

FIELD DESIGNATION

0659 2011-05-01 OAK FIELD

POOL DESIGNATION

0659 304001 2009-09-01 BLUESKY A

0659 432001 2010-04-01 ROCK CREEK A

0659 606001 2001-02-01 KISKATINAW A

0659 606002 2001-02-01 KISKATINAW B

0659 606003 2013-07-01 KISKATINAW C

0659 658001 2001-02-01 WABAMUN A

FIELD DESIGNATION

0664 2012-04-01 OGSTON FIELD

POOL DESIGNATION

0664 304001 2010-04-01 BLUESKY A

0664 773502 2008-05-01 KEG RIVER SAND B

0664 797502 2008-06-01 GRANITE WASH B
0664 797503 2008-06-01 GRANITE WASH C
0664 797504 2008-06-01 GRANITE WASH D
0664 797505 2010-04-01 GRANITE WASH E
0664 797506 2008-06-01 GRANITE WASH F
0664 797507 2008-06-01 GRANITE WASH G
0664 797508 2008-06-01 GRANITE WASH H
0664 797509 2008-06-01 GRANITE WASH I
0664 797510 2008-06-01 GRANITE WASH J
0664 797511 2008-06-01 GRANITE WASH K
0664 797512 2008-06-01 GRANITE WASH L
0664 797514 2008-06-01 GRANITE WASH N
0664 797515 2008-06-01 GRANITE WASH O
0664 797516 2008-06-01 GRANITE WASH P
0664 797517 2008-06-01 GRANITE WASH Q
0664 797518 2008-06-01 GRANITE WASH R
0664 797519 2008-06-01 GRANITE WASH S
0664 797520 2008-06-01 GRANITE WASH T
0664 797521 2015-12-01 GRANITE WASH U
0664 797522 2008-06-01 GRANITE WASH V
0664 797523 2008-06-01 GRANITE WASH W
0664 797524 2008-06-01 GRANITE WASH X
0664 797525 2008-06-01 GRANITE WASH Y
0664 797526 2008-06-01 GRANITE WASH Z
0664 797527 2008-06-01 GRANITE WASH AA
0664 797528 2008-06-01 GRANITE WASH BB
0664 797529 2008-06-01 GRANITE WASH CC
0664 797530 2013-07-01 GRANITE WASH DD

SPACING PATTERN

SU 2462 16 Jan 1996

SU 2462A 15 Apr 1998

SUBSURFACE DISPOSAL SCHEMES

App 9171E 17 Nov 2015

Class II

Cardinal Energy Ltd.

App 8294C 31 Oct 2017

Class II

Prairie Provident Resources Canada Ltd.

App 8797 26 Aug 2014

Class II

Penn West Petroleum Ltd.

ENHANCED RECOVERY SCHEMES

App 9673P 4 Mar 2016
By water injection
Athabasca Oil Sands Area
Canadian Natural Resources Limited

App 10147 1 Feb 2005

App 10147G 4 Mar 2016
By water injection
Athabasca Oil Sands Area
Canadian Natural Resources Limited

App 10787 3 May 2007

App 10787Q 21 Sep 2017
by water polymer and water injection
Athabasca Oil Sands Area
Canadian Natural Resources Limited

App 12288A 12 May 2015
Baytex Energy Ltd.
Cold Lake Oil Sands Area

App 11320F 30 Jan 2018
by water polymer and water injection
Baytex Energy Ltd.

App 11618 26 May 2011
Cenovus FCCL Ltd.
Athabasca Oil Sands Area

App 12133C 14 Nov 2017
Athabasca Oil Sands Area
Devon Canada Corporation

**ENHANCED RECOVERY SCHEMES
(cont'd)**

App 12640 28 Jun 2017
Peace River Oil Sands Area
Baytex Energy Ltd.

App 12641 28 Jun 2017
Cold Lake Oil Sands Area
Canadian Natural Resources Limited

App 12677 5 Dec 2017
Athabasca Oil Sands Area
Koch Oil Sands Operating ULC

SUBSURFACE DISPOSAL SCHEMES

App 8612E 22 Mar 2017
Class Ib
Canadian Natural Resources Limited

App 9484B 17 Dec 2013
Class II
Canadian Natural Resources Limited

App 9447B 21 Sep 2017
Class II
Obsidian Energy Ltd.

App 10914B 18 Oct 2012
Class II
Canadian Natural Resources Limited

App 11941 18 Oct 2012
Class II
Perpetual Energy Operating Corp.

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 8490A 10 Apr 2012
Class II
Amoco Canada Petroleum Company

App 9596A 30 May 2012
Class II
Canadian Natural Resources Limited

App 8489B 15 July 2013
Class II
Harvest Operations Corp.

App 7971C 3 Feb 2012
Class II
Husky Oil Operations Ltd.

App 7126A 3 Feb 2012
Class II
Husky Oil Operations Limited

App 7478A 28 Aug 2014
Class II
Gryphon Petroleum Corp.

App 8168A 13 Dec 2011
Class II
Bonavista Energy Corporation

App 8707H 10 Aug 2017
Class Ib
Tervita Corporation

App 8772B 8 July 2013
Class Ib
Canadian Natural Resources Limited

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 9625B 30 Jun 2016
Class II
Baytex Energy Ltd.

App 10123A 10 Apr 2012
Class II
Pengrowth Corporation

App 10637A 30 Oct 2012
Class II
Harvest Operations Corp.

App 8156B 20 Apr 2012
Class II
Cenovus FCCL Ltd.

App 8775B 14 Nov 2017
Class II
Devon Canada Corporation

App 8858 1 Aug 2001
Class II
BP Canada Energy Company

App 9594B 1 May 2014
Class II
Canadian Natural Resources Limited

App 10669A 10 Feb 2010
Class Ib
Cenovus Energy Inc.

App 10894 28 May 2007
Class II
ISH Energy

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 10928A 5 Dec 2012
Class II
Sonoma Resources Ltd

App 2455A 14 Feb 2011
Class II
Canadian Natural Resources Limited

App 4222A 9 May 2012
Class II
Canadian Natural Resources Limited

App 10588 28 Jun 2006
Class II
Husky Oil Operations Limited

App 10533 1 May 2006
Class II
Canadian Natural Resources Limited

App 10517C 7 Nov 2017
Class II
Canadian Natural Resources Limited

App 10503 11 Apr 2006
Class II
Husky Oil Operations Limited

App 10502 11 Apr 2006
Class II
Husky Oil Operations Limited

App 10501 11 Apr 2006
Class II
Husky Oil Operations Limited

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 10500A 14 Sep 2012
Class II
Husky Oil Operations Limited

App 10494A 15 Jan 2013
Class II
Long Run Exploration Ltd.

App 10480B 20 Aug 2012
Class II
Baytex Energy Ltd.

App 10393C 9 Aug 2012
Class II
Tervita Corporation

App 10339A 13 Mar 2013
Class II
Total E&P Canada Ltd.

App 10263 18 Apr 2005
Class II
Husky Oil Operations Limited

App 10023J 25 Apr 2017
Class Ib
Nexen Energy ULC

App 10224 24 Feb 2005
Class II
Husky Oil Operations Limited

App 9885B 6 Dec 2016
Class II
Sequoia Resources Corp.

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 9689B 6 Dec 2016
Class II
Sequoia Resources Corp.

App 9425B 6 Dec 2016
Class II
Sequoia Resources Corp.

App 8852B 6 Dec 2016
Class II
Sequoia Resources Corp.

App 8208B 6 Dec 2016
Class II
Sequoia Resources Corp.

App 8039C 6 Dec 2016
Class II
Sequoia Resources Corp.

App 10684B 6 Dec 2016
Class II
Sequoia Resources Corp.

App 7913C 6 Dec 2016
Class Ib
Sequoia Resources Corp.

App 12104E 26 Oct 2016
Class II
Canadian Natural Resources Limited

App 8175D 9 Jun 2016
Class II
Osum Production Corp.

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 10898B 14 Nov 2017
Class II
Devon Canada Corporation

App 3084C 9 Dec 2011
Class II
Devon Canada Corporation

App 3929A 2 Sept 2011
Class Ib
Canadian Natural Resources Limited

App 4128D 2 Sept 2011
Class II
Dome Petroleum Limited

App 5588D 3 Jul 2014
Class Ib
Cenovus Energy Inc.

App 6081A 28 Sept 2011
Class II
Bonavista Energy Corporation

App 6202A 29 Sept 2011
Class II
Bonavista Energy Corporation

App 7777C 12 Jun 2014
Class II
Gear Energy Ltd.

App 8268A 16 Sept 2011
Class II
Chinook Energy Inc.

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 8381B 6 Dec 2016
Class II
Sequoia Resources Corp.

App 8414A 9 Dec 2011
Class II
Devon Canada Corporation

App 8470A 16 Sept 2011
Class II
Chinook Energy Inc.

App 8490A 10 Apr 2012
Class II
Devon Canada Corporation

App 8491A 21 June 2011
Class II
Canadian Natural Resources Limited

App 8640D 11 Aug 2011
Class Ib
Japan Canada Oil Sands Limited

App 8825C 6 Dec 2016
Class II
Sequoia Resources Corp.

App 8858A 10 Apr 2012
Class II
Devon Canada Corporation

App 8898F 13 Mar 2017
Class II
Canadian Natural Resources Limited

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 9108A 28 Oct 2015
Class II
Canadian Natural Resources Limited

App 9344B 8 Jan 2016
Class II
Canadian Natural Resources Limited

App 9487H 27 Oct 2017
Class Ib
Suncor Energy Inc.

App 9573C 25 July 2014
Class Ib
ConocoPhillips Canada Resources Corp.

App 9712B 15 Sep 2010
Class Ib
Cenovus FCCL Ltd.

App 10044I 15 May 2016
Class Ib
ConocoPhillips Canada Resources Corp.

App 10079C 9 May 2014
Class II
BlackPearl Resources Inc.

App 10213C 21 Sep 2017
Class II
Obsidian Energy Ltd.

App 10347E 12 Jun 2014
Class II
Gear Energy Ltd.

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 10365F 26 Jan 2018
Class Ib
Canadian Natural Resources Limited

App 10539A 21 Jun 2010
Class II
Husky Oil Operations Limited

App 10567B 6 Dec 2016
Class Ib
Sequoia Resources Corp.

App 10591A 22 Nov 2013
Class Ib
Husky Oil Operations Limited

App 10624A 19 Jan 2011
Class II
Devon Canada Corporation

App 10627E 23 Jun 2017
Class Ib
Cenovus FCCL Ltd.

App 10659C 31 Jul 2013
Class Ib
MEG Energy Corp.

App 10712 25 Jan 2007

App 10712A 12 Apr 2010
Class Ib
Cenovus Energy Inc.

App 10715 9 Nov 2006
Class II
Harvest Operations Corp.

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 10763B 31 May 2012
Class II
Cenovus FCCL Ltd.

App 10783 19 Mar 2007

App 10783A 17 Dec 2009
Class Ib
Suncor Energy Inc.

App 10790K 29 Mar 2017
Class Ib
Devon Canada Corporation

App 10835D 20 Nov 2014
Class Ib
Devon Canada Corporation

App 10893B 21 Sep 2017
Class II
Obsidian Energy Ltd.

App 10923C 6 Dec 2016
Class II
Sequoia Resources Corp.

App 10937B 30 May 2017
Class II
Canadian Natural Upgrading Limited

App 11001A 2 Nov 2011
Class Ib
Newalta Corporation

App 11059D 26 Jun 2017
Class II
Cenovus FCCL Ltd.

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 11181 4 Apr 2008
Suncor Energy Inc.
Waste Disposal Area

App 11189B 24 July 2012
Class II
Grizzly Oil Sands ULC

App 11201H 31 Oct 2017
Class II
Canadian Natural Resources Limited

App 11242B 29 Mar 2011
Class II
Husky Oil Operations Limited

App 11261 30 Apr 2009
Syncrude Canada Ltd.
Waste Disposal Area

App 11266B 1 Sep 2015
Class Ib
Crescent Point Energy Corp.

App 11278 7 Jan 2009
Class II
Devon Canada Corporation

App 11311B 30 May 2017
Class II
Canadian Natural Upgrading Limited

App 11313 16 Apr 2009

App 11313A 6 Jul 2010
Class II
Canadian Natural Resources Limited

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 11319A 11 Aug 2011
Class II
Chinook Energy Ltd.

App 11351F 9 May 2014
Class Ib
Cenovus FCCL Ltd.

App 11367E 12 Jun 2014
Class II
Gear Energy Ltd.

App 11368B 20 July 2012
Class II
MEG Energy Corp.

App 11418I 22 Nov 2017
Class II
Husky Oil Operations Limited

App 11430 20 May 2010
Class II
Cenovus Energy Ltd.

App 11479A 30 May 2017
Class Ib
Athabasca Oil Corporation

App 11544A 11 June 2012
Class Ib
Larcinia Energy Ltd.

App 11580A 20 Oct 2017
Class II
West Lake Energy Corp.

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 11611A 16 Oct 2013
Class Ia
Nexen Energy ULC

App 11706B 1 August 2012
Class II
Twin Butte Energy Ltd.

App 11653A 13 June 2012
Class Ib
Tervita Corporation

App 11754C 22 Aug 2014
Class Ib
Husky Oil Operations Limited

App 11761D 15 Jul 2016
Class Ib
Canadian Natural Resources Limited

App 11799A 22 Nov 2012
Class Ib
Laricina Energy Ltd.

App 11801C 11 April 2014
Class II
Sunshine Oil Sands Ltd.

App 11828 13 June 2012
Class II
Canadian Natural Resources Limited

App 11874A 20 Dec 2017
Class II
Athabasca Oil Corporation

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 11882D 9 Mar 2015
Class II
Storm Resources Ltd.

App 11883A 31 Oct 2012
Class II
Bernum Petroleum Ltd.

App 11929 6 Nov 2012
Class Ib
OSUM Oil Sands Corp.

App 11934B 17 May 2013
Class II
Twin Butte Energy Ltd.

App 11939D 30 Jan 2018
Class II
Obsidian Energy Ltd.

App 11949A 25 Jul 2014
Class II
Murphy Oil Company Ltd.

App 12088B 26 Jan 2015
Class Ib
Pengrowth Energy Corporation

App 12173C 21 Apr 2015
Class Ib
Baytex Energy Ltd.

App 12198A 8 Jan 2016
Class II
Baytex Energy Ltd.

**SUBSURFACE DISPOSAL SCHEMES
(cont'd)**

App 12303A 6 Jan 2016
Class Ib
Newalta Corporation

App 12326A 9 Dec 2014
Class II
One Earth Oil and Gas Inc.

App 12378A 30 May 2017
Class Ib
Athabasca Oil Corporation

App 12383A 30 May 2017
Class II
Cenovus Energy Inc.

App 12443A 6 Dec 2016
Class II
Sequoia Resources Corp.

App 12623C 15 Nov 2017
Class II
Canadian Natural Resources Limited

App 12682 3 Jan 2018
Class II
Spur Petroleum Ltd.

App 12690 26 Jan 2018
Class II
Canadian Natural Resources Limited

OIL SANDS AREAS

App 12344 18 Dec 2014

OIL SANDS AREAS (cont'd)

App 12344 5 Feb 2015
Class II
Husky Oil Operations Limited
OSA 1A 21 Jul 1989
OSA 1B 15 Dec 1995
OSA 1C 18 Sep 2000
Athabasca Oil Sands Area

OSA 2 7 Aug 1984
OSA 2A 8 Dec 1988
Peace River Oil Sands Area

OSA 3 7 Aug 1984
OSA 3A 15 Jul 1985
Cold Lake Oil Sands Area

OIL SANDS DEPOSIT

OSD 1 19 Jun 1972
OSD 1A 4 Apr 1978
OSD 1B 10 Jul 1980
OSD 1C 15 Jun 1981
OSD 1D 14 Mar 1982
OSD 1E 15 Jul 1985
OSD 1F 3 Jul 1987
Athabasca Wabiskaw-McMurray
Oil Sands Deposit

OSD 3 20 Jun 1972
OSD 3A 10 Sep 1974
OSD 3B 4 Apr 1978
OSD 3C 10 Jul 1980
OSD 3D 15 Jul 1985
Cold Lake Upper Grand Rapids
Oil Sands Deposit

OIL SANDS DEPOSIT (cont'd)

OSD 4 20 Jun 1972
 OSD 4A 4 Apr 1978
 OSD 4B 10 Jul 1980
 OSD 4C 15 Jun 1981
 OSD 4D 14 Mar 1982
 OSD 4E 15 Jul 1985
 OSD 4F 3 Jul 1987
 Cold Lake Clearwater
 Oil Sands Deposit

OSD 5 20 Jun 1972
 OSD 5A 4 Apr 1978
 OSD 5B 10 Jul 1980
 OSD 5C 14 Mar 1982
 OSD 5D 15 Jul 1985
 Athabasca Upper Grand Rapids
 Oil Sands Deposit

OSD 7 20 Jun 1972
 OSD 7A 10 Jul 1980
 OSD 7B 14 Mar 1982
 OSD 7C 15 Jul 1985
 OSD 7D 7 Aug 1986
 OSD 7E 3 Jul 1987
 OSD 7F 11 May 1988
 Peace River Bluesky-Gething Oil
 Sands Deposit

OSD 8 8 Jun 1973
 OSD 8A 4 Apr 1978
 OSD 8B 10 Jul 1980
 OSD 8C 15 Jun 1981
 OSD 8D 14 Mar 1982
 OSD 8E 15 Jul 1985
 OSD 8F 3 Jul 1987
 Cold Lake Wabiskaw-McMurray
 Oil Sands Deposit

OIL SANDS DEPOSIT (cont'd)

OSD 9 4 Apr 1978
 OSD 9A 10 Jul 1980
 OSD 9B 15 Jul 1985
 Cold Lake Lower Grand Rapids
 Oil Sands Deposit

OSD 10 4 Apr 1978
 OSD 10A 10 Jul 1980
 OSD 10B 14 Mar 1982
 OSD 10C 15 Jul 1985
 Athabasca Middle Grand Rapids
 Oil Sands Deposit

OSD 11 4 Apr 1978
 OSD 11A 10 Jul 1980
 OSD 11B 14 Mar 1982
 OSD 11C 15 Jul 1985
 Athabasca Lower Grand Rapids
 Oil Sands Deposit

OSD 12 14 Mar 1982
 OSD 12A 15 Jul 1985
 OSD 12B 3 Jul 1987
 Athabasca Grosmont
 Oil Sands Deposit

OSD 13 15 Jul 1985
 OSD 13A 3 Jul 1987
 Athabasca Nisku
 Oil Sands Deposit

OSD 14 15 Jul 1985
 OSD 14A 3 Jul 1987
 OSD 14B 11 May 1988
 Peace River Shunda
 Oil Sands Deposit

OIL SANDS DEPOSIT (cont'd)

OSD 15 15 Jul 1985
 OSD 15A 3 Jul 1987
 OSD 15B 11 May 1988
 Peace River Upper Debolt
 Oil Sands Deposit

OSD 16 15 Jul 1985
 OSD 16A 3 Jul 1987
 OSD 16B 11 May 1988
 Peace River Lower Debolt
 Oil Sands Deposit

OSD 17 3 Jul 1987
 Peace River Belloy
 Oil Sands Deposit

**EXPERIMENTAL OIL SANDS
 SCHEMES**

App 9770I 5 Oct 2012
 Grizzly Oil Sands ULC
 Athabasca Oil Sands Area
 Expires 31 Mar 2014

App 10100C 13 Dec 2011
 MEG Energy Corp.
 Athabasca Oil Sands Area
 Expires Dec 31, 2012

App 10440L 27 Jun 2016
 Cenovus Energy Inc.
 Athabasca Oil Sands Area
 Expires March 31, 2012

App 10457H 19 Mar 2013
 E-T Energy Ltd.
 Athabasca Oil Sands Area
 Expires January 31, 2013

**EXPERIMENTAL OIL SANDS
 SCHEMES (cont'd)**

App 11112B 27 Aug 2010
 Laricina Energy Inc.
 Athabasca Oil Sands Area
 Expires January 31, 2011

App 11193 27 May 2008
 EnCana Corporation
 Cold Lake Oil Sands Area
 Expires June 30, 2010

App 11223 21 Jul 2008
 UTS Energy Corporation
 Fort McKay Alberta
 Expires December 31, 2016

App 11224A 28 April 2011
 Edmonton Industrial Area
 Shell Canada Energy.
 Expires July 14, 2014

App 11271A 14 Sep 2010
 Convergent Bitumen Recovery Inc.
 Fort McMurray Alberta

App 11272 18 Aug 2010
 Syncrude Canada Limited

App 11273 6 Aug 2010
 Canadian Natural Resources Limited
 MFT Treatment and Dewatering Pilot Plant.

App 11277 5 Mar 2009
 Imperial Oil Resources Ltd.
 Cold Lake Oil Sands Area
 Expires Sepember 30, 2010

**EXPERIMENTAL OIL SANDS
SCHEMES (cont'd)**

App 11285 1 Apr 2011
Shell Canada Energy
Muskeg River Mine

App 11305B 8 Aug 2013
Cenovus FCCL Ltd.
Athabasca Oil Sands Area
Expires Jul 31, 2014

App 11337J 5 Nov 2013
Laricina Energy Ltd.
Athabasca Oil Sands Area
Expires Jun 30, 2019

App 11473A 20 July 2012
Canadian Natural Resources Limited
Cold Lake Oil Sands Area
Expires October 31, 2013

App 11541D 21 Apr 2015
Husky Oil Operations Limited
Athabasca Oil Sands Area
Expires January 31, 2018

App 11546F 14 Aug 2015
Athabasca Oil Corporation
Athabasca Oil Sands Area
Expires September 30, 2023

App 11586 18 Mar 2011
Dover Operating Corp.
Athabasca Oil Sands Area
Expires March 31, 2014

App 11589B 3 Oct 2012
Laurus Energy Canada Ltd.
Parkland County
Expires March 31, 2016

**EXPERIMENTAL OIL SANDS
SCHEMES (cont'd)**

App 11596C 6 Feb 2013
ConocoPhillips Canada Resources Corp.
Athabasca Oil Sands Area
Expires August 31, 2015

App 11604B 1 Aug 2017
Imperial Oil Resources
Cold Lake Oil Sands Area
Expires December 31, 2018

App 11695 14 Sep 2011
Suncor Energy Inc.
Athabasca Oil Sands
Expires September 30, 2014

App 11825D 23 Feb 2018
Suncor Energy Inc.
Athabasca Oil Sands
Expires April 30, 2018

App 11834A 6 Jun 2013
Statoil Canada Ltd.
Athabasca Oil Sands Area
Expires June 30, 2015

App 12066A 11 Apr 2016
Cold Lake Oil Sands Area
Devon Canada Corporation
Expires July 31, 2020

App 12074A 27 Jul 2015
Suncor Energy Inc.
Athabasca Oil Sands
Expires November 30, 2018

**EXPERIMENTAL OIL SANDS
SCHEMES (cont'd)**

App 12101 13 Sept 2013
Sunshine Oilsands Ltd
Athabasca Oil Sands Area

App 12283 24 Jul 2014

App 12283C 26 May 2017
Perpetual Operating Corp.
Peace River Oil Sands Area
Expires July 24, 2019

App 12352 26 Jan 2015
Renergy Petroleum (Canada) Co., Ltd
Athabasca Oil Sands

App 12473 28 Sep 2016
Husky Oil Operations Limited
Athabasca Oil Sands
Expires June 30, 2022

App 12528B 8 Nov 2017
MEG Energy Corp.
Athabasca Oil Sands Area
Expires July 1, 2018

App 12582A 30 May 2017
Canadian Natural Upgrading Limited
Peace River Oil Sands Area
Expires March 1, 2019

App 12591B 20 Oct 2017
West Lake Energy Corp.
Cold Lake Oil Sands Area
Expires April 1, 2020

**EXPERIMENTAL OIL SANDS
SCHEMES (cont'd)**

App 12425A 30 Nov 2017
Peace River Oil Sands Area
Expires September 1, 2018

App 12676 30 Nov 2017
SCCC Petroleum Corporation
Peace River Oil Sands Area

**COMMERCIAL OIL SANDS
SCHEMES**

App 11764G 10 Mar 2016
Sunshine Oilsands Ltd
Athabasca Oil Sands Area

App 11789C 30 Sep 2016
Baytex Energy Ltd.
Cold Lake Oil Sands Area

App 4746 9 Dec 1985

App 4746GG 23 May 2017
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 6410P 22 Jun 2017
Pengrowth Energy Corporation
Cold Lake Oil Sands Area

App 6726 5 May 1993

App 6726Q 18 Sep 2014
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 6804C 22 Aug 2001
Canadian Natural Resources Limited
Primrose Sector
Expires 31 Dec 2013

App 7550B 21 Feb 1996
Syncrude Canada Ltd.
Mildred Lake
Expires 31 Dec 2025

App 8143 21 May 1997

App 8143DD 29 Jun 2017
Canadian Natural Upgrading Limited
Peace River Oil Sands Area

App 8177B 25 Mar 2013
Devon Canada Corporation
Cold Lake Oil Sands Area

App 8512 28 Jun 1999
App 8512A 2 Mar 2000
App 8512B 1 May 2007
App 8512C 12 May 2009

App 8512G 12 Dec 2013
Shell Canada Limited
Athabasca Oil Sands Area

App 8535L 7 June 2013
Suncor Energy Inc.
Athabasca Wabiskaw-McMurray

App 8546A 11 Feb 2002
Williams Energy (Canada) Inc.
Athabasca Area

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 8250D 15 Dec 2003
Syncrude Canada Ltd.
Athabasca Wabiskaw-McMurray

App 8522 5 Aug 1999

App 8522A 18 Apr 2005

App 8522B 3 Nov 2006

App 8522C 26 Nov 2008

App 8522D 7 Aug 2012
Shell Canada Limited

App 8558 26 Nov 1999

App 8558KK 21 Dec 2017
Imperial Oil Resources
Cold Lake Oil Sands Area
Expires 31 Dec 2035

App 8573M 7 June 2013
Syncrude Canada Ltd.
Athabasca Oil Sands Area

App 8591EEE 21 Dec 2017
Cenovus FCCL Ltd.
Athabasca Oil Sands
Expires 31 Dec 2035

App 8623SSS 22 Dec 2017
Cenovus FCCL Ltd.
Foster Creek Phase ID / IE
Athabasca Oil Sands
Expires 31 Dec 2035

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 8668 28 Sep 2000

App 8668UU 21 Jul 2017
Suncor Energy Inc.
Athabasca Oil Sands Area
Expires December 31, 2027

App 8788 24 May 2001

App 8788M 23 May 2017
Japan Canada Oil Sands Limited.
Athabasca Oil Sands Area

App 8870J 18 Feb 2009

App 8870VVV 5 Dec 2017
Suncor Energy Inc.
Athabasca Oil Sands Area

App 9000F 26 Aug 2010
Cenovus FCCL Ltd.
Athabasca Area

App 9044E 13 Aug 2007

App 9044N 11 Jul 2017
Suncor Energy Inc.
Athabasca Area
Expires 30 Jun 2011

App 9151A 22 Dec 2005
Nexen Canada Ltd.
Athabasca Area
Expires Dec 31, 2007

App 9140 16 Aug 2002

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 9140LL 25 Oct 2017
Canadian Natural Resources Limited
Cold Lake Oil Sands Area
Expires 31 Dec 2027

App 9241E 21 Jan 2013
Fort Hills Energy Corporation
Athabasca Oil Sands Area

App 9272 24 Jan 2003

App 9272E 13 Dec 2010
Total E&P Joslyn Ltd.
Athabasca Area

App 9424B 14 Jan 2015
Suncor Energy Inc.
Athabasca Oil Sands

App 9426C 28 Nov 2008

App 9426NN 31 Jan 2018
ConocoPhillips Canada Resources Corp.
Athabasca Oil Sands Area

App 9460D 7 Sept 2011
ConocoPhillips Canada Resources Corp.
Athabasca Oil Sands
Expires 31 Jul 2019

App 9485F 25 Feb 2009

App 9485YY 8 Dec 2017
Nexen Energy ULC
Athabasca Oil Sands Area

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 9752D 7 June 2013
Canadian Natural Resources Limited
Athabasca Oil Sands Area

App 9756E 3 Dec 2013
Shell Canada Limited
Athabasca Oil Sands Area

App 9835 18 May 2004

App 9835T 9 Aug 2016
Husky Oil Operations Limited
Cold Lake Oil Sands Area
FOR SUBSURFACE DISPOSAL
APPROVALS see also:
Beaver Crossing Field
Cold Lake Field & Area
Daphne Area
Ethel Lake Field & Area
Gambler Field & Area
Marguerite Area
Muriel Lake Field
Wabasca Area
Brintnell Area

App 10097 18 Nov 2004

App 10097QQ11 Jan 2018
Devon Canada Corporation
Athabasca Oil Sands Area

App 10103D 25 Feb 2009

App 10103S 29 Jan 2018
Osum Production Corp.
Cold Lake Oil Sands Area

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 10159 1 Feb 2005

App 10159A 25 Jan 2006
MEG Energy Corp.
Athabasca Oil Sands Area

App 10330A 6 Mar 2015
Value Creation Inc.

App 10419A 13 Jan 2009

App 10419Y 15 Feb 2018
Husky Oil Operations Limited
Athabasca Oil Sands Area

App 10587 31 Jul 2006

App 10587S 8 Feb 2016
Connacher Oil and Gas Limited
Athabasca Oil Sands Area

App 10773B 21 Apr 2009

App 10773SS 25 Jan 2018
MEG Energy Corp.
Athabasca Oil Sands Area

App 10781G 7 June 2013
Syncrude Canada Ltd.
Athabasca Wabiskaw-McMurray

App 10829E 7 June 2013
Imperial Oil Resources Ventures Limited
Athabasca Oil Sands Area

App 10935B 25 Feb 2009

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 10935U 1 Sep 2017
Athabasca Oil Corporation
Athabasca Oil Sands Area

App 10999 23 Aug 2007
Synenco Energy Inc.
Athabasca Oil Sands Area

App 11034L 3 Feb 2015
Peace River Oil Sands Area
Baytex Energy Ltd.
Expires October 31, 2010

App 11107A 4 Mar 2008
UTS Energy Corporation
Athabasca Oil Sands Area

App 11172 20 Mar 2008
Suncor Energy Inc.
SCCC Petroleum Corporation
Peace River Oil Sands Area
Expires Jun 30, 2013

App 11212 17 Jul 2008

App 11212A 25 May 2010
Husky Oil Operations Limited
Cold Lake Oil Sands Area

App 11229 4 Sep 2008

App 11229C 17 Nov 2011
Athabasca Oil Sands Area
Devon NEC Corporation

App 11253 13 Nov 2008

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 11253E 25 Sep 2012
Athabasca Oil Sands Area
Connacher Oil and Gas Limited

App 11283 6 May 2011
Total E&P Canada Ltd.
Athabasca Oil Sands Area

App 11377B 20 Apr 2012
Peace River Oil Sands Area
Penn West Petroleum Ltd.
Expires Jun 30, 2012

App 11379 27 Nov 2009
Athabasca Oil Sands
Sunshine Oilsands Ltd

App 11387 3 Feb 2010

App 11387F 26 Sep 2014
Athabasca Oil Sands
Harvest Operations Corp.

App 11391 10 Feb 2010

App 11391B 5 Dec 2011
Athabasca Oil Sands
MacKay Operating Corp.

App 11393 23 Mar 2010

App 11393A 9 May 2012
Athabasca Oil Sands
Value Creation Inc.

App 11461 25 Oct 2010

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 11461G 2 Jul 2014
Athabasca Oil Sands Area
Southern Pacific Resource Corp.

App 11469D 7 Nov 2017
Athabasca Oil Sands Area
Cenovus Energy Inc.
Expires March 31, 2013

App 11472 22 Sep 2010

App 11472C 1 May 2014
Athabasca Oil Sands Area
Canadian Natural Resources Limited

App 11475 22 Sep 2010

App 11475W 22 Feb 2018
Athabasca Oil Sands Area
Canadian Natural Resources Limited

App 11494 5 Oct 2010
Athabasca Oil Sands Area
Husky Oil Operations Limited

App 11498 14 Oct 2010
Peace River Oil Sands Area
Northern Alberta Oil Ltd.

App 11509J 21 Apr 2015
Athabasca Oil Sands Area
Laricina Energy Ltd.

App 11522F 25 Oct 2017
Blackpearl Resources Inc.
Athabasca Oil Sands Area

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 11539 20 Dec 2010

App 11539D 9 Feb 2017
Athabasca Oil Sands Area
Athabasca Oil Corporation
Peace River Oil Sands Area
Baytex Energy Ltd.

App 11688D 21 May 2015
Grizzly Oil Sands ULC
Athabasca Oil Sands Area

App 11715 21 Dec 2011

App 11715F 20 Oct 2017
Athabasca Oil Sands Area
Petrochina Canada Ltd.

App 11778D 6 Feb 2017
Peace River Oil Sands Area
Baytex Energy Ltd.

App 11798 30 May 2012

App 11798E 5 Sep 2017
Athabasca Oil Sands Area
Cenovus FCCL Ltd.

App 11888 10 Oct 2012

App 11888E 16 Nov 2016
Athabasca Oil Sands Area
Athabasca Oil Corporation

App 11889 30 Oct 2012

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 11889B 7 Aug 2014
Cold Lake Oil Sands Area
Osum Production Corp.

App 11910 29 Nov 2012

App 11910C 25 May 2017
Athabasca Oil Sands Area
Japan Canada Oil Sands Limited

App 12015 24 Jan 2013
Athabasca Oil Sands Area
Oak Point Energy Ltd.

App 12087 15 July 2013

App 12087A 4 Dec 2013
Athabasca Oil Sands Area
Laricina Energy Ltd.

App 12122 24 Mar 2014

App 12122A 5 May 2014
Athabasca Oil Sands Area
Brion Energy Corporation

App 12138A 10 Dec 2015
Athabasca Oil Sands Area
Value Creation Inc.

App 12190A 13 Nov 2014

App 12190B 7 Nov 2017
Athabasca Oil Sands Area
Cenovus Energy Inc.

**COMMERCIAL OIL SANDS
SCHEMES (cont'd)**

App 12257A 26 Apr 2017
Athabasca Oil Sands Area
1435008 Alberta Ltd.

App 12301B 14 Nov 2017
Athabasca Oil Sands Area
Devon NEC Corporation

App 12351 26 Oct 2015
Cold Lake Oil Sands Area
Devon Canada Corporation

App 12421 28 Sep 2016
Athabasca Oil Sands Area
Surmont Energy Ltd.

App 12491 28 Sep 2016
Athabasca Oil Sands Area
Blackpearl Resources Inc.

App 12540 15 Dec 2017
Peace River Oil Sands Area
Andora Energy Corporation

GAS BITUMEN

GB 1 16 Jan 1979
Gas production Pelican NE

GB 2 9 Feb 1979
Gas production
Pelican NW Area

GAS BITUMEN (cont'd)

GB 3 16 Mar 1979
 GB 3A 17 May 1979
 GB 3B 14 Apr 1980
 GB 3C 18 Jun 1980
 GB 3D 24 Nov 1982
 Gas production Algar SW

GB 4 1 Apr 1979
 Gas production Pelican SE

GB 5 28 Mar 1979
 Gas production Winagami NW

GB 6 19 Apr 1979
 GB 6A 14 Apr 1980
 GB 6B 24 Nov 1982
 Gas production Algar Lake SEGB

GB 7 19 Apr 1979
 GB 7A 26 Jun 1979
 GB 7B 14 Mar 1980
 GB 7C 24 Jul 1980
 Gas production Sand River SE

GB 8 8 May 1979
 GB 8A 26 Jun 1979
 GB 8B 11 Feb 1981
 GB 8C 10 Nov 1982
 Gas production Sand River SW

GB 9 8 May 1979
 GB 9A 26 Jun 1979
 Gas production Wainwright NW

GB 10 8 May 1979
 Gas production Wainwright NE

GAS BITUMEN (cont'd)

GB 11 8 May 1979
 Gas production Peace River SE

GB 12 14 Apr 1980
 Gas production Algar Lake NW

GB 13 4 Sep 1981
 Gas production Sand River NE

App 11781
 Penn West Petroleum Ltd.
 Peace River Oil Sands Area

PRIMARY RECOVERY SCHEMES

App 5692 6 Jun 1988

App 5692A 24 Aug 1990

App 5692B 14 Jun 1996

App 5692C 13 Sep 2002

App 5692D 27 Feb 2003
 Canadian Natural Resources Limited
 Lindbergh Sector

App 6280I 6 Mar 2017
 Canadian Natural Resources Limited
 Frog Lake Sector

App 6292A 16 Nov 1990

App 6292B 24 Apr 1991

App 6292C 27 Jul 1992

App 6292D 25 Nov 1992

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 6292E 15 Jun 1993

App 6292F 14 Mar 1995

App 6292G 27 Jun 1995

App 6292H 16 Sep 1996

App 6292I 16 Apr 1997

App 6292J 23 Oct 2002

App 9340D 27 Jul 2015
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 6619W 4 Jun 2008

App 6619AA 30 Sept 2011
Canadian Natural Resources Limited
Athabasca Oil Sands Area

App 6723 16 Mar 1992

App 6726 5 May 1993

App 6726S 17 May 2016
Canadian Natural Resources Limited
Cold Lake Area

App 6764 27 Feb 1992

App 6764A 28 Jul 1997

App 6764B 13 Sep 2002

App 6764C 27 Feb 2003

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 6764D 16 Sep 2003
Canadian Natural Resources Limited
Lindbergh Sector

App 6984 21 Oct 1992

App 7055A 19 May 1993

App 7055B 11 Dec 1995

App 7055C 14 Jul 2000

App 7055D 30 Mar 2001
Canadian Natural Resources Limited
Lindbergh Sector

App 7118H 9 Dec 2011
Canadian Natural Resources Limited
Lindbergh Sector

App 7164Q 6 Nov 2017
West Lake Energy Corp.
Cold Lake Oil Sands Area

App 7303D 2 Dec 2013
Canadian Natural Resources Limited
Lindbergh Sector

App 7389 2 Dec 1993

App 7389A 11 Dec 1995

App 7389B 5 Aug 1997

App 7389C 14 Jul 2000

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 7389D 30 Mar 2001
Canadian Natural Resources Limited
Lindbergh Sector

App 7515E 2 Jun 2014
Gear Energy Ltd.
Cold Lake Oil Sands Area

App 7885 23 Jan 1996

App 7885A 26 Feb 2003
EnCana Corporation
Brintnell Area

App 7920A 26 Aug 1997

App 7920M 12 Dec 2016
BlackPearl Resources Inc.
Cold Lake Oil Sands

App 7936Y 31 Jan 2018
Cold Lake Oil Sands
Devon Canada Corporation

App 7990P 10 Dec 2014
Husky Oil Operations Ltd.
Cold Lake Oil Sands Area

App 8002 22 Aug 1996

App 8002A 15 Aug 1997

App 8002B 14 Nov 1997

App 8002C 14 Jul 2000

App 8002D 27 Oct 2000

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 8002E 30 Mar 2001
Canadian Natural Resources Limited
Beaverdam Sector

App 8017 25 Sep 1996

App 8017A 26 May 1997

App 8017B 19 Nov 1998

App 8017C 10 Jul 2000

App 8017D 12 Jul 2000
Canadian Natural Resources Limited
Lindbergh Sector

App 8018 25 Sep 1996

App 8018E 5 Sept 2013
Frog Lake Sector
Canadian Natural Resources Limited

App 8035 11 Sep 1996

App 8035A 10 Jul 2000
Lindbergh Sector
Canadian Natural Resources Limited

App 8041 30 Sep 1996

App 8041A 13 Sep 2002

App 8041B 20 Feb 2003
Canadian Natural Resources Limited
St. Paul Sector

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 8042K 2 Oct 2014
Canadian Natural Resources Limited
Cold Lake Sector

App 8043A 23 May 2000

App 8043C 22 July 2013
Canadian Natural Resources Limited
Cold Lake Sector

App 8058 25 Nov 1996

App 8058A 5 Jul 2002

App 8058B 10 Jun 2004
EnCana Oil & Gas Co. Ltd.
Fisher Area

App 8066 25 Nov 1996

App 8066A 17 Aug 2004
Canadian Natural Resources Limited
Bonnyville

App 8069B 31 Aug 2004

App 8069F 5 Jul 2010
Canadian Natural Resources Limited
Lindbergh Sector

App 8085 19 Dec 1996

App 8085A 17 Dec 2002
Devon Canada Corporation
Wabasca Area

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 8087A 24 Nov 2010
Canadian Natural Resources Limited
Lindbergh Sector

App 8161 17 Jun 1997

App 8161A 13 May 2004

App 8161B 3 Jun 2004

App 8161C 7 Mar 2006

App 8161D 29 Jan 2007
Canadian Natural Resources Limited
Frog Lake Sector

App 8162 16 Oct 1997

App 8162M 16 Feb 2018
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 8174 18 Jul 1997

App 8174A 14 Jul 2000

App 8174B 30 Mar 2001
Canadian Natural Resources Limited
Bonnyville Sector

App 8179D 17 Oct 2016
Canadian Natural Resources Limited
Beaverdam Sector

App 8180 18 Jul 1997

App 8180A 14 Jul 2000

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 8180B 30 Mar 2001
Canadian Natural Resources Limited
Cold Lake/Beaverdam Sectors

App 8202 17 Sep 1997

App 8202B 18 Oct 2013
Devon Canada Corporation
Frog Lake Sector

App 8207 10 Oct 1997

App 8207A 14 Jul 2000

App 8207B 30 Mar 2001
Canadian Natural Resources Limited
Cold Lake Sector

App 8215D 2 Oct 2014
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 8304B 30 Apr 2014
Devon Canada Corporation
Panny Area

App 8319 8 Apr 1998
Canadian Natural Resources Limited
Bonnyville/Wolf Lake Sectors

App 8341 22 Jul 1998

App 8341E 23 Dec 2015
Kasten Energy Inc.
Cold Lake Oil Sands Area

App 8536 1 Sep 1999

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 8536A 25 Feb 2009
Canadian Natural Resources Limited
Bonnyville Sector

App 8566A 2 Oct 2014
Predator Corporation Ltd.
Beaverdam Sector

App 8567 30 Nov 1999

App 8567A 10 Aug 2001
Crispin Energy Inc.
Mann Lake Sector

App 8584 21 Dec 1999

App 8584A 30 Aug 2002

App 8584B 24 Apr 2003
ConocoPhillips Canada Resources Corp.
Saleski Area

App 8611 11 Apr 2000

App 8611A 12 Jul 2002
Devon Canada Corporation
Frog Lake Sector

App 8636B 14 Mar 2012
Gear Energy Ltd.
Cold Lake Oil Sands Area

App 8642F 22 July 2009
Blackrock Ventures Inc.
Woodenhouse Area

App 8655 13 Jul 2000

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 8655A 14 Feb 2001

App 8655B 11 Feb 2002
Husky Oil Operations Ltd.
Frog Lake Sector

App 8756E 20 June 2013
Husky Oil Operations Ltd.
Athabasca Oil Sands Area

App 8845 15 Aug 2001

App 8845B 8 Feb 2013
Harvest Operations Corp.
Cold Lake Oil Sands Area

App 8908M 23 Oct 2014
Canadian Natural Resources Limited
Cold Lake Area Oil Sands Area

App 8972H 30 Jan 2018
Baytex Energy Ltd.
Peace River Oil Sands Area

App 8993 27 Feb 2002

App 8993D 12 Jul 2010
Canadian Natural Resources Limited
Athabasca Oil Sands Area

App 9006 5 Mar 2002

App 9006B 22 Oct 2009
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 9158D 11 Jun 2015
Devon Canada Corporation
Cold Lake Oil Sands Area

App 9266 20 Dec 2002

App 9266A 27 Aug 2003

App 9266B 6 Nov 2006
Harvest Operations
Lindbergh Sector

App 9278 24 Feb 2003

App 9278M 16 Jun 2016
Baytex Energy Ltd.
Cold Lake Oil Sands Area

App 9313A 21 May 2015
Devon Canada Corporation
Cold Lake Oil Sands Area

App 9349 14 Apr 2003

App 9349D 16 Jan 2017
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 9387 22 May 2003

App 9387P 18 Oct 2017
Canadian Natural Resources Limited
Cold lake Oil Sands Area

App 9403H 7 Nov 2017
Brintnell Area
Cenovus Energy Inc.

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 9404F 4 Jun 2009

App 9404X 7 Nov 2017
Cenovus Energy Inc.
Athabasca Oil Sands Area

App 9415I 11 Mar 2009

App 9415EE 20 Sep 2017
Canadian Natural Resources Limited
Elk Point/Frog Lake/
Cold Lake Oil Sands Area

App 9427F 19 Oct 2016
Gear Energy Ltd.
Cold Lake Oil Sands Area

App 9473D 19 Jun 2014
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 9466I 25 Feb 2009

App 9466R 19 Feb 2014
Athabasca Oil Sands
Canadian Natural Resources Limited
Husky Oil Operations Limited
Cold Lake Oil Sands Area

App 9571 11 Sep 2003

App 9571A 11 Feb 2004
Murphy Oil Company Ltd.
Peace River Oil Sands Area

App 9579 26 Sep 2003

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 9579D 18 July 2013
Baytex Energy Ltd.
Cold Lake Oil Sands Area

App 9607B 26 Jul 2004

App 9607F 21 Nov 2017
Obsidian Energy Ltd.
Peace River Oil Sands Area

App 9631 17 Oct 2003

App 9631C 21 Mar 2014
Devon Canada Corporation
Cold Lake Oil Sands Area

App 9698 9 Dec 2003

App 9698A 11 Mar 2004
Atlas Energy Ltd.
Athabasca Oil Sands

App 9727 24 Feb 2004

App 9727A 27 Mar 2006

App 9774D 13 May 2009

App 9774E 19 May 2010
Bronco Energy Ltd.
Athabasca Oil Sands Area

App 9811B 2 Feb 2011
Baytex Energy Ltd.
Peace River Oil Sands Area

App 9821 18 May 2004

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 9821C 22 Oct 2015
Devon Canada Corporation
Cold Lake Oil Sands Area

App 9827K 2 Jun 2016
Frog Lake Energy Resources Corp.
Cold Lake Oil Sands Area

App 9873 25 Jun 2004

App 9873E 10 Sep 2014
Husky Oil Operations Limited
Cold Lake Oil Sands Area

App 9884 26 Jul 2004

App 9884F 14 Jan 2013
Canadian Natural Resources Limited
Athabasca Oil Sands Area

App 9908 17 Aug 2004

App 9908H 21 Mar 2013
Baytex Energy Ltd.
Cold Lake Oil Sands Area

App 10052 16 Sep 2004
Baytex Energy Ltd.
Peace River Oil Sands Area

App 10070F 13 May 2008

App 10070J 23 Jun 2016
Baytex Energy Ltd
Peace River Oil Sands Area

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 10147B 25 Jan 2006
Canadian Natural Resources Limited
Wabiskaw Athabasca Oil Sands

App 10154F 13 Jul 2015
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 10174B 28 Nov 2006

App 10174E 2 Oct 2017
Obsidian Energy Ltd.
Peace River Oil Sands Area

App 10290A 12 June 2012
Murphy Oil Company Ltd.
Peace River Oil Sands Area
App 10310 8 Jun 2005

App 10310B 19 Jun 2014
Devon Canada Corporation
Cold Lake Oil Sands Area

App 10329 13 Sep 2005

App 10329J 30 Jan 2018
Baytex Energy Ltd.
Peace River Oil Sands Area

App 10391 8 Dec 2005

App 10412A 8 Sep 2006

App 10412D 29 May 2014
Husky Oil Operations Limited
Bluesky Peace River Oil Sands

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 10423B 25 Feb 2009

App 10423X 16 Feb 2018
Canadian Natural Resources Limited
Athabasca Oil Sands Area

App 10454 31 Jan 2006
Canadian Natural Resources Limited
Beaverdam Sector Cold lake

App 10471 15 Mar 2006
Canadian Natural Resources Limited
Beaverdam Sector Cold lake

App 10518H 24 May 2017
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 10532G 23 Feb 2017
Baytex Energy Ltd.
Pekisko Peace River

App 10557B 22 Feb 2007

App 10557J 30 May 2017
Canadian Natural Upgrading Limited
Bluesky-Gething Peace River Oil Sands

App 10597 15 Aug 2006

App 10597C 26 Jan 2015
Husky Oil Operations Limited
Cold Lake Oil Sands Area

App 10619A 6 Oct 2006

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 10619K 26 Jan 2015
Husky Oil Operations Limited
Upper Grand Rapids, Lower Grand Rapids,
Clearwater, Wabiskaw-McMurray Deposits
Cold Lake Oil Sands

App 10631B 10 Sep 2014
Crew Energy Inc.
Mannville Deposits Cold Lake Oil Sands

App 10647G 2 Oct 2017
Obsidian Energy Ltd.
Peace River - Bluesky

App 10716 8 Nov 2006
Penn West Energy Trust
Peace River - Belloy Formation

App 10725 20 Nov 2006
Canadian Natural Resources Limited
Upper & Lower Grand
Rapids, Clearwater, Wab-Mc deposits in the
Lindbergh sector
Cold Lake Oil Sands Area

App 10737 30 Nov 2006

App 10737A 15 Feb 2007
Cyries Energy
Peace River - Bluesky

App 10745D 2 Oct 2017
Obsidian Energy Ltd.
Peace River - Bluesky

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 10746C 17 Jan 2010
Shell Canada
Peace River - Bluesky

App 10780D 2 Oct 2017
Obsidian Energy Ltd.
Peace River - Bluesky

App 10812B 21 Oct 2013
Husky Oil Operations Limited
Cold Lake Oil Sands Area - Lindbergh

App 10828C 4 Oct 2016
Devon Canada Corporation
Cold Lake Oil Sands Area

App 10853C 7 Apr 2015
Gear Energy Ltd.
Cold Lake Oil Sands Area

App 10863 2 May 2007
Husky Oil Operations Limited
Cold Lake Oil Sands Area

App 10882 22 May 2007
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 10915C 6 Feb 2017
Baytex Energy Ltd.
Peace River Oil Sands Area

App 11016 23 Oct 2007

App 11016A 27 Aug 2009
Canadian Natural Resources Limited
Cold Lake Oil Sands

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 11018A 22 Feb 2012
Frog Lake Sector, Cold Lake Oil Sands
Watch Resources Ltd.

App 11041 9 November 2007

App 11041E 17 Jul 2014
Husky Oil Operations Limited
Cold Lake Oil Sands

App 11060K 5 Oct 2017
Obsidian Energy Ltd.
Peace River Oil Sands Area

App 11099A 6 Dec 2011
Penn West Petroleum Ltd.
Peace River Oil Sands Area

App 11164 20 Mar 2008
Canadian Coastal Resources Ltd.
Athabasca Oil Sands Area

App 11165 20 Mar 2008
Canadian Coastal Resources Ltd.
Athabasca Oil Sands Area

App 11166 20 Mar 2008
Canadian Coastal Resources Ltd.
Athabasca Oil Sands Area

App 11188 4 Jun 2008

App 11188B 21 Feb 2012
Canadian Natural Resources Limited
Cold Lake Oil Sands

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 11191B 16 Jun 2017
West Lake Energy Corp.
Cold Lake Oil Sands

App 11192 4 Jun 2008
Husky Oil Operations Limited
Cold Lake Oil Sands

App 11205 27 May 2008
Husky Oil Operations Limited
Cold Lake Oil Sands

App 11220 11 Sep 2008
Koch Exploration Canada Ltd.
Peace River Oil Sands Area

App 11227D 4 Jun 2014
Canadian Natural Resources Limited
Cold Lake Oil Sands

App 11246C 23 Feb 2015
Husky Oil Operations Limited
Cold Lake Oil Sands

App 11256 15 Dec 2008

App 11256I 29 Nov 2017
West Lake Energy Corp.
Cold Lake Oil Sands Area

App 11257D 14 Dec 2012
Baytex Energy Ltd.
Peace River Oil Sands Area

App 11275 18 Dec 2008
Husky Oil Operations Limited
Cold Lake Oil Sands Area

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 11287A 5 July 2011
Husky Oil Operations Limited
Cold Lake Oil Sands

App 12229A 31 May 2017
Cold Lake Oil Sands Area
Check Energy Ltd.

App 11306C 6 Feb 2017
Baytex Energy Ltd.
Peace River Oil Sands Area

App 11307A 13 Jan 2010
Canadian Natural Resources Limited
Athabasca Oil Sands Area

App 11327A 27 Nov 2013
Baytex Energy Ltd.
Peace River Oil Sands Area

App 11349 16 Jul 2009
Canadian Natural Resources Limited
Peace River Oil Sands Area

App 11350 16 Jul 2009
Husky Oil Operations Limited
Cold Lake Oil Sands

App 11362 9 Oct 2009
Husky Oil Operations Limited
Cold Lake Oil Sands

App 11363B 18 Sep 2014
BlackPearl Resources Inc.
Cold Lake Oil Sands

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 11364C 13 Jul 2016
BlackPearl Resources Inc.
Cold Lake Oil Sands

App 11372A 25 Oct 2010
Laricina Energy Ltd.
Athabasca Oil Sands Area

App 11382D 11 April 2014
Sunshine Oilsands Ltd
Athabasca Oil Sands Area

App 11383A 17 Mar 2016
Canadian Natural Resources Limited
Cold Lake Oil Sands

App 11416 7 May 2010
Husky Oil Operations Limited
Cold Lake Oil Sands

App 11428 18 May 2010

App 11428D 3 Jul 2014
Canadian Natural Resources Limited
Cold Lake Oil Sands

App 11429A 22 Jan 2011
Solara Exploration Ltd.
Cold Lake Oil Sands

App 11437A 5 Feb 2013
Baytex Energy Ltd.
Peace River Oil Sands Area

App 11450 8 Jul 2010
Husky Oil Operations Limited
Cold Lake Oil Sands Area

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 11477J 18 Jan 2018
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 11480A 22 July 2011
Canadian Natural Resources Limited
Athabasca Oil Sands Area

App 11481 18 Jul 2010
Canadian Natural Resources Limited
Cold Lake Oil Sands

App 11501 26 Aug 2010
Husky Oil Operations Limited
Athabasca Oil Sands Area

App 11503A 5 July 2011
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 11535 24 Nov 2010
Rife Resources Ltd.
Cold Lake Oil Sands Area

App 11538 21 Jan 2011
Cold Lake Oil Sands Area
Canadian Natural Resources Limited

App 11545 8 Dec 2010
Cold Lake Oil Sands Area
Bellatrix Exploration Ltd.

App 11556A 30 May 2017
Peace River Oil Sands Area
Canadian Natural Upgrading Limited

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 11557A 30 May 2017
Peace River Oil Sands Area
Canadian Natural Upgrading Limited

App 11566 21 Jan 2011
Cold Lake Oil Sands Area
Canadian Natural Resources Limited

App 11567A 1 Dec 2017
Cold Lake Oil Sands Area
Canadian Natural Resources Limited

App 11568 21 Jan 2011
Cenovus Energy Inc.
Cold Lake Oil Sands Area

App 11569A 1 Dec 2017
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 11573A 11 Aug 2014
Peace River Oil Sands Area
Perpetual Energy Operating Corp.

App 11574A 9 Dec 2011
Cold Lake Oil Sands Area
Canadian Natural Resources Limited

App 11577 2 Feb 2011
Peace River Oil Sands Area
Baytex Energy Ltd.

App 11592C 31 Mar 2017
Athabasca Oil Sands Area
Spur Petroleum Ltd.

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 11631B 30 Oct 2012
Cold Lake Oil Sands
Cenovus Energy Inc.

App 11634D 1 Dec 2017
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11676 3 Apr 2012
Canadian Natural Resources Limited
Athabasca Oil Sands Area

App 11692 12 June 2012

App 11692D 29 Jan 2018
Baytex Energy Ltd.
Bluesky-Gething Peace River Oil Sands

App 11693B 8 Dec 2014
Murphy Oil Company Ltd.
Bluesky-Gething Peace River Oil Sands

App 11703A 5 Oct 2012
Class II disposal
BlackPearl Resources Inc.

App 11720 9 Dec 2011
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11721 9 Dec 2011
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11722 9 Dec 2011
Cold Lake Oil Sands
Canadian Natural Resources Limited

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 11723 9 Dec 2011
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11724 9 Dec 2011
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11725 9 Dec 2011
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11726A 1 Dec 2017
Cold Lake Oil Sands Area
Canadian Natural Resources Limited

App 11727A 1 Dec 2017
Cold Lake Oil Sands Area
Canadian Natural Resources Limited

App 11728A 1 Dec 2017
Cold Lake Oil Sands Area
Canadian Natural Resources Limited

App 11729A 1 Dec 2017
Cold Lake Oil Sands Area
Canadian Natural Resources Limited

App 11730A 1 Dec 2017
Athabasca Oil Sands Area
Canadian Natural Resources Limited

App 11744 9 Dec 2011
Cold Lake Oil Sands
Cenovus Energy Inc.

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 11745 9 Dec 2011
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11751A 5 Feb 2014
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11770C 6 Feb 2017
Peace River Oil Sands Area
Baytex Energy Ltd.

App 11779 3 Feb 2012
Athabasca Oil Sands Area
Perpetual Energy Inc.

App 11822 26 Apr 2012
Husky Oil Operations Limited
Cold Lake Oil Sands
App 11885 20 Sep 2012

App 11885B 2 June 2014
Gear Energy Ltd
Cold Lake Oil Sands Area

App 11893 15 Aug 2012
Perpetual Energy Operating Corp.
Cold Lake Oil Sands Area

App 11915 24 Jul 2014
Peace River Oil Sands Area
Baytex Energy Ltd.

App 11917 9 Oct 2012
Cold Lake Oil Sands Area
Rife Resources Ltd.

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 11936A 8 Jan 2013
Peace River Oil Sands Area
Baytex Energy Ltd.

App 11945 25 Oct 2012
Cold Lake Oil Sands Area
Baytex Energy Ltd.

App 11965 7 Feb 2013

App 11965A 26 Jun 2014
Athabasca Oil Sands Area
Canadian Natural Resources Limited

App 12043A 22 Sep 2016
Cold Lake Oil Sands Area
Perpetual Operating Corp.

App 12052 23 July 2013
Canadian Natural Resources Limited
Athabasca Oil Sands Area
Canadian Natural Resources Limited

App 12054B 7 Sep 2017
Cold Lake Oil Sands Area
West Lake Energy Corp.

App 12139 17 Sept 2013
Harvest Operations Corp.
Cold Lake Oil Sands Area

App 12142 17 Oct 2013
Husky Oil Operations Limited
Cold Lake Oil Sands Area

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 12218F 20 Oct 2017
Deltastream Energy Corporation
Athabasca Oil Sands Area

App 12226 24 Feb 2014
Canadian Natural Resources Limited
Cold Lake Oil Sands Area

App 12294 7 Nov 2014
Baytex Energy Ltd.
Peace River Oil Sands Area

App 12318A 28 Jul 2015
Cold Lake Oil Sands
Devon Canada Corporation

App 12321 23 Oct 2014
Cold Lake Oil Sands
Devon Canada Corporation

App 12335A 16 Jun 2017
Cold Lake Oil Sands
West Lake Energy Corp.

App 12411 24 Jun 2015
Cold Lake Oil Sands
Rife Resources Ltd.

App 12471H 2 Jun 2017
Athabasca Oil Sands Area
Spur Petroleum Ltd.

App 12483A 20 Dec 2017
Peace River Oil Sands Area
Baytex Energy Ltd.

**PRIMARY RECOVERY SCHEMES
(cont'd)**

App 12541A 31 Mar 2017
Athabasca Oil Sands Area
Spur Petroleum Ltd.

App 12545C 30 Jan 2018
Athabasca Oil Sands Area
Spur Petroleum Ltd.

App 12564 4 Oct 2016
Peace River Oil Sands Area
Prosper Petroleum Ltd.

App 12572A 11 Sep 2017
Athabasca Oil Sands Area
Cenovus Energy Inc.

App 12581 2 Feb 2017
Cold Lake Oil Sands Area
Devon Canada Corporation

App 12642A 3 Jan 2018
Athabasca Oil Sands Area
Spur Petroleum Ltd.

App 12580 15 Dec 2017
Athabasca Oil Sands Area
Canadian Natural Resources Limited

App 12689 25 Jan 2018
Athabasca Oil Sands Area
Koch Oil Sands Operating ULC

CENTRAL PROCESSING FACILITY

App 11619A 24 May 2013
Cold Lake Oil Sands
Broadview Energy Ltd.

**CENTRAL PROCESSING FACILITY
(cont'd)**

App 11620A 5 Aug 2014
Cold Lake Oil Sands
Frog Lake Energy Resources Corp.

App 11622 26 Sept 2011
Athabasca Oil Sands Area
Trafina Energy Ltd.

App 11624 7 Sept 2011
App 11624A 9 Dec 2011

App 11624G 1 Dec 2017
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11629C 1 Dec 2017
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11630C 1 Dec 2017
Cold Lake Oil Sands Area
Canadian Natural Resources Limited

App 11633 7 Sept 2011
Cold lake Oil Sands
Cenovus Energy Inc.

App 11643 7 Sept 2011

App 11647E 18 Dec 2017
Cold Lake Oil Sands
Canadian Natural Resources Limited

App 11661A 25 Apr 2013
Cold Lake Oil Sands Area
Palliser Oil and Gas Corporation

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CENTRAL PROCESSING FACILITY

(cont'd)

App 8932C 15 Dec 2008

Petromin Resources Ltd.

Frog Lake Sector

App 12329A 6 Nov 2017

Field Upgrading Limited

FIELD DESIGNATION

0666 2011-02-01 OKOTOKS FIELD

POOL DESIGNATION

0666 118801 2007-04-01 LOWER EDMONTON A
0666 118802 2006-11-01 LOWER EDMONTON B
0666 118804 2008-01-01 LOWER EDMONTON D
0666 118805 2011-02-01 LOWER EDMONTON E
0666 118809 2010-04-01 LOWER EDMONTON I
0666 118813 2011-02-01 LOWER EDMONTON M
0666 118816 2010-04-01 LOWER EDMONTON P
0666 118817 2014-02-01 LOWER EDMONTON Q

0666 126003 2005-02-01 BELLY RIVER C
0666 126008 2006-11-01 BELLY RIVER H

0666 134005 2006-11-01 BASAL BELLY RIVER E
0666 134011 2011-01-01 BASAL BELLY RIVER K
0666 134014 2010-04-01 BASAL BELLY RIVER N
0666 134019 2010-11-01 BASAL BELLY RIVER S

0666 336001 2010-04-01 ELLERSLIE A
0666 336002 2001-04-01 ELLERSLIE B

0666 344001 2005-07-01 CUTBANK A
0666 344002 2004-11-01 CUTBANK B
0666 344003 2010-07-01 CUTBANK C
0666 344004 2006-01-01 CUTBANK D
0666 344005 2006-03-01 CUTBANK E
0666 344006 2007-06-01 CUTBANK F
0666 344007 2010-08-01 CUTBANK G
0666 344008 2011-05-01 CUTBANK H

0666 610001 2001-02-01 RUNDLE A
0666 610002 2001-02-01 RUNDLE B
0666 610003 2001-02-01 RUNDLE C

POOL DESIGNATION (cont'd)

0666 610004 2001-03-01	RUNDLE D
0666 610005 2002-02-01	RUNDLE E
0666 658001 2001-02-01	WABAMUN A
0666 658002 2012-03-01	WABAMUN B
0666 658003 2014-04-01	WABAMUN C
0666 658005 2005-03-01	WABAMUN E
0666 850600 2011-02-01	MFP8506 BELLY RIVER
0666 854300 2014-01-01	MFP8543 BSL BELLY RIV
0666 859500 2011-02-01	MFP8595 LWR EDMONTON

SPACING PATTERN

SU 2458	10 Jan 1996
SU 2458A	17 Oct 2001
SU 2458B	16 Jul 2004
SU 2458C	2 Apr 2005
SU 2458D	30 Aug 2005
SU 2458E	23 Nov 2005
SU 2458F	28 Nov 2005
SU 2458G	22 Feb 2006
SU 2458H	2 May 2007

COMPULSORY POOLING

P 248	6 Feb 2004
P 248A	31 Aug 2004
Gas	
31-019-28W4M	
Compton Petroleum Corp.	

MISCELLANEOUS ORDERS

MISC 8615 21 Oct 1986
Emergency shutdown valve

SUBSURFACE DISPOSAL SCHEMES

App 8404C 29 Apr 2015
Class Ib
MFC Energy Corporation

FIELD DESIGNATION

1195 2008-01-01 OLSON FIELD

POOL DESIGNATION

1195 176001 2011-09-01 CARDIUM A
1195 176002 2011-09-01 CARDIUM B
1195 176003 2011-10-01 CARDIUM C
1195 176004 2011-10-01 CARDIUM D
1195 176005 2011-10-01 CARDIUM E
1195 176006 2012-02-01 CARDIUM F
1195 176007 2012-03-01 CARDIUM G
1195 176008 2012-03-01 CARDIUM H

1195 192001 2010-04-01 DUNVEGAN A
1195 192002 2011-10-01 DUNVEGAN B
1195 192003 2012-02-01 DUNVEGAN C

1195 218001 2010-04-01 VIKING A

1195 228001 2010-04-01 PEACE RIVER A

1195 264001 2012-03-01 SPIRIT RIVER A

1195 271501 2012-03-01 FALHER A

1195 304001 2010-04-01 BLUESKY A
1195 304002 2012-03-01 BLUESKY B

1195 326001 2010-04-01 GETHING A
1195 326002 2013-04-01 GETHING B

1195 348001 2010-04-01 CADOMIN A
1195 348002 2010-04-01 CADOMIN B
1195 348003 2012-03-01 CADOMIN C

FIELD DESIGNATION

0663 2013-07-01 OMEGA FIELD

POOL DESIGNATION

0663 218001 2011-07-01 VIKING A
0663 218002 2014-02-01 VIKING B

0663 256002 2001-02-01 COLONY B
0663 256003 2001-02-01 COLONY C
0663 256004 2001-02-01 COLONY D
0663 256005 2009-03-01 COLONY E
0663 256006 2010-04-01 COLONY F
0663 256007 2012-05-01 COLONY G
0663 256008 2012-05-01 COLONY H
0663 256009 2012-05-01 COLONY I
0663 256010 2012-05-01 COLONY J
0663 256011 2012-05-01 COLONY K
0663 256012 2012-05-01 COLONY L

0663 268001 2016-01-01 MCLAREN A
0663 268002 2011-03-01 MCLAREN B
0663 268003 2011-09-01 MCLAREN C
0663 268004 2014-10-01 MCLAREN D
0663 268005 2013-11-01 MCLAREN E
0663 268006 2016-10-01 MCLAREN F
0663 268007 2016-10-01 MCLAREN G

0663 270001 2011-12-01 WASECA A
0663 270002 2012-04-01 WASECA B

0663 276001 2010-07-01 SPARKY A
0663 276003 2010-04-01 SPARKY C
0663 276005 2001-02-01 SPARKY E
0663 276007 2001-02-01 SPARKY G
0663 276008 2009-12-01 SPARKY H
0663 276011 2009-04-01 SPARKY K

POOL DESIGNATION (cont'd)

0663 276012 2012-05-01	SPARKY L
0663 276013 2012-05-01	SPARKY M
0663 276014 2013-03-01	SPARKY N
0663 286001 2001-02-01	GENERAL PETROLEUM A
0663 286002 2006-01-01	GENERAL PETROLEUM B

SUBSURFACE DISPOSAL SCHEMES

App 11973A 9 Mar 2017
Class II
Devon Canada Corporation

FIELD DESIGNATION

0728 2001-02-01

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0665 2001-02-01 ORION FIELD

POOL DESIGNATION

0665 213001 2001-02-01 BOW ISLAND A

0665 332001 2001-02-01 SUNBURST A

0665 428001 2001-02-01 SAWTOOTH A

0665 428002 2001-02-01 SAWTOOTH B

FIELD DESIGNATION

0671 2004-12-01 OSBORN FIELD

POOL DESIGNATION

0671 304001 2001-02-01 BLUESKY A

0671 304002 2001-09-01 BLUESKY B

0671 326001 2004-08-01 GETHING A

0671 326002 2001-02-01 GETHING B

0671 326003 2001-02-01 GETHING C

SPACING PATTERN

SU 2710 7 May 1996

COMMINGLED PRODUCTION

MU 1272 3 Jan 1996

FIELD DESIGNATION

0670 2014-03-01 OYEN FIELD

POOL DESIGNATION

0670 126002 2010-04-01 BELLY RIVER B
0670 126003 2001-02-01 BELLY RIVER C
0670 126004 2010-04-01 BELLY RIVER D
0670 126008 2010-04-01 BELLY RIVER H
0670 126009 2010-04-01 BELLY RIVER I
0670 126010 2001-07-01 BELLY RIVER J
0670 126011 2001-02-01 BELLY RIVER K
0670 126012 2001-02-01 BELLY RIVER L
0670 126013 2001-02-01 BELLY RIVER M
0670 126014 2001-02-01 BELLY RIVER N
0670 126015 2001-02-01 BELLY RIVER O
0670 126016 2001-03-01 BELLY RIVER P
0670 126017 2007-05-01 BELLY RIVER Q
0670 126018 2007-05-01 BELLY RIVER R
0670 126019 2007-06-01 BELLY RIVER S
0670 126020 2010-02-01 BELLY RIVER T
0670 126021 2010-02-01 BELLY RIVER U
0670 126022 2010-02-01 BELLY RIVER V
0670 126023 2010-02-01 BELLY RIVER W
0670 126024 2010-04-01 BELLY RIVER X
0670 126025 2010-03-01 BELLY RIVER Y
0670 126026 2014-03-01 BELLY RIVER Z

0670 134001 2005-07-01 BASAL BELLY RIVER A

0670 218001 2010-04-01 VIKING A
0670 218002 2010-04-01 VIKING B
0670 218003 2001-02-01 VIKING C
0670 218004 2001-02-01 VIKING D
0670 218005 2001-02-01 VIKING E
0670 218006 2001-02-01 VIKING F
0670 218007 2010-04-01 VIKING G

POOL DESIGNATION (cont'd)

0670 218008 2011-09-01	VIKING H
0670 218009 2001-02-01	VIKING I
0670 218010 2001-02-01	VIKING J
0670 218011 2010-02-01	VIKING K
0670 218012 2001-02-01	VIKING L
0670 218013 2005-08-01	VIKING M
0670 218014 2008-11-01	VIKING N
0670 250001 2001-02-01	UPPER MANNVILLE A
0670 250002 2001-02-01	UPPER MANNVILLE B
0670 250003 2010-04-01	UPPER MANNVILLE C
0670 250004 2002-01-01	UPPER MANNVILLE D
0670 250005 2001-12-01	UPPER MANNVILLE E
0670 250006 2001-09-01	UPPER MANNVILLE F
0670 250007 2002-04-01	UPPER MANNVILLE G
0670 250008 2003-02-01	UPPER MANNVILLE H
0670 250009 2004-01-01	UPPER MANNVILLE I
0670 250010 2002-02-01	UPPER MANNVILLE J
0670 250011 2003-01-01	UPPER MANNVILLE K
0670 250012 2010-02-01	UPPER MANNVILLE L
0670 250013 2004-03-01	UPPER MANNVILLE M
0670 250014 2003-07-01	UPPER MANNVILLE N
0670 250015 2004-01-01	UPPER MANNVILLE O
0670 250016 2010-04-01	UPPER MANNVILLE P
0670 250017 2004-02-01	UPPER MANNVILLE Q
0670 250018 2004-07-01	UPPER MANNVILLE R
0670 250019 2005-02-01	UPPER MANNVILLE S
0670 250020 2005-02-01	UPPER MANNVILLE T
0670 250021 2005-05-01	UPPER MANNVILLE U
0670 250022 2005-05-01	UPPER MANNVILLE V
0670 250023 2006-10-01	UPPER MANNVILLE W
0670 250024 2006-10-01	UPPER MANNVILLE X
0670 250025 2007-05-01	UPPER MANNVILLE Y
0670 250026 2010-02-01	UPPER MANNVILLE Z
0670 250027 2008-11-01	UPPER MANNVILLE AA
0670 250029 2009-07-01	UPPER MANNVILLE CC
0670 250030 2010-03-01	UPPER MANNVILLE DD
0670 250031 2010-03-01	UPPER MANNVILLE EE

POOL DESIGNATION (cont'd)

0670 250032 2014-03-01 UPPER MANNVILLE FF

0670 350003 2010-04-01 DETRITAL C

0670 350004 2001-03-01 DETRITAL D

0670 350005 2005-02-01 DETRITAL E

0670 350006 2005-07-01 DETRITAL F

0670 350007 2007-06-01 DETRITAL G

0670 350008 2007-10-01 DETRITAL H

0670 350009 2009-08-01 DETRITAL I

0670 350010 2010-03-01 DETRITAL J

0670 644001 2001-02-01 BANFF A

0670 644002 2003-03-01 BANFF B

0670 644003 2005-08-01 BANFF C

0670 646001 2001-02-01 BAKKEN A

SPACING PATTERN

SU 4222 22 Oct 2004

SU 4222A 13 Dec 2004

COMMINGLED PRODUCTION

MU 5678 2 Jun 2006

GAS ALLOWABLE

GA 348 21 Oct 1998

GA 349 18 Dec 1998