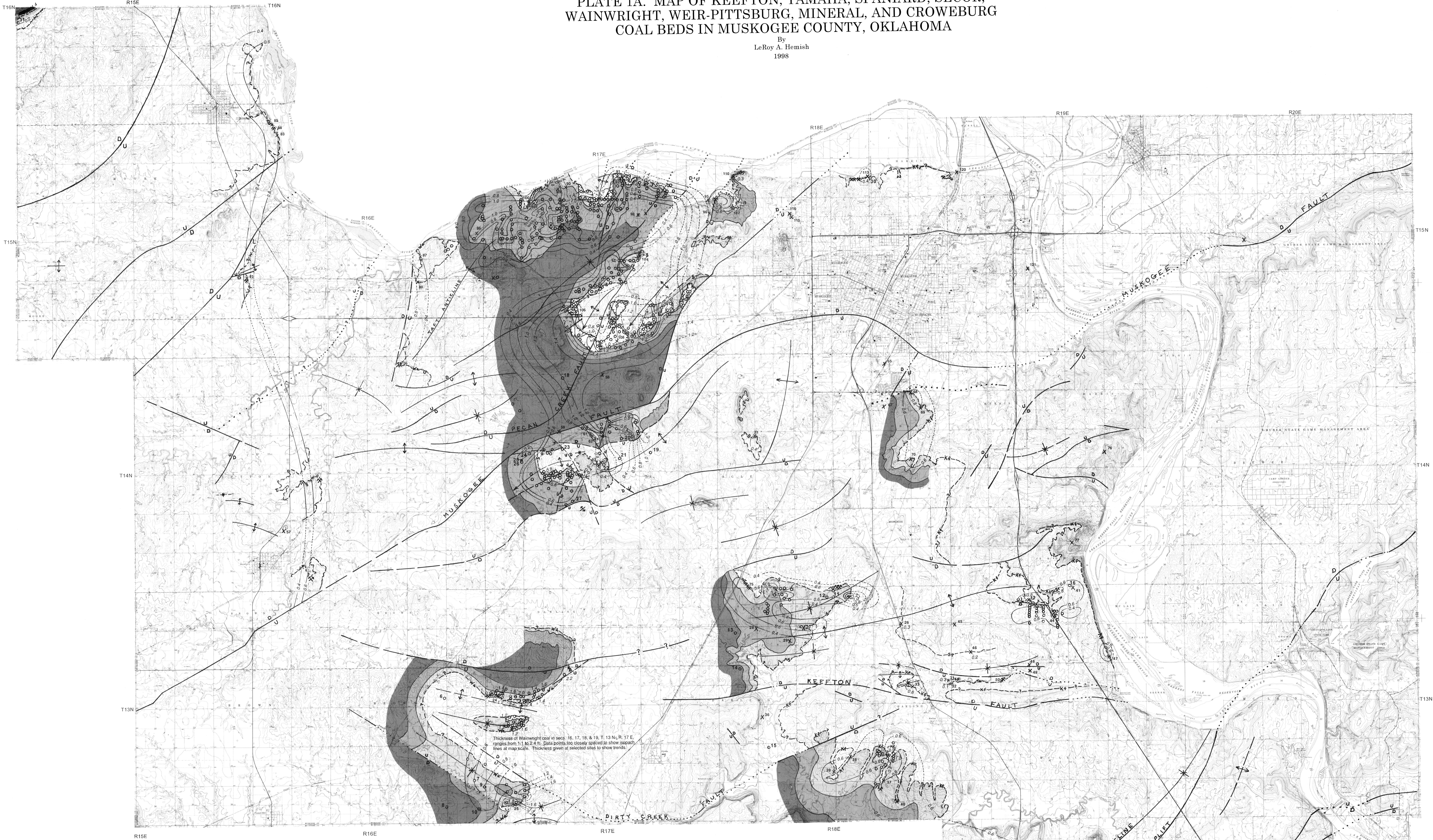


PLATE 1A. MAP OF KEEFTON, TAMAHA, SPANIARD, SECOR,  
WAINWRIGHT, WEIR-PITTSBURG, MINERAL, AND CROWEBURG  
COAL BEDS IN MUSKOGEE COUNTY, OKLAHOMA

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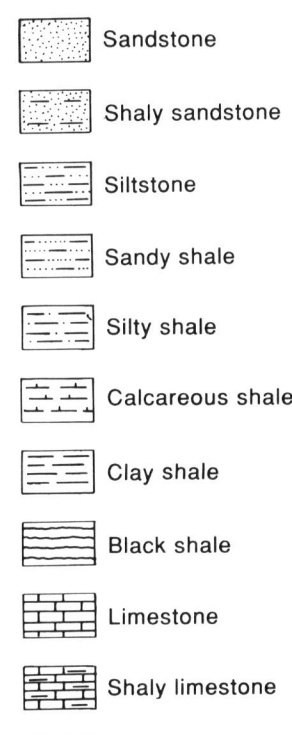


SYSTEM	FORMATION	LITHOLOGY	THICKNESS (FT)	MEMBER OR BED
PENNSYLVANIAN	Marmaton	Wewicka	12-14	Crowburg coal
		Calvin Sandstone	12-14	
	Senora	Cherokee Sandstone	12-14	Mineral coal
		Cherokee Sandstone	12-14	Cherokee Sandstone
		Cherokee Sandstone	12-14	
		Cherokee Sandstone	12-14	
		Cherokee Sandstone	12-14	
	Boggy	Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
	Stuart Shale	Stuart Shale	12-14	Weir-Pittsburg coal
DESMONIAN	Boggy	Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
	Savanna	Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
KANSAS	McAlester	Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
	Hartshorne	Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	
		Wainwright coal	12-14	

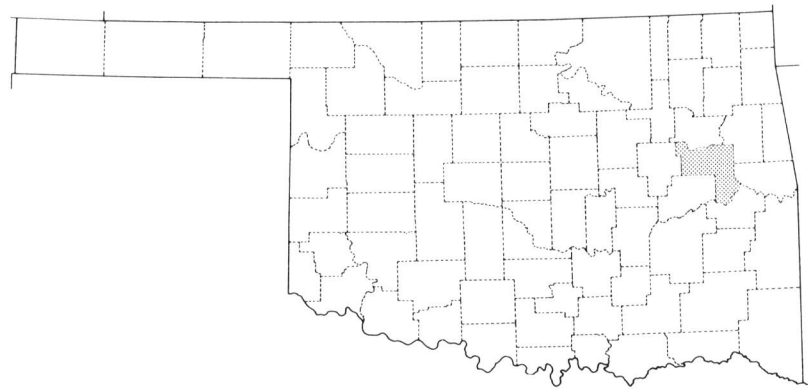
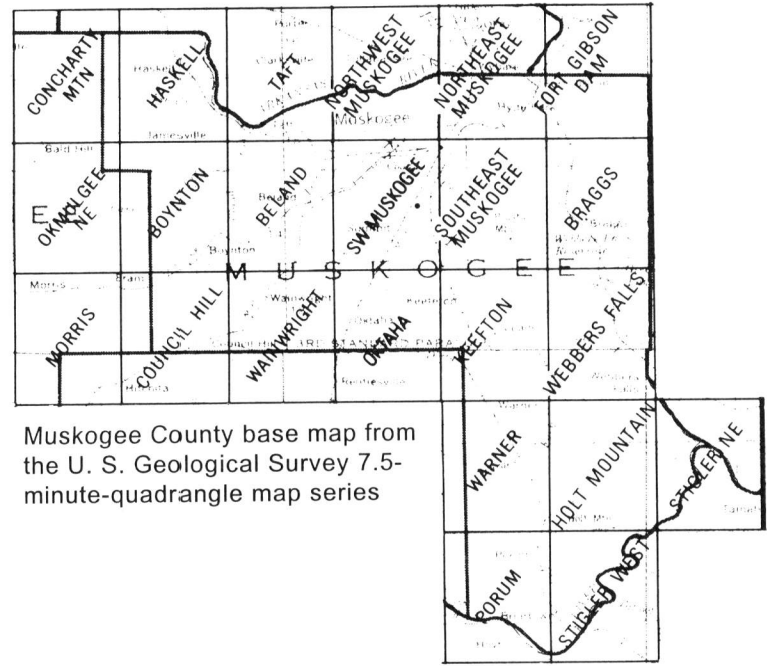
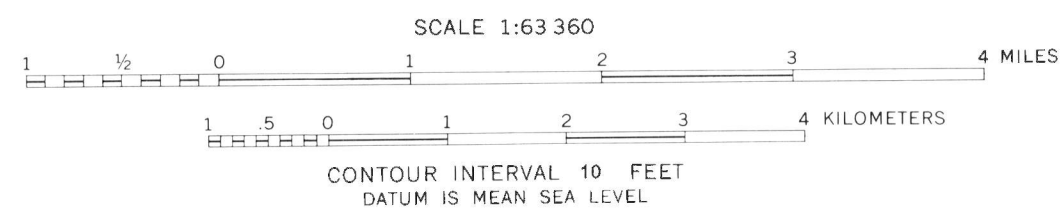
PLATE 1B. GENERALIZED COLUMNAR SECTION OF COAL-BEARING STRATA, MUSKOGEE COUNTY, OKLAHOMA

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1998

EXPLANATION



Note: For simplicity, the term Member is omitted here and elsewhere in this report. The formal status of members is indicated by capitalization of the lithologic name (e.g., Muskogee Sandstone; lower case lithologic terms are used for informal units (e.g., Rowe coal).



EXPLANATION

Coal bed, approximately located; dashed where inferred; queried where doubtful.  
Letter symbol indicates coal bed name: **Kf**, Keffton; **Sp**, Spaniard.

Fault; dashed where approximately located; dotted where concealed; **U**, Upthrown side; **D**, Downthrown side.

Anticline, showing crestline and direction of plunge; dashed where approximately located; dotted where concealed.

Syncline, showing troughline; dashed where approximately located.

Isopach contour dashed where reconstructed; contour interval 0.2 ft.

Small abandoned open pit.

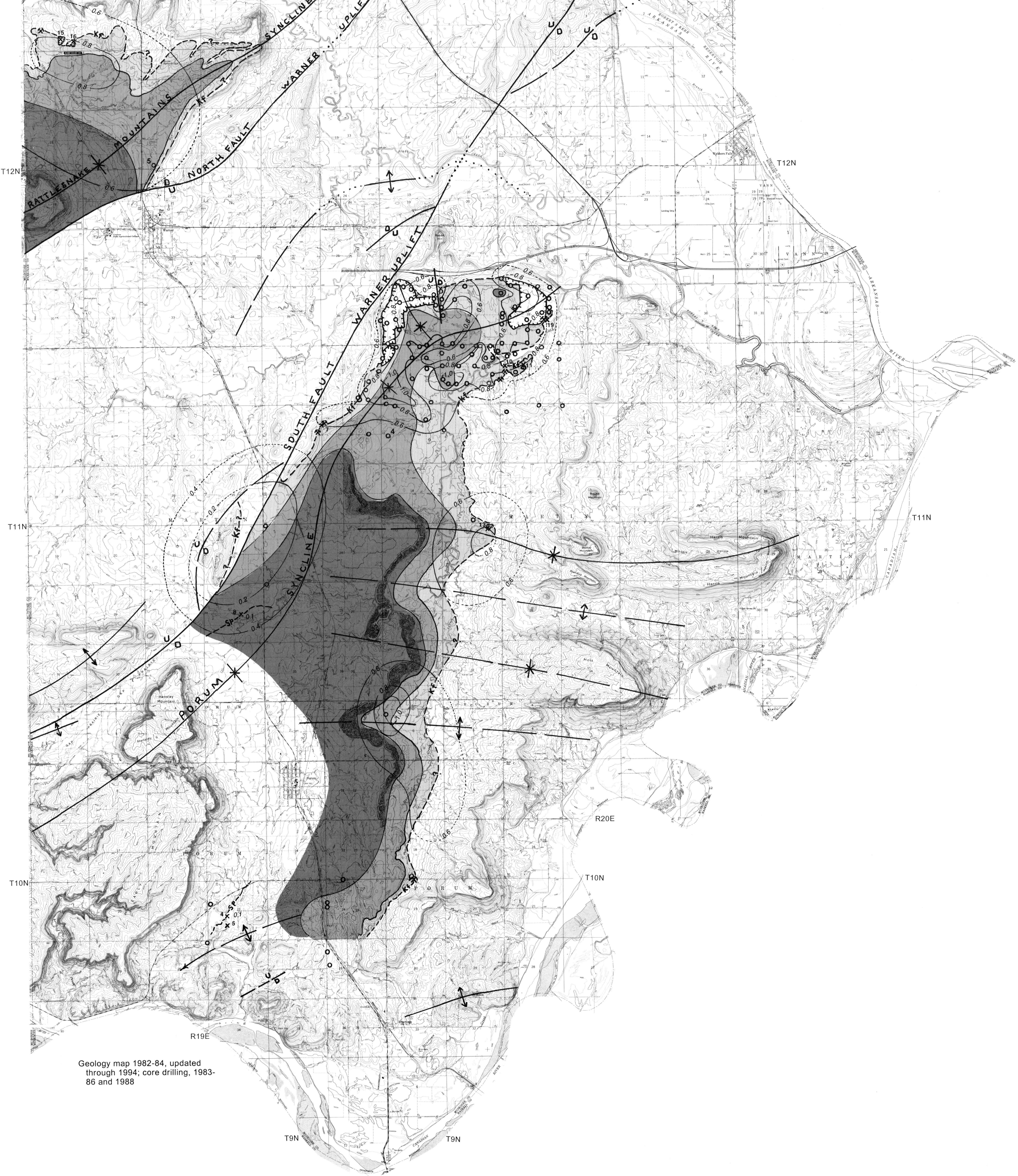
Coal drill hole; number corresponds to core-hole log, Appendix 2; unnumbered holes from other studies.

Point of exposure; number corresponds to measured section of this report; unnumbered points from other studies; numbers in tenths of ft are coal thickness of isolated exposures.

Mined-out area.

THICKNESS OF OVERBURDEN (Shown for Keffton coal only)

Note: Thickness of overburden divisions omitted in some areas where coal is deemed to be non-economic.



Geology map 1982-84, updated through 1994; core drilling, 1983, 86 and 1988