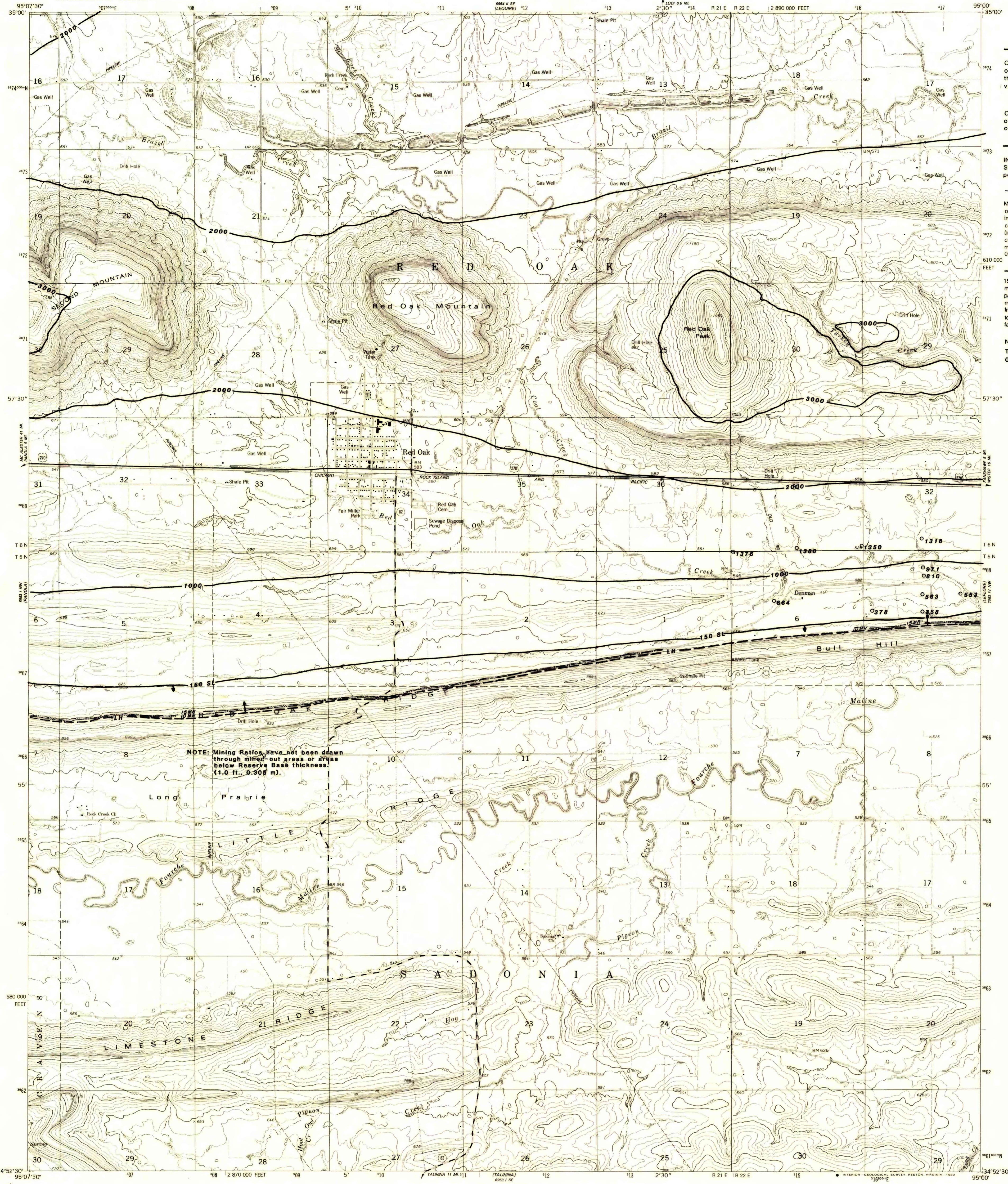


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



EXPLANATION

2000
OVERBURDEN ISOPACHS--Showing thickness of overburden, in feet, from the surface to top of the Lower Hartshorne coal bed. Isopach interval 1000 feet (305m.)

0 1350
COAL TEST MEASUREMENT--Showing thickness of overburden, in feet, from the surface to top of the Lower Hartshorne coal bed.

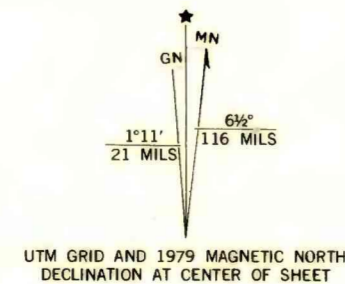
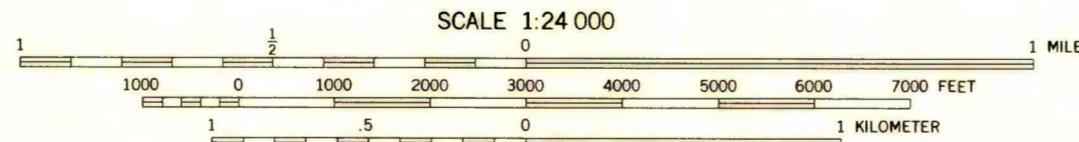
LH
INFERRED TRACE OF COAL BED OUTCROP--Showing symbol of name of coal bed. Arrow points toward coal-bearing area.

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 0.8426.

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 3000-foot-overburden isopach) where the recovery factor is 50 percent.

NOTE: Thickness rounded to nearest foot. To convert feet to meters, multiply feet by 0.3048.

NOTE: Mining Ratios have not been drawn through mined-out areas or areas below Reserve Base thickness (11.0 ft., 3.35 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.

FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE NORTHEAST QUARTER OF THE RED OAK 15-MINUTE QUADRANGLE, LATIMER COUNTY, OKLAHOMA

COMPILED IN 1980

This map intended for land use planning purposes only.

BY GEOLOGICAL SERVICES OF TULSA, INC., AND B. T. BRADY, USGS

PLATE 15
OVERBURDEN ISOPACH AND MINING RATIO MAP OF THE LOWER HARTSHORNE COAL BED