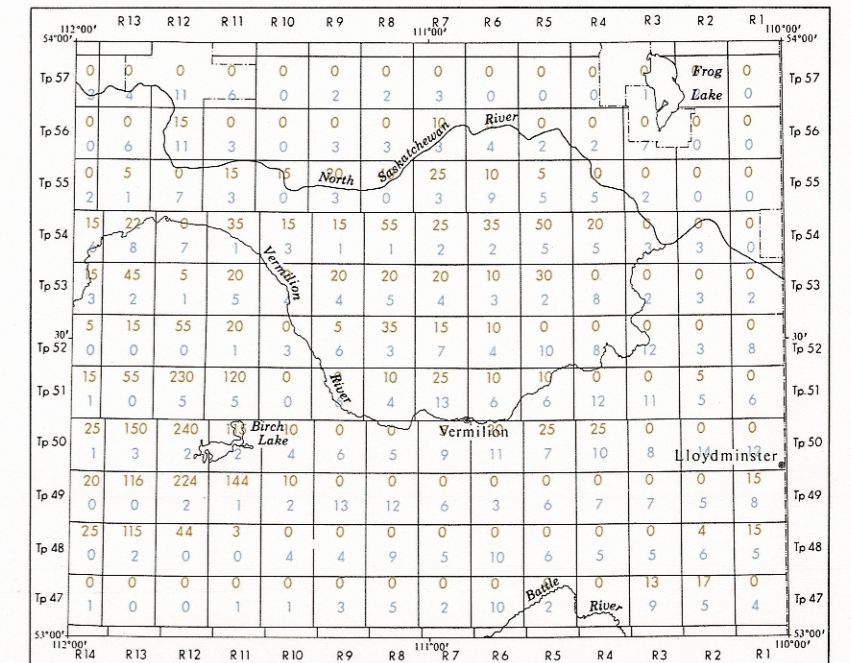
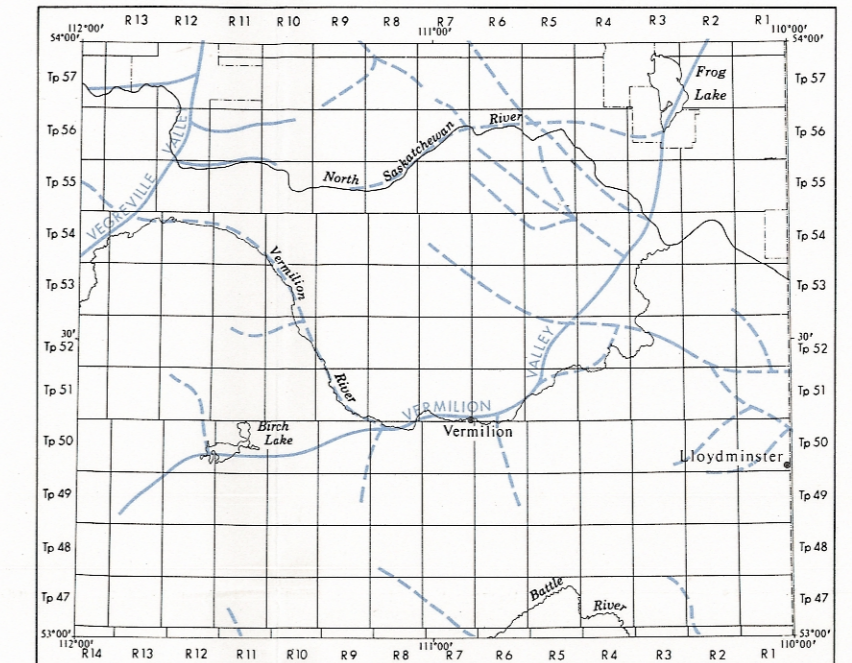
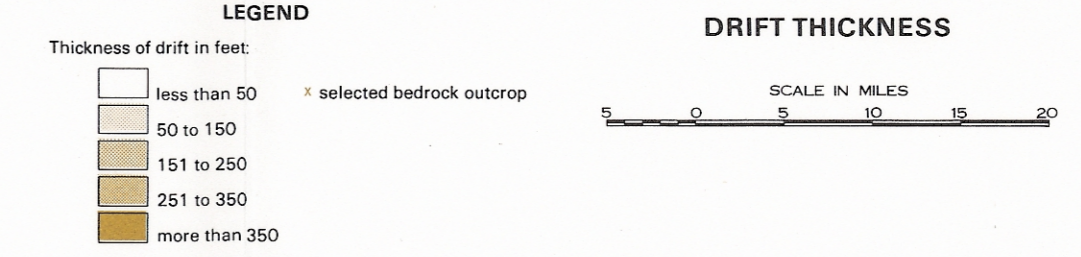
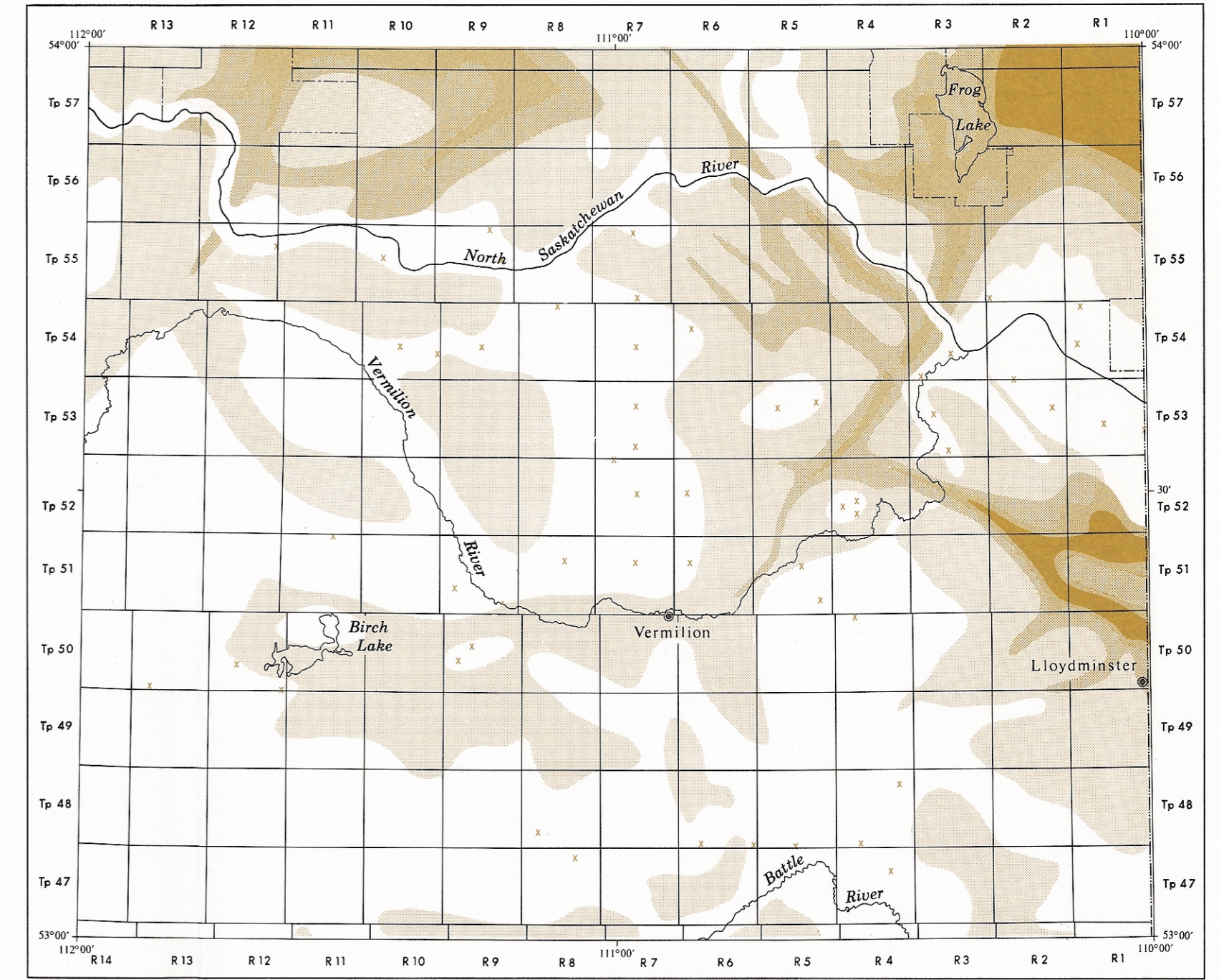
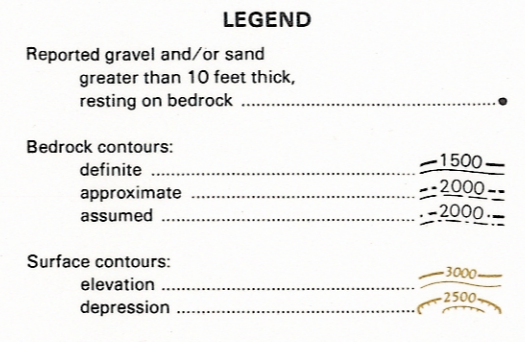
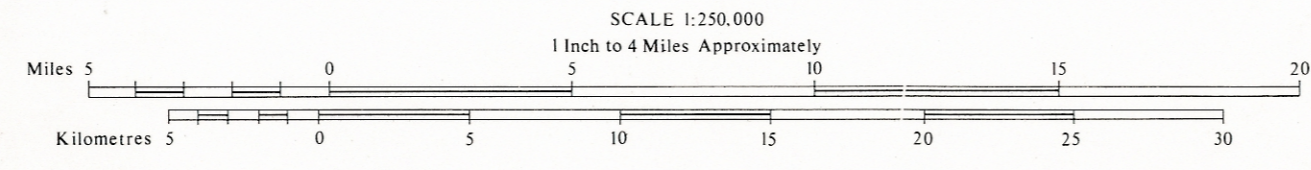
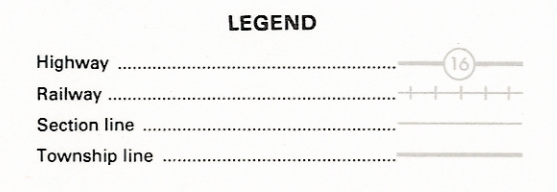


Base maps provided by the Survey and Mapping Branch,  
Department of Energy, Mines and Resources, Ottawa.  
Data compilation: J. Gardevoic  
Drafting: J. G. Maher  
Cartographic editing: A. Gill

## BEDROCK TOPOGRAPHY OF THE VERMILION MAP AREA, NTS 73E, ALBERTA

WEST OF FOURTH MERIDIAN



Bedrock topography by V. A. Carlson and D. V. Currie, 1973

**NOTES**

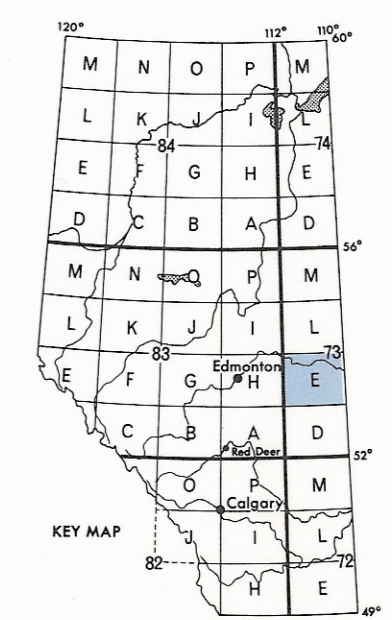
**Compilation**  
Information supplied by water well drilling contractors active in the area formed the bulk of the data used in compiling the bedrock topography and side maps. Other data used included testholes drilled by Water Resources Division, Department of the Environment, and logs from Research Council of Alberta testholes. Shothole logs were also used but did not constitute a major source of information. The bedrock outcrops used were obtained from Hume and Hage (1941) and Elwood (1961).

The bedrock topography within Tps. 55, Rs. 3 to 6, and Tps. 56 and 57, Rs. 1 to 6, appears to be deeply buried and complex. The interpretation shown is the best that can be obtained with the present data assuming that bedrock lows reported from drill logs are expressions of bedrock valleys. This area is, however, underlain by the Devonian Elk Point Formation and salt solution may have caused local collapse structures resulting in depressions in the bedrock surface (cf. Christiansen, 1967).

**Previous Work**  
The general pattern of major preglacial drainage in the southern part of the province has been outlined by Stalker (1961) and by Farvolden (1963).

**Acknowledgments**  
The shothole logs used in compiling this map were supplied by the companies listed below and it is a pleasure to acknowledge their cooperation: Amoco Canada Petroleum Company Ltd., Hudson's Bay Oil and Gas Company Limited, Imperial Oil Enterprises Ltd. Most of the water well lithologies used were supplied by McAllister Drilling Ltd. and Stan Byrt and Sons Ltd., and their assistance is gratefully acknowledged.

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