CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

February 13, 1953

Phillips Petroleum Company
301 Korber Building
Albuquerque, New Mexico

Attention: Mr. Val Reese

Subject: Core Analysis
Navajo No. 1 Well
Wildcat
San Juan County, New Mexico

Gentlemen:

Diamond conventional cores from the subject well in the Hermosa and Lower Mississippian formations have been sampled and quick-frozen by representatives of Core Laboratories, Inc. and Phillips Petroleum Company, and analyzed in our Farmington, New Mexico laboratory. Results of analysis are presented in tabular and graphical form on the attached Coregraph. Water base mud was used as the drilling fluid.

Hermosa formation analyzed from 6630 to 6636 feet is characterized by low matrix permeability; however, visual inspection of the cores indicated the presence of a vertical fracture system. Some volumes of gas might be produced through this fracture system after acidization or shooting with nitroglycerin.

Lower Mississippian analyzed from 8001 to 8006 feet is believed to be essentially nonproductive due to low permeability. Any fluid produced through the fracture system probably would be water.

Formation analyzed from 8103 to 8151 feet is believed to be primarily water productive. Some small volumes of gas might be produced with increasing volumes of water during the productive history.

We hope these data prove beneficial in the evaluation of this well.

Very truly yours,

Core Laboratories, Inc.

J D Harris (PE)
J. D. Harris,
District Engineer

JDH:ma

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