



**EXPLANATION**

5 UH  
4 UH

ISOPACHS OF THE UPPER HARTSHORNE SPLIT OF THE HARTSHORNE COAL BED-Showing thickness in feet. Isopach interval 1 foot (0.305m).

5 LH  
4 LH

ISOPACH OF THE LOWER HARTSHORNE SPLIT OF THE HARTSHORNE COAL BED-Showing thickness in feet. Isopach interval 1 foot (0.305m).

2.6 LH

COAL TEST MEASUREMENT-Showing measured thickness of coal, in feet, in areas where the structure map exhibited dip less than 25° and the symbol of name of coal bed. Drill holes which do not intersect the coal or from which a coal thickness could not be determined are not shown.

3 UH  
4 LH

OIL AND GAS TEST HOLE-Showing thickness of coal estimated from well logs, in feet, and the symbol of name of coal bed.

MINE WORKINGS AND STRIPPED AREAS-Showing mined-out-areas. Boundaries are approximately located.

UH

INFERRED TRACE OF COAL BED OUTCROP-Showing symbol of name of coal bed. Arrow points toward coal-bearing area.

THRUST FAULT--Sawtooth on upthrown or overthrust side.

NOTE: Thickness reported to tenths of feet only when resolution of data permitted.

To convert feet to meters, multiply feet by 0.3048.

This report was prepared under contract to the U.S. Geological Survey, and has not been edited for conformity with Geological Survey editorial standards or stratigraphic nomenclature. Opinions expressed herein do not necessarily represent those of the Geological Survey.

**FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE KREBS 7.5-MINUTE QUADRANGLE, PITTSBURG COUNTY, OKLAHOMA**  
 BY GEOLOGICAL SERVICES OF TULSA, INC., B. T. BRADY, USGS, AND J. L. QUERRY, BLM

**PLATE B**  
 ISOPACH MAP OF THE UPPER AND LOWER HARTSHORNE COAL BEDS

COMPILED IN 1980  
 This map intended for land-use planning purposes only