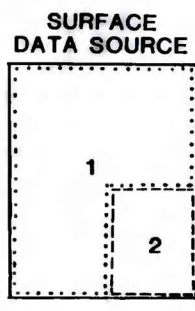
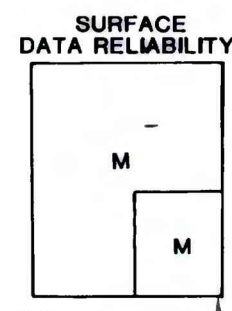


UNITED STATES
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GEOLOGICAL SURVEY



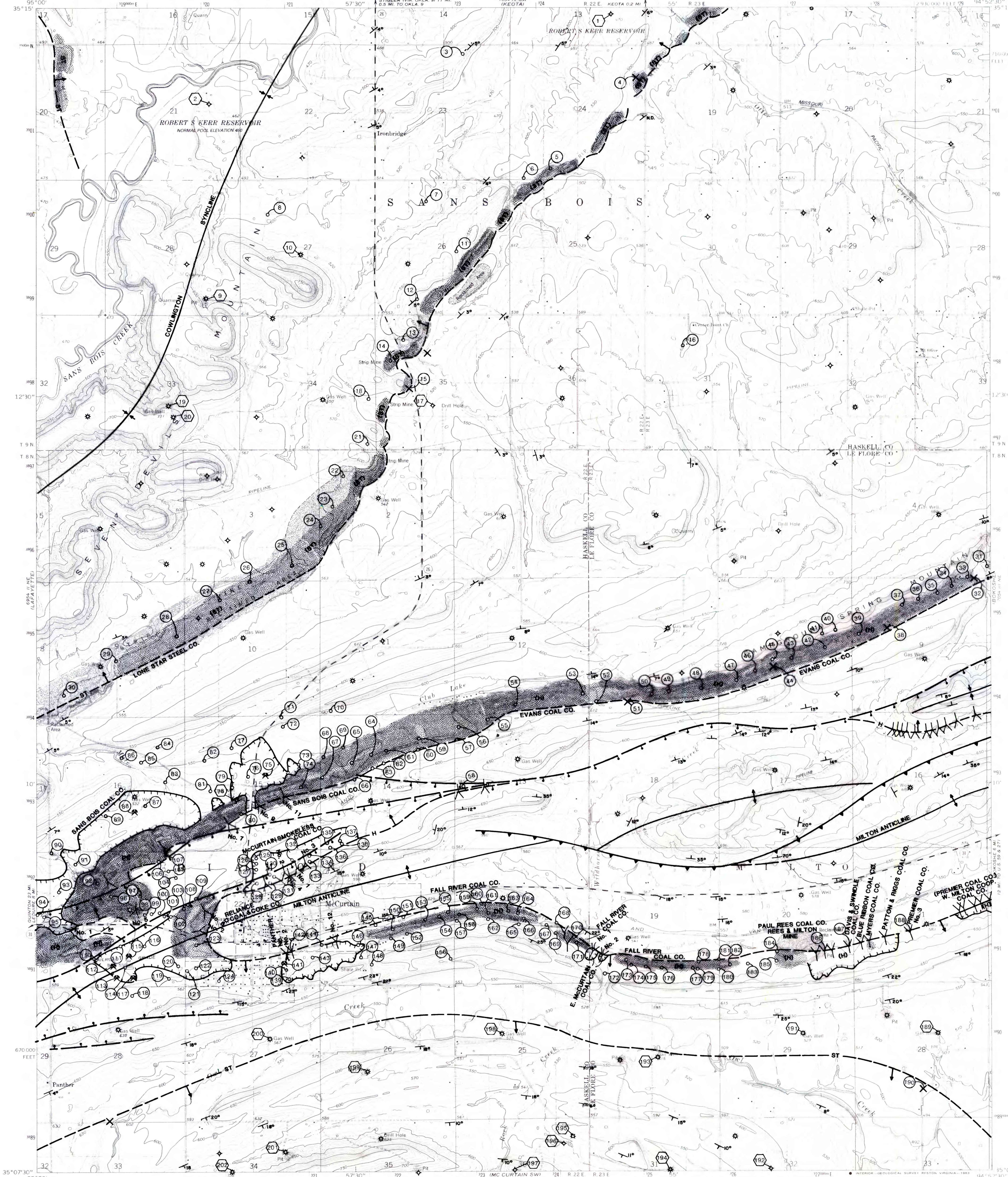
Refer to Appendix I for point by point surface data source
1. OAKES, M. M., & KNECHTEL, M. M., 1948
2. KNECHTEL, M. M., 1949



Refer to Appendix I for a point by point subsurface data reliability
M-MEDIUM, detailed mapping, prior to modern topographic base map

MCCURTAIN QUADRANGLE
OKLAHOMA
7.5 MINUTE SERIES (TOPOGRAPHIC)

ROBERT S. KERR RESERVOIR



- EXPLANATION**
- 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.

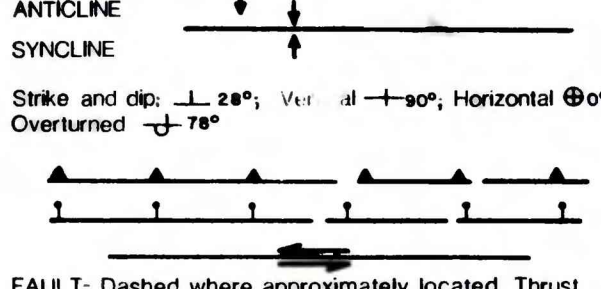
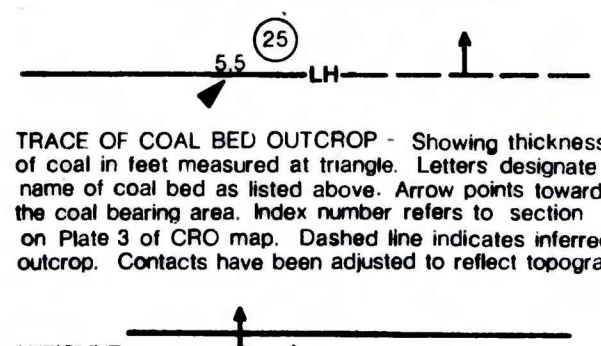
- WELL LOGS**
- GL 915.0
 - R 845.0
 - C 100(L)
 - R 115.0
 - C 12(L)
 - R 289.8
 - C 70(UH)
 - R 37.0
 - TD 10,528

- COAL TEST HOLE** - Showing drill-hole data in feet. Letters designate name of coal bed as listed below. Index number refers to hole on plate 3 of CRO map.
- 12 →, 12 X, or 12
- NR 1*
 - 4.8(LH)
 - NR

- 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 in tenths of feet only when resolution of data permitted.

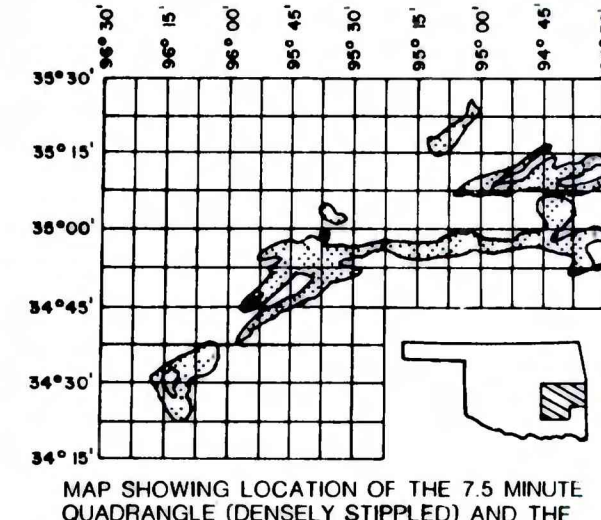
- DRILL HOLE, MEASURED SECTION, AND COMPOSITE MEASURED SECTION DATA SYMBOLS**
- L Local (unnamed) coal bed
 - SE Secor Coal
 - UM Upper McAlester (Stigler rider) Coal
 - ST Stigler (Lower McAlester) Coal
 - UH Upper Hartshorne Coal
 - LH Lower Hartshorne Coal
 - H Hartshorne Coal
- COAL BED SYMBOLS AND NAMES**



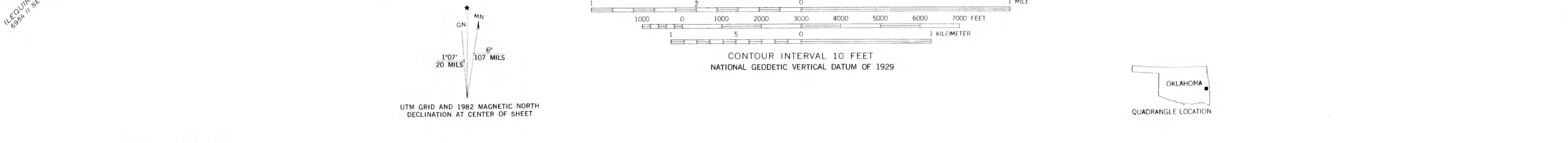
- FAULT** - Dashed where approximately located. Thrust faults have sawtooth on upthrown or overthrust side. Normal faults have bar and ball on downthrown side. Strike-slip faults have arrows showing relative horizontal movement.
- Coal mine, active
 - Coal mine, inactive or abandoned
 - Slope entry, inactive or abandoned
 - Prospect pit

- BUCK #1 (LM)**
- Subsurface coal mine showing name of mine and beds removed. Letters designate names of coal beds as listed above. Boundary is approximately located.
- (LUM)**
- 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.



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 MC CURTAIN 7.5-MINUTE QUADRANGLE, HASKELL AND LEFLORE COUNTIES, OKLAHOMA
BY GEOLOGICAL SERVICES OF TULSA, INC., B. T. BRADY, USGS, AND J. L. QUERRY, BLM