

**REMARKS:**  
 As part of a program to relieve the energy shortage, the Mississippi Geological Survey is continuing its efforts toward the understanding and discovery of those Mississippi oil and gas reserves believed to be present in Jurassic stratigraphic and lithologic facies and position zones.  
 This dip section is another attempt to emphasize the possibilities for major producing trends which could continue for miles and be at depths within economic reason.  
 The cross section was also designed to clarify, for practical reasons, the controversial "Top Haynesville" datum.  
 To dip the Haynesville is often identified with the first appearance of limestone in the lower portion of the Cotton Valley. The usual practice, however, is to place the top of the Haynesville at the base of the Cotton Valley sandstone series. Some dip and/or basement, the Top Haynesville point may represent a transition lithology, higher in the section, and correlative with its Cotton Valley time equivalent.  
 Because of the varied Mississippi relationships between the Haynesville and Buckner facies, the Haynesville formation was arbitrarily subdivided into three identifiable units ("Upper", "Middle", and "Lower") for easy stratigraphic recognition. The correlation information was derived from available sources including electrical logs and sample examination of the individual wells. Sample information was given or absent in part.  
 For the purpose of this study, existing Jurassic faults between wells were not shown; e. g. the Quitman fault zone.  
 The Louann Salt interval portrayed on the cross section does not necessarily represent the actual thickness or configuration of the salt.  
 The undifferentiated Paleozoic lithology and thickness are based on scattered control and subject to possible error.

**NORTHEAST - SOUTHWEST  
 STRATIGRAPHIC CROSS SECTION OF THE JURASSIC SEDIMENTS  
 CHOCTAW COUNTY, ALABAMA TO CLARKE COUNTY, MISSISSIPPI  
 GEOLOGY BY VICTOR N. FISCHER**

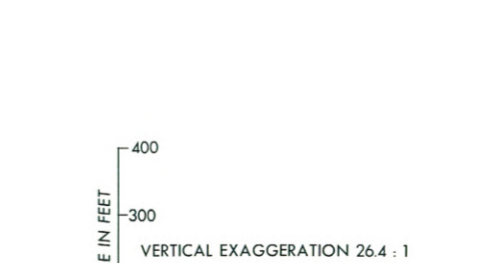
**MISSISSIPPI GEOLOGICAL SURVEY  
 WILLIAM H. MOORE, DIRECTOR AND STATE GEOLOGIST  
 JACKSON, MISSISSIPPI**

**STRATIGRAPHIC COLUMN OF CROSS SECTION**

- SYSTEM - LOWER CRETACEOUS
  - GROUP - HAYNEV LEON
  - FORMATION - HOBSTON
- SYSTEM - JURASSIC
  - GROUP - COTTON VALLEY
    - FORMATION - SCHILLER
    - MEMBER - DORCHEAT
    - MEMBER - SHONGALOO
  - GROUP - LOUIARK
    - FORMATION - HAYNESVILLE
    - MEMBER - HAYNESVILLE FACIES
    - MEMBER - BUCKNER FACIES
  - FORMATION - SMACKOVER
    - MEMBER - UPPER SMACKOVER LIMESTONE
    - MEMBER - LOWER SMACKOVER LIMESTONE
    - MEMBER - "BROWN DENSE LIMESTONE"
    - MEMBER - LOWER SMACKOVER SANDSTONE
  - FORMATION - NORPHLET
  - GROUP - LOUANN
    - FORMATION - LOUANN SALT
    - MEMBER - WERNER ANHYDRITE AND CONGLOMERATE
- SYSTEM - TRIASSIC
  - GROUP -
    - FORMATION - EAGLEMILLS
- SYSTEMS - PALEOZOIC ERA UNDIFFERENTIATED

- INEXCO OIL CO. COMPANY NAME
- No. 1 Masonite 15 - 11 FARM NAME
- Oil Well
- ABANDONED OIL WELL
- DRY HOLE
- PRODUCING ZONE (JURASSIC)
- ABANDONED PRODUCING ZONE
- UNCONFORMITY
- FAULT
- NO SAMPLES

DATUM LEVEL  
 TOP OF COTTON VALLEY  
 ACTUAL DEPTH - 10,630  
 SUB SEA DEPTH - 10,419



- DOMINANT LITHOLOGY**
- ANHYDRITE
  - DOLOMITE
  - LIMESTONE
  - SALT
  - SANDSTONE (SILTSTONE IN PART)
  - RED SANDSTONE (RED, PINK & WHITE MIXED)
  - RED SHALE
  - VARI-COLORED SHALE & MUDSTONE (WITH SOME MODULAR LIMESTONE)
  - SHALE (MUDSTONE) OTHER THAN RED OR VARI-COLORED

- ADMIXTURES, THIN BEDS, MINOR ELEMENTS**
- ANHYDRITIC
  - DOLOMITIC
  - CALCARIOUS
  - SANDY (BENT)
  - SHALY
  - CHERTY
  - CONGLOMERATIC
  - METALIC
  - ODOLITHIC
  - PSUDOLITHIC (IN PART)

