

NOON MEETING



The special noon meeting will be held at the Rice Hotel, September 28, 1970. Society member, Loren Good will present "A Reservoir Study of Friendswood Field." This paper was authored by E. A. Blair, B. R. Enquist, Jr., L. W. Good and E. C. Walton, Jr. of Humble Oil and Refining Company and will be presented at the October meeting of the AIME. Mr. Good's presentation will emphasize the geological aspects of the field.

TIME: Monday, September 28, 1970 - 12 Noon.
PLACE: Rice Hotel, Crystal and Trinity Rooms.
SUBJECT: "A Reservoir Study of Friendswood Field."
SPEAKER: Mr. Loren W. Good, Geologist, Humble Oil and Refining Company, Baytown, Texas.
COST: \$3.50

ABSTRACT

A Reservoir Study of the Friendswood Field

by

E. A. Blair, B. R. Enquist, Jr., L. W. Good, and E. C. Walton, Jr.
Humble Oil and Refining Company
Houston, Texas

A geologic and engineering study of the Friendswood field, located immediately south of Houston, has shown that significant increased oil reserves in the tens of millions of barrels can be realized by unitized projects designed to halt oil migration into the gas cap, increase oil recovery efficiency, and maintain reservoir pressure.

The study involved zoning the 700 feet of upper Frio oil and gas productive section, locating current fluid contacts, and then mapping oil and gas volumes in each zone at original and current conditions. Reservoir behavior was analyzed principally by material balance and unsteady state water influx calculations. The study showed that oil was being displaced into the gas cap on the east side by a strong water drive, while gas cap expansion, although 14 percent less efficient than water in displacing oil, is being experienced in several zones on the west side due to a limited water drive.

An interim gas injection project has been installed to stop oil migration. A water pressure maintenance program will be initiated as soon as unitization can be accomplished.

BIOGRAPHY - Loren W. Good received his B.S. degree from the University of Wyoming and was employed for two years by the U. S. Bureau of Mines in Laramie while completing a Masters degree in geology, which he received in 1960.

He was then employed by Humble Oil and Refining Company in Rawlins, Wyoming. Following exploration and production geological assignments in Salt Lake City, Utah and Tyler, Texas, he transferred to the Gulf Coast area where he is currently working with Humble's East Texas Division Major Fields Study Group in Baytown.

He is an active member of the American Association of Petroleum Geologists and the Houston Geological Society.