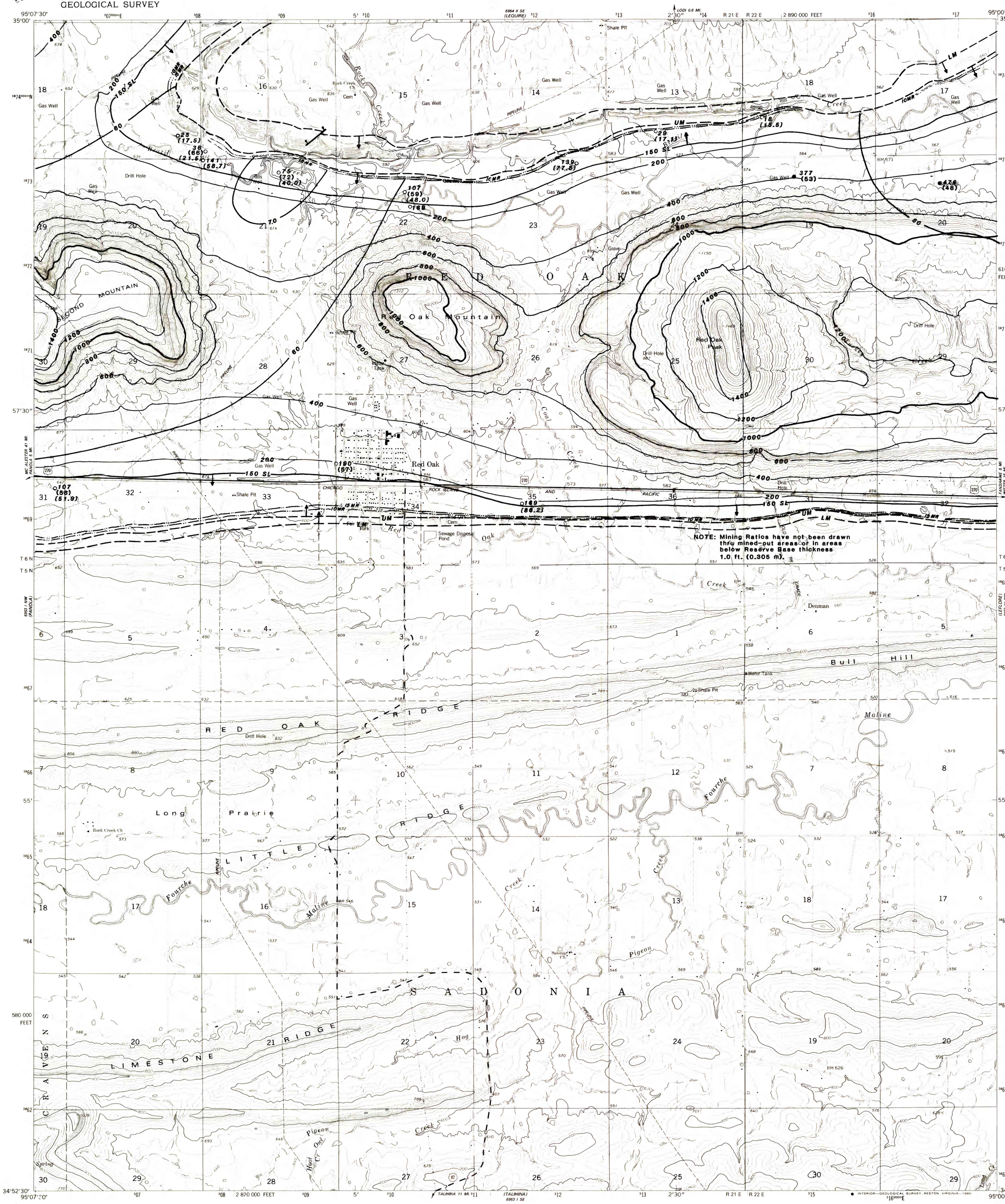
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



EXPLANATION

800
1000

OVERBURDEN ISOPACHS-Showing thickness of overburden, in feet, from the surface to top of the Upper McAlester coal bed. Isopach interval 200 feet(61.0m.).

50
60

INTERBURDEN ISOPACH-Showing thickness of interburden, in feet, between the Upper McAlester and Lower McAlester (Stigler) coal beds. Isopach interval 10 feet(3.05m.)

190
(57)
(15.5)

COAL TEST MEASUREMENT-Showing thickness of overburden, in feet, (upper number) from the surface to top of the Upper McAlester coal bed and thickness of interburden, in feet, (lower number in parentheses) between the Upper McAlester and Lower McAlester coal beds. Mining ratio numbers in brackets.

476
(48)

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

UM

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

NORMAL FAULT-Bar and ball on downthrown side. Dashed where approximately located.

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.

SCALE 1:24 000

1 ½ 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

GN MN
1°11' 21 MILS
6½° 116 MILS
UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

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

COMPILED IN 1980

This map intended for land use planning purposes only.

PLATE 7

INTERBURDEN ISOPACH MAP OF THE UPPER AND LOWER McALESTER COAL BEDS AND OVERBURDEN ISOPACH AND MINING RATIO MAP OF THE UPPER McALESTER COAL BED