DEPARTMENT OF THE ENVIRONMENT

Water Resources Division

Soils, Geology and Groundwater Branch

Bibliography of groundwater studies in Alberta
1912-1971

by

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Introduction

The two senior authors have frequently found in their work that a large volume of hydrogeological data exists for Alberta which is not readily available. Although the federal and provincial agencies publish their reports in quantity, consulting firms normally prepare only a few copies for their clients. For this reason, much useful information has been prepared which other consultants, drillers, and government researchers are not aware of.

The bibliography has been organized so that the reports from each agency are listed together. Each report has been assigned a unique number which enables the reader to locate the area it describes on the index map.

Although some omissions no doubt exist, the bibliography is intended to list every compiled report dealing with groundwater supply and regime in the province of Alberta. Only reports in which original data has been compiled, synthesized, or interpreted are included. No original data such as simple lithologic logs or aquifer test measurements are listed.

Inevitably, arbitrary choices must be made in selecting which reports to put into the bibliography. The authors' policy, insofar as possible, was to define the term "groundwater" in its broadest aspect when making such decisions. Thus, references to deep formation (or oilfield) waters are included. However, the vast literature dealing with shallow water tables in relation to irrigation practice have deliberately been omitted. Papers concerning the theory of groundwater regime have also been omitted unless they specifically deal with Alberta examples.

This report is being distributed unbound. It is suggested that the pages be punched to fit a standard three-ring binder. In this way, the user can update his information as he becomes aware of newer additional
references. From time to time, perhaps at five year increments, the bibliography will be updated, and new pages may be inserted at their proper location in the report at that time. The numbering of the pages is intended to accommodate such additions.

The authors do not have access to all the reports referenced herein. Should the user wish to examine consulting reports, which are normally confidential to the client, it is suggested that the client, not the consultant should be contacted.

P.F.R.A. reports exist in limited quantities. Potential users are requested to examine them in the Regina office or to request photocopies only of those parts of interest to them.
Acknowledgements

Without the co-operation of all the agencies whose reports are listed, this report would not have been possible. Their efforts are gratefully acknowledged. G.L. Nielsen initiated the study and contacted the various contributors. D. Hackbarth, Research Council of Alberta, prepared the large list of their reports. S. Bainey, STEP student, compiled and edited the entire report, as well as preparing the index map.
### CONSULTING FIRMS

|------|--------------------------------------------------------------------------------------------------|


A3-23 Luscars Oil - Groundwater Supply, Drayton Valley, Alta. Lsd. 7, Sec. 12, Tp. 49, R. 7, W5.
A3-32 Shell Oil Co. of Canada Ltd., Drilling and testing of Water Source Wells, Virginia Hills Area, Alta. Lsd. 10, Sec. 26, Tp. 64, R. 13, W5.


A3-37 Tenneco Oil and Minerals Ltd. Water Source Well at Swan Hills. Lsd. 4, Sec. 8, Tp. 68, R. 10, W5.

A3-38 Texaco Canada Ltd. Hydrogeological Survey, Drayton Valley. Lsd. 6, Sec. 33, Tp. 48, R. 8, W5.


A3-44 Water supply Potential at Bishop Pembina F Lease Battery Site. N1/2 16-47-8-W.5


A9-1  James A. Lewis Engineering Co. Ltd. Development of Belly River and Shallow Sand water wells, South of Coronation, Alta.

A9-2  Investigation of the Areal Extent of the Victoria and other Belly River Sands, Wainwright, Alta. from electric logs of oil wells in the area.

A9-3  Investigation of ground water for Water Flood purposes near Eckville, Alta. and Economic study of the Paskapoo Aquifers in the Eckville Region of Alta.

A9-4  Mechanical Development of Wells to the Belly River Sand, Wainwright, Alta.

A9-5  Mechanical Development of Well to the Paskapoo Aquifer near Eckville, Alta.


A15-1 Reid, Crowther and Partners Ltd., Calgary, Alta. Tests were taken on Aquifers near Town of Three Hills and an aquifer from the area west of Olds, Alta.


A20-43. Town of Coleman, Alta. Groundwater Study.
A20-46  Supply Study. Town of Oyen, Alta. Water
A20-47  Alta. Water Supply Study. (1966): Town of Provost,
A20-48  reports on water supply. Town of Smoky Lake, Alta. Several
A20-49  Village of New Sarepta, Alta. Water supply investigation.


B4-2 __________. and __________. (1947b): Groundwater resources of Twps. 35 to 38, Rges. 5 to 8, west of the fourth meridian, Alta. Geol. Surv. Can. water supply paper 266.

B4-3 __________. and __________. (1947c): Groundwater resources of Twps. 35 to 38, Rges. 9 to 12, west of the fourth meridian, Alta. Geol. Surv. Can. water supply paper 267.

B4-4 __________. and __________. (1947d): Groundwater resources of Twps. 39 to 42, Rges. 1 to 4, west of the fourth meridian, Alta. Geol. Surv. Can. water supply paper 268.


B4-6 __________. and __________. (1947f): Groundwater resources of Twps. 39 to 42, Rges. 9 to 12, west of the fourth meridian, Alta. Geol. Surv. Can. water supply paper 270.

B4-7 __________. and __________. (1947g): Groundwater resources of Twps. 43 to 46, Rges. 1 to 4, west of the fourth meridian, Alta. Geol. Surv. Can. water supply paper 271.

B4-8 __________. and __________. (1947h): Groundwater resources of Twps. 43 to 46, Rges. 5 to 8, west of the fourth meridian, Alta. Geol. Surv. Can. water supply paper 272.
B4-9 __________, and __________. (1947i): Groundwater resources of Twps. 43 to 46, Rges. 9 to 12, west of the fourth meridian, Alta. Geol. Surv. Can. water supply paper 273.

B4-10 __________, and __________. (1947j): Groundwater resources of Twps. 43 to 46, Rges. 13 to 16, west of the fourth meridian, Alta. Geol. Surv. Can. water supply paper 274.


B9-2 __________. (1950b): Ground water resources of Twps. 35 to 38, Rges. 21 to 24, west of the fourth meridian, Alta. Geol. Surv. Can. water supply paper 304.
B9-3 (1953a): Ground-water resources of Twps. 31 to 34, Rges. 21 to 24, west of the fourth meridian, Alta. (Three Hills area): Geol Surv. Can. water supply paper 311.


B9-5 (1953c): Ground-water resources of Twps. 35 to 38, Rges. 1 to 4, west of the fourth meridian, Alta. Geol. Surv. Can. water supply paper 317.


RESEARCH COUNCIL OF ALBERTA


D35-4 (1971a): Hydrogeology of the Grimshaw-Chinook Valley Area, Alberta. Rept. 71-2, 19 pp. 2 Tables and 1 map


D36-7 (1966): Groundwater geology, movement, chemistry and resources near Olds, Alberta, Canada, Bull. 17, 126 pp. 49 figs. 21 tables.


THESES


WATER RESOURCES DIVISION
DEPARTMENT OF THE ENVIRONMENT


P.F.R.A.

Although the following reports are not primarily groundwater investigations, they do contain some information of this nature. Complete reports cannot be supplied, but photocopies of specific data can be provided upon request.


MISCELLANEOUS


H1-2 Domestic Water Well surveys in some parts of the Province, mainly the areas where oil fields are being water-flooded.

H1-3 Water Wells that have been licenced by industry, including data on T.D., location, completion details, etc.

H1-4 Water Production figures.


H3 Alberta Oil and Gas Conservation Board, 1953 to date, Quarterly Reports of oil gas and formation water analyses. Calgary, Alta.


