

PRELIMINARY LIST OF WORKS
IN
INDUCED SEISMICITY RELATED TO FLUID INJECTION

by

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for

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December 1981

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ACKNOWLEDGEMENTS

The authors wish to thank Mrs. Lucy Shopland for her patience and skill in typing the manuscript. The authors also wish to acknowledge the services provided by the Alberta Environment library staff, the staff of the University of Alberta Cameron Library, and the other institutions and private companies listed in the Appendix.

INTRODUCTION

This list of papers and articles from professional and learned journals was assembled to provide a point of departure for hydrogeological and geomechanical studies in the Cold Lake Oil Sands. While the list is fairly extensive, it makes no pretext of being exhaustive; although a substantial effort was made to identify any published work that might pertain to the topic. Those titles marked with an asterisk have been reviewed for relevance and are on open file in the Research Management Division.

The authors welcome any comments or corrections that readers may wish to pass on.

1. THEORY: GENERATION AND PROPAGATION OF MICROSEISMS

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
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
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5. APPENDIX: INFORMATION RETRIEVAL SYSTEM

5.1 INFORMATION SOURCES

Alberta Department of Environment Library
9820 - 106 Street, 14th Floor (Oxbridge Place)
Edmonton, Alberta

Alberta Department of Energy and Natural Resources Library
9915 - 108 Street, 9th Floor (South Petroleum Plaza)
Edmonton, Alberta

Alberta Oilsands Information Centre
10010 - 106 Street, 6th Floor (Highfield Place)
Edmonton, Alberta

Cameron Library
Sciences, 4th Floor
University of Alberta
Edmonton, Alberta

Cameron Library
Government Documents, 3rd Floor
University of Alberta
Edmonton, Alberta

Hardy & Associates (1978) Ltd.
4810 - 93 Street
Edmonton, Alberta

5.2 KEYWORDS

These were words used for "Induced Seismicity Related to Fluid Injection" (19 pp.) and for "Acoustic emission" (25 pp.). These are both partial works and not completed searches.

acoustic (emission, propagation, waves)
 fracture/ing
 geophysics - (rock properties)
 hydraulic (cracking, fracturing)
 injection (fluid, gas, water)
 microacoustic
 microseisms/ic
 natural gas wells, (hydraulic fracturing)
 oil (fields, sands, wells)
 oil well production (flooding, thermal)
 rock-fracture
 seismic waves - propagation
 seismology
 steam injection

5.3 AUTHORS

(useful for further searching)

Byerlee, J.D.
 Hardy, H.R. Jr.
 Holzhausen, G.R.
 Keck, L.J.
 Kintzinger, P.R.
 Koerner, R.M.
 Lockner, D.A.
 McCann, R.P.
 Power, D.V.
 Schuck, L.Z.
 Schuster, C.L.
 Witherspoon, P.A.
 Wood, M.D.

5.4 ABSTRACTS

Applied Science and Technology Index
H.W. Wilson Company,
New York, N.Y.

Engineering Index, Inc.
United Engineering Centre
New York, N.Y.

X EPA Publications Bibliography
United States Environmental Protection Agency
Office of Planning and Management
Washington, D.C.

Geophysical Abstracts
Geoabstracts Ltd.
University of East Anglia
Norwich, England

Geotechnical Abstracts
German National Society of Soil Mechanics and Foundation Engineering
Essen, Germany

Petroleum Abstracts
Information Services Department
University of Tulsa, Tulsa, Oklahoma

United States Government Reports Announcements and Index
NTIS United States Department of Commerce

United States Government Published Monthly Catalogue
Superintendent of Documents
United States Government Printing Office
Washington, D.C.

(Alberta Department of Environment Periodicals KWIC Index)
(Alberta Department of Energy and Natural Resources KWOC Index)

5.5 COMPUTER SEARCHES

BHR Fluid Engineering Abstracts (Fluidex)

Key Search Words

1. (steam or fluid) and (all inject or all stimulat)
2. hydraulic and all fracture
3. all seism or all acoustic or all sonic or sonor

Combine 1 or 2 and 3.

Alberta Oilsands Information Centre Computer Holdings

Key search words: seismic method or steam injection or hydraulic fracturing

Engineering Index

Key search words (same as BHRA Fluid Engineering Abstracts (Fluidex))

Geoarchive

Key search words - (same as BHRA Fluid Engineering Abstracts (Fluidex))

Georef

Key search words (same as BHRA Fluid Engineering Abstracts (Fluidex))

NTIS

Key search words (same as BHRA Fluid Engineering Abstracts (Fluidex))