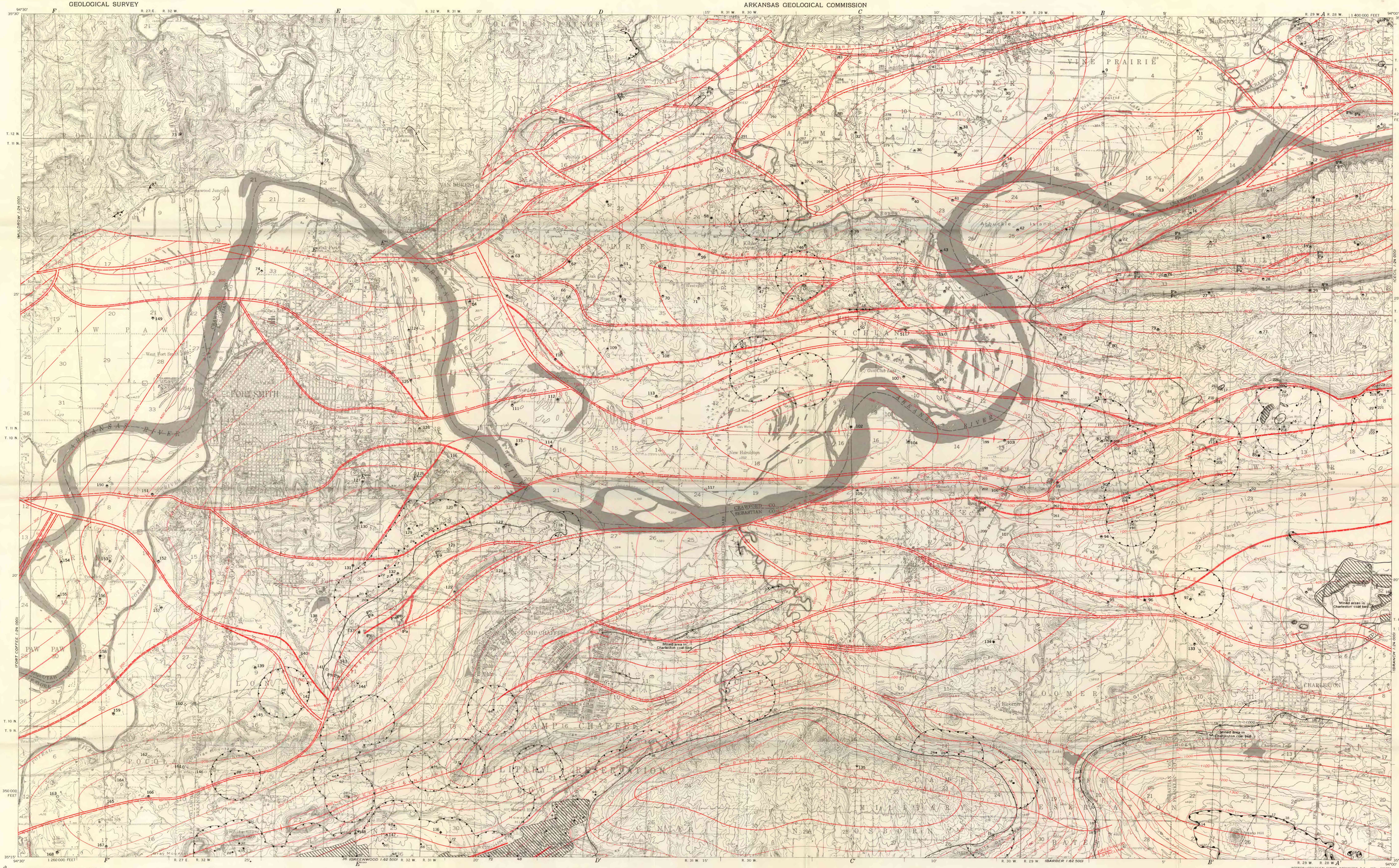
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ARKANSAS GEOLOGICAL COMMISSION



STRUCTURE-CONTOUR AND COAL-BED MAP OF VAN BUREN AND LAVACA QUADRANGLES, ARKANSAS AND OKLAHOMA

Base from U.S. Geological Survey, 1:62 500
10,000-foot grids based on Arkansas coordinate system, north zone

SCALE 1:48 000

1 ½ 0 1 2 3 MILES

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1971—G6393

Geology by T. A. Hendricks, 1934, and B. R. Haley, 1960–61

PROFESSIONAL PAPER 657-A
PLATE 5

EXPLANATION

Symbols in red indicate data on contoured horizon

500
Structure contours
Drawn on base of Hartshorne Sandstone. Dashed where datum is eroded. Contour interval 100 feet

Anticline
Showing trace of axial plane

Syncline
Showing trace of axial plane

U D
Traces of normal fault
Dashed on downthrown block. U, upthrown side; D, downthrown side

Ph Pa
Surface trace of contact between Hartshorne Sandstone (Ph) and Atoka Formation (Pa)

A A'
Structural section shown on plate 6

Paris coal bed

Unnamed coal bed in Savanna Formation

Charleston coal bed

Unnamed coal bed in McAlester Formation

Lower Hartshorne coal bed

Unnamed coal bed in Atoka Formation

x3
Exposure of coal
Number is thickness of coal, in inches

18
Surface opening on coal bed
Number is thickness of coal, in inches

42
Drill hole or mine locality
Number is thickness of coal, in inches

Mine shaft to coal bed

Mined area in Lower Hartshorne coal bed, except where labeled otherwise

42
Lower Hartshorne coal-bed thickness line
Number is thickness of coal, in inches

Boundary in Lower Hartshorne coal between measured and indicated reserves and inferred reserves of coal
Squares within area of measured and indicated reserves of coal

212
Shallow hole
Drilled by Gulf Oil Corp.

WELL SYMBOLS

Number designates well listed in table 3 in text and pertains to wells drilled since 1936

3
Gas producing

23
Reported show of gas

118
No reported show of gas

1
Being drilled as of Sept. 30, 1966

92
Electrical log was available, as of Sept. 30, 1966, to the authors of this report

144
Rock samples were examined and logged by a geologist of the U.S. Geological Survey

INDEX SHOWING LOCATION OF QUADRANGLES