SURFACE DATA SOURCE

1 & 2

Refer To Table 4 For Point By Point Subsurface Data Source

1. OAKES, M. C. & KNECHTEL, M. M., 1948

2. KARVELOT, M.D., 1972

SURFACE DATA RELIABILITY

M

Refer To Table 4 For Point By Point Subsurface Data Reliability

M – MEDIUM, Detailed Mapping, Prior To Modern Topographic Base Map

OPEN-FILE REPORT 79-307

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STIGLER EAST QUADRANGLE
OKLAHOMA
7.5 MINUTE SERIES (TOPOGRAPHIC)

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 feet (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(LJ
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.

R 1+
C 2.3(UM)
R 65.0
C 3.8 (LM)
R 1+

LINE OF MEASURED SECTION - Showing coal and rock thickness, in feet. Letters and numbers designate name of coal bed as listed below. Index number refers to section on Plate 3 of CRO map.

- Dashed index symbols indicate location of record elsewhere
- 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
- SE Secor Coal
- UM Upper McAlester (Stigler rider) Coal
- ST Stigler (Lower McAlester) Coal
- UH Upper Hartshorne Coal
- LH Lower Hartshorne Coal
- H Hartshorne Coal

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. Dashed line indicates inferred outcrop. Contacts have been adjusted to reflect topography.

ANTICLINE
SYNCLINE

Strike and dip: 28°; Vertical 90°; Horizontal 0°; Overturned 78°

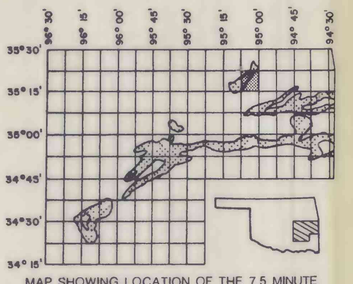
FAULT - Dashed where approximately located. Thrust faults have sawteeth on upthrown or overthrust side. Normal faults have bar and ball on downthrown side. Strike-slip faults have arrows showing relative horizontal movement.

- 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.

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1958. Field checked 1962

Polyconic projection. 1927 North American datum
10,000-foot grid based on Oklahoma coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1962 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND BY THE OKLAHOMA GEOLOGICAL SURVEY, NORMAN, OKLAHOMA 73069
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
State Route

STIGLER EAST, OKLA.
N3515—W9500/7.5
1962
AMS 6954 I SE—SERIES V883

This map intended for land-use planning purposes only.

COMPILED IN 1980

FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE STIGLER EAST 7.5-MINUTE QUADRANGLE, HASKELL AND MUSKOGEE COUNTIES, OKLAHOMA

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

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 1
COAL DATA MAP