



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.)
- 30 (7.8)**
COAL TEST MEASUREMENT--Showing thickness of overburden, in feet, (upper number) from the surface to the top of the Lower Hartshorne coal bed. Mining ratio in brackets.
- 1157**
OIL AND GAS TEST HOLE--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.
- 150 SL**
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 3,000-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.

Base from U.S. Geological Survey, 1940
This map intended for land-use planning purposes only.

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UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

Compiled 1980/1981

FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE NORTHWEST QUARTER OF THE RED OAK 15-MINUTE QUADRANGLE, LATIMER COUNTY, OKLAHOMA
BY GEOLOGICAL SERVICES OF TULSA, INC., AND B. T. BRADY, USGS