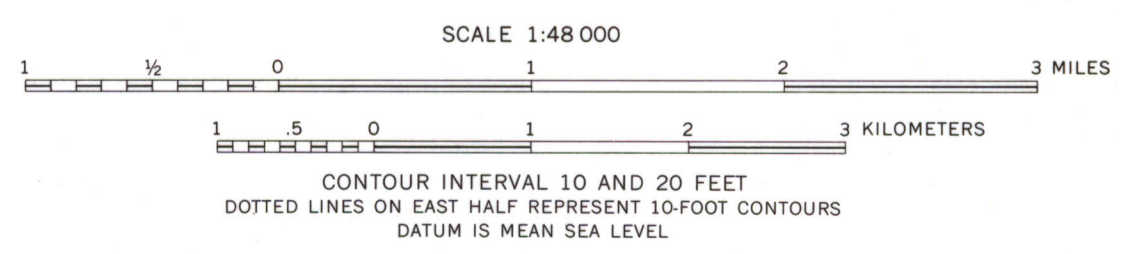


- EXPLANATION**
- Symbols in red indicate data on contoured horizon
- 500 -----  
Structure contours  
Drawn on base of Hartshorne Sandstone. Dashed where datum is eroded. Contour interval 100 feet
- +----- Anticline  
-----+----- Syncline  
Folds  
Showing trace of axial plane
- U-----  
-----D----- Fault  
U, upthrown side; D, downthrown side; dashed on downthrown block
- Ph-----  
-----IPa----- Surface trace of contact between Hartshorne Sandstone (Ph) and Atoka Formation (IPa)
- A-----A'-----  
Structural section shown on plate 3
- Unnamed coal bed in Savanna Formation  
----- Unnamed coal bed in McAlester Formation
- Lower Hartshorne coal bed  
x5 Exposure of coal  
Number is thickness of coal, in inches  
17 Surface opening on coal bed  
Number is thickness of coal, in inches
- Mine shaft  
x Quarry  
x Gravel pit  
• 18 Drill hole in Lower Hartshorne coal bed  
Number is thickness of coal, in inches; the words "thin coal" are as reported in drill records
- 14 -----  
Lower Hartshorne coal thickness line  
Number is thickness of coal, in inches
- 1000 -----  
Lower Hartshorne coal bed overburden thickness line  
Number is thickness of overburden, in feet
- Boundary between measured and indicated reserves and inferred reserves of coal  
Square on side of area of measured and indicated reserves of coal
- ☆ 3 ☆ 4 ☆ 7  
Gas producing Show of gas No show of gas
- Wells  
Number designates well listed in table 3 in text
- Gas field

**STRUCTURE CONTOUR, COAL BED, AND GAS FIELD MAP OF SCRANTON AND NEW BLAINE QUADRANGLES, LOGAN AND JOHNSON COUNTIES, ARKANSAS**



COAL HILL 1:24 000  
93°37'30" 35°22'30"  
R. 25 W. R. 24 W. A 35' (HARTMAN 1:24 000) 32'30" B 30' R. 24 W. R. 23 W. 27'30" C (CLARKSVILLE 1:24 000) 25' R. 23 W. R. 22 W. D 93°22'30" 35°22'30"  
T. 8 N. T. 7 N. 17'30" 35°15' 93°37'30" R. 25 W. R. 24 W. A' 35' (MAGAZINE MOUNTAIN NE 1:24 000) 32'30" B' 30' R. 24 W. R. 23 W. 27'30" C' (DARDANELLE 1:125 000) 25' R. 23 W. R. 22 W. 93°22'30" 35°15' 93°37'30" 30' 93°22'30"  
Base from U.S. Geological Survey, 1:24,000  
TRUE NORTH  
MAGNETIC NORTH  
APPROXIMATE MEAN DECLINATION, 1968  
BLUE MOUNTAIN 1:24 000  
IDELAWARE 1:24 000  
KNOXVILLE 1:24 000  
IDELAWARE 1:24 000  
DARDANELLE 1:125 000  
INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1968—688092  
Geology by Boyd R. Haley, 1957-58

