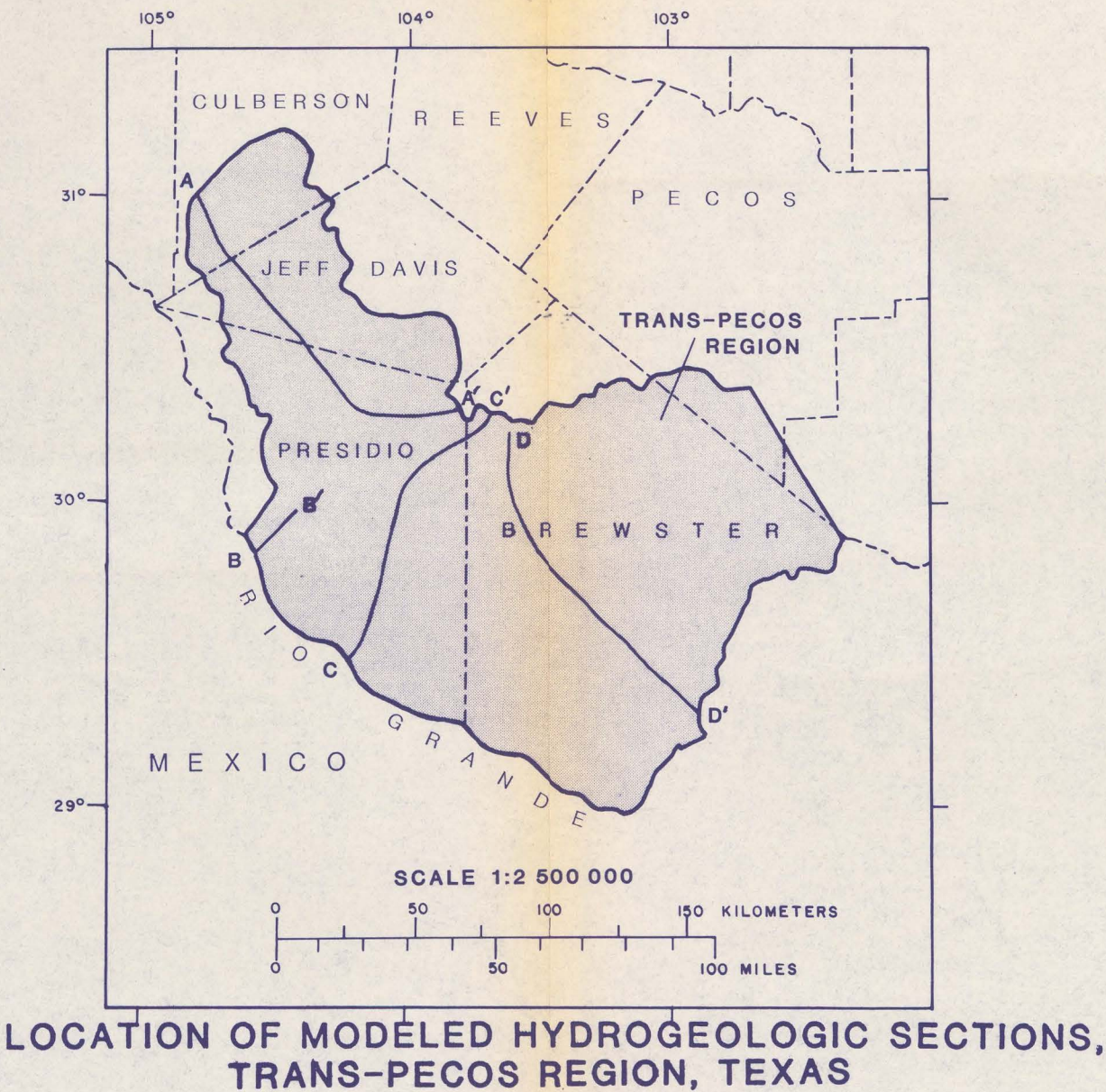
QTb	BASIN FILL (QUATERNARY AND TERTIARY)	-- Alluvium, sand, silt, gravel, landslide deposits and minor evaporites
Tt	ASH-FLOW TUFF AND TUFFACEOUS SEDIMENTS (TERTIARY)	-- Ash-flow tuff, rhyolite, trachyte and associated sandstone, conglomerate, and nonmarine limestone
Td	DUFF FORMATION (TERTIARY)	-- Rhyolitic tuff and minor sandstone and conglomerate
Tb	BASALTIC LAVA FLOWS (TERTIARY)	-- Mafic flows, trachyte, rhyolite and interbedded tuff and nonmarine limestone
Ti	QUARTZ MONZONITE INTRUSIVE (TERTIARY)	-- Occurs as a stock, Chinati Mountains
Tv	TERTIARY VOLCANIC ROCKS	-- Rhyolitic to basaltic lava and silicic ash-flow tuffs
Ku	UPPER CRETACEOUS ROCKS	-- Clay, shale, sandstone, siltstone, limestone, chalk, and lignite
Kl	LOWER CRETACEOUS ROCKS	-- Predominantly limestone in the upper part of the section, grading into sandstone, shale, limestone, clay, and conglomerate in the lower part of the section
Pu	PERMIAN ROCKS	-- Predominantly limestone in the upper part of the section, grading into sandstone, shale, limestone, clay, and conglomerate in the lower part of the section
Pl	PERMIAN ROCKS (LEONARDIAN)	-- Shale, chert, limestone, and interbedded conglomerate
Ph	HUECO LIMESTONE (PERMIAN)	-- Limestone
Pw	PERMIAN ROCKS (WOLFCAMPIAN)	-- Sandstone, shale, limestone, and conglomerate
Pzml	MIDDLE AND LOWER PALEOZOIC ROCKS (EXCLUDING PERMIAN)	-- Sandstone, shale, limestone, novaculite, and chert
Pzm	PALEOZOIC ROCKS OF THE MARATHON BASIN	-- Sandstone, novaculite, limestone, dolomite, and shale
pCu	PRECAMBRIAN ROCKS, UNDIFFERENTIATED	-- Consists of sandstone, arkose, and interbedded conglomerate, metaquartzite, amphibolite, phyllite, mica, schist, and slate
pCc	CARRIZO MOUNTAIN GROUP (PRECAMBRIAN)	--

- GEOLOGIC CONTACT.--Dashed where approximately located; queried where doubtful
- ===== FAULT.--Arrows show relative direction of movement

HYDROGEOLOGIC SECTIONS

SYMBOL	GEOHYDROLOGIC UNIT	SYMBOLS ON GEOLOGIC SECTIONS
a	BASIN FILL	-- QTb
t	ASH-FLOW TUFF AND TUFFACEOUS SEDIMENTS	-- Tt and Td
b	BASALTIC LAVA FLOWS	-- Tb
v	VOLCANIC ROCKS, UNDIFFERENTIATED	-- Tv
c	CARBONATE ROCKS	-- Ku, Kl, Pu, Pl, Ph, PW, Pzml, and Pzm
G	CRYSTALLINE ROCKS, UPPER PART OF SECTION	} -- pCu, pCc, and Ti
g	CRYSTALLINE ROCKS, LOWER PART OF SECTION	

- 10<sup>-2</sup> → DIRECTION OF GROUND-WATER FLOW.--Number is dimensionless relative volume of flow in section below flow line
- 10<sup>2</sup> —— DIMENSIONLESS RELATIVE TRAVELTIME FROM POINTS ON LINE TO DISCHARGE AREA.--Areas of longest traveltimes originate in the recharge area. No isolated areas of long traveltime are surrounded by areas of shorter traveltime. However, some areas of longest traveltime are too small to portray at the scale shown



HYDROGEOLOGIC SECTIONS A-A', B-B', C-C', AND D-D' SHOWING GROUND-WATER FLOW PATHS AND RELATIVE TRAVELTIME, TRANS-PECOS REGION, TEXAS.