



REMARKS:
 In view of the increasing energy shortage, the Mississippi Geological Survey is attempting to better define and locate the areas of undiscovered oil and gas reserves believed to be present in stratigraphic and tectonic facies and structural traps.
 This dip section was designed to illustrate that the Jurassic sediments have the thickness for trap production and can be traced in sufficient detail to locate prospective source producing trends which could contain the oils.
 The combined information was derived from available sources including stratigraphic logs and sample examinations of the individual wells.
 For the purpose of the study, existing faults between wells were not shown. Because of the varied Mississippi stratigraphy between the Haynesville and Buckner facies, the Haynesville formation was subdivided into three identifiable units ("Upper", "Middle", and "Lower") for easy stratigraphic recognition.
 The Lower Salt interval presented on the cross section does not necessarily represent the actual thickness or configuration of the salt.
 The present Paleozoic ("Ordovician-Cambrian" - "Ordovician") lithology and thickness are based on a contour control and subject to possible error.

UPPER CASE LETTERS INDICATE THE STRATIGRAPHIC UNITS.
 LOWER CASE LETTERS INDICATE ROCK STRATIGRAPHIC UNITS.
 OPENINGS ON LABELS OR ARROWS SHOW UNITS TO WHICH LABELS APPLY.

NORTHEAST - SOUTHWEST
 STRATIGRAPHIC CROSS SECTION OF THE JURASSIC SEDIMENTS
 NEWTON COUNTY TO JASPER COUNTY, MISSISSIPPI
 GEOLOGY BY VICTOR N. FISCHER

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- STRATIGRAPHIC COLUMN OF CROSS SECTION**
- SYSTEM - LOWER CRETACEOUS
 - GROUP - NUEVO LEON
 - FORMATION - HOUSTON
 - SYSTEM - JURASSIC
 - GROUP - COTTON VALLEY
 - FORMATION - SCHUBER
 - MEMBER - DORCHEAT
 - MEMBER - SHONGALOO
 - GROUP - LOUARK
 - FORMATION - HAYNESVILLE FACIES
 - BUCKNER FACIES
 - FORMATION - SMACKOVER
 - MEMBER - UPPER SMACKOVER LIMESTONE
 - MEMBER - LOWER SMACKOVER LIMESTONE ("BROWN DESIRE LIMESTONE")
 - MEMBER - LOWER SMACKOVER SANDSTONE
 - FORMATION - HOBRPLET
 - FORMATION - LOUANN SALT
 - MEMBER - ANHYDRITE AND CONGLOMERATE
 - SYSTEM - TRIASSIC
 - GROUP -
 - FORMATION - EAGLE MILLS
 - SYSTEM - CAMBRO - ORDOVICIAN UNDIFFERENTIATED
- DOMINANT LITHOLOGY**
- ANHYDRITE
 - DOLOMITE
 - LIMESTONE
 - SALT
 - SANDSTONE
 - LIMESTONE IN PARTS
 - RED SANDSTONE
 - RED, PINK & WHITE MIXED
 - RED SHALE
 - VARI-COLORED SHALE & MUDSTONE (WITH SOME NODULAR LIMESTONE)
 - SHALE (AUSTONIENS OTHER THAN RED OR VARI-COLORED)
- ADMIXTURES, THIN BEDS, MINOR ELEMENTS**
- ANHYDRITE
 - DOLOMITE
 - CALCAREOUS
 - SANDY BELTS
 - SHALY
 - CHERT
 - CONGLOMERATE
- DATUM LEVEL: TOP OF COTTON VALLEY
 ACTUAL DEPTH: 10,795
 SUB SEA DEPTH: 10,272
- VERTICAL EXAGGERATION 20:1
 HORIZONTAL SCALE IN FEET

