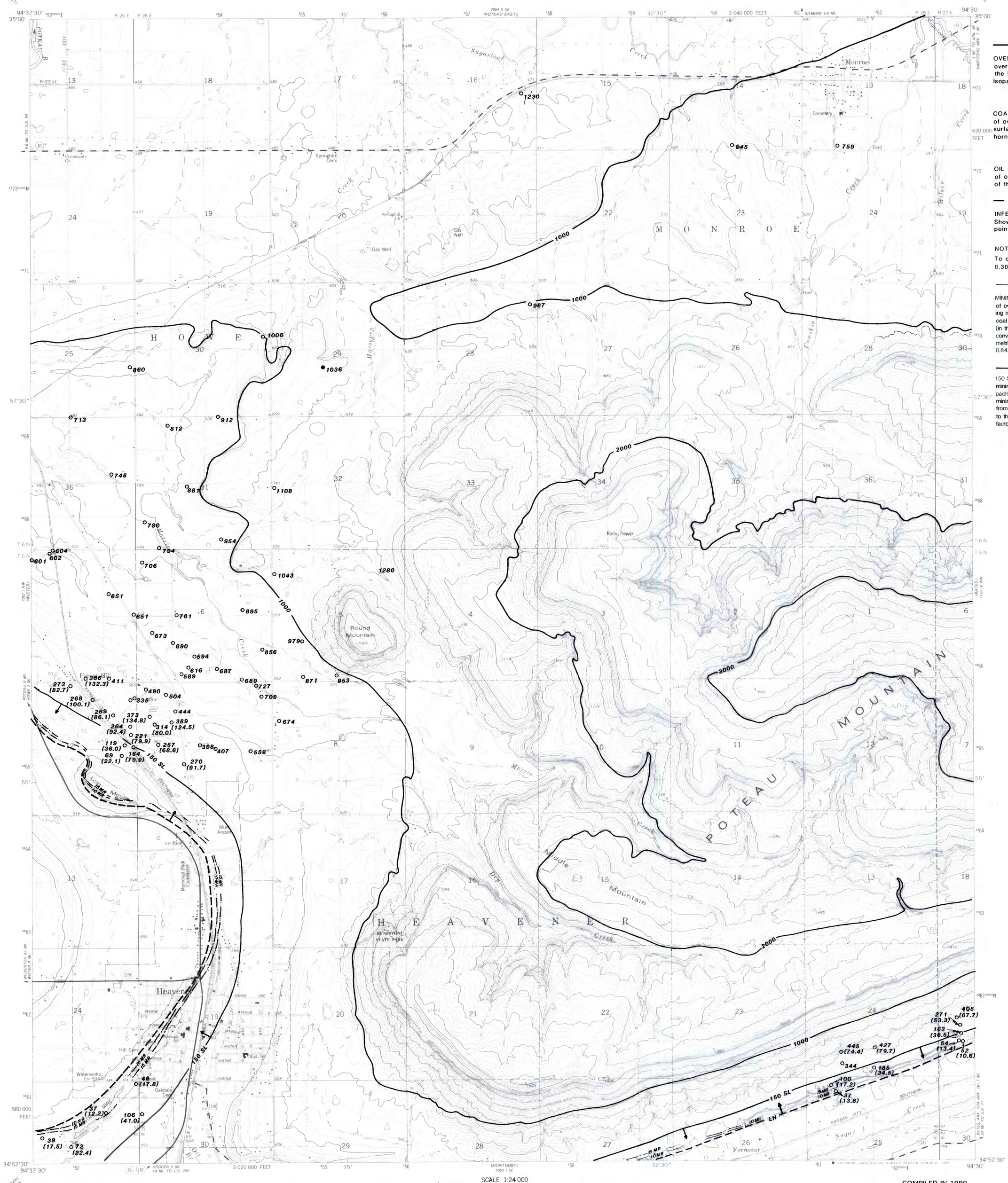


EXPLANATION

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 top of the Lower Split of the Hartshorne coal bed. Mining ratio in brackets.

1164

OIL AND GAS TEST HOLE--Showing thickness of overburden in feet, from the surface to top of the Lower Split of the Hartshorne coal bed.

LH

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

NOTE: Thickness rounded to nearest foot.

To convert feet to meters multiply feet by 0.3048.

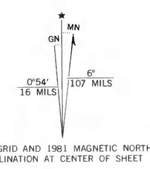
15MR

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.

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.



UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

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 8

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