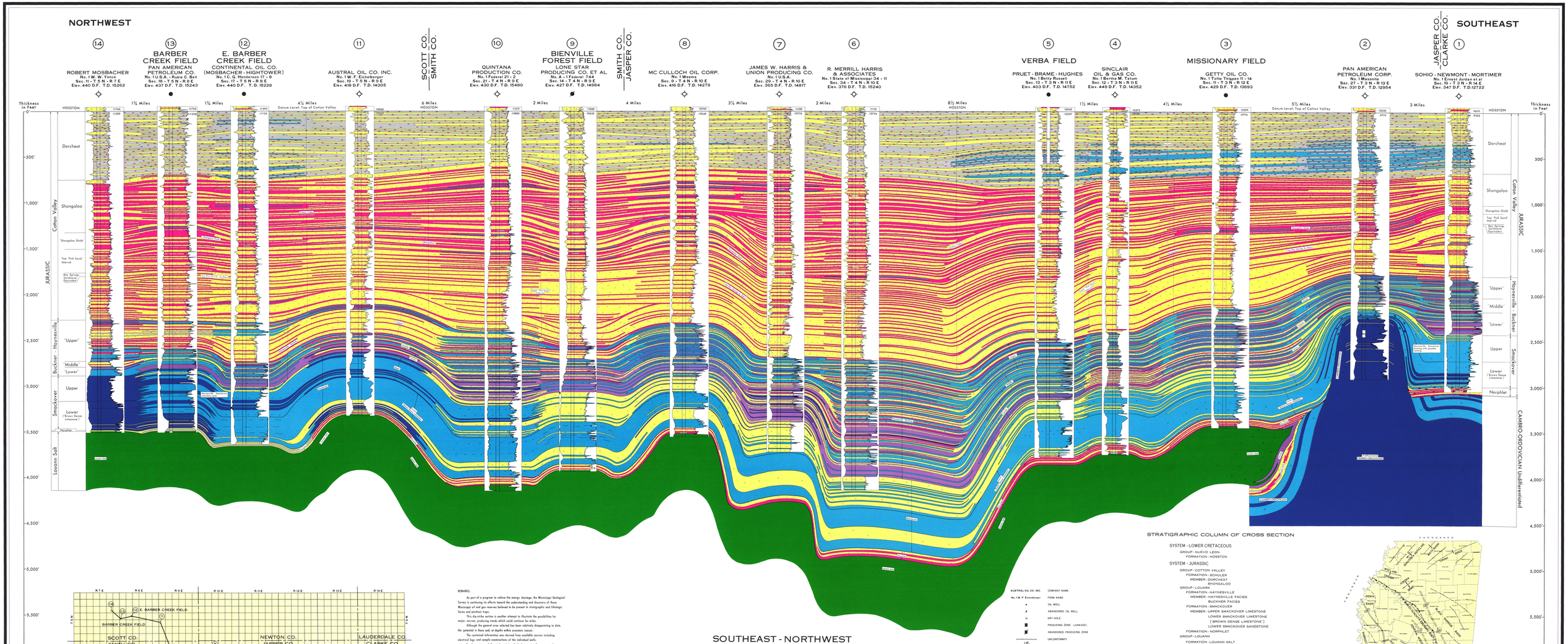

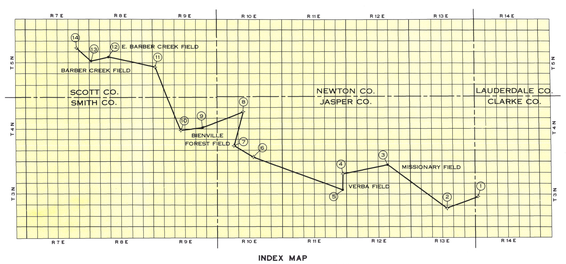

REMARKS.

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 stratigraphic and lithologic facies and pinchout traps.

This dip-strike section is another attempt to illustrate the possibilities for major, narrow, producing trends which could continue for miles.

Although the general area selected has been relatively disappointing to date, the potential is there and, at depths within economic reason.

The combined information was derived from available sources including electrical 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 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 Louann Salt interval portrayed on the cross section does not necessarily represent the actual thickness or configuration of the salt.

The presented Paleozoic ('Undifferentiated Cambro - Ordovician') lithology and thicknesses are based on scattered control and subject to possible error.

JURASSIC | Haynesville | Smackover

UPPER CASE LETTERS INDICATE THIS STRATIGRAPHIC UNITS.
LOWER CASE LETTERS INDICATE ROCK-STRATIGRAPHIC UNITS.

OPENINGS ON LABELS (OR ARROWS) SHOW UNITS TO WHICH LABELS APPLY.

SOUTHEAST - NORTHWEST
STRATIGRAPHIC CROSS SECTION OF THE JURASSIC SEDIMENTS
CLARKE COUNTY TO SCOTT COUNTY, MISSISSIPPI

GEOLOGY BY VICTOR N. FISCHER

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

1976

AUSTRAL OIL CO. INC. — COMPANY NAME
No. 1 W. F. Eichelberger — 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 10,960
SUB SEA DEPTH -10,542

VERTICAL SCALE IN FEET
400
200
100
0
1
2
VERTICAL EXAGGERATION 2¼ : 1
HORIZONTAL SCALE IN MILES

STRATIGRAPHIC COLUMN OF CROSS SECTION

SYSTEM - LOWER CRETACEOUS
GROUP - NUEVO LEON
FORMATION - HOSSTON
SYSTEM - JURASSIC
GROUP - COTTON VALLEY
FORMATION - SCHULER
MEMBER - DORCHEAT
SHONGALOO
GROUP - LOUARK
FORMATION - HAYNESVILLE
MEMBER - HAYNESVILLE FACIES
BUCKNER FACIES
FORMATION - SMACKOVER
MEMBER - UPPER SMACKOVER LIMESTONE
LOWER SMACKOVER LIMESTONE
('BROWN DENSE LIMESTONE')
LOWER SMACKOVER SANDSTONE
FORMATION - NORPHLET
GROUP - LOUANN
FORMATION - LOUANN SALT
WERNER ANHYDRITE AND CONGLOMERATE
SYSTEM - TRIASSIC
GROUP -
FORMATION - EAGLE MILLS
SYSTEM - CAMBRO-ORDOVICIAN UNDIFFERENTIATED

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

ADMIXTURES, THIN BEDS, MINOR ELEMENTS
ANHYDRITIC
DOLOMITIC
CALCAREOUS
SANDY (SILTY)
SHALY
CHERTY
CONGLOMERATIC
DETRITAL