

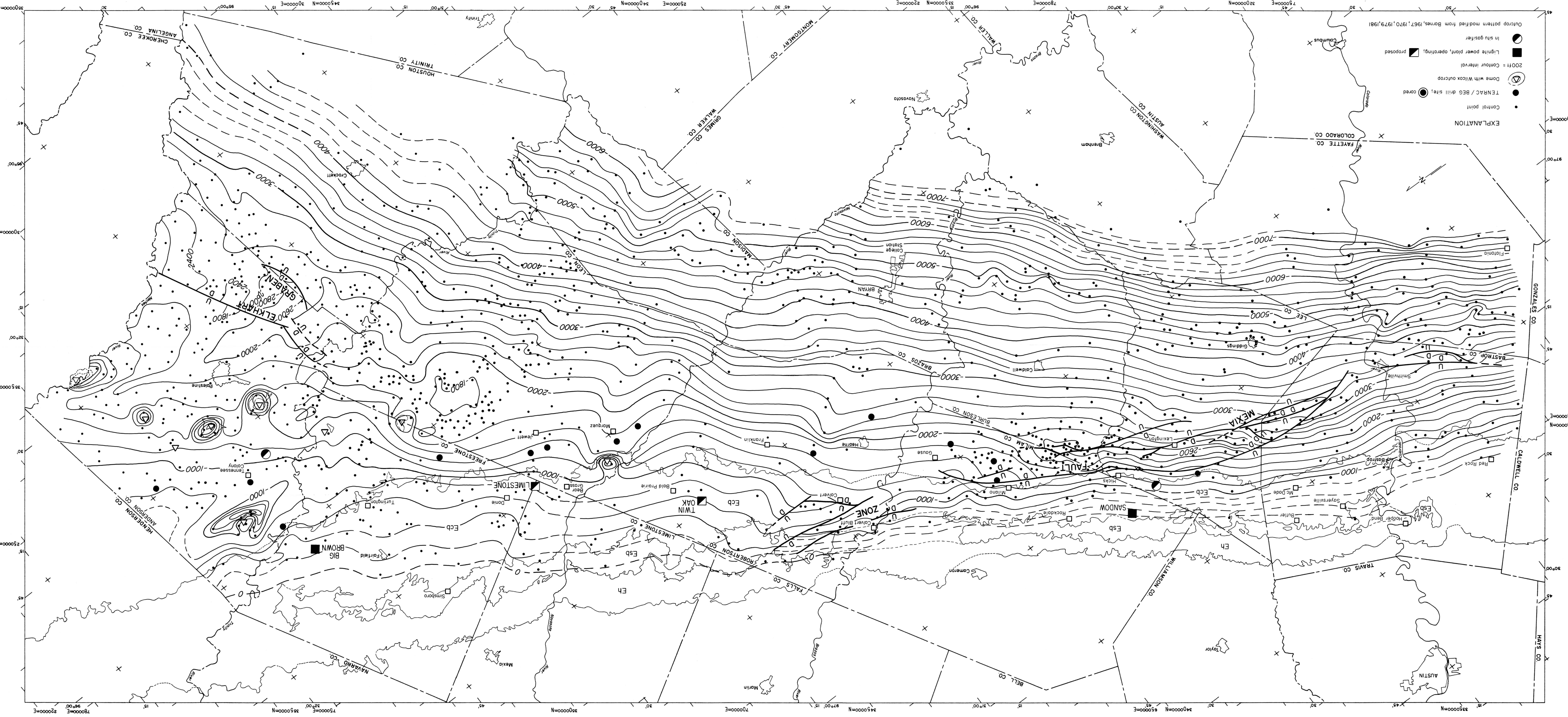
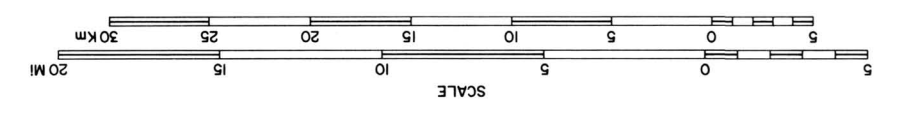


ATTACHMENT 3 –  
REFERENCE MATERIALS

Base map adapted from Army Map Service base maps, 1:625,000-  
meter Universal Transverse Mercator grid, zones 14 and 15.  
Lithology by John T. Ames under the supervision of Richard  
L. Dillon.  
By W. B. Ayers, Jr., and Amy H. Lewis

# PLATE 2. WILCOX STRUCTURE MAP

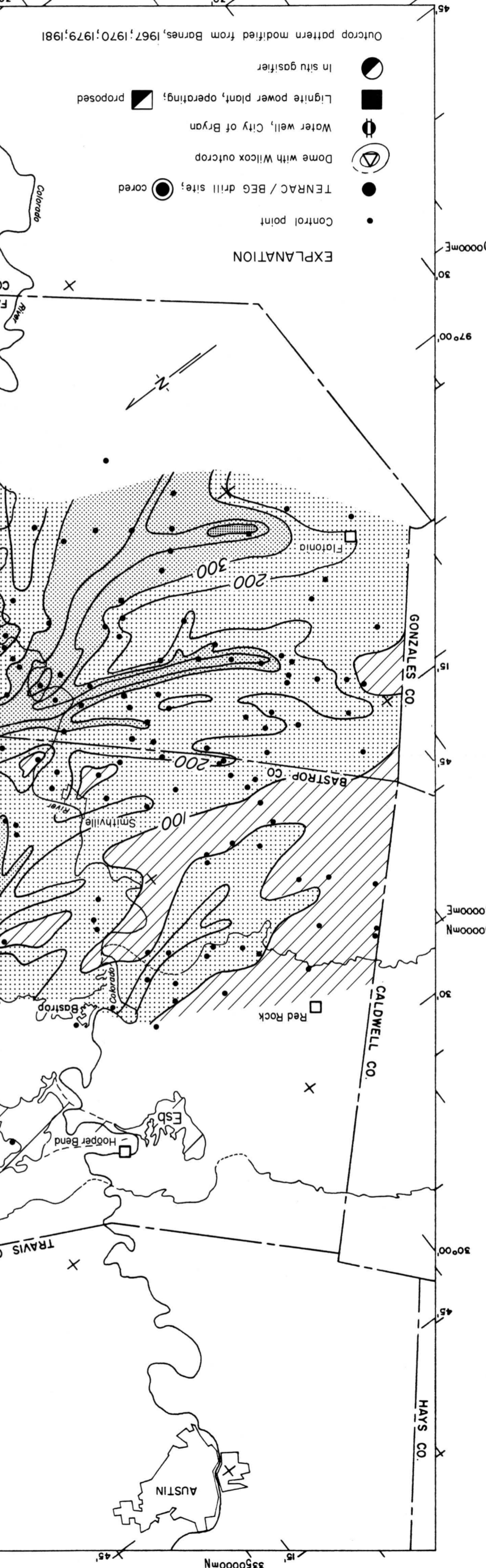
1985



- ### EXPLANATION
- Control point
  - TERNAC / BEG drill sites; cored
  - Dome with Wilcox outcrop
  - 200ft = Contour interval
  - Lighter power plant, operating; proposed
  - In situ gasifer
- Outcrop pattern modified from Barnes, 1967, 1970, 1979, 1981

(Fig. 2)  
Generalized structure map drawn on the base of the Wilcox Group (sea-level datum) shows regional dip to the southeast. The angle of dip increases from the northeast (1/2°) to the southwest (2°). Major structural elements are the Mexico Fault Zone, the Elkhart Graben, salt structures in Anderson and Freestone Counties, and the East Texas Basin

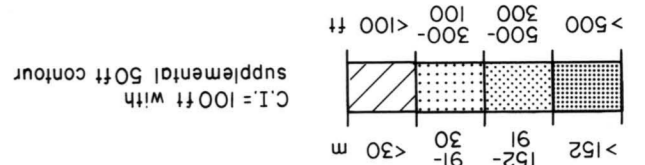




**EXPLANATION**

- Control point
- TERNAC / BEG drill site; cored
- Dome with Wilcox outcrop
- ⊕ Water well; City of Bryan
- Lighter power plant, operating; proposed
- In situ gasifier

Outcrop pattern modified from Barnes, 1967, 1970, 1979, 1981



Ecb Calvert Bluff Formation  
 Esb Simsboro Formation  
 Eh Hooper Formation

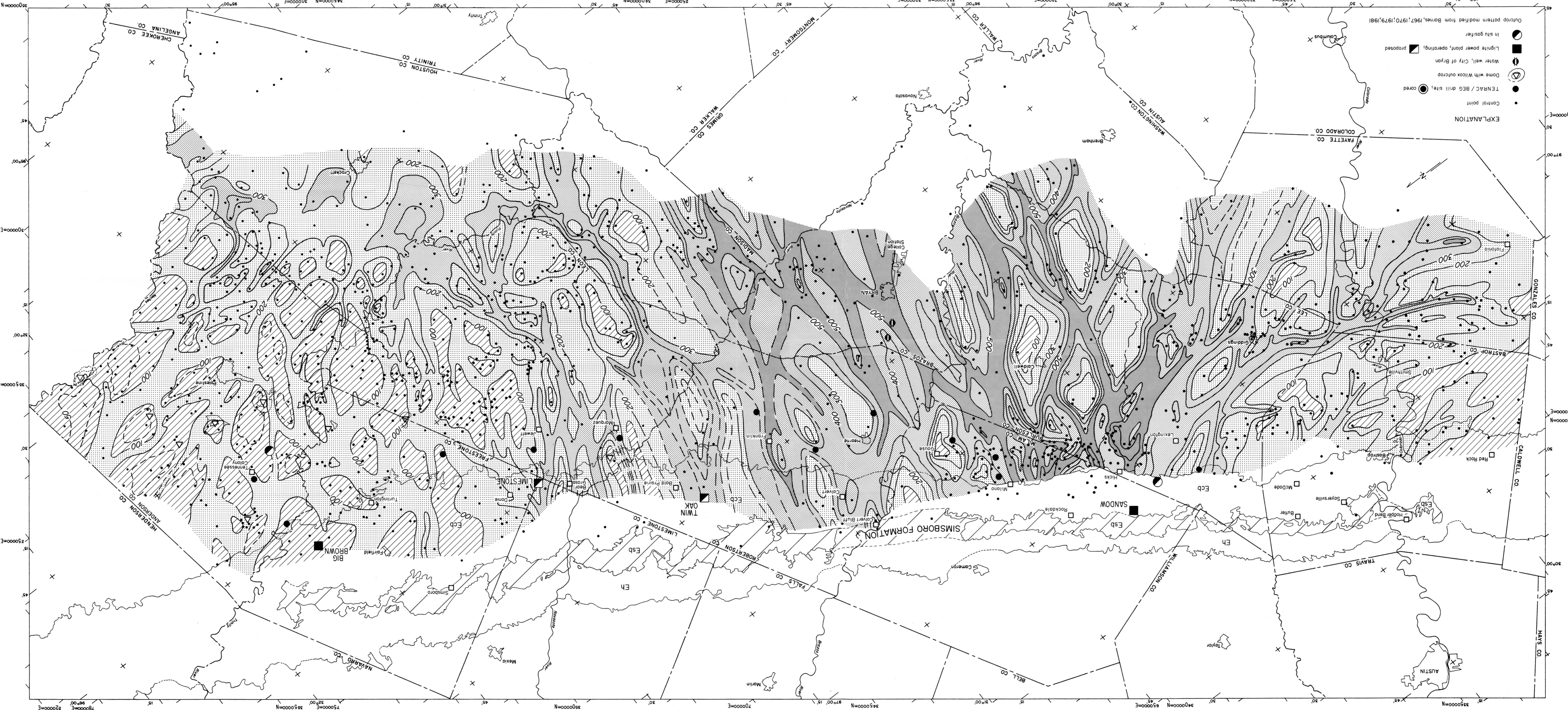
Base map adapted from Army Map Service base maps, 1:600,000-scale Universal Transverse Mercator grid zones 14 and 15. Cartography by John T. Ames under the supervision of Richard L. Dillon.  
 By W. B. Ayers, Jr., and Amy H. Lewis

PLATE 5. SIMSBORO FORMATION, MAJOR-SAND ISOLITH MAP

1985



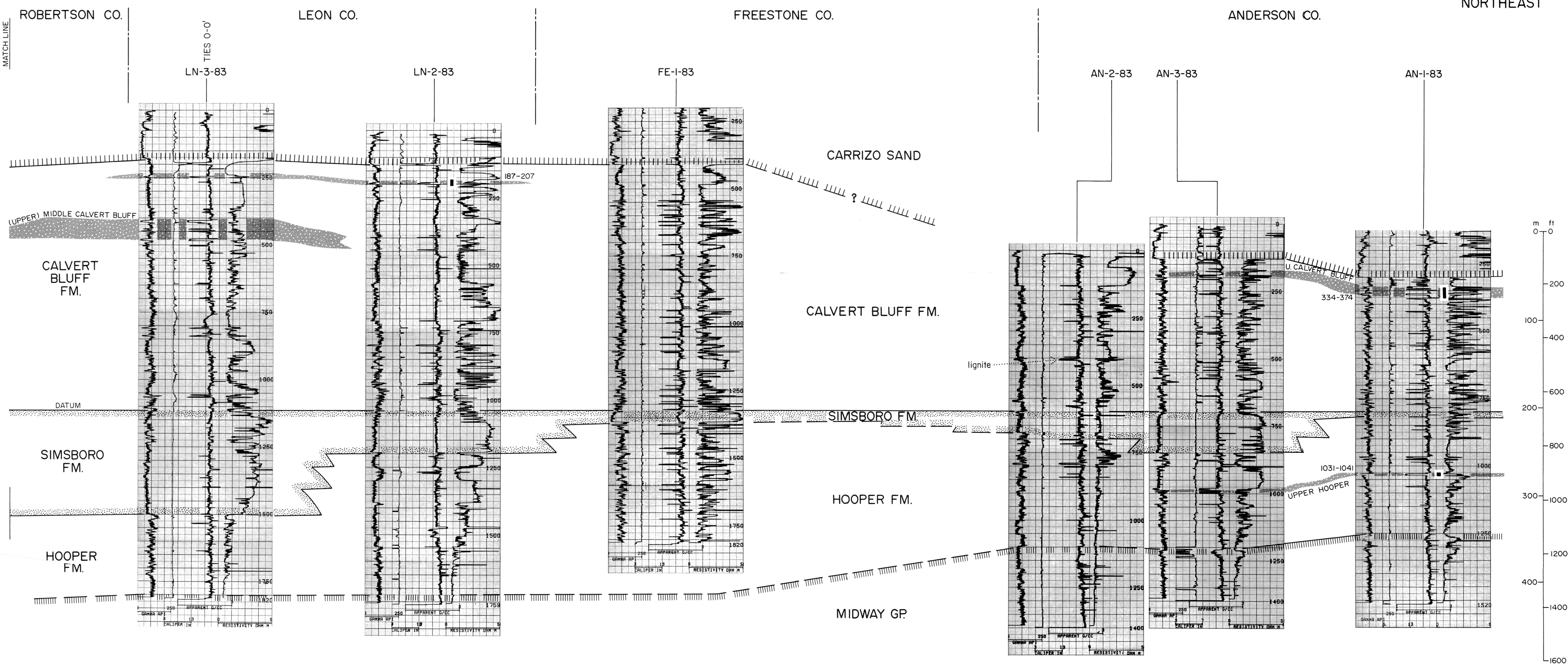
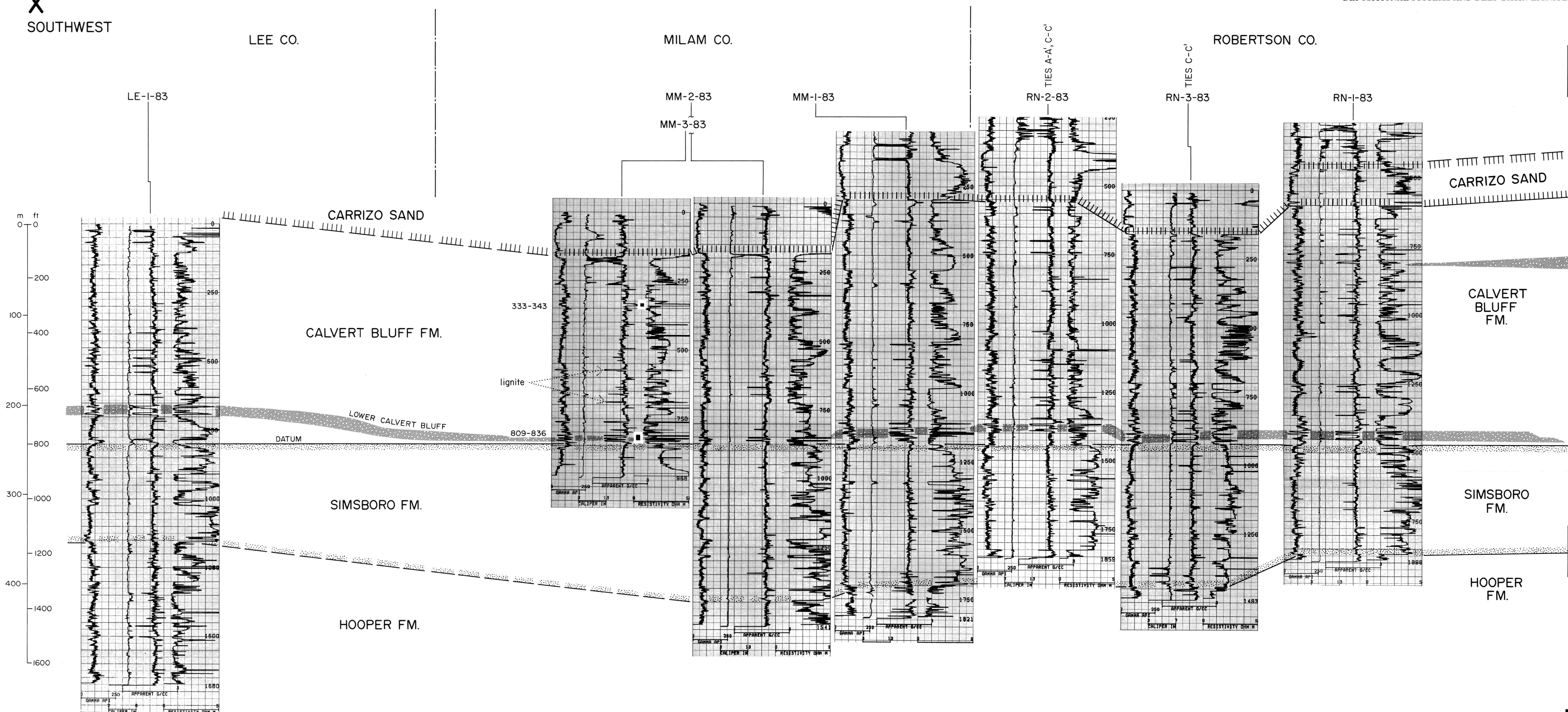
Dip-elongate major sand bodies (sands 10 ft [12 m] or thicker) in the shallow subsurface are straight; they bifurcate, displaying a deltaic geometry, in Fayette County and trends southwest of Leon County (Rockdale fluvial-deltaic system) intersect at a broad focus in Coryell County (fig. 3). Sand-body trends in Anderson and Houston Counties (secondary fluvial systems with sources to the north and northeast) are directed into the axis of the East Texas Basin (fig. 2 and pl. 2).



3500000N  
 3450000N  
 3400000N  
 3350000N  
 3300000N  
 3250000N  
 3200000N  
 3150000N  
 3100000N  
 3050000N  
 3000000N  
 2950000N  
 2900000N  
 2850000N  
 2800000N  
 2750000N  
 2700000N  
 2650000N  
 2600000N  
 2550000N  
 2500000N  
 2450000N  
 2400000N  
 2350000N  
 2300000N  
 2250000N  
 2200000N  
 2150000N  
 2100000N  
 2050000N  
 2000000N  
 1950000N  
 1900000N  
 1850000N  
 1800000N  
 1750000N  
 1700000N  
 1650000N  
 1600000N  
 1550000N  
 1500000N  
 1450000N  
 1400000N  
 1350000N  
 1300000N  
 1250000N  
 1200000N  
 1150000N  
 1100000N  
 1050000N  
 1000000N  
 950000E  
 900000E  
 850000E  
 800000E  
 750000E  
 700000E  
 650000E  
 600000E  
 550000E  
 500000E  
 450000E  
 400000E  
 350000E  
 300000E  
 250000E  
 200000E  
 150000E  
 100000E  
 50000E  
 0  
 50000W  
 100000W  
 150000W  
 200000W  
 250000W  
 300000W  
 350000W  
 400000W  
 450000W  
 500000W  
 550000W  
 600000W  
 650000W  
 700000W  
 750000W  
 800000W  
 850000W  
 900000W  
 950000W  
 1000000W



X  
SOUTHWEST



Geophysical logs from Texas Energy and Natural Resources Advisory Council/Bureau of Economic Geology wells show the stratigraphic occurrence of deep lignite (200 to 2,000 ft [61 to 610 m]) in east-central Texas. Thick lignite seams (seams 5 ft [1.5 m] or thicker) are found in the (a) upper Hooper Formation on the northeast, (b) lower Calvert Bluff Formation on the southwest, and (c) upper Calvert Bluff Formation on the northeast. Lateral continuity of individual lignite seams within the zones is neither implied nor true; wells were drilled in low-sand (floodbasin) areas between major-sand axes, which limit seam continuity. See plate 3 for location. Full-scale geophysical well logs are available from the Bureau of Economic Geology.

Cartography by John T. Ames under the supervision of Richard L. Dillon.

by W. B. Ayers, Jr., and Amy H. Lewis

PLATE 22. LIGNITE CROSS SECTION X-X'  
1985

