

EXPLANATION

1800
2000

OVERBURDEN ISOPACHS—Showing thickness of overburden, in feet, between the Upper and Lower Hartshorne coal beds. Isopach interval 200 feet (61.0 m).

100
80

INTERBURDEN ISOPACH—Showing thickness of interburden, in feet, between the Upper and Lower Hartshorne coal beds. Isopach interval 20 ft. (6.10 m). Hachures indicate an area of local thinning of interval.

INSUFFICIENT DATA LINE—Coal interburden cannot be determined beyond line shown because of insufficient data.

01213
(8.1)

COAL TEST MEASUREMENT—Showing thickness of overburden, in feet, (upper number) from the surface to top of the Hartshorne coal bed (or Upper Hartshorne where split) and thickness of interburden, in feet, (lower number in parentheses) between the Upper Hartshorne and Lower Hartshorne splits of the Hartshorne coal bed. Mining Ratio number in brackets.

088
(84)

OIL AND GAS TEST HOLE—Showing thickness of overburden and thickness of interburden as outlined above.

UH

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.

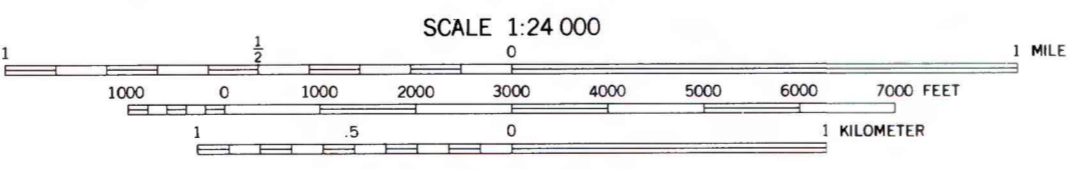
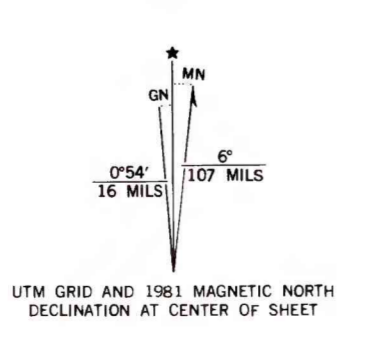
150 SL

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.

NOTE: 10 MR omitted due to overcrowding

NOTE: Mining Ratios have not been drawn through mined-out areas or in areas below Reserve Base thickness. (1 ft. 0.3048 m.)

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.



CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE NORTHEAST QUARTER OF THE HEAVENER 15-MINUTE QUADRANGLE, LEFLORE COUNTY, OKLAHOMA
BY GEOLOGICAL SERVICES OF TULSA, INC., B. T. BRADY, USGS, AND J. L. QUERRY, BLM

PLATE 7
INTERBURDEN ISOPACH MAP OF THE UPPER AND LOWER HARTSHORNE COAL BEDS AND OVERBURDEN ISOPACH AND MINING RATIO MAP OF THE UPPER HARTSHORNE COAL BED