

45-1-4-111

Middle-Upper Devonian - Cretaceous
in the Mountain River, Norman Wells
and Great Bear Plain Areas
Final Report on 1970 Geological
Field Party in the N.W.T.
June 5 - July 15, 1970
Government Project 45-1-4-70-6

EXPLORATION PROGRESS REPORT

Middle-Upper Devonian - Cretaceous in the Mountain River,
Norman Wells and Great Bear Plain areas

This report covers work by Chevron Standard Limited during the period of June 5 to July 15, 1970. This report is submitted in support of application for work credits. This application is Government Project Number 45-1-4-70-6 in your files, and Group 203.

R. P. Schreiner
Report prepared by: R. P. Schreiner

under direct supervision of
H. R. Novak, P. Geol. (Alberta)

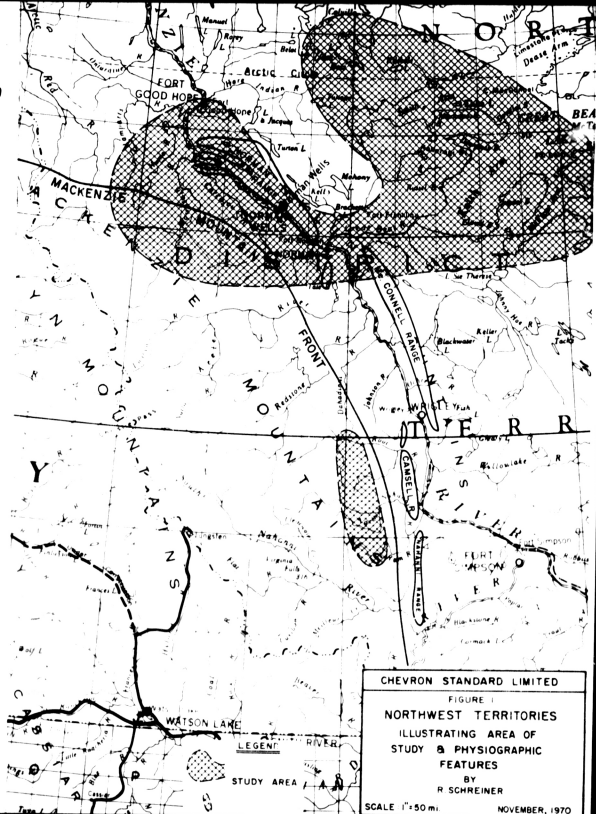
H. R. Novak

ILLUSTRATIONS

- Figures:**
1. Area of study and physiographic features.
 2. Devonian age conclusions in the Northwest Territories.
 3. Detailed Devonian stratigraphy at Powell Creek (40 miles SW of Norman Wells).

- Plates:**
1. Area covered by 1970 field party (N.W.T. and N.E.B.C.).
 2. Mackenzie Mountains and Franklin Mountains areas; showing physiographic features and surface location of sections measured in 1970.

Section: A print of each of the measured sections is included with only one copy of this report.



SECTIONS

006010	006091
006012	006092
006013	006094
006015	006096
006016	006098
006020	006202
006021	006101
006022	006103
006023	006104
006024	006107
006025	006108
006026	006110
006031	006111
006035	006112
006036	006118
006076	006133
006083	006136
006084	006204
006085	006205
006088	

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Introduction

The 1970 field party used a contracted Hiller 12N helicopter and a float equipped, Chevron owned Turbo-Beaver for its transportation in the field. The party started in the Mountain River area, then moved east to Norman Wells and the Great Bear Plain, and then to the south as work progressed.

The geological field crew for the N.W.T. consisted of:

R. Schreiner	Party Chief
N. S. Walton	Palynologist
D. J. McIntyre	Palynologist
L. Dekker	Senior Assistant
R. Aithen	Senior Assistant
K. Bee	Student Geologist
D. Bottemley	Student Geologist
D. Christie	Student Geologist
W. Fille	Student Geologist

Geology

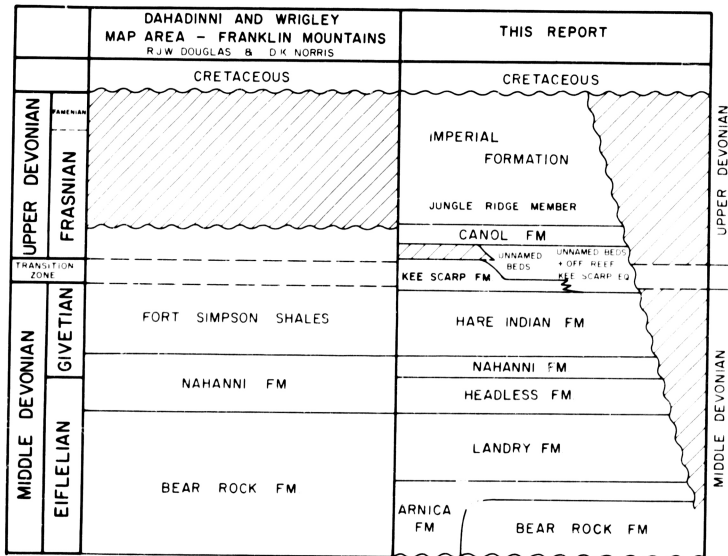
In the Mountain River - Norman Wells areas, the objective was to complete work started during the 1969 field party in the same area. In 1970 our efforts were concentrated on the Upper Devonian and the Cretaceous, often extending sections measured lower in the section in previous years.

In addition to this more detailed work was carried out on the Middle-Upper Devonian boundary around Powell Creek (figure 3).

In the Great Bear Plain, our objective was to map the Cretaceous beds overlying the Devonian. Especially in the Great Bear Plain, the outcrop is very sparse and most sections measured are incomplete. Nevertheless we hope that palynological analysis of the samples collected will enable us to get a better understanding of the Cretaceous in the Great Bear Plain.

A few days were spent around Trench Lake (west of Wrigley) to finish two incomplete sections of 1969, as well as study a Middle Devonian reef on the Root River.

After Trench Lake the party moved to N.E.B.C.



WEST

EAST

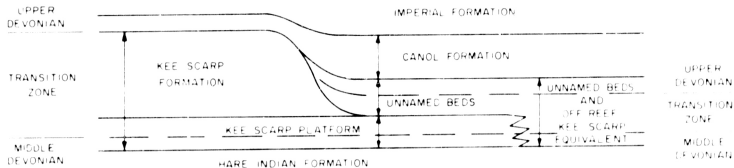


FIGURE 3

DIAGRAM SHOWING DEVONIAN STRATIGRAPHY
AROUND POWELL CREEK

MALCOLM SCHWEINER

8 OCTOBER 1969