

060-01-05-141



PROJECT: 60-1-5-72-1

GEOLOGICAL RECONNAISSANCE OF
RED DOG MOUNTAIN

By

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PERMIT 3424

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Introduction

This project was undertaken to check out the mapping of the Red Dog anticline which was done in 1971 (project 60-1-6-71-11). This reconnaissance work was carried out during the week of June 16 to June 23, 1972 along with project 60-1-2-72-2. A Bell Jet-Ranger helicopter based in Norman Wells was utilized for transport during the reconnaissance mapping.

Conclusions

The map of the area prepared by Chernoff, 1971 (project 60-1-6-71-11) was found to be essentially correct. No further field work is warranted in the immediate area of Red Dog Mountain.

Field Notes, Red Dog

1. GFx-10-72 (64°10'N & 125°30'W)

- east side of Red Dog Anticline within Ft. Simpson Formation
 - a. black mudstone, 10% silt
 - b. small contortion in outerop, Ft. Simpson overlain by Unit 24 sandstone (brown)

Sample #1 - palynology

2. GFx-11-72 (64°06'30"N & 125°29'30"W)

- east flank of Red Dog Anticline
 - a. top most bed of Hume (brachiopod hash in dark grey micrite) on one side of stream and about 15' stratigraphically higher and apparently conformable to Hume is black Horn River shales
 - b. indication of fault is very limited, possibly fault exists to south but at this location throw is minimal

Sample #1 - palynology (Horn River)

Sample #2 - lithology Hume

3. GFx-12-72 (64°06'N & 125°23'W)

- southeast of main Red Dog structure

- a. overturned Hume beds

- b. beds of limestone are highly fractured

Sample #1 - lithology

4. GFx-13-72 (65°04'N & 125°27'30"W)

- a. Horn River shale sample on river south of carbonate know offset to Red Dog anticline
- b. bituminous shale, rust and black with minor concretionary beds

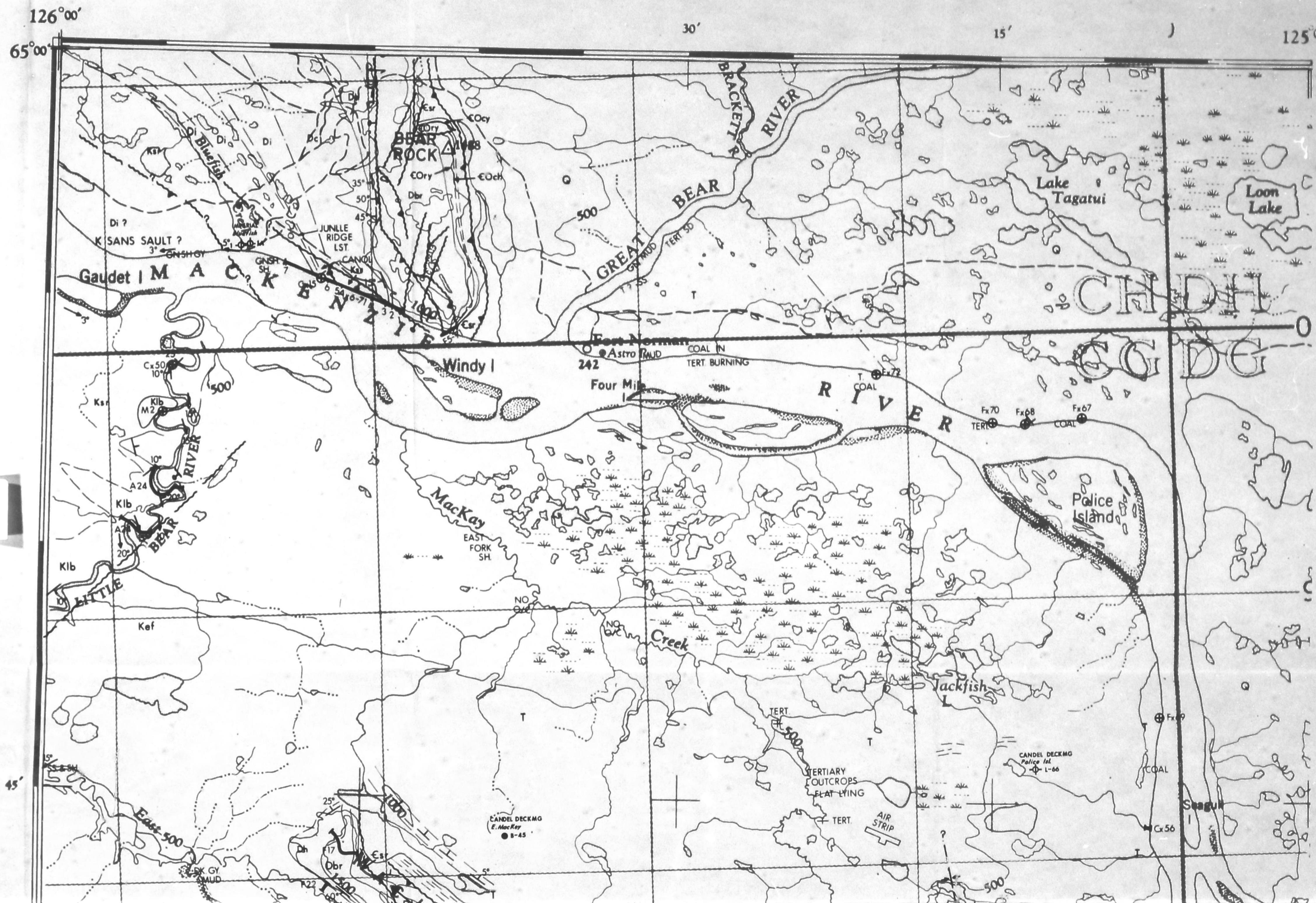
Sample #1 - palynology

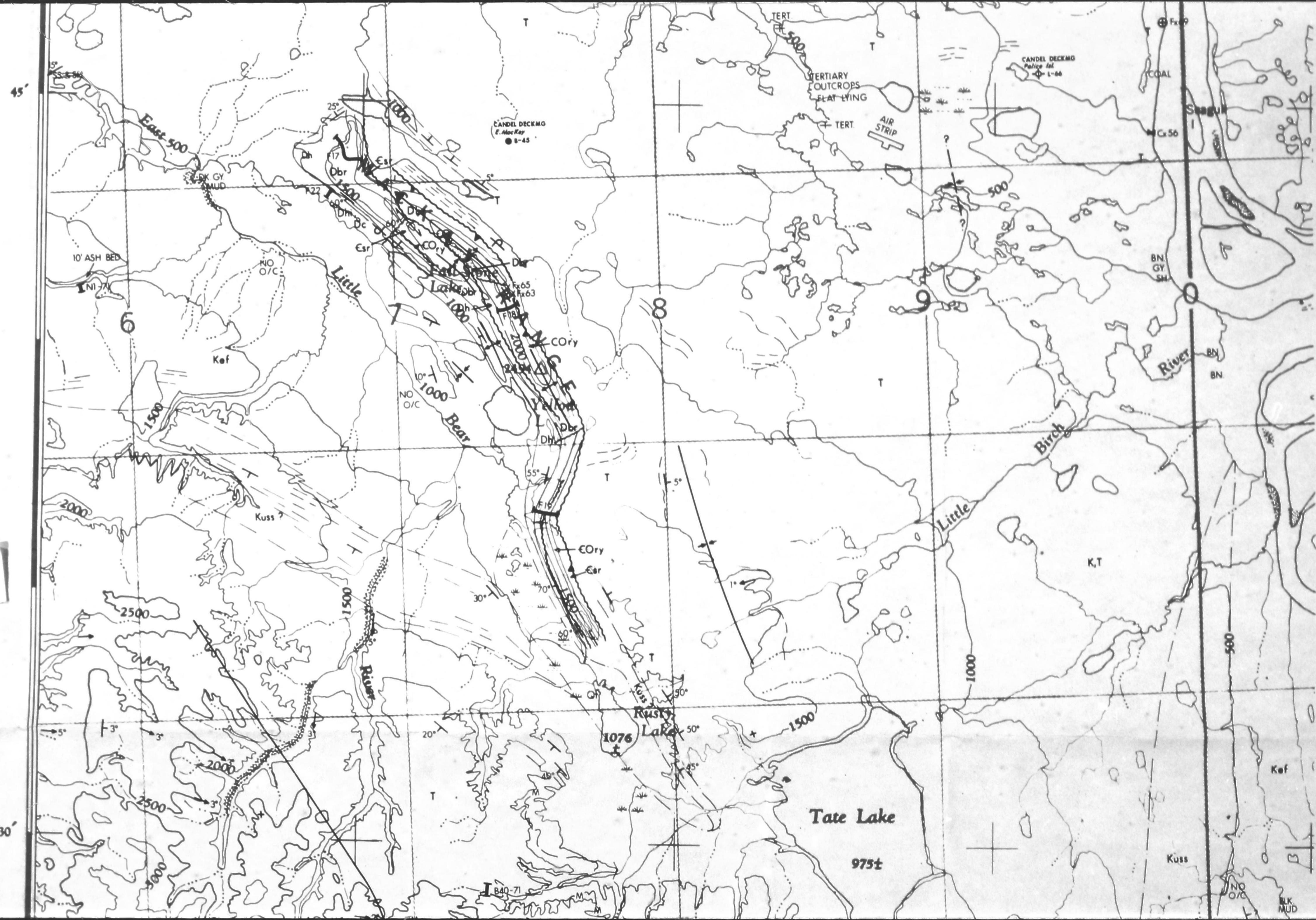
5. GFx-14-72 (64°04'30"N & 125°22'W)

- southeast of Red Dog Mountain

- a. Little Bear Formation, sandstone and coal; dip 50°W, strike ~150°

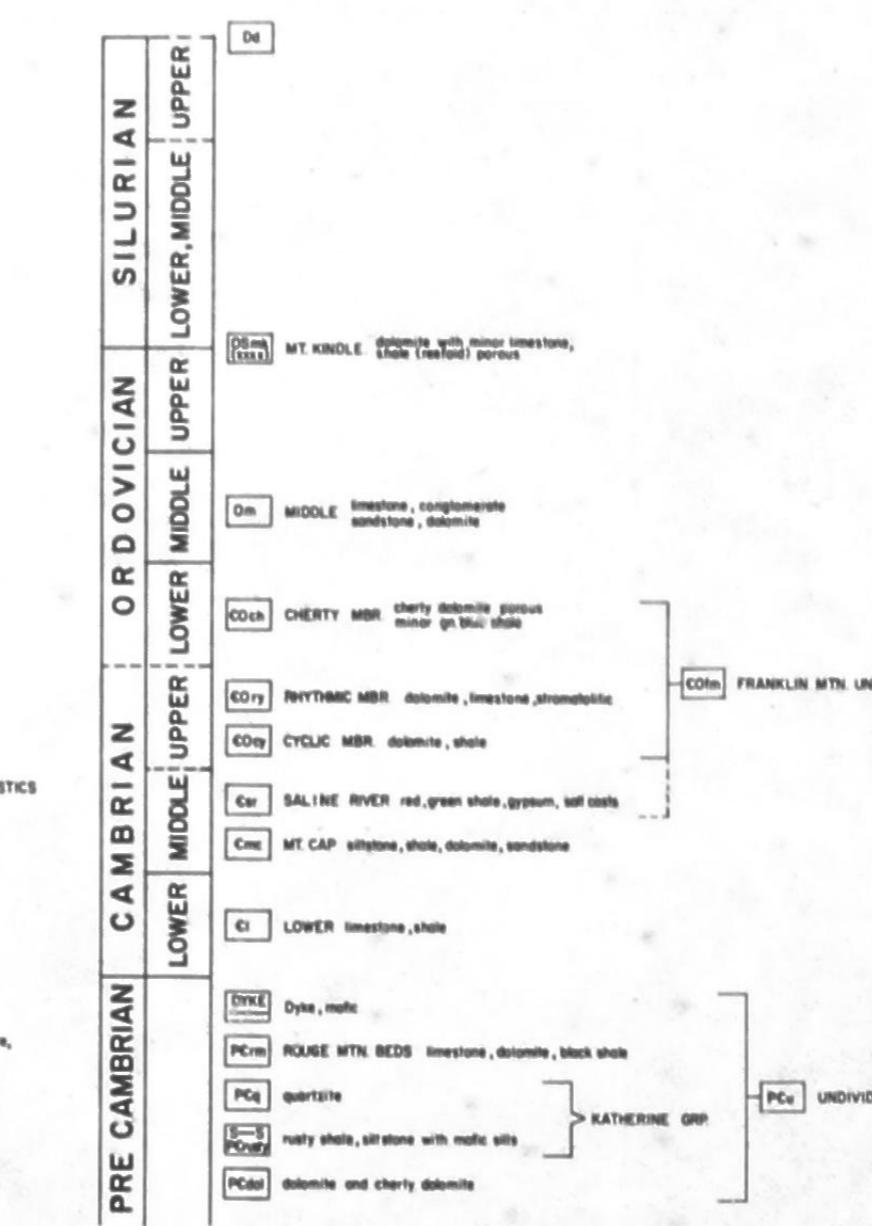
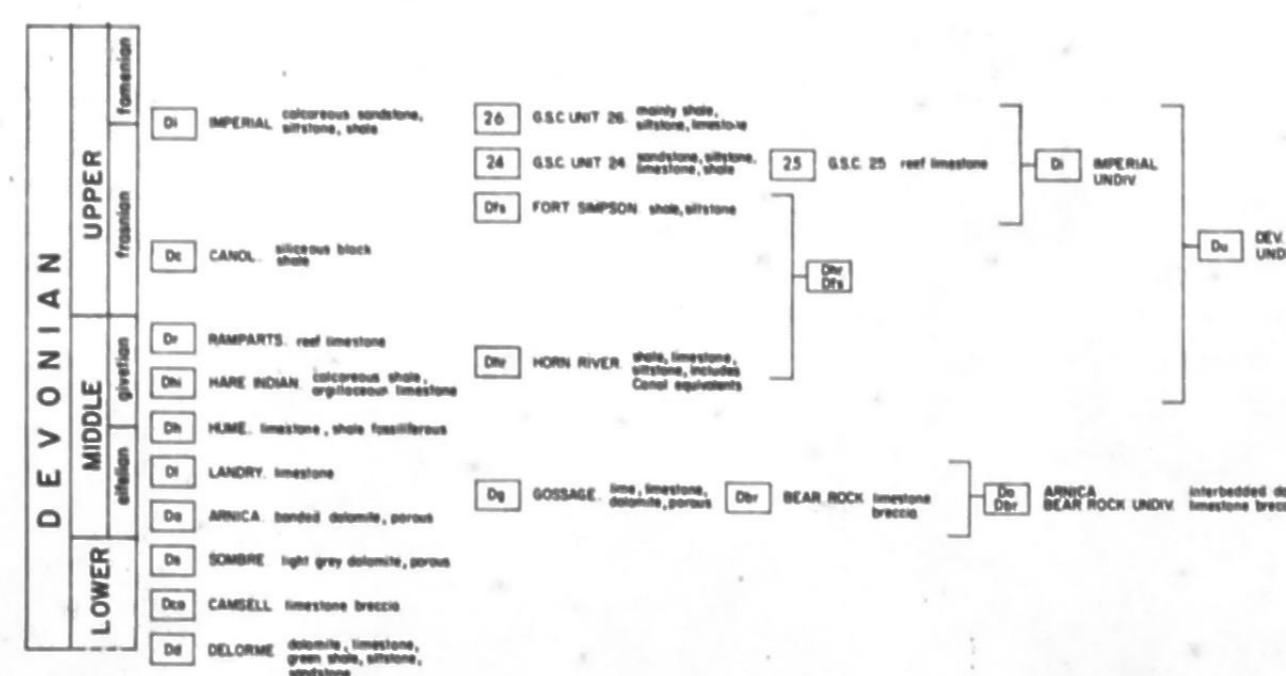
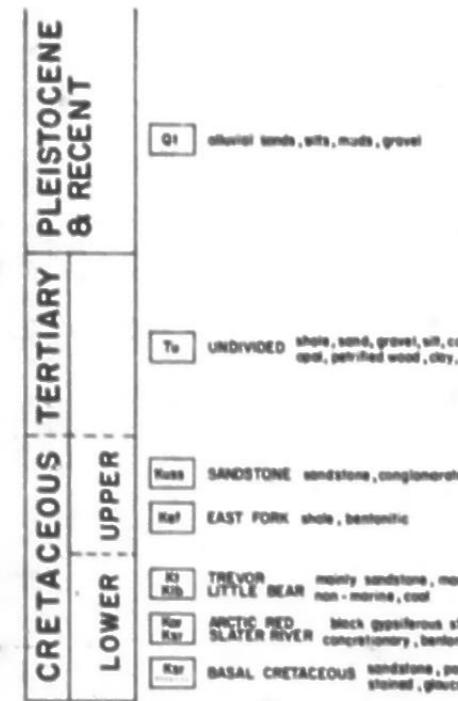
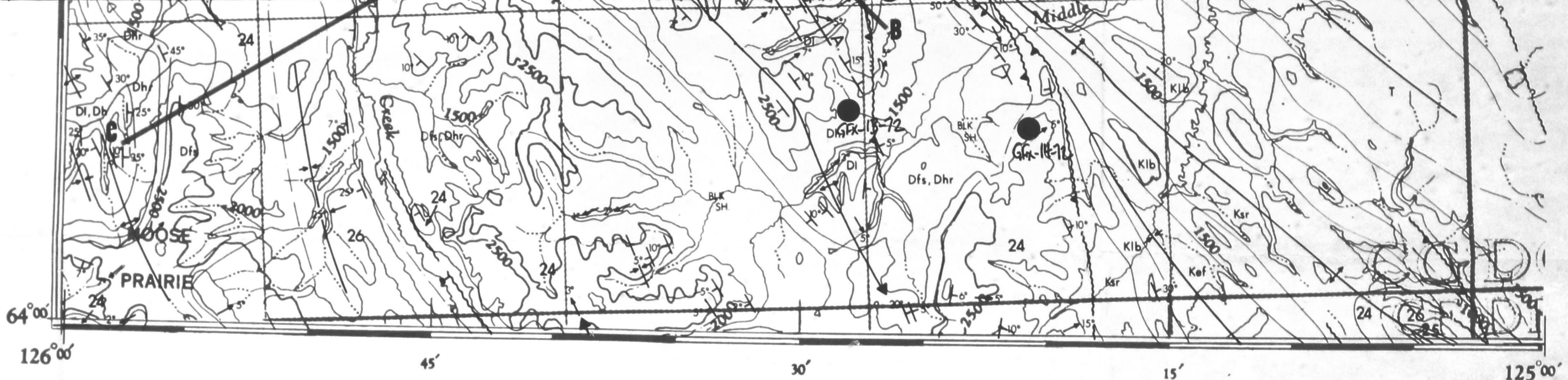
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Amoco Canada Petroleum Company Ltd.

MACKENZIE VALLEY

SURFACE STUDY

060-01-05-141

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060-01-05-141

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January 1975

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