

ENERGY RESOURCES CONSERVATION BOARD

IN THE MATTER of the *ENERGY RESOURCES CONSERVATION ACT*, R.S.A. 2000, Chapter E-10; the *OIL AND GAS CONSERVATION ACT*, R.S.A. 2000, Chapter O-7; and section 3 of the *OIL SANDS CONSERVATION REGULATION*, AR 76/88.

AND IN THE MATTER OF APPLICATION NUMBER 1573507 filed by Canadian Natural Resources Ltd.

ORDER 09-002

WHEREAS in *Decision 2007-056*, the Alberta Energy and Utilities Board concluded that the production of certain gas from the Clearwater Formation of the Fisher and Moore Fields in the Cold Lake Oil Sands Area, which gas was determined to be in pressure communication with potentially recoverable bitumen, presented an unacceptable risk to bitumen recovery by reducing the solution gas drive mechanism;

AND WHEREAS on May 23, 2008, Canadian Natural Resources Ltd. (CNRL) filed Application Number 1573507 (the Application) with the Energy Resources Conservation Board (Board), requesting that the Board shut in gas production from the Leming Upper Mannville O Pool;

AND WHEREAS CNRL, EnCana Corporation (EnCana) and Imperial Oil Resources Limited (Imperial) are the licensees of the wells in the Leming Upper Mannville O Pool;

AND WHEREAS on May 28, 2008, EnCana filed correspondence with the Board stating it had elected not to object to the Application;

AND WHEREAS Imperial is the licensee of record of three abandoned wells in the Leming Upper Mannville O Pool with the unique well identifiers AA/03-01-067-06W4/0, AA/13-01-067-06W4/0 and 00/01-10-067-06W4/0, and has stated to the Board that it has no concerns with the wells being included in this order;

AND WHEREAS the Board has reviewed the Application and has determined that gas production from the Leming Upper Mannville O Pool may affect the ultimate recovery of crude bitumen in the oil sands strata;

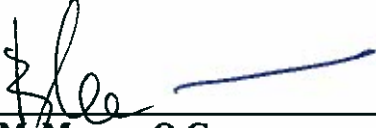
THEREFORE, for purposes of conservation of the ultimate recovery of bitumen in the Clearwater Formation of the Cold Lake Oil Sands Area, it is ordered that:

1. The licensees of the wells listed in Table 1 attached to this Order, or their respective successors, shall shut in or cause to remain shut in (as the case may be), the particular Upper Mannville intervals listed in Table 1, effective the 1st day of June, 2009.

2. In overlapping gas pools, where one pool is allowed to produce and another pool or other pools are required to be or remain shut in, the pools must be segregated in all the wellbores that encounter a pool that is allowed to produce. Zonal segregation tests demonstrating segregation in the wellbores shall be conducted and submitted to the Board in accordance with subsections 11.150(1) and (2) of the *Oil and Gas Conservation Regulations*. If segregation between pools in all the wellbores is not achieved or is not demonstrated by zonal segregation tests that are submitted to the Board, then all pools encountered by the wellbores must be or must remain shut in (as the case may be).
3. This order supersedes any previously issued orders respecting commingled production of gas from the intervals listed in Table 1.

MADE at the City of Calgary, in the Province of Alberta, this 12th day of May, 2009.

ENERGY RESOURCES CONSERVATION BOARD



Brad McManus, Q.C.
Acting Chairman

Table 1 Order 09-002

Field Name	Pool Name	Well ID	Pay Top Depth (TVD m)	Pay Base Depth (TVD m)	Licensee
LEMING	Upper Mannville O	AA/04-28-066-05W4/0	438.9	440.1	Canadian Natural Resources Limited
LEMING	Upper Mannville O	AF/04-28-066-05W4/0	436.7	437.9	Canadian Natural Resources Limited
LEMING	Upper Mannville O	02/09-28-066-05W4/0	438.0	440.8	Canadian Natural Resources Limited
LEMING	Upper Mannville O	00/07-29-066-05W4/0	432.3	433.8	Canadian Natural Resources Limited
LEMING	Upper Mannville O	00/10-31-066-05W4/0	423.4	429.8	Canadian Natural Resources Limited
LEMING	Upper Mannville O	00/11-32-066-05W4/0	428.0	432.9	Canadian Natural Resources Limited
LEMING	Upper Mannville O	00/01-33-066-05W4/0	435.3	438.0	Canadian Natural Resources Limited
LEMING	Upper Mannville O	00/06-33-066-05W4/0	431.4	433.8	Canadian Natural Resources Limited
LEMING	Upper Mannville O	00/06-06-067-05W4/0	434.4	438.9	Canadian Natural Resources Limited
LEMING	Upper Mannville O	AA/03-01-067-06W4/0	436.2	437.7	Imperial Oil Resources Limited
LEMING	Upper Mannville O	AA/13-01-067-06W4/0	438.1	440.8	Imperial Oil Resources Limited
LEMING	Upper Mannville O	00/15-01-067-06W4/0	439.2	442.8	EnCana Corporation
LEMING	Upper Mannville O	00/01-10-067-06W4/0	440.4	442.2	Imperial Oil Resources Limited