UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HACKETT QUADRANGLE
ARKANSAS–OKLAHOMA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 GREENWOOD 15' QUADRANGLE

SURFACE DATA SOURCE

Refer to Appendix I for point to point subsurface data sources.

HALEY, B. R., AND HENDRICKS, T. A., 1968
KNECHTEL, M. M., 1949; AGBE-DAVIES, V. F., 1978;
THOM, W. T., 1935
HENDRICKS, T. A., AND PARKS, B., 1950

SURFACE DATA RELIABILITY

Refer to Appendix I for point to point subsurface data reliability

M- MEDIUM, detailed mapped prior to modern topographic base map.

94°30′ 27′30″ 25′ 94°22′30″ 35°15′

R. 26 E. R. 27 E. R. 32 W.

T. 9 N.
T. 8 N.
T. 7 N.
T. 6 N.
T. 5 N.

CENTRAL SYNCLINE

BACKBONE ANTICLINE AND FAULT ZONE

(LH- HALEY & HENDRICKS, 1968)

REEVES COAL CO. (UH)(LH)

JAMES FORK (GREENWOOD) SYNCLINE

GREENWOOD SYNCLINE

JAMES FORK SYNCLINE

35°07′30″ 27′30″ (HARTFORD) 7154 III SW R. 27 E. R. 32 W. 25 35°07′30″

SCALE 1:24000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 5 0 1 KILOMETER

UTM GRID AND 1978 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
GN MN 0°50′ 15 MILS 6½° 116 MILS

ARKANSAS
QUADRANGLE LOCATION

EXPLANATION

GL 548.1
R 280
CE 2(UM)
R 58
CE 3(LM)
R 1128
*--- (SS)
R 1+
TD 10,528

- Location or drilling well
- Dry Hole
- Gas Well
- Oil Well
- Oil & Gas Well
- Abandoned Oil Well
- Abandoned Gas Well

WELL SYMBOLS

WELL LOGS - Showing well data in feet. Letters designate either the coal bed name as listed below, or the top of the Hartshorne sandstone formation reference datum. * Indicates the suite of logs was insufficient to verify coal occurrence. Index number refers to hole on Plate 3 of CRO map. Index number not assigned to wells for which logs of the first 3000 foot (914.4m.) interval were not available or logged interval began below the base of the Hartshorne sandstone. Refer to Appendix II for additional information concerning wells not indexed.

GL 915.0
R 845.0
C 1.0(L)
R 115.0
C 1.2(L)
R 289.8
C 7.0(UH)
R 37.0
TD 1296

COAL TEST HOLE - Showing drill-hole data in feet. Letters designate name of of coal bed as listed below. Index number refers to hole on plate 3 of CRO map.

NR 1+
C 4.8(LH)
NR 1+

COMPOSITE MINE SECTION - Abandoned mine, showing rock interval and thickness of coal, in feet. Letters and numbers designate name of coal bed as listed below. Index number refers to section on Plate 3 of CRO map.

Tabulation of Rock-Coal intervals shown on Plate 1, Sheet 2

GL - Ground level elevation
R - Rock interval
C - Coal interval (measured)
CE - Gross Coal interval (estimated from well log)
M - Mixed Coal & Rock
B - Bone Coal
NR - No record of lithology
NRE - No record of lithology, thickness estimated
TD - Total depth

NOTE: Thickness reported to tenths of feet only when resolution of data permitted

DRILL HOLE, MEASURED SECTION, AND COMPOSITE MEASURED SECTION DATA SYMBOLS.

L Local (unnamed) coal bed
UH Upper Hartshorne Coal
LH Lower Hartshorne Coal
H Hartshorne Coal

COAL BED SYMBOLS AND NAMES

TRACE OF COAL BED OUTCROP - Showing thickness of coal in feet, measured at triangle. Letters designate name of coal bed as listed above. Arrow points toward the coal bearing area. Index number refers to section on Plate 3 of CRO map. Dotted line indicates outcrop covered by Quaternary Alluvium. Dashed line indicates inferred outcrop. Contacts have been adjusted to reflect topography.

ANTICLINE
SYNCLINE

Strike and dip; ⊥ 28°; Vertical ⊣ 90°; Horizontal ⊕ 0°; Overturned ⊣ 78°

FAULT- Dashed where approximately located. Thrust faults have sawteeth on upthrown or overthrust side. Normal faults have bar and ball on downthrown side. Strike-slip faults have arrows showing relative horizontal movement.

- Coal mine active
- Coal mine, inactive or abandoned
- Slope entry, inactive or abandoned
- Prospect pit

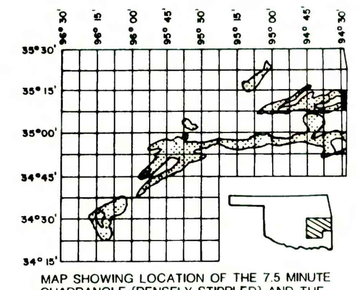
BUCK #1 (LM) — Subsurface coal mine showing name of mine and beds removed, hachures point to mined-out-areas. Letters designate names of coal beds as listed above. Boundary is approximately located.

(UM) — Surface coal mine showing name of beds removed. Letters designate names of coal beds as listed above. Boundary is approximately located.

COAL MINE SYMBOLS

To convert feet to meters, multiply feet by 0.3048.

NOTE: The explanation has been compiled to depict all possible combinations of data and does not intentionally represent any particular data points.



MAP SHOWING LOCATION OF THE 7.5 MINUTE QUADRANGLE (DENSELY STIPPLED) AND THE FEDERAL COAL LANDS (LIGHTLY STIPPLED) IN SOUTHEASTERN OKLAHOMA

This report has not been edited for conformity with Geological Survey editorial standards or stratigraphic nomenclature.

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COMPILED IN 1980
This map intended for land-use planning purposes only

FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE HACKETT 7.5-MINUTE QUADRANGLE, LEFLORE COUNTY, OKLAHOMA AND SEBASTIAN COUNTY, ARKANSAS

BY GEOLOGICAL SERVICES OF TULSA, INC., B. T. BRADY, USGS, AND J. L. QUERRY, BLM

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PLATE 1
COAL DATA MAP
SHEET 1 OF 2