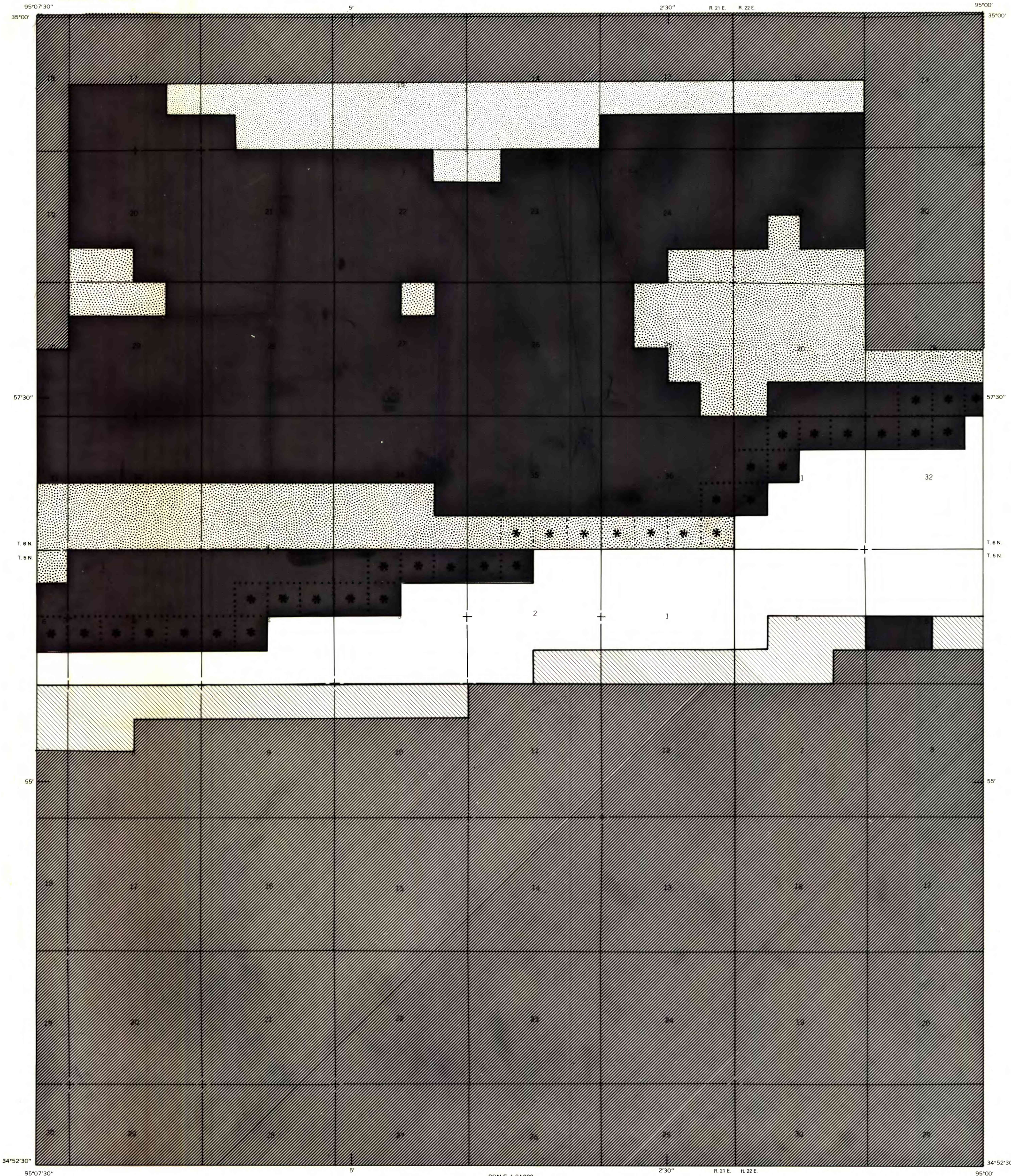
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



EXPLANATION

KRCRA

KRCRA BOUNDARY--Label within boundary.

NON-FEDERAL COAL LAND--Land for which the Federal Government does not own the coal rights, and for which the coal-development potential is not rated.

AREA OF HIGH COAL-DEVELOPMENT POTENTIAL(Subsurface)--Area contains coal in beds which dip less than 15° are 1 foot (0.3048m) or more thick, and lie between the 150-foot (45.72m) overburden isopach and a depth of 1,000 feet (304.8m).

AREA OF MODERATE COAL-DEVELOPMENT POTENTIAL (Subsurface)--Area contains coal in beds which dip less than 15° are 1 foot (0.3048m) or more thick, and lie at depths ranging from 1,000 to 2,000 feet (304.8 to 609.6m).

AREA OF UNKNOWN COAL-DEVELOPMENT POTENTIAL (Subsurface & In-Situ)--Area contains no known coal in beds 1 foot (0.3048m) or more thick, but coal-bearing units are present in area at depths of less than 3,000 feet (914.4m). Areas influenced by isolated data points are similarly considered to have unknown development potential.

AREA OF NO COAL-DEVELOPMENT POTENTIAL--No coal in beds 1 foot (0.3048m) or more thick is known to occur in area; coal in beds 1 foot (0.3048m) or more thick is present in area at depths greater than 3,000 feet (914.4m); or coal in beds 1 foot (0.3048m) or more thick has been mined.

AREA OF LOW IN-SITU COAL GASIFICATION POTENTIAL--Area contains coal in beds 1 foot (0.3048m) or more thick which lie between the 150-foot (45.72m) overburden isopach and a depth of 3,000 feet (914.4m) and dip either from 15° to 35°, regardless of tonnage or from 35° to 90° in areas with less than 50 million tons of bituminous coal in a single unfaulted bed or multiple, closely spaced, approximately parallel beds.

✱ Areas which have coal-development potential for both subsurface mining and in-situ gasification methods are shown with both the appropriate high, moderate, or low subsurface potential pattern and an ✱ located at the center of the smallest legal land subdivision or approximate 40-acre parcel.

NOTE: Any lot or tract assigned coal-development potential meets the appropriate parameters outlined above and implicitly contains coal in beds with a nominal minimum areal extent of 1 acre.

SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

GN MN 1°28' 26 MILS 7° 124 MILS

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.

PLATE 19

COAL DEVELOPMENT POTENTIAL MAP FOR SUBSURFACE MINING METHODS AND IN-SITU COAL GASIFICATION METHODS

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

COMPILED IN 1980

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

This map intended for land-use planning purposes only.