



CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

June 13, 1958

REPLY TO

706 PATTERSON BLDG.
DENVER, COLORADO

Champlin Oil & Refining Company
333 Logan Street
Denver 9, Colorado

Subject: Core Analysis
Champlin Oil & Refining Company and
Republic Natural Gas Company
C. L. Jolly No. 1-"B" Well
Ramp Field
Washington County, Colorado

Gentlemen:

Diamond coring equipment and water base mud were used to core the interval, 4964 to 4983 feet, in the C. L. Jolly No. 1-"B". A representative of the operators selected samples of recovered formation for analysis and submitted these samples to the Sterling laboratory. Complete analysis results are presented in this report. Since a complete description of the recovered formation was not submitted, the lithology shown on the accompanying Completion Coregraph has been taken from the analyzed samples only.

"J" sand analyzed from 4964 to 4968 feet is characterized by residual fluid saturations which are considered to be indicative of possible oil production. Those samples in this interval which are denoted by asterisks in the probable production column of the Completion Coregraph exhibit low residual oil saturation and high total water saturation, conditions which may be due to extreme flushing by the drilling fluid filtrate but which may also be indicative of a water cut to accompany production. The four feet in this interval have an average permeability of 53 millidarcys and a total observed natural productive capacity of 212 millidarcy-feet. The average measured porosity is 17.9 per cent and the average calculated connate water saturation is 52 per cent of pore space.

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Champlin Oil & Refining Company
C. L. Jolly No. 1-"B" Well

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As an aid to evaluation, estimates of recoverable oil have been calculated for the "J" sand interval, 4964 to 4968 feet, using the observed core analysis data and estimated reservoir fluid characteristics considered applicable. These estimates are presented on page one of this report and, in view of the substantial water cut which may accompany production from this interval, your attention is respectfully directed to the conditions which are set forth in the body of and in the footnotes to the summary page.

The sample analyzed at 4982 to 4983 feet exhibits an absence of measurable residual oil saturation and high total water saturation and is interpreted to be water productive.

We sincerely appreciate this opportunity to be of service and trust that this report will assist the preliminary evaluation of the "J" sand analyzed from the C. L. Jolly No. 1-"B".

Very truly yours,

Core Laboratories, Inc.

J. D. Harris (R)

J. D. Harris,
District Manager

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