

BEST IMAGE
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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS 1, TEXAS



02433768

August 28, 1957

REPLY TO
4010 NORTH YOUNGS BOULEVARD
P. O. BOX 7128
OKLAHOMA CITY, OKLAHOMA

Vaughey & Vaughey
1650 Denver Club Building
Denver, Colorado

Subject: Core Analysis
Sidney No. 1 Well
Wildcat
Otero County, Colorado

Gentlemen:

Diamond coring equipment and water base mud were used to core portions of the formation penetrated in the subject well between 6179 and 6530 feet. Samples of recovered formation on which analysis was desired were selected by engineers of Core Laboratories, Inc. and by representatives of Vaughey & Vaughey, as indicated on the accompanying Completion Coregraph. All samples were either quick-frozen or preserved in plastic bags to preserve their fluid content. Portions of the cored interval so indicated on the Completion Coregraph were analyzed by whole-core procedures at the Oklahoma City laboratory using long segments of full-diameter core. The remaining formation was analyzed by conventional procedures at the Liberal laboratory. The results are presented in this report. Also included is a reduced-scale graphical presentation of the core analysis data to the scale of one inch equals twenty feet for your convenience in correlating core analysis data to electrical logging data.

Morrow formation analyzed from 6179 to 6181 feet exhibits very low permeability and porosity, and is considered to be of no productive significance.

Formation analyzed from 6389 to 6399 feet exhibits an absence of measurable residual oil saturation in association with high total water saturation, and is interpreted to be predominantly water productive.



Vaughey & Vaughey
Sidney No. 1 Well

Page Two

Two samples analyzed in the interval, 6405 to 6419 feet exhibit extremely low permeability and porosity, and are essentially impermeable and nonproductive.

The interval, 6438.0 to 6463.5 feet, analyzed by whole-core procedures, exhibits unfavorable residual liquid saturations, and is interpreted to be water productive at all permeable points.

Formation analyzed at various points between 6501 and 6530 feet exhibits very low permeability and porosity at most points analyzed in association with unfavorable residual liquid saturations and is considered to be of no commercial significance in this well.

We sincerely appreciate this opportunity to be of service to you and trust that the information furnished in this report will prove useful in making a preliminary evaluation of the formations analyzed from this well.

Very truly yours,

Core Laboratories, Inc.

J W Barbour Jr (P.E.)
J. W. Barbour, Jr.,
District Manager

JWB:JDJ:ds

9 cc. - Addressee

1 cc. - C. R. Neal

Denver 8, Colorado