

Special Core Analysis Study

for

COLUMBIA GAS DEVELOPMENT OF CANADA LTD.

Columbia, et al., Kotaneelee YT E-37 Well
Nahanni Formation
Yukon, Canada

**DEPARTMENT OF INDIAN
& NORTHERN AFFAIRS**
Regional Conservation Engineer

JUL 2 1980

Northern Natural Resources
& Environment Branch

CORE LABORATORIES, INC.

Special Core Analysis



June 10, 1980

Columbia Gas Development of Canada Ltd.
1000 Standard Life Building
639 Fifth Avenue S.W.
Calgary, Alberta T2P 0M9

Attention: Mr. James B. McDonald

Subject: Special Core Analysis Study
Columbia, et al., Kotaneelee YT E-37 Well
Nahanni Formation
Kotaneelee Field
Yukon, Canada
File Number: SCAL-79026-S

Gentlemen:

On January 22, 1979, the Special Core Analysis Department of Core Laboratories, Inc., at Dallas, Texas, received ten previously prepared core plugs with a request that five Air-Brine Centrifuge Capillary Pressure Tests and five Steady-State Room Condition Water-Gas Relative Permeability Tests be performed. In preparation for these tests, air permeability and Boyle's Law porosity were determined on each clean core plug. Unfortunately, the core plugs were found to be unsuitable for these tests due to insufficient porosity. The study has therefore been canceled. Data from the air permeability and porosity determinations are herewith submitted on Page 1.

It has been a pleasure working with Columbia Gas Development of Canada, Ltd. If we can be of any further assistance, please do not hesitate to contact us.

Very truly yours,

Core Laboratories, Inc.

A handwritten signature in cursive script that reads "Catherine A. Dottle". The signature is written in dark ink and is positioned above the typed name and title.

Catherine A. Dottle
for Duane L. Archer, Manager
Special Core Analysis

CAD:mc

7 cc. - Addressee

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS 75247

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Air Permeability and Porosity

<u>Sample Number</u>	<u>Depth, Metres</u>	<u>Air Permeability, Millidarcies</u>	<u>Porosity, Fraction</u>
870-8A	3903.5	8.2	0.030
870-8B	3903.5	26	0.018
870-33AL	3911.7	5.0	0.017
870-66	3921.9	7.6	0.017
870-77	3925.1	14	0.028
870-89	3928.6	3.0	0.014
870-189	4007.0	3.3	0.015
870-221A	4015.2	4.4	0.025
870-227B	4016.4	4.7	0.015
870-228BL	4016.7	19	0.016