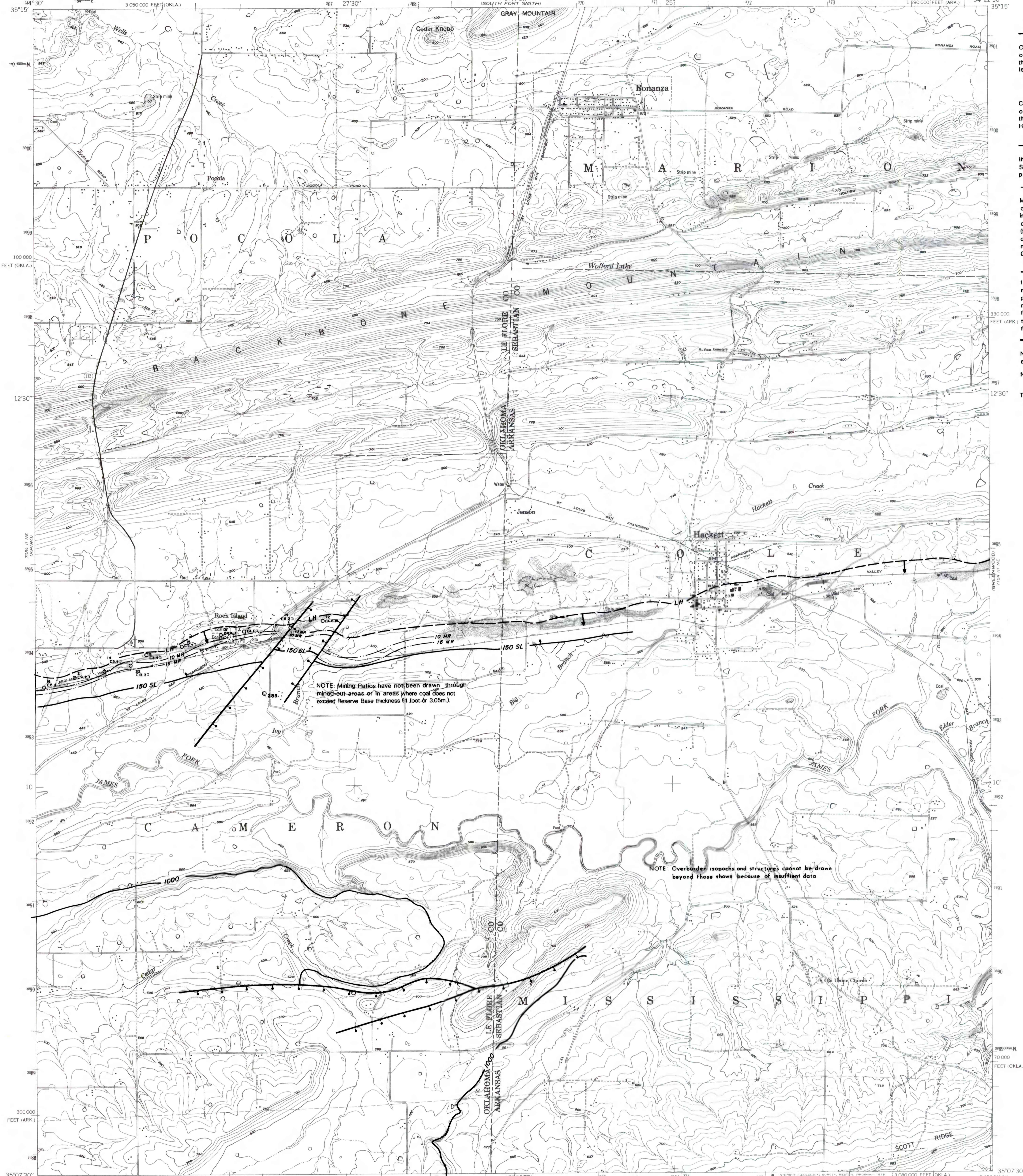


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HACKETT QUADRANGLE
ARKANSAS-OKLAHOMA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW4 GREENWOOD 15' QUADRANGLE
1:250,000 FEET (ARK.)

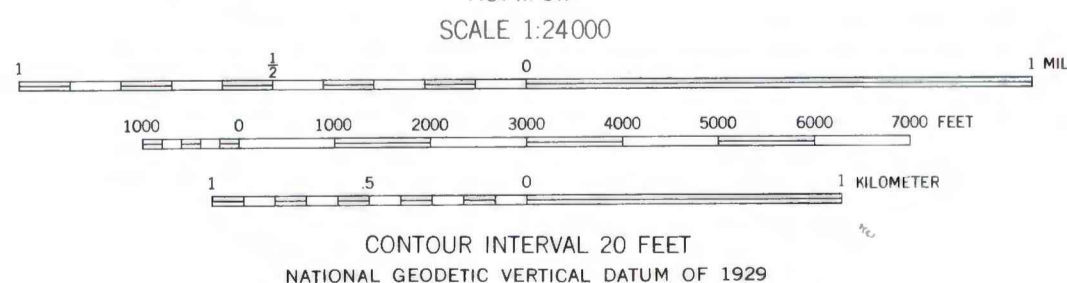


EXPLANATION

- 2000**
OVERBURDEN ISOPACHS--Showing thickness of overburden, in feet, from the surface to top of the Lower split of the Hartshorne coal bed. Isopach interval 1000 feet (305m.)
- 30 (7.8)**
COAL TEST MEASUREMENT--Showing thickness of overburden, in feet, (upper number) from the surface to the top of the Lower split of the Hartshorne coal bed. Mining ratio in brackets.
- LH**
INFERRED TRACE OF COAL BED OUTCROP--Showing symbol of name of coal bed. Arrow points toward coal-bearing area.
- 15MR**
MINING-RATIO CONTOUR--Number indicates cubic yards of overburden per ton of recoverable coal by surface mining methods. Contours shown only in areas underlain by coal of Reserve Base thickness within the stripping-limit (in this quadrangle, the 150-foot-overburden isopach). To convert mining ratio to cubic meters of overburden per metric ton of recoverable coal, multiply mining ratio by 0.8428.
- 150 SL**
150 SL STRIPPING-LIMIT LINE--Boundary for surface mining (in this quadrangle, the 150-foot-overburden isopach). Arrow points toward the area suitable for surface mining where the recovery factor is 80 percent, and away from the area suitable for subsurface mining (down dip to the 3,000-foot-overburden isopach) where the recovery factor is 50 percent.
- Normal Fault**--Bar and ball on downthrown side; dashed where approximately located.
- NOTE:** Thickness reported to tenths of feet only when resolution of data permitted.
- To convert feet to meters, multiply feet by 0.3048.

NOTE: Mining Ratios have not been drawn through mined-out areas or in areas where coal does not exceed Reserve Base thickness (1 foot or 3.05m.)

NOTE: Overburden isopachs and structures cannot be drawn beyond those shown because of insufficient data



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.

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

FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE HACKETT 7.5-MINUTE QUADRANGLE, LEFLORE COUNTY, OKLAHOMA AND SEBASTIAN COUNTY, ARKANSAS

BY GEOLOGICAL SERVICES OF TULSA, INC., B. T. BRADY, USGS, AND J. L. QUERRY, BLM

PLATE 7
OVERBURDEN ISOPACH AND MINING RATIO MAP OF THE LOWER SPLIT OF THE HARTSHORNE COAL BED