

FIELD DESIGNATION

1015 2013-07-01 CABIN CREEK FIELD

POOL DESIGNATION

1015 148001 2008-12-01 WAPIABI A

1015 176001 2007-10-01 CARDIUM A

1015 176002 2014-04-01 CARDIUM B

1015 176003 2013-09-01 CARDIUM C

1015 192001 2008-03-01 DUNVEGAN A

1015 192002 2006-06-01 DUNVEGAN B

1015 192003 2011-11-01 DUNVEGAN C

1015 192004 2007-10-01 DUNVEGAN D

1015 192006 2008-09-01 DUNVEGAN F

1015 192007 2008-09-01 DUNVEGAN G

1015 192010 2011-01-01 DUNVEGAN J

1015 192011 2013-09-01 DUNVEGAN K

1015 232001 2008-03-01 CADOTTE A

1015 264001 2013-07-01 SPIRIT RIVER A

1015 348003 2010-04-01 CADOMIN C

1015 348004 2013-07-01 CADOMIN D

1015 408001 2010-04-01 NIKANASSIN A

1015 508001 2011-02-01 CHARLIE LAKE A

1015 508002 2004-12-01 CHARLIE LAKE B

1015 508003 2007-01-01 CHARLIE LAKE C

1015 508004 2010-04-01 CHARLIE LAKE D

1015 508005 2006-03-01 CHARLIE LAKE E

1015 508006 2007-10-01 CHARLIE LAKE F

1015 508007 2008-05-01 CHARLIE LAKE G

POOL DESIGNATION (cont'd)

1015 508008 2012-02-01 CHARLIE LAKE H
1015 508009 2011-10-01 CHARLIE LAKE I

SPACING PATTERN

SU 2902 14 Oct 1998

COMMINGLED PRODUCTION

MU 6525 3 Apr 2007

FIELD DESIGNATION

0182 2014-06-01 CACHE FIELD

POOL DESIGNATION

0182 218001 2012-06-01 VIKING A
0182 218002 2011-05-01 VIKING B
0182 218003 2012-06-01 VIKING C
0182 218004 2007-11-01 VIKING D
0182 218005 2012-06-01 VIKING E
0182 218006 2001-03-01 VIKING F
0182 218007 2012-06-01 VIKING G
0182 218008 2001-03-01 VIKING H
0182 218009 2001-03-01 VIKING I
0182 218010 2001-03-01 VIKING J
0182 218011 2002-05-01 VIKING K
0182 218012 2004-05-01 VIKING L
0182 218013 2010-04-01 VIKING M
0182 218014 2011-04-01 VIKING N
0182 218015 2005-08-01 VIKING O
0182 218016 2005-10-01 VIKING P
0182 218017 2012-02-01 VIKING Q
0182 218018 2006-02-01 VIKING R
0182 218019 2006-09-01 VIKING S
0182 218020 2008-05-01 VIKING T
0182 218021 2007-09-01 VIKING U
0182 218022 2011-02-01 VIKING V
0182 218023 2011-02-01 VIKING W
0182 218024 2012-03-01 VIKING X
0182 218025 2014-06-01 VIKING Y
0182 218026 2014-06-01 VIKING Z
0182 218027 2014-06-01 VIKING AA

0182 250001 2007-01-01 UPPER MANNVILLE A

0182 256001 2010-04-01 COLONY A
0182 256002 2001-03-01 COLONY B

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------|
| 0182 256003 2004-02-01 | COLONY C |
| 0182 256004 2012-06-01 | COLONY D |
| 0182 256005 2012-06-01 | COLONY E |
| 0182 256006 2009-01-01 | COLONY F |
| 0182 256007 2012-06-01 | COLONY G |
| 0182 256008 2010-04-01 | COLONY H |
| 0182 256010 2010-04-01 | COLONY J |
| 0182 256011 2001-02-01 | COLONY K |
| 0182 256016 2001-02-01 | COLONY P |
| 0182 256017 2004-07-01 | COLONY Q |
| 0182 256018 2001-02-01 | COLONY R |
| 0182 256019 2001-03-01 | COLONY S |
| 0182 256020 2001-02-01 | COLONY T |
| 0182 256021 2001-02-01 | COLONY U |
| 0182 256026 2004-02-01 | COLONY Z |
| 0182 256027 2009-02-01 | COLONY AA |
| 0182 256028 2012-06-01 | COLONY BB |
| 0182 256029 2001-02-01 | COLONY CC |
| 0182 256030 2012-06-01 | COLONY DD |
| 0182 256031 2012-05-01 | COLONY EE |
| 0182 256032 2014-03-01 | COLONY FF |
| 0182 256034 2012-05-01 | COLONY HH |
| 0182 256035 2001-02-01 | COLONY II |
| 0182 256037 2001-02-01 | COLONY KK |
| 0182 256038 2001-02-01 | COLONY LL |
| 0182 256040 2005-12-01 | COLONY NN |
| 0182 256041 2004-03-01 | COLONY OO |
| 0182 256042 2002-04-01 | COLONY PP |
| 0182 256043 2006-05-01 | COLONY QQ |
| 0182 256044 2001-02-01 | COLONY RR |
| 0182 256045 2001-02-01 | COLONY SS |
| 0182 256046 2001-02-01 | COLONY TT |
| 0182 256047 2001-02-01 | COLONY UU |
| 0182 256048 2001-02-01 | COLONY VV |
| 0182 256049 2001-02-01 | COLONY WW |
| 0182 256050 2001-02-01 | COLONY XX |
| 0182 256052 2010-04-01 | COLONY ZZ |
| 0182 256401 2001-02-01 | COLONY AAA |

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------|
| 0182 256402 2001-02-01 | COLONY BBB |
| 0182 256403 2001-02-01 | COLONY CCC |
| 0182 256404 2001-02-01 | COLONY DDD |
| 0182 256405 2001-02-01 | COLONY EEE |
| 0182 256406 2001-02-01 | COLONY FFF |
| 0182 256407 2001-02-01 | COLONY GGG |
| 0182 256408 2001-02-01 | COLONY HHH |
| 0182 256409 2010-04-01 | COLONY III |
| 0182 256410 2001-03-01 | COLONY JJJ |
| 0182 256411 2001-03-01 | COLONY KKK |
| 0182 256412 2008-09-01 | COLONY LLL |
| 0182 256413 2001-03-01 | COLONY MMM |
| 0182 256415 2003-07-01 | COLONY OOO |
| 0182 256416 2001-03-01 | COLONY PPP |
| 0182 256417 2001-12-01 | COLONY QQQ |
| 0182 256418 2002-05-01 | COLONY RRR |
| 0182 256419 2002-05-01 | COLONY SSS |
| 0182 256420 2002-05-01 | COLONY TTT |
| 0182 256421 2002-09-01 | COLONY UUU |
| 0182 256422 2006-08-01 | COLONY VVV |
| 0182 256423 2010-04-01 | COLONY WWW |
| 0182 256424 2005-01-01 | COLONY XXX |
| 0182 256425 2012-04-01 | COLONY YYY |
| 0182 256426 2006-01-01 | COLONY ZZZ |
| 0182 256427 2009-01-01 | COLONY A2A |
| 0182 256428 2006-02-01 | COLONY B2B |
| 0182 256429 2011-05-01 | COLONY C2C |
| 0182 256430 2007-01-01 | COLONY D2D |
| 0182 256431 2007-07-01 | COLONY E2E |
| 0182 256432 2009-07-01 | COLONY F2F |
| 0182 256433 2014-06-01 | COLONY G2G |
| 0182 256434 2014-06-01 | COLONY H2H |
| 0182 256435 2014-06-01 | COLONY I2I |
| 0182 256436 2014-06-01 | COLONY J2J |
| 0182 256437 2014-06-01 | COLONY K2K |
| 0182 256438 2014-06-01 | COLONY L2L |
| 0182 256439 2014-06-01 | COLONY M2M |
| 0182 256440 2014-06-01 | COLONY N2N |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0182 256441 2014-06-01 | COLONY O2O |
| 0182 256442 2014-06-01 | COLONY P2P |
| 0182 256443 2014-06-01 | COLONY Q2Q |
| 0182 256444 2014-06-01 | COLONY R2R |
| 0182 256445 2014-06-01 | COLONY S2S |
| | |
| 0182 262001 2001-02-01 | GRAND RAPIDS A |
| 0182 262002 2001-02-01 | GRAND RAPIDS B |
| 0182 262003 2001-02-01 | GRAND RAPIDS C |
| 0182 262004 2001-02-01 | GRAND RAPIDS D |
| 0182 262005 2001-02-01 | GRAND RAPIDS E |
| 0182 262006 2005-04-01 | GRAND RAPIDS F |
| 0182 262007 2008-04-01 | GRAND RAPIDS G |
| 0182 262008 2002-05-01 | GRAND RAPIDS H |
| 0182 262010 2005-03-01 | GRAND RAPIDS J |
| 0182 262011 2010-04-01 | GRAND RAPIDS K |
| 0182 262012 2006-02-01 | GRAND RAPIDS L |
| 0182 262013 2006-09-01 | GRAND RAPIDS M |
| | |
| 0182 268001 2001-02-01 | MCLAREN A |
| 0182 268002 2001-03-01 | MCLAREN B |
| 0182 268003 2003-04-01 | MCLAREN C |
| 0182 268004 2004-09-01 | MCLAREN D |
| 0182 268005 2005-02-01 | MCLAREN E |
| 0182 268006 2006-01-01 | MCLAREN F |
| 0182 268007 2009-06-01 | MCLAREN G |
| | |
| 0182 270001 2001-02-01 | WASECA A |
| 0182 270002 2001-02-01 | WASECA B |
| 0182 270003 2001-02-01 | WASECA C |
| 0182 270004 2001-02-01 | WASECA D |
| 0182 270005 2001-02-01 | WASECA E |
| 0182 270006 2001-02-01 | WASECA F |
| 0182 270007 2001-02-01 | WASECA G |
| 0182 270008 2007-01-01 | WASECA H |
| 0182 270009 2007-02-01 | WASECA I |
| | |
| 0182 276002 2012-05-01 | SPARKY B |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|--------------|
| 0182 276003 | 2001-02-01 | SPARKY C |
| 0182 276004 | 2004-02-01 | SPARKY D |
| 0182 276005 | 2001-02-01 | SPARKY E |
| 0182 276006 | 2001-02-01 | SPARKY F |
| 0182 276007 | 2004-02-01 | SPARKY G |
| 0182 276008 | 2004-01-01 | SPARKY H |
| 0182 276010 | 2001-02-01 | SPARKY J |
| 0182 276011 | 2005-01-01 | SPARKY K |
| 0182 276012 | 2001-02-01 | SPARKY L |
| 0182 276013 | 2006-02-01 | SPARKY M |
| 0182 276014 | 2006-02-01 | SPARKY N |
| 0182 276015 | 2010-04-01 | SPARKY O |
| 0182 276016 | 2010-04-01 | SPARKY P |
| 0182 276017 | 2007-07-01 | SPARKY Q |
| 0182 276018 | 2014-06-01 | SPARKY R |
| 0182 276019 | 2014-06-01 | SPARKY S |
| | | |
| 0182 280002 | 2001-02-01 | CLEARWATER B |
| 0182 280003 | 2001-02-01 | CLEARWATER C |
| 0182 280004 | 2001-02-01 | CLEARWATER D |
| 0182 280005 | 2012-05-01 | CLEARWATER E |
| 0182 280007 | 2013-03-01 | CLEARWATER G |
| 0182 280008 | 2010-04-01 | CLEARWATER H |
| 0182 280009 | 2001-02-01 | CLEARWATER I |
| 0182 280010 | 2001-02-01 | CLEARWATER J |
| 0182 280011 | 2001-02-01 | CLEARWATER K |
| 0182 280012 | 2001-03-01 | CLEARWATER L |
| 0182 280013 | 2003-01-01 | CLEARWATER M |
| 0182 280014 | 2005-03-01 | CLEARWATER N |
| 0182 280015 | 2004-09-01 | CLEARWATER O |
| 0182 280016 | 2010-04-01 | CLEARWATER P |
| 0182 280017 | 2005-12-01 | CLEARWATER Q |
| 0182 280018 | 2014-06-01 | CLEARWATER R |
| 0182 280019 | 2014-06-01 | CLEARWATER S |
| | | |
| 0182 328001 | 2001-02-01 | MCMURRAY A |
| 0182 328002 | 2001-02-01 | MCMURRAY B |
| 0182 328003 | 2001-02-01 | MCMURRAY C |

POOL DESIGNATION (cont'd)

0182 328004 2001-02-01 MCMURRAY D
0182 328005 2001-02-01 MCMURRAY E

SPACING PATTERN

SU 2591 9 May 1996
SU 2591A 10 Dec 1996
SU 2591B 1 Mar 2002
SU 2591C 25 Apr 2006
SU 2591D 3 Oct 2006

COMMINGLED PRODUCTION

MU 8657 10 Jul 2014

SUBSURFACE DISPOSAL SCHEMES

App 8443 19 Feb 1999
Class II
Canadian Natural Resources Limited

FIELD DESIGNATION

0187 2015-07-01 CADOTTE FIELD

POOL DESIGNATION

0187 230002 2015-12-01 PADDY B

0187 232001 2011-09-01 CADOTTE A

0187 264001 2010-10-01 SPIRIT RIVER A

0187 264002 2010-10-01 SPIRIT RIVER B

0187 264003 2010-10-01 SPIRIT RIVER C

0187 264004 2010-10-01 SPIRIT RIVER D

0187 304001 2001-02-01 BLUESKY A

0187 304002 2012-05-01 BLUESKY B

0187 304004 2001-09-01 BLUESKY D

0187 304005 2004-11-01 BLUESKY E

0187 304006 2005-11-01 BLUESKY F

0187 305001 2005-11-01 BLUESKY-GETHING A

0187 305002 2012-05-01 BLUESKY-GETHING B

0187 612001 2012-05-01 DEBOLT A

0187 612002 2001-02-01 DEBOLT B

0187 612003 2010-09-01 DEBOLT C

0187 612004 2001-02-01 DEBOLT D

0187 612005 2001-02-01 DEBOLT E

0187 612006 2002-02-01 DEBOLT F

0187 640001 2003-11-01 SHUNDA A

SPACING PATTERN

SU 2756 2 May 1996

COMMINGLED PRODUCTION

MU 7794 13 Apr 2011

GAS STORAGE SCHEMES

App 11447B 30 May 2017
Bluesky-Gething A
Canadian Natural Upgrading Limited

GAS STORAGE SCHEMES (cont'd)

App 12464A 31 Jan 2018
Paddy B
Baytex Energy Ltd.

SUBSURFACE DISPOSAL SCHEMES

App 6308 6 Sep 1990
Class II
Shell Canada Limited

App 9953D 30 May 2017
Class II
Canadian Natural Upgrading Limited

App 10851B 29 Jul 2011
Class Ib
CCS Corporation

App 11069A 12 Sep 2017
Class II
Obsidian Energy Ltd.

FIELD DESIGNATION

0183 2008-01-01 CALAIS FIELD

POOL DESIGNATION

0183 304001 2010-02-01 BLUESKY A

0183 326002 2001-02-01 GETHING B
0183 326003 2001-02-01 GETHING C
0183 326004 2003-02-01 GETHING D
0183 326005 2004-04-01 GETHING E
0183 326006 2004-01-01 GETHING F
0183 326007 2004-09-01 GETHING G
0183 326008 2004-09-01 GETHING H
0183 326009 2010-04-01 GETHING I
0183 326010 2011-02-01 GETHING J
0183 326012 2010-04-01 GETHING L
0183 326013 2008-02-01 GETHING M

0183 524001 2010-04-01 MONTNEY A
0183 524002 2003-08-01 MONTNEY B
0183 524003 2008-01-01 MONTNEY C

0183 720001 2010-04-01 D-3 A

SPACING PATTERN

SU 2754 1 May 1996

COMMINGLED PRODUCTION

MU 5252 9 Feb 2006

FIELD DESIGNATION

0184 2003-05-01 CALLING LAKE FIELD

POOL DESIGNATION

0184 250001 2001-02-01 UPPER MANNVILLE A

0184 262001 2010-04-01 GRAND RAPIDS A

0184 262002 2001-02-01 GRAND RAPIDS B

0184 262003 2001-02-01 GRAND RAPIDS C

0184 262004 2001-02-01 GRAND RAPIDS D

0184 262005 2001-02-01 GRAND RAPIDS E

0184 262006 2001-02-01 GRAND RAPIDS F

0184 262007 2001-02-01 GRAND RAPIDS G

0184 262008 2001-02-01 GRAND RAPIDS H

0184 262009 2003-05-01 GRAND RAPIDS I

0184 262010 2004-05-01 GRAND RAPIDS J

0184 262011 2004-06-01 GRAND RAPIDS K

0184 262012 2004-07-01 GRAND RAPIDS L

0184 262013 2004-07-01 GRAND RAPIDS M

0184 262014 2004-07-01 GRAND RAPIDS N

0184 262015 2004-11-01 GRAND RAPIDS O

0184 262016 2004-11-01 GRAND RAPIDS P

0184 262017 2007-07-01 GRAND RAPIDS Q

0184 262018 2009-01-01 GRAND RAPIDS R

0184 328001 2012-05-01 MCMURRAY A

0184 328002 2001-02-01 MCMURRAY B

0184 328003 2001-02-01 MCMURRAY C

0184 328004 2001-02-01 MCMURRAY D

0184 328005 2001-03-01 MCMURRAY E

0184 328006 2001-03-01 MCMURRAY F

0184 328007 2001-04-01 MCMURRAY G

0184 328008 2001-03-01 MCMURRAY H

0184 328009 2002-11-01 MCMURRAY I

0184 328010 2003-05-01 MCMURRAY J

0184 328011 2003-12-01 MCMURRAY K

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|-------|
| 0184 696001 | 2010-04-01 | D-2 A |
| 0184 696002 | 2010-04-01 | D-2 B |
| 0184 696003 | 2010-04-01 | D-2 C |
| 0184 696004 | 2001-07-01 | D-2 D |
| 0184 696005 | 2001-02-01 | D-2 E |
| 0184 696006 | 2011-09-01 | D-2 F |
| 0184 696007 | 2001-02-01 | D-2 G |
| 0184 696008 | 2001-02-01 | D-2 H |
| 0184 696010 | 2001-02-01 | D-2 J |
| 0184 696011 | 2001-02-01 | D-2 K |
| 0184 696012 | 2001-03-01 | D-2 L |

SPACING PATTERN

For gas production in association
with crude bitumen
See Oil Sands Areas, GB Orders

COMMINGLED PRODUCTION

MU 854 20 Aug 1991

FIELD DESIGNATION

0188 2010-12-01 CALLING LAKE SOUTH FIELD

POOL DESIGNATION

0188 262001 2001-02-01 GRAND RAPIDS A
0188 262002 2001-02-01 GRAND RAPIDS B
0188 262003 2009-03-01 GRAND RAPIDS C
0188 262004 2001-02-01 GRAND RAPIDS D
0188 262005 2001-03-01 GRAND RAPIDS E
0188 262007 2001-03-01 GRAND RAPIDS G
0188 262008 2011-06-01 GRAND RAPIDS H
0188 262010 2003-03-01 GRAND RAPIDS J
0188 262012 2010-04-01 GRAND RAPIDS L
0188 262013 2004-04-01 GRAND RAPIDS M
0188 262014 2004-05-01 GRAND RAPIDS N
0188 262015 2004-06-01 GRAND RAPIDS O
0188 262016 2005-02-01 GRAND RAPIDS P

0188 276001 2011-07-01 SPARKY A

0188 306001 2001-02-01 WABISKAW A
0188 306002 2004-05-01 WABISKAW B

0188 328001 2010-04-01 MCMURRAY A

0188 658001 2001-02-01 WABAMUN A
0188 658002 2001-02-01 WABAMUN B
0188 658003 2001-03-01 WABAMUN C
0188 658004 2001-11-01 WABAMUN D

SUBSURFACE DISPOSAL SCHEMES

App 8494 15 Apr 1999
Class II
Canadian Natural Resources Limited

FIELD DESIGNATION

0186 2009-06-01 CALLING LAKE WEST FIELD

POOL DESIGNATION

0186 250001 2001-07-01 UPPER MANNVILLE A
0186 250003 2010-04-01 UPPER MANNVILLE C
0186 250004 2001-02-01 UPPER MANNVILLE D
0186 250005 2004-07-01 UPPER MANNVILLE E
0186 250006 2004-05-01 UPPER MANNVILLE F
0186 250007 2003-02-01 UPPER MANNVILLE G
0186 250008 2001-02-01 UPPER MANNVILLE H
0186 250009 2001-02-01 UPPER MANNVILLE I
0186 250010 2001-03-01 UPPER MANNVILLE J
0186 250011 2001-03-01 UPPER MANNVILLE K
0186 250013 2001-09-01 UPPER MANNVILLE M

0186 262009 2001-08-01 GRAND RAPIDS I
0186 262010 2003-05-01 GRAND RAPIDS J
0186 262011 2013-09-01 GRAND RAPIDS K
0186 262012 2004-06-01 GRAND RAPIDS L
0186 262013 2004-08-01 GRAND RAPIDS M
0186 262014 2005-06-01 GRAND RAPIDS N
0186 262015 2009-01-01 GRAND RAPIDS O
0186 262016 2009-01-01 GRAND RAPIDS P

0186 280002 2003-10-01 CLEARWATER B
0186 280003 2008-04-01 CLEARWATER C

0186 310001 2012-05-01 LOWER MANNVILLE A
0186 310002 2001-02-01 LOWER MANNVILLE B
0186 310003 2010-04-01 LOWER MANNVILLE C

0186 328001 2004-11-01 MCMURRAY A
0186 328002 2012-05-01 MCMURRAY B

0186 658001 2012-05-01 WABAMUN A

POOL DESIGNATION (cont'd)

0186 658004 2001-02-01 WABAMUN D
0186 658005 2001-02-01 WABAMUN E

0186 670001 2001-02-01 WINTERBURN A

SPACING PATTERN

SU 2334 8 Sep 1995

COMMINGLED PRODUCTION

MU 5207 31 Jan 2006

SUBSURFACE DISPOSAL SCHEMES

App 8481A 23 Jan 2012
Class II
Sinopec Daylight Energy Ltd.

FIELD DESIGNATION

1017 2008-02-01 CAMERON HILLS FIELD

POOL DESIGNATION

1017 758001 2003-07-01 SLAVE POINT A

1017 767501 2008-06-01 SULPHUR POINT A

FIELD DESIGNATION

0185 2006-03-01 CAMPBELL-NAMAO FIELD

POOL DESIGNATION

0185 244001 2010-04-01 BLAIRMORE A
0185 244003 2001-02-01 BLAIRMORE C
0185 244004 2010-04-01 BLAIRMORE D
0185 244005 2010-04-01 BLAIRMORE E
0185 244006 2001-02-01 BLAIRMORE F
0185 244007 2002-10-01 BLAIRMORE G
0185 244008 2010-04-01 BLAIRMORE H
0185 244010 2004-08-01 BLAIRMORE J
0185 244012 2001-02-01 BLAIRMORE L
0185 244013 2001-02-01 BLAIRMORE M
0185 244014 2001-02-01 BLAIRMORE N
0185 244015 2010-04-01 BLAIRMORE O
0185 244016 2001-02-01 BLAIRMORE P
0185 244017 2001-02-01 BLAIRMORE Q
0185 244018 2001-02-01 BLAIRMORE R
0185 244019 2001-02-01 BLAIRMORE S
0185 244020 2001-02-01 BLAIRMORE T
0185 244021 2001-07-01 BLAIRMORE U
0185 244022 2001-02-01 BLAIRMORE V
0185 244025 2001-02-01 BLAIRMORE Y
0185 244026 2008-10-01 BLAIRMORE Z

0185 250001 2001-02-01 UPPER MANNVILLE A
0185 250002 2002-02-01 UPPER MANNVILLE B
0185 250003 2002-02-01 UPPER MANNVILLE C

0185 336002 2012-05-01 ELLERSLIE B
0185 336003 2007-06-01 ELLERSLIE C
0185 336004 2007-06-01 ELLERSLIE D

0185 658001 2001-02-01 WABAMUN A

SPACING PATTERN

SU 2236 5 Jun 1995

COMMINGLED PRODUCTION

MU 6596 19 Jun 2007

CONCURRENT PRODUCTION

App 2713 22 Sep 1978

App 2713A 10 Nov 1983

App 2713B 30 Dec 1992

Blairmore J

Canada Northwest Energy Limited

COMPULSORY POOLING

P 173 17 Nov 1998

Gas

34-054-25W4M

Post Energy Corporation

FIELD DESIGNATION

0191 2001-02-01 CANAL FIELD

POOL DESIGNATION

0191 250001 2001-02-01 UPPER MANNVILLE A

0191 256001 2001-02-01 COLONY A

0191 262001 2001-02-01 GRAND RAPIDS A

0191 262002 2001-02-01 GRAND RAPIDS B

0191 262003 2001-02-01 GRAND RAPIDS C

0191 262004 2004-08-01 GRAND RAPIDS D

0191 262005 2001-02-01 GRAND RAPIDS E

0191 262006 2001-02-01 GRAND RAPIDS F

0191 262007 2010-04-01 GRAND RAPIDS G

0191 262008 2001-02-01 GRAND RAPIDS H

0191 262009 2001-03-01 GRAND RAPIDS I

0191 262010 2001-03-01 GRAND RAPIDS J

0191 262011 2002-09-01 GRAND RAPIDS K

0191 262012 2002-10-01 GRAND RAPIDS L

0191 262013 2002-10-01 GRAND RAPIDS M

0191 262014 2004-05-01 GRAND RAPIDS N

0191 262015 2004-05-01 GRAND RAPIDS O

0191 262016 2004-07-01 GRAND RAPIDS P

0191 262017 2006-07-01 GRAND RAPIDS Q

0191 276001 2001-02-01 SPARKY A

0191 281001 2008-11-01 CLEARWATER A

0191 281002 2013-05-01 CLEARWATER B

0191 281003 2018-04-01 CLEARWATER C

0191 658002 2001-02-01 WABAMUN B

0191 658003 2001-02-01 WABAMUN C

0191 658004 2001-02-01 WABAMUN D

POOL DESIGNATION (cont'd)

0191 658005 2001-02-01 WABAMUN E

0191 658006 2001-02-01 WABAMUN F

FIELD DESIGNATION

0189 2012-02-01 CANARD FIELD

POOL DESIGNATION

0189 218001 2001-03-01 VIKING A
0189 218003 2010-04-01 VIKING C
0189 218005 2007-09-01 VIKING E
0189 218006 2009-10-01 VIKING F
0189 218007 2011-04-01 VIKING G
0189 218008 2011-06-01 VIKING H
0189 218009 2011-06-01 VIKING I
0189 218010 2012-03-01 VIKING J

0189 250004 2010-04-01 UPPER MANNVILLE D

0189 256004 2012-05-01 COLONY D
0189 256007 2001-02-01 COLONY G
0189 256013 2001-02-01 COLONY M
0189 256014 2001-02-01 COLONY N
0189 256016 2012-05-01 COLONY P
0189 256017 2001-02-01 COLONY Q
0189 256018 2004-11-01 COLONY R
0189 256019 2002-10-01 COLONY S

0189 262008 2010-04-01 GRAND RAPIDS H
0189 262009 2006-05-01 GRAND RAPIDS I
0189 262010 2009-04-01 GRAND RAPIDS J

0189 270001 2001-02-01 WASECA A
0189 270002 2007-02-01 WASECA B
0189 270003 2007-03-01 WASECA C
0189 270004 2004-10-01 WASECA D
0189 270005 2011-12-01 WASECA E

0189 276002 2010-04-01 SPARKY B
0189 276003 2010-04-01 SPARKY C

POOL DESIGNATION (cont'd)

0189 276004 2011-12-01 SPARKY D
0189 276005 2005-07-01 SPARKY E

0189 302001 2005-01-01 CUMMINGS A

COMMINGLED PRODUCTION

MU 7915 9 Jun 2011

**COMMON
CARRIER/PURCHASER/PROCESSOR**

MISC 7920 9 Jan 1980
Common purchaser
Canard Colony C

FIELD DESIGNATION

0192 2018-04-01 CAPRON FIELD

POOL DESIGNATION

0192 126002 2001-02-01 BELLY RIVER B

0192 134001 2005-06-01 BASAL BELLY RIVER A

0192 218001 2001-02-01 VIKING A
0192 218002 2001-02-01 VIKING B
0192 218003 2001-02-01 VIKING C
0192 218004 2001-02-01 VIKING D
0192 218005 2010-04-01 VIKING E
0192 218006 2003-11-01 VIKING F
0192 218007 2008-01-01 VIKING G
0192 218008 2014-01-01 VIKING H

0192 242001 2010-04-01 BASAL COLORADO A

0192 250001 2005-11-01 UPPER MANNVILLE A
0192 250002 2005-10-01 UPPER MANNVILLE B
0192 250003 2006-02-01 UPPER MANNVILLE C
0192 250004 2006-12-01 UPPER MANNVILLE D
0192 250005 2008-09-01 UPPER MANNVILLE E
0192 250006 2010-12-01 UPPER MANNVILLE F
0192 250009 2009-11-01 UPPER MANNVILLE I
0192 250010 2010-08-01 UPPER MANNVILLE J
0192 250011 2014-02-01 UPPER MANNVILLE K

0192 256001 2005-08-01 COLONY A
0192 256002 2007-05-01 COLONY B
0192 256003 2008-12-01 COLONY C

0192 310001 2017-07-01 LOWER MANNVILLE A

0192 350001 2001-02-01 DETRITAL A

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------------|
| 0192 350002 2001-02-01 | DETRITAL B |
| 0192 350003 2001-02-01 | DETRITAL C |
| 0192 350005 2005-08-01 | DETRITAL E |
| 0192 350007 2005-07-01 | DETRITAL G |
| 0192 350008 2010-04-01 | DETRITAL H |
| 0192 350009 2005-08-01 | DETRITAL I |
| 0192 350010 2008-05-01 | DETRITAL J |
| 0192 350011 2008-09-01 | DETRITAL K |
| 0192 350012 2008-11-01 | DETRITAL L |
| 0192 350013 2009-08-01 | DETRITAL M |
| 0192 350014 2009-04-01 | DETRITAL N |
| 0192 350015 2010-04-01 | DETRITAL O |
| | |
| 0192 351001 2005-07-01 | DETRITAL-BANFF A |
| | |
| 0192 644001 2005-08-01 | BANFF A |
| 0192 644003 2001-02-01 | BANFF C |
| 0192 644004 2001-02-01 | BANFF D |
| 0192 644005 2001-12-01 | BANFF E |
| 0192 644006 2003-09-01 | BANFF F |
| 0192 644007 2009-01-01 | BANFF G |
| 0192 644008 2008-11-01 | BANFF H |

COMMINGLED PRODUCTION

MU 4773 28 Oct 2005

FIELD DESIGNATION

0193 2003-02-01 CARDIFF FIELD

POOL DESIGNATION

0193 134001 2005-06-01 BASAL BELLY RIVER A
0193 134002 2010-04-01 BASAL BELLY RIVER B
0193 134003 2010-04-01 BASAL BELLY RIVER C

0193 218001 2001-02-01 VIKING A
0193 218002 2010-11-01 VIKING B

0193 250001 2002-12-01 UPPER MANNVILLE A
0193 250002 2008-05-01 UPPER MANNVILLE B

0193 336001 2012-05-01 ELLERSLIE A
0193 336002 2001-02-01 ELLERSLIE B
0193 336003 2004-08-01 ELLERSLIE C
0193 336004 2010-04-01 ELLERSLIE D
0193 336005 2001-02-01 ELLERSLIE E
0193 336006 2001-11-01 ELLERSLIE F
0193 336007 2001-03-01 ELLERSLIE G
0193 336008 2001-12-01 ELLERSLIE H
0193 336009 2003-05-01 ELLERSLIE I
0193 336010 2005-07-01 ELLERSLIE J
0193 336011 2005-02-01 ELLERSLIE K
0193 336012 2005-10-01 ELLERSLIE L
0193 336013 2005-10-01 ELLERSLIE M
0193 336014 2006-07-01 ELLERSLIE N

0193 658001 2012-05-01 WABAMUN A

SPACING PATTERN

SU 2613 3 Apr 1996
SU 2613A 27 May 1999

FIELD DESIGNATION

0195 2007-11-01 CARIBOU FIELD

POOL DESIGNATION

0195 218001 2001-02-01 VIKING A

0195 218002 2001-02-01 VIKING B

0195 326001 2007-11-01 GETHING A

0195 336001 2012-11-01 ELLERSLIE A

0195 336002 2012-02-01 ELLERSLIE B

0195 336003 2013-12-01 ELLERSLIE C

0195 744001 2012-08-01 BEAVERHILL LAKE A

0195 744002 2013-03-01 BEAVERHILL LAKE B

0195 744003 2013-03-01 BEAVERHILL LAKE C

SUBSURFACE DISPOSAL SCHEMES

App 11526F 1 Dec 2017

Class II

Clearview Resources Ltd.

FIELD DESIGNATION

1020 2013-03-01 CARMANGAY FIELD

POOL DESIGNATION

1020 186001 2011-09-01 SECOND WHITE SPECKS A

1020 204001 2018-02-01 BARONS A

1020 213001 2010-04-01 BOW ISLAND A
1020 213002 2001-02-01 BOW ISLAND B
1020 213003 2003-07-01 BOW ISLAND C
1020 213004 2003-08-01 BOW ISLAND D
1020 213005 2003-11-01 BOW ISLAND E
1020 213006 2005-02-01 BOW ISLAND F
1020 213007 2005-02-01 BOW ISLAND G
1020 213008 2006-08-01 BOW ISLAND H
1020 213009 2008-05-01 BOW ISLAND I

1020 300001 2014-09-01 GLAUCONITIC A

1020 332001 2001-03-01 SUNBURST A
1020 332002 2001-02-01 SUNBURST B
1020 332003 2001-02-01 SUNBURST C
1020 332004 2001-02-01 SUNBURST D
1020 332005 2001-11-01 SUNBURST E
1020 332006 2005-02-01 SUNBURST F
1020 332007 2005-02-01 SUNBURST G
1020 332008 2013-07-01 SUNBURST H

1020 628001 2011-07-01 LIVINGSTONE A

SPACING PATTERN

SU 2237 5 Jun 1995
SU 2237A 26 Sep 2006

ENHANCED RECOVERY SCHEMES

App 10294E 22 Sep 2016
Waterflood
Sunburst A
Houston Oil & Gas Ltd.

ENHANCED RECOVERY SCHEMES

(cont'd)

App 10506M 17 Nov 2017
Waterflood
Barons A
Firenze Energy Ltd.

App 11019I 17 Nov 2017
Waterflood
Barons A
Firenze Energy Ltd.

App 11136D 17 Nov 2017
Waterflood
Barons A
Firenze Energy Ltd.

App 11225C 17 Nov 2017
Waterflood
Barons A
Firenze Energy Ltd.

App 11226D 17 Nov 2017
Waterflood
Barons A
Firenze Energy Ltd.

App 11492J 17 Nov 2017
Waterflood
Barons A
Firenze Energy Ltd.

App 12107B 17 Nov 2017
Waterflood
Barons A
Firenze Energy Ltd.

FIELD DESIGNATION

0194 2015-04-01 CAROLINE FIELD

POOL DESIGNATION

0194 106001 2009-02-01 EDMONTON A
0194 118801 2009-02-01 LOWER EDMONTON A
0194 126001 2001-02-01 BELLY RIVER A
0194 162001 2001-02-01 FIRST WHITE SPECKS A

0194 176001 2001-02-01 CARDIUM A
0194 176002 2005-07-01 CARDIUM B
0194 176003 2010-04-01 CARDIUM C
0194 176004 2011-05-01 CARDIUM D
0194 176005 2010-04-01 CARDIUM E
0194 176007 2001-02-01 CARDIUM G
0194 176008 2001-02-01 CARDIUM H
0194 176009 2001-02-01 CARDIUM I
0194 176010 2010-04-01 CARDIUM J
0194 176011 2001-02-01 CARDIUM K
0194 176012 2001-02-01 CARDIUM L
0194 176013 2010-04-01 CARDIUM M
0194 176014 2001-02-01 CARDIUM N
0194 176015 2007-08-01 CARDIUM O
0194 176017 2001-02-01 CARDIUM Q
0194 176018 2010-07-01 CARDIUM R
0194 176020 2001-02-01 CARDIUM T
0194 176021 2015-12-01 CARDIUM U
0194 176022 2001-02-01 CARDIUM V
0194 176023 2010-04-01 CARDIUM W
0194 176026 2011-11-01 CARDIUM Z
0194 176027 2007-07-01 CARDIUM AA
0194 176028 2005-09-01 CARDIUM BB
0194 176029 2005-01-01 CARDIUM CC

POOL DESIGNATION (cont'd)

| | |
|------------------------|-----------------------|
| 0194 176030 2008-05-01 | CARDIUM DD |
| 0194 176031 2006-04-01 | CARDIUM EE |
| 0194 176032 2006-01-01 | CARDIUM FF |
| 0194 176033 2005-08-01 | CARDIUM GG |
| 0194 176034 2010-04-01 | CARDIUM HH |
| 0194 176035 2008-12-01 | CARDIUM II |
| 0194 176036 2006-12-01 | CARDIUM JJ |
| 0194 176037 2010-04-01 | CARDIUM KK |
| 0194 176038 2010-04-01 | CARDIUM LL |
| 0194 176039 2010-04-01 | CARDIUM MM |
| 0194 176040 2008-10-01 | CARDIUM NN |
| 0194 176041 2011-10-01 | CARDIUM OO |
| 0194 176042 2009-04-01 | CARDIUM PP |
| 0194 176043 2009-01-01 | CARDIUM QQ |
| 0194 176045 2010-04-01 | CARDIUM SS |
| 0194 176048 2012-01-01 | CARDIUM VV |
| 0194 176049 2017-11-01 | CARDIUM WW |
| 0194 176050 2012-09-01 | CARDIUM XX |
| 0194 176051 2013-10-01 | CARDIUM YY |
| 0194 176052 2013-10-01 | CARDIUM ZZ |
| 0194 186001 2001-02-01 | SECOND WHITE SPECKS A |
| 0194 186002 2001-02-01 | SECOND WHITE SPECKS B |
| 0194 186003 2001-02-01 | SECOND WHITE SPECKS C |
| 0194 218001 2012-05-01 | VIKING A |
| 0194 218005 2001-02-01 | VIKING E |
| 0194 218006 2001-02-01 | VIKING F |
| 0194 218007 2010-04-01 | VIKING G |
| 0194 218008 2001-02-01 | VIKING H |
| 0194 218012 2004-11-01 | VIKING L |
| 0194 218013 2007-10-01 | VIKING M |
| 0194 218014 2001-02-01 | VIKING N |
| 0194 218015 2001-02-01 | VIKING O |
| 0194 218016 2004-01-01 | VIKING P |
| 0194 218017 2001-02-01 | VIKING Q |
| 0194 218019 2010-04-01 | VIKING S |
| 0194 218020 2012-05-01 | VIKING T |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0194 218021 2005-06-01 | VIKING U |
| 0194 218023 2001-02-01 | VIKING W |
| 0194 218024 2012-07-01 | VIKING X |
| 0194 218025 2001-02-01 | VIKING Y |
| 0194 218026 2001-02-01 | VIKING Z |
| 0194 218027 2001-02-01 | VIKING AA |
| 0194 218028 2012-05-01 | VIKING BB |
| 0194 218032 2001-02-01 | VIKING FF |
| 0194 218034 2001-02-01 | VIKING HH |
| 0194 218035 2012-03-01 | VIKING II |
| 0194 218036 2001-07-01 | VIKING JJ |
| 0194 218037 2013-07-01 | VIKING KK |
| 0194 218038 2012-05-01 | VIKING LL |
| 0194 218041 2003-07-01 | VIKING OO |
| 0194 218042 2010-04-01 | VIKING PP |
| 0194 218044 2004-10-01 | VIKING RR |
| 0194 218045 2010-04-01 | VIKING SS |
| 0194 218046 2005-05-01 | VIKING TT |
| 0194 218047 2010-04-01 | VIKING UU |
| 0194 218048 2006-07-01 | VIKING VV |
| 0194 218049 2007-02-01 | VIKING WW |
| 0194 218050 2010-04-01 | VIKING XX |
| 0194 218051 2007-11-01 | VIKING YY |
| 0194 218052 2010-04-01 | VIKING ZZ |
| 0194 220401 2010-04-01 | VIKING AAA |
| 0194 220403 2010-04-01 | VIKING CCC |
| 0194 220404 2012-09-01 | VIKING DDD |
| 0194 220405 2013-07-01 | VIKING EEE |
| 0194 220406 2014-04-01 | VIKING FFF |
| 0194 220407 2016-06-01 | VIKING GGG |
| 0194 242001 2015-07-01 | BASAL COLORADO A |
| 0194 250001 2001-02-01 | UPPER MANNVILLE A |
| 0194 250003 2008-05-01 | UPPER MANNVILLE C |
| 0194 300003 2012-01-01 | GLAUCONITIC C |
| 0194 300006 2012-05-01 | GLAUCONITIC F |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|----------------|
| 0194 300007 | 2012-03-01 | GLAUCONITIC G |
| 0194 300008 | 2011-05-01 | GLAUCONITIC H |
| 0194 300009 | 2001-02-01 | GLAUCONITIC I |
| 0194 300010 | 2001-02-01 | GLAUCONITIC J |
| 0194 300011 | 2001-02-01 | GLAUCONITIC K |
| 0194 300012 | 2001-02-01 | GLAUCONITIC L |
| 0194 300014 | 2010-04-01 | GLAUCONITIC N |
| 0194 300015 | 2001-02-01 | GLAUCONITIC O |
| 0194 300016 | 2001-02-01 | GLAUCONITIC P |
| 0194 300017 | 2001-02-01 | GLAUCONITIC Q |
| 0194 300018 | 2010-04-01 | GLAUCONITIC R |
| 0194 300019 | 2010-04-01 | GLAUCONITIC S |
| 0194 300020 | 2001-04-01 | GLAUCONITIC T |
| 0194 300021 | 2003-09-01 | GLAUCONITIC U |
| 0194 300022 | 2012-03-01 | GLAUCONITIC V |
| 0194 300023 | 2005-11-01 | GLAUCONITIC W |
| 0194 300024 | 2010-04-01 | GLAUCONITIC X |
| 0194 300025 | 2010-04-01 | GLAUCONITIC Y |
| 0194 300027 | 2006-04-01 | GLAUCONITIC AA |
| 0194 300028 | 2010-04-01 | GLAUCONITIC BB |
| 0194 300029 | 2013-03-01 | GLAUCONITIC CC |
| 0194 300030 | 2010-04-01 | GLAUCONITIC DD |
| 0194 300032 | 2010-04-01 | GLAUCONITIC FF |
| 0194 300033 | 2016-01-01 | GLAUCONITIC GG |
| 0194 300034 | 2007-11-01 | GLAUCONITIC HH |
| 0194 300035 | 2010-04-01 | GLAUCONITIC II |
| 0194 300036 | 2010-04-01 | GLAUCONITIC JJ |
| 0194 300037 | 2010-04-01 | GLAUCONITIC KK |
| 0194 300039 | 2009-01-01 | GLAUCONITIC MM |
| 0194 300040 | 2009-02-01 | GLAUCONITIC NN |
| 0194 300041 | 2010-05-01 | GLAUCONITIC OO |
| 0194 300043 | 2012-03-01 | GLAUCONITIC QQ |
| 0194 300044 | 2010-04-01 | GLAUCONITIC RR |
| 0194 300045 | 2009-11-01 | GLAUCONITIC SS |
| 0194 300046 | 2011-04-01 | GLAUCONITIC TT |
| 0194 300047 | 2011-03-01 | GLAUCONITIC UU |
| 0194 300048 | 2011-09-01 | GLAUCONITIC VV |
| 0194 300049 | 2012-03-01 | GLAUCONITIC WW |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0194 300050 2012-09-01 | GLAUCONITIC XX |
| 0194 300051 2012-03-01 | GLAUCONITIC YY |
| 0194 300052 2013-03-01 | GLAUCONITIC ZZ |
| 0194 300901 2013-04-01 | GLAUCONITIC AAA |
| 0194 300902 2014-04-01 | GLAUCONITIC BBB |
| 0194 300903 2014-06-01 | GLAUCONITIC CCC |
| 0194 300904 2016-01-01 | GLAUCONITIC DDD |
| | |
| 0194 316001 2010-04-01 | OSTRACOD A |
| 0194 316002 2010-04-01 | OSTRACOD B |
| 0194 316003 2001-03-01 | OSTRACOD C |
| 0194 316004 2001-04-01 | OSTRACOD D |
| 0194 316005 2001-04-01 | OSTRACOD E |
| 0194 316007 2003-10-01 | OSTRACOD G |
| 0194 316008 2003-12-01 | OSTRACOD H |
| 0194 316009 2005-06-01 | OSTRACOD I |
| 0194 316010 2006-05-01 | OSTRACOD J |
| 0194 316011 2012-12-01 | OSTRACOD K |
| 0194 316012 2016-01-01 | OSTRACOD L |
| 0194 316013 2016-01-01 | OSTRACOD M |
| 0194 316014 2016-01-01 | OSTRACOD N |
| 0194 316015 2016-01-01 | OSTRACOD O |
| 0194 316016 2016-01-01 | OSTRACOD P |
| | |
| 0194 320001 2012-05-01 | BASAL MANNVILLE A |
| 0194 320002 2001-02-01 | BASAL MANNVILLE B |
| 0194 320006 2001-02-01 | BASAL MANNVILLE F |
| 0194 320007 2001-02-01 | BASAL MANNVILLE G |
| 0194 320009 2010-10-01 | BASAL MANNVILLE I |
| 0194 320011 2014-06-01 | BASAL MANNVILLE K |
| 0194 320012 2001-02-01 | BASAL MANNVILLE L |
| 0194 320014 2001-02-01 | BASAL MANNVILLE N |
| 0194 320015 2001-02-01 | BASAL MANNVILLE O |
| 0194 320018 2014-06-01 | BASAL MANNVILLE R |
| 0194 320020 2001-02-01 | BASAL MANNVILLE T |
| 0194 320022 2004-03-01 | BASAL MANNVILLE V |
| 0194 320023 2010-04-01 | BASAL MANNVILLE W |
| 0194 320025 2010-07-01 | BASAL MANNVILLE Y |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0194 320027 2008-05-01 | BASAL MANNVILLE AA |
| 0194 320029 2001-02-01 | BASAL MANNVILLE CC |
| 0194 320030 2001-02-01 | BASAL MANNVILLE DD |
| 0194 320031 2009-02-01 | BASAL MANNVILLE EE |
| 0194 320032 2001-02-01 | BASAL MANNVILLE FF |
| 0194 320033 2014-06-01 | BASAL MANNVILLE GG |
| 0194 320034 2008-06-01 | BASAL MANNVILLE HH |
| 0194 320036 2010-04-01 | BASAL MANNVILLE JJ |
| 0194 320038 2001-02-01 | BASAL MANNVILLE LL |
| 0194 320040 2004-03-01 | BASAL MANNVILLE NN |
| 0194 320041 2010-04-01 | BASAL MANNVILLE OO |
| 0194 320042 2010-04-01 | BASAL MANNVILLE PP |
| 0194 320043 2013-03-01 | BASAL MANNVILLE QQ |
| 0194 320044 2014-02-01 | BASAL MANNVILLE RR |
| 0194 320045 2001-02-01 | BASAL MANNVILLE SS |
| 0194 320050 2012-03-01 | BASAL MANNVILLE XX |
| 0194 320051 2012-03-01 | BASAL MANNVILLE YY |
| 0194 320052 2010-04-01 | BASAL MANNVILLE ZZ |
| 0194 320601 2010-04-01 | BASAL MANNVILLE AAA |
| 0194 320602 2008-05-01 | BASAL MANNVILLE BBB |
| 0194 320603 2008-05-01 | BASAL MANNVILLE CCC |
| 0194 320604 2001-02-01 | BASAL MANNVILLE DDD |
| 0194 320605 2001-02-01 | BASAL MANNVILLE EEE |
| 0194 320606 2001-02-01 | BASAL MANNVILLE FFF |
| 0194 320607 2001-02-01 | BASAL MANNVILLE GGG |
| 0194 320608 2001-02-01 | BASAL MANNVILLE HHH |
| 0194 320609 2001-02-01 | BASAL MANNVILLE III |
| 0194 320610 2001-02-01 | BASAL MANNVILLE JJJ |
| 0194 320611 2001-03-01 | BASAL MANNVILLE KKK |
| 0194 320612 2001-03-01 | BASAL MANNVILLE LLL |
| 0194 320613 2001-03-01 | BASAL MANNVILLE MMM |
| 0194 320614 2010-04-01 | BASAL MANNVILLE NNN |
| 0194 320615 2001-02-01 | BASAL MANNVILLE OOO |
| 0194 320616 2010-04-01 | BASAL MANNVILLE PPP |
| 0194 320617 2001-02-01 | BASAL MANNVILLE QQQ |
| 0194 320618 2011-05-01 | BASAL MANNVILLE RRR |
| 0194 320620 2001-02-01 | BASAL MANNVILLE TTT |
| 0194 320622 2001-02-01 | BASAL MANNVILLE VVV |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0194 320623 2001-02-01 | BASAL MANNVILLE WWW |
| 0194 320624 2001-02-01 | BASAL MANNVILLE XXX |
| 0194 320625 2001-02-01 | BASAL MANNVILLE YYY |
| 0194 320627 2001-02-01 | BASAL MANNVILLE A2A |
| 0194 320628 2001-03-01 | BASAL MANNVILLE B2B |
| 0194 320629 2001-02-01 | BASAL MANNVILLE C2C |
| 0194 320630 2001-02-01 | BASAL MANNVILLE D2D |
| 0194 320631 2001-02-01 | BASAL MANNVILLE E2E |
| 0194 320632 2010-07-01 | BASAL MANNVILLE F2F |
| 0194 320633 2006-09-01 | BASAL MANNVILLE G2G |
| 0194 320634 2001-02-01 | BASAL MANNVILLE H2H |
| 0194 320635 2001-02-01 | BASAL MANNVILLE I2I |
| 0194 320636 2010-07-01 | BASAL MANNVILLE J2J |
| 0194 320637 2012-03-01 | BASAL MANNVILLE K2K |
| 0194 320638 2012-03-01 | BASAL MANNVILLE L2L |
| 0194 320639 2001-03-01 | BASAL MANNVILLE M2M |
| 0194 320640 2001-03-01 | BASAL MANNVILLE N2N |
| 0194 320641 2001-03-01 | BASAL MANNVILLE O2O |
| 0194 320642 2001-03-01 | BASAL MANNVILLE P2P |
| 0194 320643 2001-03-01 | BASAL MANNVILLE Q2Q |
| 0194 320644 2001-03-01 | BASAL MANNVILLE R2R |
| 0194 320645 2010-04-01 | BASAL MANNVILLE S2S |
| 0194 320646 2013-04-01 | BASAL MANNVILLE T2T |
| 0194 320647 2001-02-01 | BASAL MANNVILLE U2U |
| 0194 320648 2001-02-01 | BASAL MANNVILLE V2V |
| 0194 320649 2001-02-01 | BASAL MANNVILLE W2W |
| 0194 320650 2012-03-01 | BASAL MANNVILLE X2X |
| 0194 320651 2001-02-01 | BASAL MANNVILLE Y2Y |
| 0194 320652 2001-02-01 | BASAL MANNVILLE Z2Z |
| 0194 320701 2012-04-01 | BASAL MANNVILLE A3A |
| 0194 320702 2010-07-01 | BASAL MANNVILLE B3B |
| 0194 320703 2001-02-01 | BASAL MANNVILLE C3C |
| 0194 320705 2004-09-01 | BASAL MANNVILLE E3E |
| 0194 320706 2004-09-01 | BASAL MANNVILLE F3F |
| 0194 320707 2010-04-01 | BASAL MANNVILLE G3G |
| 0194 320708 2001-02-01 | BASAL MANNVILLE H3H |
| 0194 320709 2001-02-01 | BASAL MANNVILLE I3I |
| 0194 320710 2011-04-01 | BASAL MANNVILLE J3J |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0194 320711 2011-04-01 | BASAL MANNVILLE K3K |
| 0194 320712 2011-04-01 | BASAL MANNVILLE L3L |
| 0194 320713 2011-05-01 | BASAL MANNVILLE M3M |
| 0194 320714 2001-02-01 | BASAL MANNVILLE N3N |
| 0194 320715 2001-02-01 | BASAL MANNVILLE O3O |
| 0194 320716 2001-02-01 | BASAL MANNVILLE P3P |
| 0194 320717 2006-09-01 | BASAL MANNVILLE Q3Q |
| 0194 320718 2001-02-01 | BASAL MANNVILLE R3R |
| 0194 320719 2001-02-01 | BASAL MANNVILLE S3S |
| 0194 320720 2010-04-01 | BASAL MANNVILLE T3T |
| 0194 320721 2007-05-01 | BASAL MANNVILLE U3U |
| 0194 320722 2001-02-01 | BASAL MANNVILLE V3V |
| 0194 320723 2001-02-01 | BASAL MANNVILLE W3W |
| 0194 320724 2001-02-01 | BASAL MANNVILLE X3X |
| 0194 320726 2001-02-01 | BASAL MANNVILLE Z3Z |
| 0194 320727 2012-07-01 | BASAL MANNVILLE A4A |
| 0194 320728 2012-07-01 | BASAL MANNVILLE B4B |
| 0194 320729 2012-07-01 | BASAL MANNVILLE C4C |
| 0194 320730 2001-02-01 | BASAL MANNVILLE D4D |
| 0194 320731 2012-03-01 | BASAL MANNVILLE E4E |
| 0194 320732 2012-03-01 | BASAL MANNVILLE F4F |
| 0194 320733 2001-02-01 | BASAL MANNVILLE G4G |
| 0194 320734 2001-02-01 | BASAL MANNVILLE H4H |
| 0194 320736 2006-06-01 | BASAL MANNVILLE J4J |
| 0194 320737 2001-02-01 | BASAL MANNVILLE K4K |
| 0194 320738 2001-02-01 | BASAL MANNVILLE L4L |
| 0194 320739 2001-02-01 | BASAL MANNVILLE M4M |
| 0194 320740 2010-04-01 | BASAL MANNVILLE N4N |
| 0194 320741 2001-02-01 | BASAL MANNVILLE O4O |
| 0194 320742 2010-04-01 | BASAL MANNVILLE P4P |
| 0194 320744 2001-02-01 | BASAL MANNVILLE R4R |
| 0194 320745 2011-05-01 | BASAL MANNVILLE S4S |
| 0194 320746 2011-05-01 | BASAL MANNVILLE T4T |
| 0194 320747 2001-02-01 | BASAL MANNVILLE U4U |
| 0194 320748 2001-02-01 | BASAL MANNVILLE V4V |
| 0194 320749 2001-02-01 | BASAL MANNVILLE W4W |
| 0194 320750 2001-03-01 | BASAL MANNVILLE X4X |
| 0194 320751 2001-09-01 | BASAL MANNVILLE Y4Y |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0194 320752 2001-09-01 | BASAL MANNVILLE Z4Z |
| 0194 320901 2016-10-01 | BASAL MANNVILLE A5A |
| 0194 320902 2010-04-01 | BASAL MANNVILLE B5B |
| 0194 320903 2003-02-01 | BASAL MANNVILLE C5C |
| 0194 320904 2003-04-01 | BASAL MANNVILLE D5D |
| 0194 320906 2005-03-01 | BASAL MANNVILLE F5F |
| 0194 320907 2003-10-01 | BASAL MANNVILLE G5G |
| 0194 320908 2008-06-01 | BASAL MANNVILLE H5H |
| 0194 320909 2004-05-01 | BASAL MANNVILLE I5I |
| 0194 320910 2004-05-01 | BASAL MANNVILLE J5J |
| 0194 320911 2004-08-01 | BASAL MANNVILLE K5K |
| 0194 320912 2005-02-01 | BASAL MANNVILLE L5L |
| 0194 320913 2005-03-01 | BASAL MANNVILLE M5M |
| 0194 320914 2005-03-01 | BASAL MANNVILLE N5N |
| 0194 320915 2005-05-01 | BASAL MANNVILLE O5O |
| 0194 320916 2012-03-01 | BASAL MANNVILLE P5P |
| 0194 320917 2005-05-01 | BASAL MANNVILLE Q5Q |
| 0194 320918 2008-08-01 | BASAL MANNVILLE R5R |
| 0194 320920 2005-07-01 | BASAL MANNVILLE T5T |
| 0194 320921 2005-07-01 | BASAL MANNVILLE U5U |
| 0194 320922 2005-07-01 | BASAL MANNVILLE V5V |
| 0194 320924 2009-01-01 | BASAL MANNVILLE X5X |
| 0194 320925 2010-04-01 | BASAL MANNVILLE Y5Y |
| 0194 320926 2005-10-01 | BASAL MANNVILLE Z5Z |
| 0194 320927 2005-12-01 | BASAL MANNVILLE A6A |
| 0194 320928 2005-12-01 | BASAL MANNVILLE B6B |
| 0194 320929 2010-04-01 | BASAL MANNVILLE C6C |
| 0194 320930 2010-05-01 | BASAL MANNVILLE D6D |
| 0194 320931 2010-05-01 | BASAL MANNVILLE E6E |
| 0194 320932 2006-06-01 | BASAL MANNVILLE F6F |
| 0194 320933 2006-10-01 | BASAL MANNVILLE G6G |
| 0194 320934 2017-03-01 | BASAL MANNVILLE H6H |
| 0194 320935 2010-04-01 | BASAL MANNVILLE I6I |
| 0194 320936 2010-04-01 | BASAL MANNVILLE J6J |
| 0194 320937 2007-01-01 | BASAL MANNVILLE K6K |
| 0194 320939 2007-03-01 | BASAL MANNVILLE M6M |
| 0194 320940 2010-04-01 | BASAL MANNVILLE N6N |
| 0194 320941 2007-07-01 | BASAL MANNVILLE O6O |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0194 320942 2009-03-01 | BASAL MANNVILLE P6P |
| 0194 320943 2007-11-01 | BASAL MANNVILLE Q6Q |
| 0194 320945 2008-05-01 | BASAL MANNVILLE S6S |
| 0194 320947 2008-05-01 | BASAL MANNVILLE U6U |
| 0194 320948 2010-04-01 | BASAL MANNVILLE V6V |
| 0194 320950 2009-11-01 | BASAL MANNVILLE X6X |
| 0194 320951 2008-09-01 | BASAL MANNVILLE Y6Y |
| 0194 320952 2008-09-01 | BASAL MANNVILLE Z6Z |
| 0194 321201 2010-04-01 | BASAL MANNVILLE A7A |
| 0194 321203 2011-12-01 | BASAL MANNVILLE C7C |
| 0194 321204 2013-03-01 | BASAL MANNVILLE D7D |
| 0194 321205 2008-12-01 | BASAL MANNVILLE E7E |
| 0194 321206 2008-12-01 | BASAL MANNVILLE F7F |
| 0194 321207 2009-02-01 | BASAL MANNVILLE G7G |
| 0194 321208 2009-02-01 | BASAL MANNVILLE H7H |
| 0194 321210 2009-02-01 | BASAL MANNVILLE J7J |
| 0194 321211 2010-05-01 | BASAL MANNVILLE K7K |
| 0194 321212 2009-03-01 | BASAL MANNVILLE L7L |
| 0194 321213 2009-03-01 | BASAL MANNVILLE M7M |
| 0194 321214 2010-04-01 | BASAL MANNVILLE N7N |
| 0194 321215 2010-04-01 | BASAL MANNVILLE O7O |
| 0194 321216 2010-04-01 | BASAL MANNVILLE P7P |
| 0194 321217 2010-04-01 | BASAL MANNVILLE Q7Q |
| 0194 321218 2010-04-01 | BASAL MANNVILLE R7R |
| 0194 321219 2010-04-01 | BASAL MANNVILLE S7S |
| 0194 321220 2010-01-01 | BASAL MANNVILLE T7T |
| 0194 321221 2009-08-01 | BASAL MANNVILLE U7U |
| 0194 321222 2009-09-01 | BASAL MANNVILLE V7V |
| 0194 321223 2009-09-01 | BASAL MANNVILLE W7W |
| 0194 321224 2010-09-01 | BASAL MANNVILLE X7X |
| 0194 321225 2010-04-01 | BASAL MANNVILLE Y7Y |
| 0194 321226 2010-04-01 | BASAL MANNVILLE Z7Z |
| 0194 321227 2010-04-01 | BASAL MANNVILLE A8A |
| 0194 321229 2010-04-01 | BASAL MANNVILLE C8C |
| 0194 321230 2012-03-01 | BASAL MANNVILLE D8D |
| 0194 321231 2016-09-01 | BASAL MANNVILLE E8E |
| 0194 321232 2011-10-01 | BASAL MANNVILLE F8F |
| 0194 321233 2012-04-01 | BASAL MANNVILLE G8G |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0194 321234 2012-03-01 | BASAL MANNVILLE H8H |
| 0194 321235 2012-03-01 | BASAL MANNVILLE I8I |
| 0194 321236 2014-05-01 | BASAL MANNVILLE J8J |
| 0194 321237 2012-03-01 | BASAL MANNVILLE K8K |
| 0194 321238 2012-03-01 | BASAL MANNVILLE L8L |
| 0194 321239 2012-03-01 | BASAL MANNVILLE M8M |
| 0194 321240 2015-05-01 | BASAL MANNVILLE N8N |
| 0194 321241 2015-05-01 | BASAL MANNVILLE O8O |
| 0194 321242 2012-04-01 | BASAL MANNVILLE P8P |
| 0194 321243 2012-05-01 | BASAL MANNVILLE Q8Q |
| 0194 321244 2013-03-01 | BASAL MANNVILLE R8R |
| 0194 321245 2013-03-01 | BASAL MANNVILLE S8S |
| 0194 321246 2013-03-01 | BASAL MANNVILLE T8T |
| 0194 321247 2013-03-01 | BASAL MANNVILLE U8U |
| 0194 321248 2013-09-01 | BASAL MANNVILLE V8V |
| 0194 321249 2013-09-01 | BASAL MANNVILLE W8W |
| 0194 321250 2014-03-01 | BASAL MANNVILLE X8X |
| 0194 321251 2014-04-01 | BASAL MANNVILLE Y8Y |
| 0194 321252 2014-04-01 | BASAL MANNVILLE Z8Z |
| 0194 321301 2016-03-01 | BASAL MANNVILLE A9A |
| 0194 321302 2016-01-01 | BASAL MANNVILLE B9B |
| 0194 321303 2016-01-01 | BASAL MANNVILLE C9C |
| | |
| 0194 336001 2016-01-01 | ELLERSLIE A |
| | |
| 0194 432001 2012-03-01 | ROCK CREEK A |
| 0194 432002 2004-11-01 | ROCK CREEK B |
| 0194 432003 2004-11-01 | ROCK CREEK C |
| 0194 432004 2006-09-01 | ROCK CREEK D |
| 0194 432005 2008-11-01 | ROCK CREEK E |
| 0194 432006 2010-04-01 | ROCK CREEK F |
| 0194 432007 2011-10-01 | ROCK CREEK G |
| 0194 432008 2011-04-01 | ROCK CREEK H |
| 0194 432009 2012-03-01 | ROCK CREEK I |
| | |
| 0194 444001 2001-04-01 | NORDEGG A |
| 0194 444002 2005-03-01 | NORDEGG B |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0194 610001 2013-12-01 | RUNDLE A |
| 0194 610003 2010-04-01 | RUNDLE C |
| 0194 610004 2001-02-01 | RUNDLE D |
| 0194 610005 2001-02-01 | RUNDLE E |
| | |
| 0194 638001 2001-02-01 | ELKTON A |
| 0194 638004 2001-02-01 | ELKTON D |
| 0194 638008 2010-04-01 | ELKTON H |
| 0194 638009 2001-02-01 | ELKTON I |
| 0194 638012 2001-02-01 | ELKTON L |
| 0194 638013 2010-04-01 | ELKTON M |
| 0194 638014 2010-04-01 | ELKTON N |
| 0194 638015 2001-02-01 | ELKTON O |
| 0194 638016 2001-02-01 | ELKTON P |
| 0194 638017 2001-02-01 | ELKTON Q |
| 0194 638018 2001-02-01 | ELKTON R |
| 0194 638019 2001-02-01 | ELKTON S |
| 0194 638020 2001-02-01 | ELKTON T |
| 0194 638021 2001-05-01 | ELKTON U |
| 0194 638023 2007-08-01 | ELKTON W |
| 0194 638024 2007-11-01 | ELKTON X |
| | |
| 0194 720001 2001-02-01 | LEDUC A |
| 0194 720002 2001-02-01 | LEDUC B |
| 0194 720003 2001-02-01 | LEDUC C |
| 0194 720004 2003-08-01 | LEDUC D |
| | |
| 0194 744001 2010-04-01 | BEAVERHILL LAKE A |
| 0194 744002 2003-05-01 | BEAVERHILL LAKE B |

SPACING PATTERN

SU 3091 14 Feb 2002
 SU 3091A 25 Apr 2002
 SU 3091B 28 Mar 2003
 SU 3091C 6 May 2004
 SU 3091D 27 Sep 2004
 SU 3091E 20 Nov 2004
 SU 3091F 29 Mar 2005
 SU 3091G 13 Oct 2005
 SU 3091H 5 Dec 2005
 SU 3091I 14 Dec 2006

MISCELLANEOUS ORDERS

MISC 6130 1 Dec 1961
 Sundre Rundle A & B
 Wells & batteries exempt from sec
 20c, subsec (3)(a)(b), and (7) of
 Drilling & Prod Regs

MISC 7021 1 Nov 1970
 Well Shell Cdn-Sup Bearberry
 12-21-33-6 exempt from subsection
 (3) clause C of section 604 of the
 regulations

COMMINGLED PRODUCTION

MU 8787 5 Apr 2016

ENHANCED RECOVERY SCHEMES

App 1502H 2 Oct 2017
 Waterflood
 Rundle A
 NAL Resources Limited

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

App 6640I 3 Aug 2016
 Waterflood
 Cardium E
 Taqa North Ltd.

App 7451 10 Mar 1994

App 7451A 5 Jul 1995
 Other
 Beaverhill Lake A
 Shell Canada Limited

App 10372D 11 May 2016
 Waterflood
 Cardium E
 Bonavista Energy Corporation

App 10373G 6 Feb 2017
 Waterflood
 Rundle A
 Sitka Exploration Ltd.

SUBSURFACE DISPOSAL SCHEMES

App 6679A 9 Jun 2010
 Class II
 Shell Canada Limited

SURFACE PIT DISPOSAL

W 356 1 Jan 1972
 Altana Caroline Gas Plant

COMPULSORY POOLING

P 384 17 Apr 2009

P 384A 22 Jun 2009

Gas

20-034-07W5M

Taqa North Ltd.

FIELD DESIGNATION

0196 2016-07-01 CARROT CREEK FIELD

POOL DESIGNATION

0196 126001 2013-03-01 BELLY RIVER A

0196 176001 2014-06-01 CARDIUM A
0196 176005 2001-02-01 CARDIUM E
0196 176006 2011-01-01 CARDIUM F
0196 176008 2001-02-01 CARDIUM H
0196 176009 2010-04-01 CARDIUM I
0196 176019 2010-04-01 CARDIUM S
0196 176027 2001-02-01 CARDIUM AA
0196 176028 2001-02-01 CARDIUM BB
0196 176030 2001-02-01 CARDIUM DD
0196 176032 2014-07-01 CARDIUM FF
0196 176033 2010-04-01 CARDIUM GG
0196 176036 2010-04-01 CARDIUM JJ
0196 176039 2001-02-01 CARDIUM MM
0196 176042 2001-02-01 CARDIUM PP
0196 176045 2001-02-01 CARDIUM SS
0196 176046 2001-02-01 CARDIUM TT
0196 176048 2010-09-01 CARDIUM VV
0196 176050 2011-07-01 CARDIUM XX
0196 176051 2011-07-01 CARDIUM YY
0196 176052 2015-12-01 CARDIUM ZZ
0196 176301 2011-08-01 CARDIUM AAA
0196 176302 2011-09-01 CARDIUM BBB
0196 176303 2011-09-01 CARDIUM CCC
0196 176304 2012-08-01 CARDIUM DDD
0196 176305 2013-03-01 CARDIUM EEE
0196 176306 2013-02-01 CARDIUM FFF

0196 186001 2003-03-01 SECOND WHITE SPECKS A
0196 186002 2003-05-01 SECOND WHITE SPECKS B
0196 186003 2008-09-01 SECOND WHITE SPECKS C

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|--------------------|
| 0196 218003 | 2011-05-01 | VIKING C |
| 0196 218004 | 2010-01-01 | VIKING D |
| 0196 218005 | 2001-02-01 | VIKING E |
| 0196 218008 | 2011-08-01 | VIKING H |
| 0196 218009 | 2010-11-01 | VIKING I |
| 0196 218010 | 2012-06-01 | VIKING J |
| 0196 218011 | 2009-07-01 | VIKING K |
| 0196 218013 | 2010-04-01 | VIKING M |
| 0196 218014 | 2011-09-01 | VIKING N |
| | | |
| 0196 250001 | 2001-02-01 | UPPER MANNVILLE A |
| 0196 250002 | 2010-04-01 | UPPER MANNVILLE B |
| 0196 250003 | 2001-03-01 | UPPER MANNVILLE C |
| 0196 250004 | 2014-08-01 | UPPER MANNVILLE D |
| 0196 250005 | 2010-04-01 | UPPER MANNVILLE E |
| 0196 250006 | 2012-10-01 | UPPER MANNVILLE F |
| 0196 250007 | 2003-05-01 | UPPER MANNVILLE G |
| 0196 250008 | 2004-03-01 | UPPER MANNVILLE H |
| 0196 250009 | 2004-12-01 | UPPER MANNVILLE I |
| 0196 250010 | 2013-03-01 | UPPER MANNVILLE J |
| 0196 250011 | 2005-10-01 | UPPER MANNVILLE K |
| 0196 250012 | 2006-04-01 | UPPER MANNVILLE L |
| 0196 250013 | 2006-12-01 | UPPER MANNVILLE M |
| 0196 250016 | 2012-05-01 | UPPER MANNVILLE P |
| 0196 250017 | 2010-04-01 | UPPER MANNVILLE Q |
| 0196 250018 | 2010-04-01 | UPPER MANNVILLE R |
| 0196 250019 | 2008-05-01 | UPPER MANNVILLE S |
| 0196 250022 | 2009-02-01 | UPPER MANNVILLE V |
| 0196 250023 | 2009-03-01 | UPPER MANNVILLE W |
| 0196 250024 | 2010-04-01 | UPPER MANNVILLE X |
| 0196 250026 | 2011-07-01 | UPPER MANNVILLE Z |
| 0196 250027 | 2012-11-01 | UPPER MANNVILLE AA |
| 0196 250028 | 2011-09-01 | UPPER MANNVILLE BB |
| 0196 250029 | 2011-09-01 | UPPER MANNVILLE CC |
| 0196 250030 | 2011-09-01 | UPPER MANNVILLE DD |
| 0196 250031 | 2012-07-01 | UPPER MANNVILLE EE |
| 0196 250032 | 2013-07-01 | UPPER MANNVILLE FF |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0196 304001 2010-04-01 | BLUESKY A |
| 0196 304002 2010-04-01 | BLUESKY B |
| 0196 304003 2010-11-01 | BLUESKY C |
| 0196 310001 2017-07-01 | LOWER MANNVILLE A |
| 0196 310002 2001-02-01 | LOWER MANNVILLE B |
| 0196 310007 2011-02-01 | LOWER MANNVILLE G |
| 0196 310013 2011-04-01 | LOWER MANNVILLE M |
| 0196 310014 2001-02-01 | LOWER MANNVILLE N |
| 0196 310017 2001-02-01 | LOWER MANNVILLE Q |
| 0196 310019 2001-02-01 | LOWER MANNVILLE S |
| 0196 310021 2006-02-01 | LOWER MANNVILLE U |
| 0196 310022 2001-02-01 | LOWER MANNVILLE V |
| 0196 310023 2001-02-01 | LOWER MANNVILLE W |
| 0196 310024 2001-02-01 | LOWER MANNVILLE X |
| 0196 310025 2001-02-01 | LOWER MANNVILLE Y |
| 0196 310026 2001-02-01 | LOWER MANNVILLE Z |
| 0196 310028 2001-09-01 | LOWER MANNVILLE BB |
| 0196 310031 2001-02-01 | LOWER MANNVILLE EE |
| 0196 310033 2001-02-01 | LOWER MANNVILLE GG |
| 0196 310034 2001-02-01 | LOWER MANNVILLE HH |
| 0196 310035 2001-03-01 | LOWER MANNVILLE II |
| 0196 310037 2002-07-01 | LOWER MANNVILLE KK |
| 0196 310041 2016-01-01 | LOWER MANNVILLE OO |
| 0196 310043 2003-06-01 | LOWER MANNVILLE QQ |
| 0196 310045 2004-05-01 | LOWER MANNVILLE SS |
| 0196 310046 2015-12-01 | LOWER MANNVILLE TT |
| 0196 310047 2007-11-01 | LOWER MANNVILLE UU |
| 0196 310048 2013-07-01 | LOWER MANNVILLE VV |
| 0196 310050 2010-04-01 | LOWER MANNVILLE XX |
| 0196 310052 2006-10-01 | LOWER MANNVILLE ZZ |
| 0196 310102 2008-12-01 | LOWER MANNVILLE BBB |
| 0196 310103 2007-07-01 | LOWER MANNVILLE CCC |
| 0196 310106 2008-03-01 | LOWER MANNVILLE FFF |
| 0196 310108 2008-02-01 | LOWER MANNVILLE HHH |
| 0196 310110 2011-05-01 | LOWER MANNVILLE JJJ |
| 0196 310111 2008-09-01 | LOWER MANNVILLE KKK |
| 0196 310112 2008-05-01 | LOWER MANNVILLE LLL |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0196 310114 2010-04-01 | LOWER MANNVILLE NNN |
| 0196 310115 2008-12-01 | LOWER MANNVILLE OOO |
| 0196 310116 2008-12-01 | LOWER MANNVILLE PPP |
| 0196 310118 2009-01-01 | LOWER MANNVILLE RRR |
| 0196 310119 2009-03-01 | LOWER MANNVILLE SSS |
| 0196 310120 2009-03-01 | LOWER MANNVILLE TTT |
| 0196 310121 2010-04-01 | LOWER MANNVILLE UUU |
| 0196 310122 2009-10-01 | LOWER MANNVILLE VVV |
| 0196 310125 2013-08-01 | LOWER MANNVILLE YYY |
| 0196 310126 2011-04-01 | LOWER MANNVILLE ZZZ |
| 0196 310133 2011-09-01 | LOWER MANNVILLE G2G |
| 0196 310134 2011-09-01 | LOWER MANNVILLE H2H |
| 0196 310135 2012-08-01 | LOWER MANNVILLE I2I |
| 0196 310136 2012-11-01 | LOWER MANNVILLE J2J |
| 0196 310137 2014-12-01 | LOWER MANNVILLE K2K |
| 0196 310138 2015-08-01 | LOWER MANNVILLE L2L |
| 0196 310139 2017-07-01 | LOWER MANNVILLE M2M |
| 0196 316001 2010-04-01 | OSTRACOD A |
| 0196 316002 2001-08-01 | OSTRACOD B |
| 0196 316003 2010-04-01 | OSTRACOD C |
| 0196 446001 2001-02-01 | JURASSIC A |
| 0196 446004 2001-02-01 | JURASSIC D |
| 0196 446005 2001-02-01 | JURASSIC E |
| 0196 446007 2001-02-01 | JURASSIC G |
| 0196 446015 2014-12-01 | JURASSIC O |
| 0196 446016 2011-04-01 | JURASSIC P |
| 0196 446019 2001-02-01 | JURASSIC S |
| 0196 446020 2011-04-01 | JURASSIC T |
| 0196 446021 2001-02-01 | JURASSIC U |
| 0196 446022 2010-08-01 | JURASSIC V |
| 0196 446023 2015-04-01 | JURASSIC W |
| 0196 446024 2010-04-01 | JURASSIC X |
| 0196 446025 2001-02-01 | JURASSIC Y |
| 0196 446026 2001-02-01 | JURASSIC Z |
| 0196 446027 2010-04-01 | JURASSIC AA |
| 0196 446028 2008-09-01 | JURASSIC BB |

POOL DESIGNATION (cont'd)

| | |
|------------------------|--------------|
| 0196 446029 2001-02-01 | JURASSIC CC |
| 0196 446030 2007-02-01 | JURASSIC DD |
| 0196 446032 2001-02-01 | JURASSIC FF |
| 0196 446033 2001-02-01 | JURASSIC GG |
| 0196 446034 2001-02-01 | JURASSIC HH |
| 0196 446035 2001-02-01 | JURASSIC II |
| 0196 446036 2010-01-01 | JURASSIC JJ |
| 0196 446037 2001-02-01 | JURASSIC KK |
| 0196 446038 2001-02-01 | JURASSIC LL |
| 0196 446039 2001-02-01 | JURASSIC MM |
| 0196 446041 2010-04-01 | JURASSIC OO |
| 0196 446044 2001-02-01 | JURASSIC RR |
| 0196 446046 2001-02-01 | JURASSIC TT |
| 0196 446047 2001-03-01 | JURASSIC UU |
| 0196 446048 2001-03-01 | JURASSIC VV |
| 0196 446049 2010-01-01 | JURASSIC WW |
| 0196 446050 2013-03-01 | JURASSIC XX |
| 0196 446301 2011-05-01 | JURASSIC AAA |
| 0196 446302 2006-03-01 | JURASSIC BBB |
| 0196 446310 2011-12-01 | JURASSIC JJJ |
| 0196 446312 2007-01-01 | JURASSIC LLL |
| 0196 446316 2014-11-01 | JURASSIC PPP |
| 0196 446318 2010-01-01 | JURASSIC RRR |
| 0196 446321 2008-02-01 | JURASSIC UUU |
| 0196 446326 2010-12-01 | JURASSIC ZZZ |
| 0196 446328 2010-04-01 | JURASSIC B2B |
| 0196 446330 2009-02-01 | JURASSIC D2D |
| 0196 446331 2009-03-01 | JURASSIC E2E |
| 0196 446333 2009-04-01 | JURASSIC G2G |
| 0196 446335 2009-09-01 | JURASSIC I2I |
| 0196 446336 2009-09-01 | JURASSIC J2J |
| 0196 446337 2010-01-01 | JURASSIC K2K |
| 0196 446344 2010-08-01 | JURASSIC R2R |
| 0196 446345 2011-05-01 | JURASSIC S2S |
| 0196 446346 2011-05-01 | JURASSIC T2T |
| 0196 446347 2011-05-01 | JURASSIC U2U |
| 0196 446348 2011-07-01 | JURASSIC V2V |
| 0196 446349 2013-03-01 | JURASSIC W2W |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|--------------------|
| 0196 446351 | 2011-08-01 | JURASSIC Y2Y |
| 0196 446352 | 2012-01-01 | JURASSIC Z2Z |
| 0196 446401 | 2012-10-01 | JURASSIC A3A |
| 0196 446402 | 2013-04-01 | JURASSIC B3B |
| 0196 446403 | 2015-05-01 | JURASSIC C3C |
| 0196 446404 | 2015-05-01 | JURASSIC D3D |
| | | |
| 0196 859700 | 2011-02-01 | MFP8597 JURASSIC |
| | | |
| 0196 860100 | 2011-10-01 | MFP8601 ROCK CREEK |

SPACING PATTERN

| | |
|----------|-------------|
| SU 2238 | 20 Jul 1995 |
| SU 2238A | 31 Aug 1995 |
| SU 2238B | 5 Oct 1995 |
| SU 2238C | 15 Aug 1996 |
| SU 2238D | 14 Oct 1997 |
| SU 2238E | 26 Feb 2003 |
| SU 2238F | 17 Jan 2005 |
| SU 2238G | 9 Apr 2005 |
| SU 2238H | 10 Aug 2005 |
| SU 2238I | 17 Nov 2006 |
| SU 2238J | 28 Feb 2007 |
| SU 2238K | 21 Sep 2007 |
| SU 2238L | 9 Oct 2007 |

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

ENHANCED RECOVERY SCHEMES

App 5375J 6 Oct 2017
Waterflood
Cardium A
Obsidian Energy Ltd.

App 5474E 6 Oct 2017
Waterflood
Cardium D
Obsidian Energy Ltd.

App 5757F 6 Oct 2017
Waterflood
Cardium F
Obsidian Energy Ltd.

App 7038B 14 Jan 2015
Waterflood
Cardium F
Zargon Oil & Gas Ltd.

App 7333D 20 Oct 2016
Waterflood
Cardium A
Pismo Energy Ltd.

App 7947I 23 Dec 2015
Waterflood
Cardium GG
Insch Commodity Ltd.

App 6169D 16 Jul 2014
Other
Cardium AAA
Whitecap Resources Inc.

SUBSURFACE DISPOSAL SCHEMES

App 12415A 16 Mar 2017
Class II
Beringer Energy Inc.

App 12588 14 Feb 2017
Class II & Ib
Tangle Creek Energy Ltd.

FIELD DESIGNATION

0198 2012-04-01 CARSON CREEK FIELD

POOL DESIGNATION

0198 218001 2010-04-01 VIKING A

0198 248001 2010-04-01 MANNVILLE A

0198 444001 2008-10-01 NORDEGG A

0198 444002 2001-02-01 NORDEGG B

0198 640101 2001-02-01 SHUNDA-PEKISKO A

0198 744002 2013-09-01 BEAVERHILL LAKE B

0198 744003 2013-09-01 BEAVERHILL LAKE C

0198 756002 2011-11-01 SWAN HILLS B

SPACING PATTERN

SU 2240 19 Jun 1995

SU 2240A 30 Mar 2000

GAS CYCLING

App 5854A 19 Mar 2018

Beaverhill Lake B

Accel Canada Holdings Limited

COMPULSORY POOLING

P 183 6 Oct 1999

P 183A 13 Feb 2009

P 183B 6 Jul 2017

Gas

13-061-12W5M

Penn West Petroleum Ltd.

FIELD DESIGNATION

0200 2012-04-01 CARSON CREEK NORTH FIELD

POOL DESIGNATION

0200 218001 2001-02-01 VIKING A
0200 218002 2009-08-01 VIKING B

0200 250001 2001-02-01 UPPER MANNVILLE A
0200 250002 2001-02-01 UPPER MANNVILLE B
0200 250003 2010-04-01 UPPER MANNVILLE C
0200 250004 2001-02-01 UPPER MANNVILLE D

0200 326001 2010-04-01 GETHING A
0200 326004 2009-04-01 GETHING D

0200 336001 2003-06-01 ELLERSLIE A

0200 744001 2010-04-01 BEAVERHILL LAKE A
0200 744002 2014-06-01 BEAVERHILL LAKE B

SPACING PATTERN

SU 2240 19 Jun 1995
SU 2240A 30 Mar 2000

See also Judy Creek South &
Carson Creek Fields

COMMINGLED PRODUCTION

MU 930 16 Jun 1992

ENHANCED RECOVERY SCHEMES

App 6027Q 24 Jul 2015
Waterflood and CCP
Beaverhill Lake A and B
Pengrowth Energy Corporation

FIELD DESIGNATION

0197 2001-02-01 CARVEL FIELD

POOL DESIGNATION

0197 126002 2001-02-01 BELLY RIVER B
0197 126003 2006-04-01 BELLY RIVER C
0197 126004 2001-02-01 BELLY RIVER D
0197 126005 2001-03-01 BELLY RIVER E
0197 126006 2004-07-01 BELLY RIVER F
0197 126007 2008-12-01 BELLY RIVER G

0197 134001 2005-06-01 BASAL BELLY RIVER A
0197 134002 2005-09-01 BASAL BELLY RIVER B

0197 316001 2001-03-01 OSTRACOD A

0197 336001 2010-04-01 ELLERSLIE A
0197 336002 2001-02-01 ELLERSLIE B
0197 336003 2001-02-01 ELLERSLIE C

0197 644001 2003-09-01 BANFF A

FIELD DESIGNATION

0199 2001-07-01 CASLAN FIELD

POOL DESIGNATION

0199 262001 2010-04-01 GRAND RAPIDS A
0199 262002 2010-04-01 GRAND RAPIDS B
0199 262003 2006-07-01 GRAND RAPIDS C
0199 262004 2006-07-01 GRAND RAPIDS D
0199 262005 2001-02-01 GRAND RAPIDS E
0199 262006 2001-02-01 GRAND RAPIDS F
0199 262007 2010-04-01 GRAND RAPIDS G
0199 262008 2010-04-01 GRAND RAPIDS H
0199 262009 2001-02-01 GRAND RAPIDS I
0199 262010 2001-02-01 GRAND RAPIDS J
0199 262011 2002-10-01 GRAND RAPIDS K
0199 262012 2008-04-01 GRAND RAPIDS L

0199 696001 2001-02-01 NISKU A
0199 696002 2004-05-01 NISKU B
0199 696003 2001-02-01 NISKU C

SPACING PATTERN

SU 2612 3 Apr 1996

COMMINGLED PRODUCTION

MU 7306 21 Sep 2009

FIELD DESIGNATION

0167 2011-08-01 CAVALIER FIELD

POOL DESIGNATION

0167 118815 2012-04-01 LOWER EDMONTON O
0167 118821 2011-12-01 LOWER EDMONTON U
0167 118826 2012-01-01 LOWER EDMONTON Z
0167 118827 2014-12-01 LOWER EDMONTON AA

0167 158001 2013-09-01 MILK RIVER A

0167 218003 2013-09-01 VIKING C
0167 218004 2001-02-01 VIKING D
0167 218005 2001-02-01 VIKING E
0167 218008 2001-02-01 VIKING H
0167 218009 2010-04-01 VIKING I
0167 218010 2001-02-01 VIKING J
0167 218011 2001-02-01 VIKING K
0167 218012 2001-02-01 VIKING L
0167 218015 2010-04-01 VIKING O
0167 218016 2001-02-01 VIKING P
0167 218017 2001-02-01 VIKING Q
0167 218018 2001-02-01 VIKING R
0167 218019 2001-02-01 VIKING S
0167 218020 2001-02-01 VIKING T
0167 218021 2001-02-01 VIKING U
0167 218022 2006-11-01 VIKING V
0167 218023 2001-02-01 VIKING W
0167 218024 2001-02-01 VIKING X
0167 218026 2005-04-01 VIKING Z
0167 218027 2001-03-01 VIKING AA
0167 218028 2005-05-01 VIKING BB
0167 218029 2003-06-01 VIKING CC
0167 218030 2003-04-01 VIKING DD
0167 218031 2010-11-01 VIKING EE
0167 218032 2010-04-01 VIKING FF

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------|
| 0167 218033 2010-04-01 | VIKING GG |
| 0167 218034 2005-06-01 | VIKING HH |
| 0167 218035 2010-04-01 | VIKING II |
| 0167 218036 2010-04-01 | VIKING JJ |
| 0167 218037 2010-04-01 | VIKING KK |
| 0167 218038 2010-04-01 | VIKING LL |
| 0167 218039 2007-01-01 | VIKING MM |
| 0167 218040 2010-04-01 | VIKING NN |
| 0167 218041 2011-12-01 | VIKING OO |
| 0167 218042 2010-04-01 | VIKING PP |
| 0167 218043 2010-04-01 | VIKING QQ |
| 0167 218044 2011-12-01 | VIKING RR |
| 0167 218045 2007-07-01 | VIKING SS |
| 0167 218046 2007-09-01 | VIKING TT |
| 0167 218047 2013-09-01 | VIKING UU |
| 0167 218048 2013-09-01 | VIKING VV |
| 0167 218049 2008-05-01 | VIKING WW |
| 0167 218050 2008-09-01 | VIKING XX |
| 0167 218051 2009-01-01 | VIKING YY |
| 0167 218052 2009-01-01 | VIKING ZZ |
| 0167 220401 2010-10-01 | VIKING AAA |
| 0167 220402 2010-10-01 | VIKING BBB |
| 0167 220403 2010-10-01 | VIKING CCC |
| 0167 220404 2014-02-01 | VIKING DDD |
| 0167 220405 2014-02-01 | VIKING EEE |
| 0167 220406 2014-02-01 | VIKING FFF |
| 0167 220407 2014-08-01 | VIKING GGG |
| 0167 300001 2010-04-01 | GLAUCONITIC A |
| 0167 300003 2001-02-01 | GLAUCONITIC C |
| 0167 300004 2004-03-01 | GLAUCONITIC D |
| 0167 300006 2001-02-01 | GLAUCONITIC F |
| 0167 300011 2010-04-01 | GLAUCONITIC K |
| 0167 300012 2010-04-01 | GLAUCONITIC L |
| 0167 300013 2010-04-01 | GLAUCONITIC M |
| 0167 300015 2001-02-01 | GLAUCONITIC O |
| 0167 300016 2001-02-01 | GLAUCONITIC P |
| 0167 300017 2005-01-01 | GLAUCONITIC Q |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0167 300018 2005-05-01 | GLAUCONITIC R |
| 0167 300019 2006-01-01 | GLAUCONITIC S |
| 0167 300020 2001-09-01 | GLAUCONITIC T |
| 0167 300021 2003-05-01 | GLAUCONITIC U |
| 0167 300023 2002-02-01 | GLAUCONITIC W |
| 0167 300024 2002-06-01 | GLAUCONITIC X |
| 0167 300025 2002-12-01 | GLAUCONITIC Y |
| 0167 300026 2006-11-01 | GLAUCONITIC Z |
| 0167 300027 2003-04-01 | GLAUCONITIC AA |
| 0167 300028 2004-05-01 | GLAUCONITIC BB |
| 0167 300029 2004-12-01 | GLAUCONITIC CC |
| 0167 300030 2005-08-01 | GLAUCONITIC DD |
| 0167 300031 2010-04-01 | GLAUCONITIC EE |
| 0167 300032 2010-04-01 | GLAUCONITIC FF |
| 0167 300033 2010-04-01 | GLAUCONITIC GG |
| 0167 300034 2004-12-01 | GLAUCONITIC HH |
| 0167 300035 2005-07-01 | GLAUCONITIC II |
| 0167 300036 2005-09-01 | GLAUCONITIC JJ |
| 0167 300037 2006-11-01 | GLAUCONITIC KK |
| 0167 300038 2013-07-01 | GLAUCONITIC LL |
| 0167 300039 2008-02-01 | GLAUCONITIC MM |
| 0167 300040 2008-02-01 | GLAUCONITIC NN |
| 0167 300041 2008-03-01 | GLAUCONITIC OO |
| 0167 300042 2010-04-01 | GLAUCONITIC PP |
| 0167 300043 2008-06-01 | GLAUCONITIC QQ |
| 0167 300044 2008-09-01 | GLAUCONITIC RR |
| 0167 300045 2010-04-01 | GLAUCONITIC SS |
| 0167 300046 2010-10-01 | GLAUCONITIC TT |
| 0167 300047 2011-09-01 | GLAUCONITIC UU |
| 0167 300048 2011-09-01 | GLAUCONITIC VV |
| 0167 300049 2011-09-01 | GLAUCONITIC WW |
| 0167 300050 2013-10-01 | GLAUCONITIC XX |
| 0167 300051 2014-01-01 | GLAUCONITIC YY |
| 0167 300052 2014-04-01 | GLAUCONITIC ZZ |
| 0167 336002 2001-02-01 | ELLERSLIE B |
| 0167 336003 2010-04-01 | ELLERSLIE C |
| 0167 336004 2001-02-01 | ELLERSLIE D |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|-----------------------|
| 0167 336005 | 2001-10-01 | ELLERSLIE E |
| 0167 336006 | 2010-04-01 | ELLERSLIE F |
| 0167 336007 | 2006-03-01 | ELLERSLIE G |
| 0167 336008 | 2010-04-01 | ELLERSLIE H |
| 0167 336009 | 2013-03-01 | ELLERSLIE I |
| 0167 336010 | 2014-01-01 | ELLERSLIE J |
| 0167 350001 | 2010-04-01 | DETRITAL A |
| 0167 850200 | 2010-08-01 | MFP8502 MED HAT |
| 0167 850600 | 2012-12-01 | MFP8506 BELLY RIVER |
| 0167 854300 | 2011-08-01 | MFP8543 BSL BELLY RIV |
| 0167 858600 | 2013-07-01 | MFP8586 LWR EDMONTON |

SPACING PATTERN

| | |
|----------|-------------|
| SU 2239 | 21 Jun 1995 |
| SU 2239A | 12 Feb 2004 |
| SU 2239B | 23 Jun 2004 |
| SU 2239C | 16 Jul 2004 |
| SU 2239D | 4 Nov 2004 |
| SU 2239E | 7 Jul 2005 |
| SU 2239F | 8 Dec 2005 |

COMMINGLED PRODUCTION

| | |
|---------|-------------|
| MU 7591 | 15 Nov 2010 |
|---------|-------------|

FIELD DESIGNATION

0204 2018-04-01 CECIL FIELD

POOL DESIGNATION

0204 228001 2006-07-01 PEACE RIVER A

0204 264001 2001-02-01 SPIRIT RIVER A

0204 264002 2003-03-01 SPIRIT RIVER B

0204 264003 2003-02-01 SPIRIT RIVER C

0204 264004 2017-01-01 SPIRIT RIVER D

0204 264005 2006-07-01 SPIRIT RIVER E

0204 264006 2006-10-01 SPIRIT RIVER F

0204 264007 2017-02-01 SPIRIT RIVER G

0204 264008 2009-10-01 SPIRIT RIVER H

0204 264009 2009-10-01 SPIRIT RIVER I

0204 264010 2017-07-01 SPIRIT RIVER J

0204 264011 2017-07-01 SPIRIT RIVER K

0204 264012 2017-07-01 SPIRIT RIVER L

0204 304001 2010-04-01 BLUESKY A

0204 304002 2001-02-01 BLUESKY B

0204 304003 2001-02-01 BLUESKY C

0204 304004 2010-08-01 BLUESKY D

0204 304005 2017-07-01 BLUESKY E

0204 326001 2001-02-01 GETHING A

0204 326002 2006-06-01 GETHING B

0204 326003 2010-04-01 GETHING C

0204 326004 2010-04-01 GETHING D

0204 326005 2001-03-01 GETHING E

0204 326006 2002-01-01 GETHING F

0204 326007 2002-11-01 GETHING G

0204 326008 2003-09-01 GETHING H

0204 326009 2004-09-01 GETHING I

0204 326010 2004-10-01 GETHING J

0204 326011 2006-02-01 GETHING K

POOL DESIGNATION (cont'd)

| | |
|------------------------|-----------------|
| 0204 326012 2006-12-01 | GETHING L |
| 0204 326013 2008-07-01 | GETHING M |
| 0204 326014 2008-10-01 | GETHING N |
| 0204 326015 2010-04-01 | GETHING O |
| 0204 326016 2016-04-01 | GETHING P |
| 0204 326017 2012-05-01 | GETHING Q |
| | |
| 0204 432001 2001-02-01 | ROCK CREEK A |
| 0204 432002 2009-05-01 | ROCK CREEK B |
| 0204 432003 2010-05-01 | ROCK CREEK C |
| 0204 432004 2017-07-01 | ROCK CREEK D |
| | |
| 0204 508001 2012-05-01 | CHARLIE LAKE A |
| 0204 508003 2001-02-01 | CHARLIE LAKE C |
| 0204 508004 2003-02-01 | CHARLIE LAKE D |
| 0204 508012 2010-04-01 | CHARLIE LAKE L |
| 0204 508013 2012-05-01 | CHARLIE LAKE M |
| 0204 508015 2018-03-01 | CHARLIE LAKE O |
| 0204 508016 2001-02-01 | CHARLIE LAKE P |
| 0204 508017 2001-02-01 | CHARLIE LAKE Q |
| 0204 508020 2011-03-01 | CHARLIE LAKE T |
| 0204 508021 2010-04-01 | CHARLIE LAKE U |
| 0204 508022 2015-12-01 | CHARLIE LAKE V |
| 0204 508023 2010-04-01 | CHARLIE LAKE W |
| 0204 508024 2001-02-01 | CHARLIE LAKE X |
| 0204 508025 2001-02-01 | CHARLIE LAKE Y |
| 0204 508026 2001-02-01 | CHARLIE LAKE Z |
| 0204 508027 2010-04-01 | CHARLIE LAKE AA |
| 0204 508028 2010-04-01 | CHARLIE LAKE BB |
| 0204 508029 2001-02-01 | CHARLIE LAKE CC |
| 0204 508030 2001-02-01 | CHARLIE LAKE DD |
| 0204 508031 2001-02-01 | CHARLIE LAKE EE |
| 0204 508032 2001-02-01 | CHARLIE LAKE FF |
| 0204 508033 2001-02-01 | CHARLIE LAKE GG |
| 0204 508034 2011-10-01 | CHARLIE LAKE HH |
| 0204 508035 2002-04-01 | CHARLIE LAKE II |
| 0204 508036 2007-04-01 | CHARLIE LAKE JJ |
| 0204 508037 2002-10-01 | CHARLIE LAKE KK |

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------------|
| 0204 508038 2009-01-01 | CHARLIE LAKE LL |
| 0204 508039 2009-01-01 | CHARLIE LAKE MM |
| 0204 508040 2008-02-01 | CHARLIE LAKE NN |
| 0204 508041 2008-05-01 | CHARLIE LAKE OO |
| 0204 508042 2008-12-01 | CHARLIE LAKE PP |
| 0204 508043 2012-11-01 | CHARLIE LAKE QQ |
| 0204 508044 2014-01-01 | CHARLIE LAKE RR |
| 0204 508045 2017-07-01 | CHARLIE LAKE SS |
| 0204 508046 2017-07-01 | CHARLIE LAKE TT |
| 0204 508047 2018-07-01 | CHARLIE LAKE UU |
| 0204 508048 2018-07-01 | CHARLIE LAKE VV |
| 0204 508049 2017-07-01 | CHARLIE LAKE WW |
| 0204 508050 2017-07-01 | CHARLIE LAKE XX |
| 0204 508051 2017-07-01 | CHARLIE LAKE YY |
| 0204 508052 2017-11-01 | CHARLIE LAKE ZZ |
| 0204 508701 2018-04-01 | CHARLIE LAKE AAA |
| 0204 508702 2018-02-01 | CHARLIE LAKE BBB |
| 0204 516001 2002-08-01 | HALFWAY A |
| 0204 516002 2005-05-01 | HALFWAY B |
| 0204 516003 2006-01-01 | HALFWAY C |
| 0204 516004 2005-06-01 | HALFWAY D |
| 0204 516005 2010-04-01 | HALFWAY E |
| 0204 516006 2009-09-01 | HALFWAY F |
| 0204 516007 2017-07-01 | HALFWAY G |
| 0204 516008 2017-07-01 | HALFWAY H |
| 0204 520001 2003-06-01 | DOIG A |
| 0204 520002 2013-03-01 | DOIG B |
| 0204 524002 2001-02-01 | MONTNEY B |
| 0204 524003 2007-07-01 | MONTNEY C |
| 0204 524004 2017-07-01 | MONTNEY D |
| 0204 556001 2001-02-01 | BELLOY A |
| 0204 556002 2005-05-01 | BELLOY B |
| 0204 556003 2007-07-01 | BELLOY C |
| 0204 556004 2008-10-01 | BELLOY D |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------|
| 0204 556005 2017-07-01 | BELLOY E |
| 0204 556006 2017-07-01 | BELLOY F |
| 0204 556007 2017-07-01 | BELLOY G |
| | |
| 0204 605001 2001-02-01 | TAYLOR FLAT A |
| 0204 605002 2017-07-01 | TAYLOR FLAT B |
| | |
| 0204 606001 2005-05-01 | KISKATINAW A |
| 0204 606002 2001-02-01 | KISKATINAW B |
| 0204 606003 2010-08-01 | KISKATINAW C |
| 0204 606004 2002-01-01 | KISKATINAW D |
| 0204 606006 2006-12-01 | KISKATINAW F |
| 0204 606007 2001-09-01 | KISKATINAW G |
| 0204 606008 2002-05-01 | KISKATINAW H |
| 0204 606009 2005-08-01 | KISKATINAW I |
| 0204 606010 2005-06-01 | KISKATINAW J |
| 0204 606011 2007-02-01 | KISKATINAW K |
| 0204 606012 2006-08-01 | KISKATINAW L |
| 0204 606013 2007-08-01 | KISKATINAW M |
| 0204 606014 2007-08-01 | KISKATINAW N |
| 0204 606015 2007-09-01 | KISKATINAW O |
| 0204 606016 2008-05-01 | KISKATINAW P |
| 0204 606018 2017-07-01 | KISKATINAW R |
| 0204 606019 2017-07-01 | KISKATINAW S |
| 0204 606020 2017-07-01 | KISKATINAW T |
| 0204 606021 2017-07-01 | KISKATINAW U |
| 0204 606022 2017-07-01 | KISKATINAW V |
| 0204 606023 2017-07-01 | KISKATINAW W |
| 0204 606024 2017-07-01 | KISKATINAW X |
| 0204 606025 2017-07-01 | KISKATINAW Y |
| | |
| 0204 612001 2001-02-01 | DEBOLT A |
| 0204 612002 2007-08-01 | DEBOLT B |
| | |
| 0204 644001 2008-10-01 | BANFF A |
| | |
| 0204 658001 2001-02-01 | WABAMUN A |

POOL DESIGNATION (cont'd)

0204 658002 2003-02-01 WABAMUN B

0204 720001 2013-05-01 D-3 A

SPACING PATTERN

SU 4169 6 May 2004
SU 4169A 22 Oct 2004
SU 4169B 11 Jul 2005
SU 4169C 30 Mar 2006
SU 4169D 18 Apr 2006
SU 4169E 24 Sep 2007

SUBSURFACE DISPOSAL SCHEMES

App 7921D 9 Mar 2017
Class II
Canadian Natural Resources Limited

App 12678A 6 Jun 2018
Class II
Harvest Operations Corp.

COMMINGLED PRODUCTION

MU 8817 12 Jul 2017

ENHANCED RECOVERY SCHEMES

App 9161H 9 Nov 2015
Waterflood
Charlie Lake O
Harvest Operations Corp

App 10511D 21 Nov 2014
Waterflood
Charlie Lake JJ
Terra Energy Corp.

App 10514H 20 Apr 2017
Waterflood
Charlie Lake JJ
Sydco Energy Inc.

App 11132D 6 Feb 2015
Waterflood
Kiskatinaw K
Sinopec Daylight Energy Ltd.

FIELD DESIGNATION

0163 2001-02-01 CEREAL FIELD

POOL DESIGNATION

0163 126001 2001-02-01 BELLY RIVER A
0163 126002 2001-02-01 BELLY RIVER B
0163 126003 2010-05-01 BELLY RIVER C

0163 202001 2011-01-01 FISH SCALE A

0163 218001 2001-02-01 VIKING A
0163 218002 2010-04-01 VIKING B
0163 218003 2001-02-01 VIKING C
0163 218004 2006-04-01 VIKING D

0163 250001 2010-04-01 UPPER MANNVILLE A
0163 250002 2010-04-01 UPPER MANNVILLE B
0163 250003 2008-02-01 UPPER MANNVILLE C
0163 250004 2010-04-01 UPPER MANNVILLE D

0163 300002 2001-03-01 GLAUCONITIC B
0163 300003 2003-06-01 GLAUCONITIC C

0163 350001 2001-02-01 DETRITAL A

FIELD DESIGNATION

0206 2018-04-01 CESSFORD FIELD

POOL DESIGNATION

0206 106001 2001-11-01 EDMONTON A

0206 126003 2012-03-01 BELLY RIVER C
0206 126029 2003-10-01 BELLY RIVER CC
0206 126030 2012-06-01 BELLY RIVER DD
0206 126036 2007-05-01 BELLY RIVER JJ
0206 126037 2010-12-01 BELLY RIVER KK
0206 126039 2010-02-01 BELLY RIVER MM
0206 126040 2010-03-01 BELLY RIVER NN
0206 126041 2011-05-01 BELLY RIVER OO

0206 134003 2005-04-01 BASAL BELLY RIVER C
0206 134004 2012-07-01 BASAL BELLY RIVER D
0206 134012 2012-06-01 BASAL BELLY RIVER L
0206 134014 2012-06-01 BASAL BELLY RIVER N
0206 134021 2008-08-01 BASAL BELLY RIVER U
0206 134022 2008-10-01 BASAL BELLY RIVER V
0206 134023 2008-10-01 BASAL BELLY RIVER W
0206 134024 2010-04-01 BASAL BELLY RIVER X
0206 134025 2010-04-01 BASAL BELLY RIVER Y
0206 134026 2010-06-01 BASAL BELLY RIVER Z
0206 134027 2010-12-01 BASAL BELLY RIVER AA
0206 134028 2011-01-01 BASAL BELLY RIVER BB
0206 134029 2011-12-01 BASAL BELLY RIVER CC
0206 134030 2013-08-01 BASAL BELLY RIVER DD

0206 158002 2010-02-01 MILK RIVER B
0206 158003 2011-01-01 MILK RIVER C

0206 160001 2006-11-01 COLORADO A
0206 160002 2010-12-01 COLORADO B
0206 160003 2014-03-01 COLORADO C

POOL DESIGNATION (cont'd)

| | |
|------------------------|-----------------------|
| 0206 162001 2003-03-01 | FIRST WHITE SPECKS A |
| 0206 162002 2005-10-01 | FIRST WHITE SPECKS B |
| 0206 162003 2010-04-01 | FIRST WHITE SPECKS C |
| 0206 162004 2017-12-01 | FIRST WHITE SPECKS D |
| 0206 162006 2011-01-01 | FIRST WHITE SPECKS F |
| 0206 162007 2011-12-01 | FIRST WHITE SPECKS G |
| | |
| 0206 164008 2010-04-01 | MEDICINE HAT H |
| 0206 164009 2010-04-01 | MEDICINE HAT I |
| 0206 164010 2010-07-01 | MEDICINE HAT J |
| | |
| 0206 186002 2004-02-01 | SECOND WHITE SPECKS B |
| 0206 186003 2010-04-01 | SECOND WHITE SPECKS C |
| 0206 186004 2010-04-01 | SECOND WHITE SPECKS D |
| 0206 186005 2010-04-01 | SECOND WHITE SPECKS E |
| 0206 186006 2010-07-01 | SECOND WHITE SPECKS F |
| 0206 186007 2010-12-01 | SECOND WHITE SPECKS G |
| | |
| 0206 218002 2010-04-01 | VIKING B |
| 0206 218003 2001-02-01 | VIKING C |
| 0206 218004 2001-02-01 | VIKING D |
| 0206 218005 2001-02-01 | VIKING E |
| 0206 218007 2001-02-01 | VIKING G |
| 0206 218008 2013-03-01 | VIKING H |
| 0206 218009 2001-02-01 | VIKING I |
| 0206 218010 2001-02-01 | VIKING J |
| 0206 218011 2012-06-01 | VIKING K |
| 0206 218012 2001-02-01 | VIKING L |
| 0206 218014 2001-02-01 | VIKING N |
| 0206 218015 2010-04-01 | VIKING O |
| 0206 218016 2001-02-01 | VIKING P |
| 0206 218019 2001-02-01 | VIKING S |
| 0206 218020 2001-02-01 | VIKING T |
| 0206 218021 2001-02-01 | VIKING U |
| 0206 218022 2001-02-01 | VIKING V |
| 0206 218023 2010-04-01 | VIKING W |
| 0206 218024 2001-02-01 | VIKING X |
| 0206 218026 2001-02-01 | VIKING Z |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|------------|
| 0206 218027 | 2001-02-01 | VIKING AA |
| 0206 218028 | 2001-02-01 | VIKING BB |
| 0206 218029 | 2001-02-01 | VIKING CC |
| 0206 218030 | 2001-02-01 | VIKING DD |
| 0206 218031 | 2001-02-01 | VIKING EE |
| 0206 218032 | 2001-02-01 | VIKING FF |
| 0206 218033 | 2001-02-01 | VIKING GG |
| 0206 218034 | 2001-02-01 | VIKING HH |
| 0206 218035 | 2001-02-01 | VIKING II |
| 0206 218036 | 2001-02-01 | VIKING JJ |
| 0206 218037 | 2001-02-01 | VIKING KK |
| 0206 218038 | 2001-02-01 | VIKING LL |
| 0206 218040 | 2001-02-01 | VIKING NN |
| 0206 218041 | 2001-02-01 | VIKING OO |
| 0206 218042 | 2001-02-01 | VIKING PP |
| 0206 218043 | 2001-02-01 | VIKING QQ |
| 0206 218044 | 2001-02-01 | VIKING RR |
| 0206 218045 | 2001-02-01 | VIKING SS |
| 0206 218046 | 2001-02-01 | VIKING TT |
| 0206 218047 | 2010-04-01 | VIKING UU |
| 0206 218048 | 2001-02-01 | VIKING VV |
| 0206 218049 | 2003-10-01 | VIKING WW |
| 0206 218050 | 2001-02-01 | VIKING XX |
| 0206 218051 | 2001-02-01 | VIKING YY |
| 0206 218052 | 2001-02-01 | VIKING ZZ |
| 0206 220401 | 2001-02-01 | VIKING AAA |
| 0206 220402 | 2001-02-01 | VIKING BBB |
| 0206 220403 | 2001-02-01 | VIKING CCC |
| 0206 220404 | 2001-02-01 | VIKING DDD |
| 0206 220405 | 2010-04-01 | VIKING EEE |
| 0206 220406 | 2010-04-01 | VIKING FFF |
| 0206 220407 | 2001-02-01 | VIKING GGG |
| 0206 220408 | 2001-02-01 | VIKING HHH |
| 0206 220409 | 2001-02-01 | VIKING III |
| 0206 220411 | 2001-02-01 | VIKING KKK |
| 0206 220412 | 2011-12-01 | VIKING LLL |
| 0206 220413 | 2001-02-01 | VIKING MMM |
| 0206 220414 | 2001-02-01 | VIKING NNN |

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------------|
| 0206 220415 2001-02-01 | VIKING OOO |
| 0206 220416 2001-03-01 | VIKING PPP |
| 0206 220417 2002-05-01 | VIKING QQQ |
| 0206 220418 2002-06-01 | VIKING RRR |
| 0206 220419 2002-06-01 | VIKING SSS |
| 0206 220420 2002-07-01 | VIKING TTT |
| 0206 220421 2002-08-01 | VIKING UUU |
| 0206 220422 2003-03-01 | VIKING VVV |
| 0206 220423 2010-04-01 | VIKING WWW |
| 0206 220424 2003-06-01 | VIKING XXX |
| 0206 220425 2003-04-01 | VIKING YYY |
| 0206 220426 2003-07-01 | VIKING ZZZ |
| 0206 220427 2010-04-01 | VIKING A2A |
| 0206 220428 2004-10-01 | VIKING B2B |
| 0206 220429 2005-05-01 | VIKING C2C |
| 0206 220430 2005-07-01 | VIKING D2D |
| 0206 220431 2006-01-01 | VIKING E2E |
| 0206 220432 2006-01-01 | VIKING F2F |
| 0206 220433 2009-06-01 | VIKING G2G |
| 0206 220434 2007-03-01 | VIKING H2H |
| 0206 220435 2010-04-01 | VIKING I2I |
| 0206 220436 2010-04-01 | VIKING J2J |
| 0206 220437 2010-04-01 | VIKING K2K |
| 0206 220438 2007-08-01 | VIKING L2L |
| 0206 220439 2008-05-01 | VIKING M2M |
| 0206 220440 2008-09-01 | VIKING N2N |
| 0206 220441 2009-03-01 | VIKING O2O |
| 0206 220442 2009-09-01 | VIKING P2P |
| 0206 220443 2010-03-01 | VIKING Q2Q |
| 0206 220444 2010-03-01 | VIKING R2R |
| 0206 220445 2010-05-01 | VIKING S2S |
| 0206 220446 2010-06-01 | VIKING T2T |
| 0206 220447 2010-10-01 | VIKING U2U |
| 0206 220448 2011-10-01 | VIKING V2V |
| 0206 242001 2018-07-01 | BASAL COLORADO A |
| 0206 242005 2005-09-01 | BASAL COLORADO E |
| 0206 242006 2001-02-01 | BASAL COLORADO F |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0206 242008 2010-04-01 | BASAL COLORADO H |
| 0206 242009 2001-02-01 | BASAL COLORADO I |
| 0206 242010 2001-02-01 | BASAL COLORADO J |
| 0206 242011 2002-10-01 | BASAL COLORADO K |
| 0206 242012 2001-02-01 | BASAL COLORADO L |
| 0206 242013 2001-02-01 | BASAL COLORADO M |
| 0206 242014 2012-06-01 | BASAL COLORADO N |
| 0206 242015 2010-04-01 | BASAL COLORADO O |
| 0206 242016 2001-02-01 | BASAL COLORADO P |
| 0206 242017 2001-02-01 | BASAL COLORADO Q |
| 0206 242018 2010-04-01 | BASAL COLORADO R |
| 0206 242019 2001-02-01 | BASAL COLORADO S |
| 0206 242020 2001-02-01 | BASAL COLORADO T |
| 0206 242021 2001-02-01 | BASAL COLORADO U |
| 0206 242022 2001-02-01 | BASAL COLORADO V |
| 0206 242023 2001-02-01 | BASAL COLORADO W |
| 0206 242024 2001-02-01 | BASAL COLORADO X |
| 0206 242025 2001-02-01 | BASAL COLORADO Y |
| 0206 242026 2001-02-01 | BASAL COLORADO Z |
| 0206 242027 2001-02-01 | BASAL COLORADO AA |
| 0206 242028 2001-02-01 | BASAL COLORADO BB |
| 0206 242029 2001-02-01 | BASAL COLORADO CC |
| 0206 242030 2001-02-01 | BASAL COLORADO DD |
| 0206 242031 2001-02-01 | BASAL COLORADO EE |
| 0206 242032 2001-02-01 | BASAL COLORADO FF |
| 0206 242033 2001-02-01 | BASAL COLORADO GG |
| 0206 242034 2001-02-01 | BASAL COLORADO HH |
| 0206 242035 2001-02-01 | BASAL COLORADO II |
| 0206 242037 2001-02-01 | BASAL COLORADO KK |
| 0206 242039 2013-10-01 | BASAL COLORADO MM |
| 0206 242041 2002-02-01 | BASAL COLORADO OO |
| 0206 242042 2001-11-01 | BASAL COLORADO PP |
| 0206 242043 2005-06-01 | BASAL COLORADO QQ |
| 0206 242044 2006-10-01 | BASAL COLORADO RR |
| 0206 242045 2006-10-01 | BASAL COLORADO SS |
| 0206 242046 2008-11-01 | BASAL COLORADO TT |
| 0206 242047 2010-04-01 | BASAL COLORADO UU |
| 0206 242048 2009-07-01 | BASAL COLORADO VV |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0206 242049 2010-01-01 | BASAL COLORADO WW |
| 0206 242050 2010-06-01 | BASAL COLORADO XX |
| 0206 242051 2010-11-01 | BASAL COLORADO YY |
| 0206 242052 2013-04-01 | BASAL COLORADO ZZ |
| 0206 248001 2001-02-01 | MANNVILLE A |
| 0206 248003 2013-03-01 | MANNVILLE C |
| 0206 248005 2010-04-01 | MANNVILLE E |
| 0206 248006 2001-02-01 | MANNVILLE F |
| 0206 248007 2010-04-01 | MANNVILLE G |
| 0206 248008 2001-02-01 | MANNVILLE H |
| 0206 248009 2001-02-01 | MANNVILLE I |
| 0206 248010 2001-02-01 | MANNVILLE J |
| 0206 248012 2001-02-01 | MANNVILLE L |
| 0206 248013 2010-04-01 | MANNVILLE M |
| 0206 248014 2001-02-01 | MANNVILLE N |
| 0206 248015 2005-09-01 | MANNVILLE O |
| 0206 248017 2001-02-01 | MANNVILLE Q |
| 0206 248018 2001-02-01 | MANNVILLE R |
| 0206 248020 2001-02-01 | MANNVILLE T |
| 0206 248022 2001-02-01 | MANNVILLE V |
| 0206 248024 2010-04-01 | MANNVILLE X |
| 0206 248025 2015-10-01 | MANNVILLE Y |
| 0206 248026 2010-04-01 | MANNVILLE Z |
| 0206 248029 2012-06-01 | MANNVILLE CC |
| 0206 248031 2001-02-01 | MANNVILLE EE |
| 0206 248034 2007-07-01 | MANNVILLE HH |
| 0206 248038 2001-02-01 | MANNVILLE LL |
| 0206 248039 2001-02-01 | MANNVILLE MM |
| 0206 248041 2001-02-01 | MANNVILLE OO |
| 0206 248044 2001-02-01 | MANNVILLE RR |
| 0206 248047 2010-04-01 | MANNVILLE UU |
| 0206 248050 2008-04-01 | MANNVILLE XX |
| 0206 248051 2001-02-01 | MANNVILLE YY |
| 0206 248101 2001-02-01 | MANNVILLE AAA |
| 0206 248102 2001-02-01 | MANNVILLE BBB |
| 0206 248104 2001-02-01 | MANNVILLE DDD |
| 0206 248105 2001-02-01 | MANNVILLE EEE |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------|
| 0206 248106 2001-02-01 | MANNVILLE FFF |
| 0206 248107 2001-02-01 | MANNVILLE GGG |
| 0206 248109 2001-02-01 | MANNVILLE III |
| 0206 248110 2002-09-01 | MANNVILLE JJJ |
| 0206 248112 2001-02-01 | MANNVILLE LLL |
| 0206 248113 2005-05-01 | MANNVILLE MMM |
| 0206 248119 2001-02-01 | MANNVILLE SSS |
| 0206 248123 2001-02-01 | MANNVILLE WWW |
| 0206 248124 2006-11-01 | MANNVILLE XXX |
| 0206 248125 2010-05-01 | MANNVILLE YYY |
| 0206 248126 2001-02-01 | MANNVILLE ZZZ |
| 0206 248127 2001-02-01 | MANNVILLE A2A |
| 0206 248128 2001-02-01 | MANNVILLE B2B |
| 0206 248129 2001-02-01 | MANNVILLE C2C |
| 0206 248130 2001-02-01 | MANNVILLE D2D |
| 0206 248134 2001-02-01 | MANNVILLE H2H |
| 0206 248135 2001-02-01 | MANNVILLE I2I |
| 0206 248136 2001-02-01 | MANNVILLE J2J |
| 0206 248137 2001-02-01 | MANNVILLE K2K |
| 0206 248141 2001-02-01 | MANNVILLE O2O |
| 0206 248142 2001-02-01 | MANNVILLE P2P |
| 0206 248143 2001-02-01 | MANNVILLE Q2Q |
| 0206 248144 2001-02-01 | MANNVILLE R2R |
| 0206 248145 2001-02-01 | MANNVILLE S2S |
| 0206 248146 2010-04-01 | MANNVILLE T2T |
| 0206 248147 2010-04-01 | MANNVILLE U2U |
| 0206 248148 2001-02-01 | MANNVILLE V2V |
| 0206 248149 2001-02-01 | MANNVILLE W2W |
| 0206 248150 2001-02-01 | MANNVILLE X2X |
| 0206 248151 2014-02-01 | MANNVILLE Y2Y |
| 0206 248202 2001-02-01 | MANNVILLE B3B |
| 0206 248204 2012-07-01 | MANNVILLE D3D |
| 0206 248205 2001-02-01 | MANNVILLE E3E |
| 0206 248206 2006-07-01 | MANNVILLE F3F |
| 0206 248207 2001-02-01 | MANNVILLE G3G |
| 0206 248208 2001-02-01 | MANNVILLE H3H |
| 0206 248209 2002-10-01 | MANNVILLE I3I |
| 0206 248210 2010-04-01 | MANNVILLE J3J |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|---------------|
| 0206 248211 | 2004-03-01 | MANNVILLE K3K |
| 0206 248212 | 2001-02-01 | MANNVILLE L3L |
| 0206 248213 | 2001-02-01 | MANNVILLE M3M |
| 0206 248214 | 2001-02-01 | MANNVILLE N3N |
| 0206 248215 | 2010-04-01 | MANNVILLE O3O |
| 0206 248216 | 2001-02-01 | MANNVILLE P3P |
| 0206 248217 | 2001-02-01 | MANNVILLE Q3Q |
| 0206 248218 | 2001-02-01 | MANNVILLE R3R |
| 0206 248219 | 2001-02-01 | MANNVILLE S3S |
| 0206 248220 | 2009-08-01 | MANNVILLE T3T |
| 0206 248221 | 2001-02-01 | MANNVILLE U3U |
| 0206 248222 | 2010-04-01 | MANNVILLE V3V |
| 0206 248224 | 2006-06-01 | MANNVILLE X3X |
| 0206 248225 | 2006-06-01 | MANNVILLE Y3Y |
| 0206 248226 | 2010-04-01 | MANNVILLE Z3Z |
| 0206 248227 | 2001-02-01 | MANNVILLE A4A |
| 0206 248228 | 2001-02-01 | MANNVILLE B4B |
| 0206 248229 | 2001-02-01 | MANNVILLE C4C |
| 0206 248230 | 2001-02-01 | MANNVILLE D4D |
| 0206 248232 | 2001-02-01 | MANNVILLE F4F |
| 0206 248233 | 2001-02-01 | MANNVILLE G4G |
| 0206 248234 | 2001-02-01 | MANNVILLE H4H |
| 0206 248235 | 2012-12-01 | MANNVILLE I4I |
| 0206 248237 | 2001-02-01 | MANNVILLE K4K |
| 0206 248238 | 2001-02-01 | MANNVILLE L4L |
| 0206 248239 | 2001-02-01 | MANNVILLE M4M |
| 0206 248240 | 2001-02-01 | MANNVILLE N4N |
| 0206 248241 | 2001-02-01 | MANNVILLE O4O |
| 0206 248243 | 2010-04-01 | MANNVILLE Q4Q |
| 0206 248244 | 2001-02-01 | MANNVILLE R4R |
| 0206 248245 | 2001-02-01 | MANNVILLE S4S |
| 0206 248246 | 2001-02-01 | MANNVILLE T4T |
| 0206 248247 | 2001-02-01 | MANNVILLE U4U |
| 0206 248248 | 2001-02-01 | MANNVILLE V4V |
| 0206 248249 | 2001-02-01 | MANNVILLE W4W |
| 0206 248250 | 2009-04-01 | MANNVILLE X4X |
| 0206 248251 | 2001-11-01 | MANNVILLE Y4Y |
| 0206 248252 | 2001-02-01 | MANNVILLE Z4Z |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|---------------|
| 0206 248301 | 2001-02-01 | MANNVILLE A5A |
| 0206 248302 | 2001-02-01 | MANNVILLE B5B |
| 0206 248303 | 2001-02-01 | MANNVILLE C5C |
| 0206 248304 | 2001-02-01 | MANNVILLE D5D |
| 0206 248305 | 2001-02-01 | MANNVILLE E5E |
| 0206 248306 | 2001-02-01 | MANNVILLE F5F |
| 0206 248307 | 2001-02-01 | MANNVILLE G5G |
| 0206 248308 | 2001-02-01 | MANNVILLE H5H |
| 0206 248310 | 2001-02-01 | MANNVILLE J5J |
| 0206 248311 | 2001-02-01 | MANNVILLE K5K |
| 0206 248312 | 2001-02-01 | MANNVILLE L5L |
| 0206 248313 | 2001-02-01 | MANNVILLE M5M |
| 0206 248314 | 2001-02-01 | MANNVILLE N5N |
| 0206 248315 | 2001-03-01 | MANNVILLE O5O |
| 0206 248316 | 2001-02-01 | MANNVILLE P5P |
| 0206 248317 | 2001-02-01 | MANNVILLE Q5Q |
| 0206 248319 | 2001-02-01 | MANNVILLE S5S |
| 0206 248320 | 2001-02-01 | MANNVILLE T5T |
| 0206 248321 | 2002-12-01 | MANNVILLE U5U |
| 0206 248322 | 2001-02-01 | MANNVILLE V5V |
| 0206 248323 | 2001-02-01 | MANNVILLE W5W |
| 0206 248324 | 2001-02-01 | MANNVILLE X5X |
| 0206 248325 | 2001-02-01 | MANNVILLE Y5Y |
| 0206 248326 | 2001-02-01 | MANNVILLE Z5Z |
| 0206 248327 | 2001-02-01 | MANNVILLE A6A |
| 0206 248328 | 2001-02-01 | MANNVILLE B6B |
| 0206 248329 | 2010-04-01 | MANNVILLE C6C |
| 0206 248330 | 2007-12-01 | MANNVILLE D6D |
| 0206 248331 | 2001-02-01 | MANNVILLE E6E |
| 0206 248333 | 2012-07-01 | MANNVILLE G6G |
| 0206 248334 | 2001-02-01 | MANNVILLE H6H |
| 0206 248335 | 2001-02-01 | MANNVILLE I6I |
| 0206 248337 | 2001-02-01 | MANNVILLE K6K |
| 0206 248338 | 2001-02-01 | MANNVILLE L6L |
| 0206 248339 | 2001-02-01 | MANNVILLE M6M |
| 0206 248340 | 2001-02-01 | MANNVILLE N6N |
| 0206 248341 | 2001-02-01 | MANNVILLE O6O |
| 0206 248342 | 2001-02-01 | MANNVILLE P6P |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|---------------|
| 0206 248343 | 2010-04-01 | MANNVILLE Q6Q |
| 0206 248344 | 2001-02-01 | MANNVILLE R6R |
| 0206 248345 | 2001-02-01 | MANNVILLE S6S |
| 0206 248346 | 2001-02-01 | MANNVILLE T6T |
| 0206 248347 | 2001-02-01 | MANNVILLE U6U |
| 0206 248348 | 2010-04-01 | MANNVILLE V6V |
| 0206 248349 | 2001-02-01 | MANNVILLE W6W |
| 0206 248350 | 2001-02-01 | MANNVILLE X6X |
| 0206 248351 | 2001-02-01 | MANNVILLE Y6Y |
| 0206 248352 | 2001-02-01 | MANNVILLE Z6Z |
| 0206 248401 | 2001-02-01 | MANNVILLE A7A |
| 0206 248402 | 2001-02-01 | MANNVILLE B7B |
| 0206 248403 | 2001-02-01 | MANNVILLE C7C |
| 0206 248404 | 2001-03-01 | MANNVILLE D7D |
| 0206 248405 | 2001-03-01 | MANNVILLE E7E |
| 0206 248406 | 2001-03-01 | MANNVILLE F7F |
| 0206 248407 | 2001-03-01 | MANNVILLE G7G |
| 0206 248408 | 2010-09-01 | MANNVILLE H7H |
| 0206 248409 | 2003-07-01 | MANNVILLE I7I |
| 0206 248410 | 2001-03-01 | MANNVILLE J7J |
| 0206 248411 | 2004-11-01 | MANNVILLE K7K |
| 0206 248412 | 2001-08-01 | MANNVILLE L7L |
| 0206 248413 | 2001-08-01 | MANNVILLE M7M |
| 0206 248414 | 2001-08-01 | MANNVILLE N7N |
| 0206 248415 | 2001-09-01 | MANNVILLE O7O |
| 0206 248416 | 2001-09-01 | MANNVILLE P7P |
| 0206 248417 | 2001-09-01 | MANNVILLE Q7Q |
| 0206 248418 | 2001-10-01 | MANNVILLE R7R |
| 0206 248419 | 2001-11-01 | MANNVILLE S7S |
| 0206 248420 | 2001-11-01 | MANNVILLE T7T |
| 0206 248421 | 2001-12-01 | MANNVILLE U7U |
| 0206 248422 | 2002-05-01 | MANNVILLE V7V |
| 0206 248423 | 2002-06-01 | MANNVILLE W7W |
| 0206 248424 | 2001-12-01 | MANNVILLE X7X |
| 0206 248425 | 2002-01-01 | MANNVILLE Y7Y |
| 0206 248426 | 2007-11-01 | MANNVILLE Z7Z |
| 0206 248427 | 2002-02-01 | MANNVILLE A8A |
| 0206 248428 | 2002-06-01 | MANNVILLE B8B |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------|
| 0206 248429 2002-02-01 | MANNVILLE C8C |
| 0206 248432 2002-12-01 | MANNVILLE F8F |
| 0206 248433 2002-12-01 | MANNVILLE G8G |
| 0206 248434 2009-04-01 | MANNVILLE H8H |
| 0206 248435 2003-01-01 | MANNVILLE I8I |
| 0206 248436 2003-01-01 | MANNVILLE J8J |
| 0206 248437 2003-01-01 | MANNVILLE K8K |
| 0206 248438 2003-02-01 | MANNVILLE L8L |
| 0206 248439 2003-02-01 | MANNVILLE M8M |
| 0206 248440 2010-05-01 | MANNVILLE N8N |
| 0206 248441 2003-02-01 | MANNVILLE O8O |
| 0206 248442 2003-02-01 | MANNVILLE P8P |
| 0206 248443 2003-03-01 | MANNVILLE Q8Q |
| 0206 248444 2003-04-01 | MANNVILLE R8R |
| 0206 248445 2003-05-01 | MANNVILLE S8S |
| 0206 248446 2003-06-01 | MANNVILLE T8T |
| 0206 248447 2004-02-01 | MANNVILLE U8U |
| 0206 248448 2010-04-01 | MANNVILLE V8V |
| 0206 248449 2003-07-01 | MANNVILLE W8W |
| 0206 248450 2003-09-01 | MANNVILLE X8X |
| 0206 248451 2004-02-01 | MANNVILLE Y8Y |
| 0206 248452 2003-10-01 | MANNVILLE Z8Z |
| 0206 248501 2003-10-01 | MANNVILLE A9A |
| 0206 248502 2003-10-01 | MANNVILLE B9B |
| 0206 248503 2012-12-01 | MANNVILLE C9C |
| 0206 248505 2004-04-01 | MANNVILLE E9E |
| 0206 248507 2004-10-01 | MANNVILLE G9G |
| 0206 248508 2004-02-01 | MANNVILLE H9H |
| 0206 248509 2006-11-01 | MANNVILLE I9I |
| 0206 248510 2004-10-01 | MANNVILLE J9J |
| 0206 248511 2004-06-01 | MANNVILLE K9K |
| 0206 248512 2004-07-01 | MANNVILLE L9L |
| 0206 248513 2004-10-01 | MANNVILLE M9M |
| 0206 248514 2005-02-01 | MANNVILLE N9N |
| 0206 248515 2004-12-01 | MANNVILLE O9O |
| 0206 248516 2006-10-01 | MANNVILLE P9P |
| 0206 248517 2005-03-01 | MANNVILLE Q9Q |
| 0206 248518 2006-02-01 | MANNVILLE R9R |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|----------------|
| 0206 248519 | 2005-05-01 | MANNVILLE S9S |
| 0206 248520 | 2005-06-01 | MANNVILLE T9T |
| 0206 248521 | 2005-06-01 | MANNVILLE U9U |
| 0206 248522 | 2005-09-01 | MANNVILLE V9V |
| 0206 248523 | 2005-08-01 | MANNVILLE W9W |
| 0206 248524 | 2005-08-01 | MANNVILLE X9X |
| 0206 248525 | 2005-08-01 | MANNVILLE Y9Y |
| 0206 248526 | 2005-08-01 | MANNVILLE Z9Z |
| 0206 248527 | 2005-10-01 | MANNVILLE A10A |
| 0206 248528 | 2005-12-01 | MANNVILLE B10B |
| 0206 248530 | 2006-06-01 | MANNVILLE D10D |
| 0206 248531 | 2006-04-01 | MANNVILLE E10E |
| 0206 248532 | 2006-04-01 | MANNVILLE F10F |
| 0206 248533 | 2006-05-01 | MANNVILLE G10G |
| 0206 248534 | 2013-09-01 | MANNVILLE H10H |
| 0206 248536 | 2006-05-01 | MANNVILLE J10J |
| 0206 248537 | 2006-09-01 | MANNVILLE K10K |
| 0206 248538 | 2006-05-01 | MANNVILLE L10L |
| 0206 248539 | 2006-06-01 | MANNVILLE M10M |
| 0206 248540 | 2006-09-01 | MANNVILLE N10N |
| 0206 248541 | 2006-11-01 | MANNVILLE O10O |
| 0206 248542 | 2006-11-01 | MANNVILLE P10P |
| 0206 248543 | 2006-11-01 | MANNVILLE Q10Q |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|----------------|
| 0206 248544 | 2006-12-01 | MANNVILLE R10R |
| 0206 248545 | 2006-12-01 | MANNVILLE S10S |
| 0206 248546 | 2006-12-01 | MANNVILLE T10T |
| 0206 248547 | 2007-03-01 | MANNVILLE U10U |
| 0206 248548 | 2007-07-01 | MANNVILLE V10V |
| 0206 248549 | 2007-07-01 | MANNVILLE W10W |
| 0206 248550 | 2007-07-01 | MANNVILLE X10X |
| 0206 248551 | 2007-07-01 | MANNVILLE Y10Y |
| 0206 248552 | 2010-01-01 | MANNVILLE Z10Z |
| 0206 248601 | 2008-01-01 | MANNVILLE A11A |
| 0206 248602 | 2008-01-01 | MANNVILLE B11B |
| 0206 248603 | 2008-12-01 | MANNVILLE C11C |
| 0206 248604 | 2008-01-01 | MANNVILLE D11D |
| 0206 248605 | 2010-04-01 | MANNVILLE E11E |
| 0206 248606 | 2008-04-01 | MANNVILLE F11F |
| 0206 248607 | 2008-02-01 | MANNVILLE G11G |
| 0206 248608 | 2008-02-01 | MANNVILLE H11H |
| 0206 248609 | 2008-02-01 | MANNVILLE I11I |
| 0206 248610 | 2008-02-01 | MANNVILLE J11J |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0206 248611 2008-02-01 | MANNVILLE K11K |
| 0206 248612 2008-02-01 | MANNVILLE L11L |
| 0206 248613 2008-02-01 | MANNVILLE M11M |
| 0206 248614 2008-03-01 | MANNVILLE N11N |
| 0206 248615 2008-05-01 | MANNVILLE O11O |
| 0206 248616 2008-05-01 | MANNVILLE P11P |
| 0206 248617 2008-05-01 | MANNVILLE Q11Q |
| 0206 248618 2008-05-01 | MANNVILLE R11R |
| 0206 248619 2008-05-01 | MANNVILLE S11S |
| 0206 248620 2008-07-01 | MANNVILLE T11T |
| 0206 248622 2009-01-01 | MANNVILLE V11V |
| 0206 248623 2009-01-01 | MANNVILLE W11W |
| 0206 248624 2009-01-01 | MANNVILLE X11X |
| 0206 248625 2009-04-01 | MANNVILLE Y11Y |
| 0206 248626 2009-04-01 | MANNVILLE Z11Z |
| 0206 248627 2009-05-01 | MANNVILLE A12A |
| 0206 248628 2009-05-01 | MANNVILLE B12B |
| 0206 248629 2009-05-01 | MANNVILLE C12C |
| 0206 248630 2010-04-01 | MANNVILLE D12D |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|----------------|
| 0206 248631 | 2009-07-01 | MANNVILLE E12E |
| 0206 248632 | 2009-09-01 | MANNVILLE F12F |
| 0206 248633 | 2009-10-01 | MANNVILLE G12G |
| 0206 248634 | 2010-01-01 | MANNVILLE H12H |
| 0206 248635 | 2017-12-01 | MANNVILLE I12I |
| 0206 248636 | 2010-02-01 | MANNVILLE J12J |
| 0206 248637 | 2010-02-01 | MANNVILLE K12K |
| 0206 248638 | 2010-02-01 | MANNVILLE L12L |
| 0206 248639 | 2010-03-01 | MANNVILLE M12M |
| 0206 248640 | 2010-03-01 | MANNVILLE N12N |
| 0206 248641 | 2010-03-01 | MANNVILLE O12O |
| 0206 248642 | 2010-05-01 | MANNVILLE P12P |
| 0206 248643 | 2010-05-01 | MANNVILLE Q12Q |
| 0206 248644 | 2010-05-01 | MANNVILLE R12R |
| 0206 248645 | 2010-05-01 | MANNVILLE S12S |
| 0206 248646 | 2010-05-01 | MANNVILLE T12T |
| 0206 248647 | 2010-07-01 | MANNVILLE U12U |
| 0206 248648 | 2010-11-01 | MANNVILLE V12V |
| 0206 248649 | 2010-12-01 | MANNVILLE W12W |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0206 248650 2011-10-01 | MANNVILLE X12X |
| 0206 248651 2011-10-01 | MANNVILLE Y12Y |
| 0206 248652 2011-10-01 | MANNVILLE Z12Z |
| 0206 248701 2011-10-01 | MANNVILLE A13A |
| 0206 248702 2012-01-01 | MANNVILLE B13B |
| 0206 248703 2012-05-01 | MANNVILLE C13C |
| 0206 248704 2012-07-01 | MANNVILLE D13D |
| 0206 248705 2013-04-01 | MANNVILLE E13E |
| 0206 248706 2013-05-01 | MANNVILLE F13F |
| 0206 248707 2013-05-01 | MANNVILLE G13G |
| 0206 248708 2013-05-01 | MANNVILLE H13H |
| 0206 248709 2013-05-01 | MANNVILLE I13I |
| 0206 248710 2013-06-01 | MANNVILLE J13J |
| 0206 248711 2013-07-01 | MANNVILLE K13K |
| 0206 248712 2013-10-01 | MANNVILLE L13L |
| 0206 248713 2013-11-01 | MANNVILLE M13M |
| 0206 248714 2014-02-01 | MANNVILLE N13N |
| 0206 248715 2014-05-01 | MANNVILLE O13O |
| 0206 248716 2015-03-01 | MANNVILLE P13P |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0206 248717 2016-06-01 | MANNVILLE Q13Q |
| 0206 248718 2017-05-01 | MANNVILLE R13R |
| 0206 248719 2015-03-01 | MANNVILLE S13S |
| 0206 248720 2015-10-01 | MANNVILLE T13T |
| 0206 300001 2018-05-01 | GLAUCONITIC A |
| 0206 300002 2016-10-01 | GLAUCONITIC B |
| 0206 300003 2018-07-01 | GLAUCONITIC C |
| 0206 334003 2001-02-01 | BASAL QUARTZ C |
| 0206 334007 2010-04-01 | BASAL QUARTZ G |
| 0206 334008 2001-02-01 | BASAL QUARTZ H |
| 0206 334012 2001-06-01 | BASAL QUARTZ L |
| 0206 334014 2005-01-01 | BASAL QUARTZ N |
| 0206 334015 2010-03-01 | BASAL QUARTZ O |
| 0206 334016 2006-02-01 | BASAL QUARTZ P |
| 0206 334018 2008-12-01 | BASAL QUARTZ R |
| 0206 336001 2016-01-01 | ELLERSLIE A |
| 0206 350001 2015-02-01 | DETRITAL A |
| 0206 350003 2010-04-01 | DETRITAL C |
| 0206 350004 2001-02-01 | DETRITAL D |
| 0206 350005 2001-02-01 | DETRITAL E |
| 0206 350006 2001-02-01 | DETRITAL F |
| 0206 350007 2001-02-01 | DETRITAL G |
| 0206 350008 2003-11-01 | DETRITAL H |
| 0206 350009 2005-12-01 | DETRITAL I |
| 0206 350010 2010-02-01 | DETRITAL J |
| 0206 350011 2010-06-01 | DETRITAL K |
| 0206 350012 2014-03-01 | DETRITAL L |
| 0206 642001 2001-02-01 | PEKISKO A |
| 0206 642003 2001-02-01 | PEKISKO C |
| 0206 642004 2013-02-01 | PEKISKO D |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-----------------------|
| 0206 644002 2018-04-01 | BANFF B |
| 0206 644003 2001-02-01 | BANFF C |
| 0206 644004 2001-02-01 | BANFF D |
| 0206 644007 2001-02-01 | BANFF G |
| 0206 644008 2001-02-01 | BANFF H |
| 0206 644009 2001-02-01 | BANFF I |
| 0206 644010 2014-04-01 | BANFF J |
| 0206 644011 2001-02-01 | BANFF K |
| 0206 644012 2012-01-01 | BANFF L |
| 0206 644013 2005-04-01 | BANFF M |
| 0206 644014 2008-10-01 | BANFF N |
| 0206 644015 2014-01-01 | BANFF O |
| 0206 644016 2013-05-01 | BANFF P |
| 0206 644017 2013-12-01 | BANFF Q |
| 0206 644018 2014-02-01 | BANFF R |
| 0206 644019 2015-11-01 | BANFF S |
| 0206 644020 2015-12-01 | BANFF T |
| 0206 644021 2015-03-01 | BANFF U |
| 0206 644022 2014-12-01 | BANFF V |
| 0206 644023 2014-12-01 | BANFF W |
| 0206 644024 2016-09-01 | BANFF X |
| 0206 694001 2003-09-01 | ARCS A |
| 0206 720001 2013-06-01 | LEDUC A |
| 0206 850100 2011-12-01 | MFP8501 MILK RIVER |
| 0206 850200 2018-04-01 | MFP8502 MED HAT |
| 0206 850500 2011-12-01 | MFP8505 2WS |
| 0206 850600 2014-06-01 | MFP8506 BELLY RIVER |
| 0206 854300 2011-04-01 | MFP8543 BSL BELLY RIV |

SPACING PATTERN

SU 4263 26 Jan 2005
 SU 4263A 18 Mar 2005
 SU 4263B 6 Apr 2005
 SU 4263C 12 Sep 2005
 SU 4263D 24 Nov 2005
 SU 4263E 9 Mar 2006
 SU 4263F 18 Apr 2006
 SU 4263G 19 May 2006
 SU 4263H 28 Feb 2007
 SU 4263I 24 Apr 2007

COMMINGLED PRODUCTION

MU 8679 5 Sept 2014

ENHANCED RECOVERY SCHEMES

App 7027G 5 May 2016
 Waterflood
 Basal Colorado A
 Canadian Natural Resources Limited

App 10446E 5 May 2016
 Waterflood
 Mannville C
 Canadian Natural Resources Limited

App 11183D 22 Jan 2016
 Waterflood
 Mannville C
 Canadian Natural Resources Limited

App 12147F 9 Nov 2017
 Waterflood
 Mannville C
 Journey Energy Inc.

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

App 12631A 22 Aug 2017
 Waterflood
 Mannville C
 Canadian Natural Resources Limited

SUBSURFACE DISPOSAL SCHEMES

App 12371 24 Feb 2015
 Class II
 Traverse Energy Ltd.

App 7786O 16 Jun 2017
 Class II
 Canadian Natural Resources Limited

App 9570 29 Sep 2003
 Class Ib
 Tero Oilfield Services Ltd.

App 10125B 18 Aug 2015
 Class Ib
 Canadian Natural Resources Limited

App 11065A 8 Aug 2014
 Class II
 Convega Energy Ltd.

App 12249A 3 Mar 2015
 Class II
 Imaginea Energy Corp.

FIELD DESIGNATION

0207 2011-07-01 CHAIN FIELD

POOL DESIGNATION

0207 118801 2011-07-01 LOWER EDMONTON A
0207 118802 2008-02-01 LOWER EDMONTON B
0207 118803 2013-10-01 LOWER EDMONTON C
0207 118804 2013-04-01 LOWER EDMONTON D
0207 118805 2014-06-01 LOWER EDMONTON E

0207 126009 2009-07-01 BELLY RIVER I
0207 126022 2009-05-01 BELLY RIVER V
0207 126023 2011-03-01 BELLY RIVER W
0207 126024 2011-10-01 BELLY RIVER X

0207 134002 2005-06-01 BASAL BELLY RIVER B
0207 134005 2005-06-01 BASAL BELLY RIVER E

0207 218001 2004-01-01 VIKING A
0207 218002 2001-02-01 VIKING B
0207 218004 2012-06-01 VIKING D
0207 218005 2001-02-01 VIKING E
0207 218006 2001-02-01 VIKING F
0207 218007 2001-02-01 VIKING G
0207 218008 2010-04-01 VIKING H

0207 250001 2002-11-01 UPPER MANNVILLE A
0207 250002 2006-05-01 UPPER MANNVILLE B
0207 250003 2006-08-01 UPPER MANNVILLE C
0207 250004 2008-05-01 UPPER MANNVILLE D
0207 250005 2008-12-01 UPPER MANNVILLE E
0207 250006 2009-03-01 UPPER MANNVILLE F
0207 250007 2009-10-01 UPPER MANNVILLE G
0207 250008 2013-04-01 UPPER MANNVILLE H

0207 300001 2001-02-01 GLAUCONITIC A

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|-----------------------|
| 0207 300002 | 2001-02-01 | GLAUCONITIC B |
| 0207 300003 | 2006-11-01 | GLAUCONITIC C |
| 0207 300004 | 2007-09-01 | GLAUCONITIC D |
| 0207 300005 | 2013-11-01 | GLAUCONITIC E |
| | | |
| 0207 310002 | 2001-02-01 | LOWER MANNVILLE B |
| 0207 310003 | 2001-02-01 | LOWER MANNVILLE C |
| 0207 310004 | 2004-10-01 | LOWER MANNVILLE D |
| 0207 310005 | 2006-09-01 | LOWER MANNVILLE E |
| 0207 310006 | 2009-02-01 | LOWER MANNVILLE F |
| 0207 310007 | 2010-08-01 | LOWER MANNVILLE G |
| | | |
| 0207 644001 | 2010-04-01 | BANFF A |
| 0207 644002 | 2010-04-01 | BANFF B |
| 0207 644003 | 2001-02-01 | BANFF C |
| 0207 644004 | 2001-02-01 | BANFF D |
| 0207 644006 | 2001-02-01 | BANFF F |
| 0207 644007 | 2010-04-01 | BANFF G |
| | | |
| 0207 850600 | 2011-01-01 | MFP8506 BELLY RIVER |
| | | |
| 0207 854000 | 2011-03-01 | MFP8540 BSL BELLY RIV |

SPACING PATTERN

| | |
|----------|-------------|
| SU 2242 | 20 Jul 1995 |
| SU 2242A | 20 Nov 2000 |
| SU 2242B | 4 Jan 2001 |
| SU 2242C | 16 Apr 2005 |
| SU 2242D | 6 Sep 2005 |
| SU 2242E | 4 Apr 2006 |

COMMINGLED PRODUCTION

| | |
|---------|-------------|
| MU 8266 | 12 Dec 2011 |
|---------|-------------|

FIELD DESIGNATION

0208 2001-02-01 CHAMBERLAIN FIELD

POOL DESIGNATION

0208 244000 2001-02-01 BLAIRMORE

SPACING PATTERN

SU 2846 9 Dec 1997

SUBSURFACE DISPOSAL SCHEMES

App 7842 18 Jan 1996

App 7842B 30 May 2018
Class Ia
Celanese Canada ULC

App 8251A 2 Jul 2014
Class Ia
Imperial Oil Resources Limited

App 8784C 28 Aug 2014
Class Ia
Suncor Energy Inc.

App 9699D 19 May 2017
Class Ia disposal scheme
Eco-Industrial Business Park Inc.
App 9700 23 Feb 2004

App 9700B 30 May 2018
Class Ia
Lanxess Canada Co./CIE

App 12330A 4 Jan 2018
Class II & Ib
Secure Energy Services Inc.

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

App 12618 19 May 2017
Class Ia & Ib
Eco-Industrial Business Park Inc.

SURFACE PIT DISPOSAL

W 199 15 Dec 1961
No pit disposal

COMPULSORY POOLING

P 198 6 Nov 2000
P 198A 5 Feb 2001
Oil
SW/4 31-052-23W4M
Northrock Resources Ltd.

FIELD DESIGNATION

0205 2011-11-01 CHAMBERS FIELD

POOL DESIGNATION

0205 126001 2010-08-01 BELLY RIVER A

0205 176001 2011-12-01 CARDIUM A
0205 176002 2013-05-01 CARDIUM B

0205 202001 2011-11-01 FISH SCALE A

0205 218001 2010-05-01 VIKING A
0205 218002 2015-07-01 VIKING B
0205 218003 2010-08-01 VIKING C
0205 218004 2011-11-01 VIKING D

0205 250001 2002-06-01 UPPER MANNVILLE A
0205 250002 2011-01-01 UPPER MANNVILLE B
0205 250003 2011-01-01 UPPER MANNVILLE C

0205 336001 2002-10-01 ELLERSLIE A
0205 336002 2014-12-01 ELLERSLIE B
0205 336003 2014-12-01 ELLERSLIE C
0205 336004 2014-12-01 ELLERSLIE D
0205 336005 2011-11-01 ELLERSLIE E
0205 336006 2011-11-01 ELLERSLIE F
0205 336007 2015-09-01 ELLERSLIE G

0205 432001 2009-01-01 ROCK CREEK A
0205 432002 2011-11-01 ROCK CREEK B

0205 638001 2001-03-01 ELKTON A

FIELD DESIGNATION

0215 2001-03-01 CHANDLER FIELD

POOL DESIGNATION

0215 256001 2001-03-01 COLONY A
0215 256002 2001-02-01 COLONY B
0215 256003 2001-03-01 COLONY C
0215 256004 2001-02-01 COLONY D
0215 256005 2001-02-01 COLONY E
0215 256006 2001-03-01 COLONY F
0215 256007 2001-03-01 COLONY G
0215 256008 2001-03-01 COLONY H

0215 262001 2001-02-01 GRAND RAPIDS A
0215 262002 2001-02-01 GRAND RAPIDS B
0215 262003 2001-02-01 GRAND RAPIDS C
0215 262004 2001-06-01 GRAND RAPIDS D
0215 262005 2002-05-01 GRAND RAPIDS E
0215 262006 2002-05-01 GRAND RAPIDS F
0215 262007 2002-05-01 GRAND RAPIDS G
0215 262008 2005-04-01 GRAND RAPIDS H

0215 270001 2005-04-01 WASECA A
0215 270002 2005-11-01 WASECA B

0215 276001 2005-04-01 SPARKY A

COMMINGLED PRODUCTION

MU 4566 19 Aug 2005

FIELD DESIGNATION

0225 2010-02-01 CHARD FIELD

POOL DESIGNATION

0225 280001 2010-04-01 CLEARWATER A
0225 280002 2010-04-01 CLEARWATER B
0225 280003 2001-02-01 CLEARWATER C
0225 280004 2001-02-01 CLEARWATER D
0225 280005 2003-03-01 CLEARWATER E
0225 280006 2005-10-01 CLEARWATER F
0225 280008 2004-09-01 CLEARWATER H
0225 280009 2005-07-01 CLEARWATER I
0225 280010 2005-11-01 CLEARWATER J
0225 280011 2005-11-01 CLEARWATER K
0225 280012 2005-11-01 CLEARWATER L
0225 280013 2008-09-01 CLEARWATER M
0225 280014 2008-09-01 CLEARWATER N
0225 280015 2011-03-01 CLEARWATER O

0225 306006 2001-02-01 WABISKAW F
0225 306010 2001-02-01 WABISKAW J
0225 306011 2003-12-01 WABISKAW K
0225 306012 2001-02-01 WABISKAW L
0225 306013 2001-03-01 WABISKAW M
0225 306014 2003-12-01 WABISKAW N
0225 306015 2004-01-01 WABISKAW O

0225 306201 2010-04-01 WABISKAW-MCMURRAY A

0225 328002 2004-01-01 MCMURRAY B
0225 328005 2010-04-01 MCMURRAY E
0225 328007 2006-07-01 MCMURRAY G
0225 328009 2004-01-01 MCMURRAY I
0225 328011 2001-02-01 MCMURRAY K
0225 328014 2010-04-01 MCMURRAY N
0225 328015 2001-02-01 MCMURRAY O

POOL DESIGNATION (cont'd)

0225 328016 2004-01-01 MCMURRAY P
 0225 328024 2010-04-01 MCMURRAY X
 0225 328026 2004-01-01 MCMURRAY Z
 0225 328031 2003-12-01 MCMURRAY EE
 0225 328034 2001-02-01 MCMURRAY HH
 0225 328042 2001-04-01 MCMURRAY PP
 0225 328048 2004-09-01 MCMURRAY VV
 0225 328050 2004-01-01 MCMURRAY XX
 0225 328051 2004-01-01 MCMURRAY YY
 0225 328601 2006-09-01 MCMURRAY AAA
 0225 328602 2004-01-01 MCMURRAY BBB
 0225 328603 2010-04-01 MCMURRAY CCC
 0225 328604 2006-06-01 MCMURRAY DDD
 0225 328605 2004-01-01 MCMURRAY EEE
 0225 328606 2004-01-01 MCMURRAY FFF
 0225 328608 2010-04-01 MCMURRAY HHH
 0225 328609 2004-01-01 MCMURRAY III
 0225 328610 2004-02-01 MCMURRAY JJJ
 0225 328611 2004-09-01 MCMURRAY KKK
 0225 328612 2004-09-01 MCMURRAY LLL
 0225 328613 2008-03-01 MCMURRAY MMM
 0225 328615 2006-03-01 MCMURRAY OOO
 0225 328616 2006-03-01 MCMURRAY PPP
 0225 328617 2008-08-01 MCMURRAY QQQ

0225 744001 2011-08-01 BEAVERHILL LAKE A

SPACING PATTERN

SU 2251 7 Jun 1995
 SU 2251A 23 Feb 2007

COMMINGLED PRODUCTION

MU 7530 16 Sep 2010

SUBSURFACE DISPOSAL SCHEMES

App 11082A 16 Oct 2013
 Class Ib
 Nexen Energy ULC

App 11173A 6 Sept 2012
 Class II
 Canadian Natural Resources Limited

FIELD DESIGNATION

0165 2005-11-01 CHARLIE FIELD

POOL DESIGNATION

0165 304001 2004-08-01 BLUESKY A
0165 304002 2001-03-01 BLUESKY B
0165 304003 2005-08-01 BLUESKY C

0165 326003 2013-12-01 GETHING C
0165 326004 2001-02-01 GETHING D
0165 326005 2011-05-01 GETHING E
0165 326008 2009-06-01 GETHING H
0165 326009 2005-07-01 GETHING I
0165 326010 2004-08-01 GETHING J
0165 326011 2004-08-01 GETHING K
0165 326012 2013-07-01 GETHING L
0165 326013 2013-07-01 GETHING M
0165 326014 2012-12-01 GETHING N
0165 326015 2003-03-01 GETHING O
0165 326016 2003-02-01 GETHING P
0165 326017 2004-10-01 GETHING Q
0165 326018 2012-12-01 GETHING R
0165 326019 2005-08-01 GETHING S
0165 326020 2007-03-01 GETHING T
0165 326021 2006-03-01 GETHING U
0165 326022 2010-01-01 GETHING V
0165 326023 2013-09-01 GETHING W

0165 524001 2003-03-01 MONTNEY A
0165 524002 2012-10-01 MONTNEY B

SPACING PATTERN

SU 2967 1 Mar 2000
SU 2967A 8 Jan 2001
SU 2967B 14 Oct 2003
SU 2967C 7 Apr 2004

COMMINGLED PRODUCTION

MU 8285 25 Jan 2012

SUBSURFACE DISPOSAL SCHEMES

App 8830E 26 Mar 2018

Class II

Direct Oil & Gas Inc.

FIELD DESIGNATION

0209 2006-04-01 CHARLOTTE LAKE FIELD

POOL DESIGNATION

0209 211001 2006-10-01 LOWER COLORADO A
0209 211002 2008-06-01 LOWER COLORADO B

0209 218001 2006-10-01 VIKING A

0209 256001 2014-12-01 COLONY A
0209 256002 2001-02-01 COLONY B
0209 256007 2012-06-01 COLONY G
0209 256009 2001-02-01 COLONY I
0209 256010 2010-04-01 COLONY J
0209 256012 2014-12-01 COLONY L
0209 256013 2001-02-01 COLONY M
0209 256014 2001-02-01 COLONY N
0209 256015 2001-02-01 COLONY O
0209 256016 2014-12-01 COLONY P
0209 256017 2014-12-01 COLONY Q
0209 256018 2014-12-01 COLONY R
0209 256019 2014-12-01 COLONY S
0209 256020 2014-12-01 COLONY T
0209 256021 2015-10-01 COLONY U
0209 256022 2014-12-01 COLONY V

0209 262001 2010-04-01 GRAND RAPIDS A
0209 262002 2001-02-01 GRAND RAPIDS B
0209 262003 2001-02-01 GRAND RAPIDS C
0209 262005 2010-04-01 GRAND RAPIDS E
0209 262007 2010-04-01 GRAND RAPIDS G
0209 262008 2010-04-01 GRAND RAPIDS H
0209 262009 2010-04-01 GRAND RAPIDS I
0209 262010 2010-04-01 GRAND RAPIDS J
0209 262011 2001-02-01 GRAND RAPIDS K
0209 262012 2001-02-01 GRAND RAPIDS L

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|----------------|
| 0209 262013 | 2001-03-01 | GRAND RAPIDS M |
| 0209 262014 | 2003-12-01 | GRAND RAPIDS N |
| 0209 262015 | 2003-12-01 | GRAND RAPIDS O |
| 0209 262016 | 2002-06-01 | GRAND RAPIDS P |
| 0209 262017 | 2012-08-01 | GRAND RAPIDS Q |
| 0209 262018 | 2004-07-01 | GRAND RAPIDS R |
| 0209 262019 | 2006-05-01 | GRAND RAPIDS S |

0209 276001 2001-02-01 SPARKY A

SPACING PATTERN

SU 2611 23 Feb 1996

COMMINGLED PRODUCTION

MU 8757 14 Sep 2015

SUBSURFACE DISPOSAL SCHEMES

App 9790 17 Mar 2004
Class II
Canadian Natural Resources Limited

FIELD DESIGNATION

0237 2004-10-01 CHARM FIELD

POOL DESIGNATION

0237 307201 2010-04-01 BLUESKY-DEBOLT A
0237 307202 2004-12-01 BLUESKY-DEBOLT B
0237 307203 2004-12-01 BLUESKY-DEBOLT C

0237 350001 2004-10-01 DETRITAL A

0237 350801 2004-10-01 DETRITAL-DEBOLT A

0237 758001 2004-10-01 SLAVE POINT A

SPACING PATTERN

SU 4370 7 May 2007

FIELD DESIGNATION

0211 2007-11-01 CHARRON FIELD

POOL DESIGNATION

0211 218001 2012-06-01 VIKING A
0211 218002 2012-06-01 VIKING B
0211 218003 2001-02-01 VIKING C
0211 218004 2010-04-01 VIKING D
0211 218005 2002-04-01 VIKING E
0211 218006 2002-04-01 VIKING F
0211 218007 2002-05-01 VIKING G
0211 218008 2007-12-01 VIKING H

0211 256001 2001-02-01 COLONY A
0211 256003 2001-02-01 COLONY C
0211 256004 2001-02-01 COLONY D
0211 256005 2001-02-01 COLONY E

0211 262001 2001-02-01 GRAND RAPIDS A
0211 262002 2001-02-01 GRAND RAPIDS B
0211 262003 2001-02-01 GRAND RAPIDS C
0211 262004 2001-02-01 GRAND RAPIDS D
0211 262005 2001-02-01 GRAND RAPIDS E
0211 262006 2001-02-01 GRAND RAPIDS F
0211 262007 2001-02-01 GRAND RAPIDS G
0211 262009 2001-02-01 GRAND RAPIDS I
0211 262011 2001-02-01 GRAND RAPIDS K
0211 262012 2006-01-01 GRAND RAPIDS L
0211 262013 2001-02-01 GRAND RAPIDS M
0211 262015 2001-02-01 GRAND RAPIDS O
0211 262016 2001-02-01 GRAND RAPIDS P
0211 262017 2002-05-01 GRAND RAPIDS Q
0211 262018 2005-02-01 GRAND RAPIDS R
0211 262019 2009-06-01 GRAND RAPIDS S
0211 262020 2007-09-01 GRAND RAPIDS T
0211 262021 2009-08-01 GRAND RAPIDS U

POOL DESIGNATION (cont'd)

| | |
|------------------------|--------------|
| 0211 276001 2010-04-01 | SPARKY A |
| 0211 276002 2002-01-01 | SPARKY B |
| 0211 276003 2008-08-01 | SPARKY C |
| 0211 276004 2002-02-01 | SPARKY D |
| 0211 276005 2007-12-01 | SPARKY E |
| | |
| 0211 280001 2001-02-01 | CLEARWATER A |
| 0211 280002 2001-02-01 | CLEARWATER B |
| 0211 280003 2006-03-01 | CLEARWATER C |
| 0211 280004 2007-09-01 | CLEARWATER D |
| 0211 280005 2009-08-01 | CLEARWATER E |
| | |
| 0211 306001 2005-02-01 | WABISKAW A |
| | |
| 0211 328001 2001-02-01 | MCMURRAY A |
| 0211 328002 2010-04-01 | MCMURRAY B |
| 0211 328003 2010-04-01 | MCMURRAY C |
| 0211 328004 2010-04-01 | MCMURRAY D |
| 0211 328005 2001-02-01 | MCMURRAY E |
| 0211 328006 2001-02-01 | MCMURRAY F |
| 0211 328007 2001-02-01 | MCMURRAY G |
| 0211 328008 2001-09-01 | MCMURRAY H |
| 0211 328009 2011-06-01 | MCMURRAY I |
| 0211 328010 2004-06-01 | MCMURRAY J |
| 0211 328011 2005-05-01 | MCMURRAY K |
| 0211 328012 2006-05-01 | MCMURRAY L |
| 0211 328013 2008-03-01 | MCMURRAY M |
| | |
| 0211 716001 2010-04-01 | GROSMONT A |
| 0211 716002 2003-05-01 | GROSMONT B |
| 0211 716003 2004-05-01 | GROSMONT C |
| 0211 716004 2005-05-01 | GROSMONT D |

COMMINGLED PRODUCTION

MU 5228 9 Feb 2006

SUBSURFACE DISPOSAL SCHEMES

App 8899A 23 Mar 2009
Class II
Canadian Natural Resources Limited

SUBSURFACE DISPOSAL SCHEMES

(cont'd)

App 9694A 25 Oct 2011

Class II

Chinook Energy Inc.

App 9800 22 Mar 2004

Class II

Canadian Natural Resources Limited

FIELD DESIGNATION

1023 2011-03-01 CHAUNCEY FIELD

POOL DESIGNATION

1023 213001 2005-04-01 BOW ISLAND A
1023 628001 2013-07-01 LIVINGSTONE A
1023 644001 2008-11-01 BANFF A
1023 850600 2011-01-01 MFP8506 BELLY RIVER

FIELD DESIGNATION

0210 2011-03-01 CHAUVIN FIELD

POOL DESIGNATION

0210 160001 2001-02-01 COLORADO A

0210 211001 2010-04-01 LOWER COLORADO A
0210 211002 2014-01-01 LOWER COLORADO B
0210 211003 2014-06-01 LOWER COLORADO C
0210 211004 2014-06-01 LOWER COLORADO D
0210 211005 2014-06-01 LOWER COLORADO E
0210 211006 2015-04-01 LOWER COLORADO F

0210 218001 2001-02-01 VIKING A
0210 218002 2010-04-01 VIKING B
0210 218003 2014-06-01 VIKING C
0210 218004 2015-04-01 VIKING D

0210 248001 2001-02-01 MANNVILLE A
0210 248002 2001-02-01 MANNVILLE B
0210 248003 2001-02-01 MANNVILLE C
0210 248004 2001-02-01 MANNVILLE D
0210 248005 2001-02-01 MANNVILLE E

0210 256002 2001-02-01 COLONY B

0210 268001 2001-02-01 MCLAREN A
0210 268002 2004-06-01 MCLAREN B

0210 276001 2002-06-01 SPARKY A
0210 276004 2001-02-01 SPARKY D
0210 276005 2013-04-01 SPARKY E
0210 276007 2001-02-01 SPARKY G
0210 276008 2001-02-01 SPARKY H
0210 276009 2001-02-01 SPARKY I
0210 276011 2001-02-01 SPARKY K

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|---------------------|
| 0210 276012 | 2010-04-01 | SPARKY L |
| 0210 276013 | 2001-02-01 | SPARKY M |
| 0210 276014 | 2001-02-01 | SPARKY N |
| 0210 286001 | 2009-10-01 | GENERAL PETROLEUM A |
| 0210 288001 | 2006-06-01 | REX A |
| 0210 294004 | 2018-02-01 | LLOYDMINSTER D |
| 0210 294005 | 2001-02-01 | LLOYDMINSTER E |
| 0210 302001 | 2012-06-01 | CUMMINGS A |
| 0210 302002 | 2014-04-01 | CUMMINGS B |

SPACING PATTERN

| | |
|----------|-------------|
| SU 3035F | 26 Aug 2002 |
| SU 4038 | 16 Dec 2002 |
| SU 4038A | 26 Feb 2003 |
| SU 4038B | 26 Feb 2004 |
| SU 4038C | 30 Nov 2004 |
| SU 4038D | 7 Apr 2005 |
| SU 4038E | 29 Nov 2005 |
| SU 4038F | 19 May 2006 |
| SU 4038G | 12 Jun 2006 |
| SU 4038H | 17 Sep 2007 |

COMMINGLED PRODUCTION

| | |
|---------|------------|
| MU 5727 | 1 Sep 2006 |
|---------|------------|

ENHANCED RECOVERY SCHEMES

App 7645F 30 Aug 2016
Waterflood
Sparky E and General Petroleum A
Husky Oil Operations Limited

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

App 8405F 1 Sep 2015
Waterflood
Sparky L
Cardinal Energy Ltd.

App 8413E 8 Dec 2015
Waterflood
Lloydminster D
Cardinal Energy Ltd.

App 8633F 8 Dec 2015
Waterflood
Sparky K and M
Cardinal Energy Ltd.

App 9853D 19 Jan 2016
Waterflood
Mannville B
Repsol Oil & Gas Canada Inc.

ENHANCED RECOVERY SCHEMES

(cont'd)

App 10663E 19 Jan 2016
Waterflood
Mannville A Rex A
Repsol Oil & Gas Canada Inc.

SUBSURFACE DISPOSAL SCHEMES

App 3848A 9 Mar 2010
Class II
Husky Oil Operations Limited

SURFACE PIT DISPOSAL

W 298 1 Sep 1967
No pit disposal over 400 bbl/mo
At Dev-Pal Chauvin Bty 1

FIELD DESIGNATION

0212 2010-04-01 CHAUVIN SOUTH FIELD

POOL DESIGNATION

0212 202001 2013-02-01 FISH SCALE A

0212 211001 2005-02-01 LOWER COLORADO A
0212 211002 2005-03-01 LOWER COLORADO B
0212 211003 2006-08-01 LOWER COLORADO C
0212 211004 2008-05-01 LOWER COLORADO D
0212 211005 2011-05-01 LOWER COLORADO E

0212 218001 2010-11-01 VIKING A
0212 218002 2005-12-01 VIKING B
0212 218003 2001-02-01 VIKING C
0212 218004 2012-06-01 VIKING D
0212 218005 2005-02-01 VIKING E
0212 218006 2005-03-01 VIKING F
0212 218007 2005-12-01 VIKING G
0212 218008 2006-08-01 VIKING H
0212 218009 2006-09-01 VIKING I
0212 218010 2013-05-01 VIKING J
0212 218011 2008-09-01 VIKING K
0212 218012 2009-10-01 VIKING L
0212 218013 2010-04-01 VIKING M
0212 218014 2010-05-01 VIKING N
0212 218015 2010-08-01 VIKING O
0212 218016 2011-05-01 VIKING P
0212 218017 2011-05-01 VIKING Q
0212 218018 2011-05-01 VIKING R
0212 218019 2013-12-01 VIKING S

0212 250001 2001-02-01 UPPER MANNVILLE A
0212 250003 2001-02-01 UPPER MANNVILLE C
0212 250004 2001-02-01 UPPER MANNVILLE D
0212 250005 2001-02-01 UPPER MANNVILLE E

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0212 250006 2010-04-01 | UPPER MANNVILLE F |
| 0212 250007 2001-02-01 | UPPER MANNVILLE G |
| 0212 250008 2002-04-01 | UPPER MANNVILLE H |
| 0212 250009 2002-04-01 | UPPER MANNVILLE I |
| 0212 250010 2003-07-01 | UPPER MANNVILLE J |
| | |
| 0212 256001 2013-11-01 | COLONY A |
| 0212 256002 2011-12-01 | COLONY B |
| 0212 256003 2006-10-01 | COLONY C |
| 0212 256004 2006-10-01 | COLONY D |
| 0212 256005 2006-12-01 | COLONY E |
| 0212 256006 2001-02-01 | COLONY F |
| 0212 256007 2016-01-01 | COLONY G |
| 0212 256010 2001-02-01 | COLONY J |
| 0212 256011 2001-02-01 | COLONY K |
| 0212 256012 2001-02-01 | COLONY L |
| 0212 256014 2001-02-01 | COLONY N |
| 0212 256015 2001-02-01 | COLONY O |
| 0212 256017 2001-02-01 | COLONY Q |
| 0212 256018 2001-02-01 | COLONY R |
| 0212 256019 2010-04-01 | COLONY S |
| 0212 256021 2001-02-01 | COLONY U |
| 0212 256022 2001-02-01 | COLONY V |
| 0212 256023 2001-02-01 | COLONY W |
| 0212 256024 2001-02-01 | COLONY X |
| 0212 256025 2001-02-01 | COLONY Y |
| 0212 256026 2001-02-01 | COLONY Z |
| 0212 256027 2003-02-01 | COLONY AA |
| 0212 256028 2005-03-01 | COLONY BB |
| 0212 256029 2003-09-01 | COLONY CC |
| 0212 256030 2005-06-01 | COLONY DD |
| 0212 256031 2005-08-01 | COLONY EE |
| 0212 256032 2006-01-01 | COLONY FF |
| 0212 256033 2008-03-01 | COLONY GG |
| 0212 256034 2010-04-01 | COLONY HH |
| 0212 256035 2008-10-01 | COLONY II |
| 0212 256036 2008-12-01 | COLONY JJ |
| 0212 256037 2010-05-01 | COLONY KK |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0212 256038 2011-06-01 | COLONY LL |
| 0212 268002 2007-12-01 | MCLAREN B |
| 0212 268003 2013-05-01 | MCLAREN C |
| 0212 276001 2014-04-01 | SPARKY A |
| 0212 276011 2004-11-01 | SPARKY K |
| 0212 276013 2010-04-01 | SPARKY M |
| 0212 276021 2001-02-01 | SPARKY U |
| 0212 276023 2007-03-01 | SPARKY W |
| 0212 276029 2001-02-01 | SPARKY CC |
| 0212 276030 2001-02-01 | SPARKY DD |
| 0212 276031 2001-02-01 | SPARKY EE |
| 0212 276032 2001-02-01 | SPARKY FF |
| 0212 276033 2001-02-01 | SPARKY GG |
| 0212 276034 2001-02-01 | SPARKY HH |
| 0212 276035 2010-08-01 | SPARKY II |
| 0212 276036 2001-02-01 | SPARKY JJ |
| 0212 276037 2002-12-01 | SPARKY KK |
| 0212 276038 2005-09-01 | SPARKY LL |
| 0212 276039 2006-03-01 | SPARKY MM |
| 0212 276040 2005-09-01 | SPARKY NN |
| 0212 276042 2011-08-01 | SPARKY PP |
| 0212 276043 2008-09-01 | SPARKY QQ |
| 0212 276044 2012-07-01 | SPARKY RR |
| 0212 286003 2008-05-01 | GENERAL PETROLEUM C |
| 0212 286004 2013-06-01 | GENERAL PETROLEUM D |
| 0212 286005 2008-08-01 | GENERAL PETROLEUM E |
| 0212 286006 2010-04-01 | GENERAL PETROLEUM F |
| 0212 286007 2001-02-01 | GENERAL PETROLEUM G |
| 0212 286008 2005-01-01 | GENERAL PETROLEUM H |
| 0212 286010 2009-08-01 | GENERAL PETROLEUM J |
| 0212 286012 2005-09-01 | GENERAL PETROLEUM L |
| 0212 286013 2005-08-01 | GENERAL PETROLEUM M |
| 0212 286014 2005-08-01 | GENERAL PETROLEUM N |
| 0212 286016 2016-07-01 | GENERAL PETROLEUM P |
| 0212 286017 2012-07-01 | GENERAL PETROLEUM Q |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|----------------|
| 0212 288001 | 2001-02-01 | REX A |
| 0212 288002 | 2010-04-01 | REX B |
| 0212 288003 | 2001-02-01 | REX C |
| 0212 288004 | 2010-09-01 | REX D |
| 0212 288005 | 2009-12-01 | REX E |
| 0212 288006 | 2013-05-01 | REX F |
| | | |
| 0212 294003 | 2018-03-01 | LLOYDMINSTER C |
| 0212 294006 | 2010-06-01 | LLOYDMINSTER F |
| 0212 294007 | 2001-08-01 | LLOYDMINSTER G |
| 0212 294008 | 2001-02-01 | LLOYDMINSTER H |
| 0212 294011 | 2004-12-01 | LLOYDMINSTER K |
| 0212 294012 | 2006-05-01 | LLOYDMINSTER L |
| 0212 294013 | 2009-01-01 | LLOYDMINSTER M |
| 0212 294014 | 2013-05-01 | LLOYDMINSTER N |
| | | |
| 0212 302002 | 2001-02-01 | CUMMINGS B |
| 0212 302003 | 2005-03-01 | CUMMINGS C |
| 0212 302004 | 2011-10-01 | CUMMINGS D |
| 0212 302005 | 2011-04-01 | CUMMINGS E |
| 0212 302006 | 2011-08-01 | CUMMINGS F |
| 0212 302007 | 2013-05-01 | CUMMINGS G |
| | | |
| 0212 322002 | 2001-02-01 | DINA B |
| | | |
| 0212 350001 | 2007-04-01 | DETRITAL A |
| | | |
| 0212 708001 | 2001-02-01 | CAMROSE A |
| 0212 708002 | 2003-02-01 | CAMROSE B |
| | | |
| 0212 720001 | 2012-04-01 | LEDUC A |
| 0212 720002 | 2011-10-01 | LEDUC B |
| 0212 720004 | 2012-04-01 | LEDUC D |
| 0212 720005 | 2013-03-01 | LEDUC E |
| 0212 720006 | 2014-10-01 | LEDUC F |
| 0212 720007 | 2016-12-01 | LEDUC G |

SPACING PATTERN

SU 3035 4 Jul 2001
 SU 3035A 31 Jul 2001
 SU 3035B 13 Aug 2001
 SU 3035C 8 Nov 2001
 SU 3035D 19 Apr 2002
 SU 3035E 17 May 2002
 SU 3035F 26 Aug 2002

SU 4038 16 Dec 2002
 SU 4038A 26 Feb 2003
 SU 4038B 26 Feb 2004
 SU 4038C 30 Nov 2004
 SU 4038D 7 Apr 2005
 SU 4038E 29 Nov 2005
 SU 4038F 19 May 2006
 SU 4038G 12 Jun 2006
 SU 4038H 17 Sep 2007

COMMINGLED PRODUCTION

MU 8462 31 Dec 2012

ENHANCED RECOVERY SCHEMES

App 3660F
 Waterflood
 General Petroleum Q
 Cardinal Energy Ltd.

App 5162E 12 May 2015
 Waterflood
 General Petroleum D & Sparky A
 Crescent Point Energy Corp.

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

App 5909W 8 Nov 2017
 Waterflood
 Sparky A, GP D and E, Lloyd C and F, Rex
 B
 Repsol Oil & Gas Canada Inc.

App 8820F 15 May 2015
 Waterflood
 Sparky A and General Petroleum D
 Cardinal Energy Ltd.

App 8221G 3 Jun 2015
 Waterflood
 Sparky A and General Petroleum D
 Cardinal Energy Ltd.

App 8822H 20 May 2015
 Waterflood
 Sparky A and General Petroleum D
 Cardinal Energy Ltd.

App 10049E 9 Dec 2015
 Waterflood
 Sparky LL
 Cardinal Energy Ltd.

App 10342C 16 Apr 2015
 Waterflood
 Sparky MM
 Cardinal Energy Ltd.

App 10355C 9 Dec 2015
 Waterflood
 General Petroleum D and Sparky A
 Cardinal Energy Ltd.

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

App 10420C 19 Jan 2016
Waterflood
Sparky W
Repsol Oil & Gas Canada Inc.

App 10676D 25 Feb 2016
Waterflood
General Petroleum Q
Cardinal Energy Ltd.

SUBSURFACE DISPOSAL SCHEMES

App 1974C 20 May 2014
Class II
Cardinal Energy Ltd.

App 11578F 13 Jun 2016
Class II
Repsol Oil & Gas Canada Inc.

FIELD DESIGNATION

0226 2013-04-01 CHEDDERSVILLE FIELD

POOL DESIGNATION

0226 176001 2001-02-01 CARDIUM A

0226 186001 2001-02-01 SECOND WHITE SPECKS A

0226 218001 2010-04-01 VIKING A

0226 218003 2001-02-01 VIKING C

0226 336002 2009-03-01 ELLERSLIE B

0226 638001 2001-02-01 ELKTON A

0226 720001 2001-02-01 LEDUC A

0226 720002 2001-02-01 LEDUC B

0226 720004 2001-02-01 LEDUC D

0226 732001 2001-02-01 COOKING LAKE A

SPACING PATTERN

SU 2175 5 May 1995

SU 2175A 13 Jul 1995

SU 2175B 1 Nov 1996

FIELD DESIGNATION

0213 2009-03-01 CHERHILL FIELD

POOL DESIGNATION

0213 126002 2001-03-01 BELLY RIVER B
0213 126009 2008-07-01 BELLY RIVER I

0213 134001 2009-10-01 BASAL BELLY RIVER A
0213 134003 2005-06-01 BASAL BELLY RIVER C
0213 134004 2016-03-01 BASAL BELLY RIVER D
0213 134006 2010-04-01 BASAL BELLY RIVER F
0213 134007 2009-03-01 BASAL BELLY RIVER G
0213 134008 2009-11-01 BASAL BELLY RIVER H
0213 134009 2016-03-01 BASAL BELLY RIVER I
0213 134011 2016-03-01 BASAL BELLY RIVER K

0213 218001 2001-02-01 VIKING A
0213 218002 2001-02-01 VIKING B
0213 218003 2011-10-01 VIKING C
0213 218004 2001-02-01 VIKING D
0213 218005 2010-04-01 VIKING E
0213 218006 2001-12-01 VIKING F
0213 218007 2003-02-01 VIKING G
0213 218008 2005-02-01 VIKING H
0213 218009 2007-03-01 VIKING I
0213 218010 2008-10-01 VIKING J

0213 250001 2002-11-01 UPPER MANNVILLE A
0213 250002 2003-02-01 UPPER MANNVILLE B
0213 250003 2003-07-01 UPPER MANNVILLE C
0213 250004 2003-08-01 UPPER MANNVILLE D

0213 300001 2011-06-01 GLAUCONITIC A
0213 300002 2001-02-01 GLAUCONITIC B
0213 300003 2001-02-01 GLAUCONITIC C
0213 300004 2003-02-01 GLAUCONITIC D

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|-----------------|
| 0213 300005 | 2001-02-01 | GLAUCONITIC E |
| 0213 300006 | 2001-02-01 | GLAUCONITIC F |
| 0213 300007 | 2001-02-01 | GLAUCONITIC G |
| 0213 300008 | 2001-02-01 | GLAUCONITIC H |
| 0213 300009 | 2001-02-01 | GLAUCONITIC I |
| 0213 300010 | 2013-03-01 | GLAUCONITIC J |
| 0213 300011 | 2001-03-01 | GLAUCONITIC K |
| 0213 300013 | 2009-03-01 | GLAUCONITIC M |
| 0213 300014 | 2009-09-01 | GLAUCONITIC N |
| | | |
| 0213 312001 | 2001-02-01 | OSTRACOD A |
| 0213 312002 | 2010-04-01 | OSTRACOD B |
| | | |
| 0213 350001 | 2001-07-01 | DETRITAL A |
| | | |
| 0213 444002 | 2001-07-01 | NORDEGG B |
| 0213 444003 | 2001-02-01 | NORDEGG C |
| 0213 444004 | 2001-02-01 | NORDEGG D |
| 0213 444005 | 2001-02-01 | NORDEGG E |
| 0213 444006 | 2010-04-01 | NORDEGG F |
| 0213 444007 | 2007-05-01 | NORDEGG G |
| | | |
| 0213 444301 | 2001-02-01 | NORDEGG-BANFF A |
| 0213 444302 | 2003-02-01 | NORDEGG-BANFF B |
| | | |
| 0213 644001 | 2010-08-01 | BANFF A |
| 0213 644003 | 2001-02-01 | BANFF C |
| 0213 644006 | 2010-04-01 | BANFF F |
| 0213 644008 | 2001-02-01 | BANFF H |
| 0213 644016 | 2001-02-01 | BANFF P |
| 0213 644017 | 2004-03-01 | BANFF Q |
| 0213 644019 | 2002-04-01 | BANFF S |
| 0213 644022 | 2009-06-01 | BANFF V |
| 0213 644023 | 2001-02-01 | BANFF W |
| 0213 644024 | 2001-02-01 | BANFF X |
| 0213 644025 | 2001-02-01 | BANFF Y |
| 0213 644026 | 2001-02-01 | BANFF Z |
| 0213 644027 | 2001-02-01 | BANFF AA |

POOL DESIGNATION (cont'd)

0213 644028 2002-10-01 BANFF BB
0213 644029 2005-02-01 BANFF CC

SPACING PATTERN

SU 2245 21 Jun 1995
SU 2245A 4 Aug 1995
SU 2245B 14 Sep 1995
SU 2245C 20 Feb 1996
SU 2245D 5 Nov 1996
SU 2245E 7 Nov 2000
SU 2245F 10 Jun 2004
SU 2245G 15 Jun 2007

COMMINGLED PRODUCTION

MU 7201 30 Jul 2009

ENHANCED RECOVERY SCHEMES

App 10472G 20 Aug 2015
Waterflood
Banff A
Journey Energy Inc.

SUBSURFACE DISPOSAL SCHEMES

App 2969E 8 Aug 2014
Class II
Long Run Exploration Ltd.

App 8819B 8 Aug 2014
Class II
Long Run Exploration Ltd.

App 9672B 9 Feb 2012
Class II
Enerplus Corporation

FIELD DESIGNATION

0221 2011-05-01 CHERPETA FIELD

POOL DESIGNATION

0221 250001 2002-06-01 UPPER MANNVILLE A
0221 250002 2002-09-01 UPPER MANNVILLE B

0221 262001 2011-05-01 GRAND RAPIDS A
0221 262002 2011-05-01 GRAND RAPIDS B
0221 262003 2001-02-01 GRAND RAPIDS C
0221 262004 2001-02-01 GRAND RAPIDS D
0221 262005 2010-04-01 GRAND RAPIDS E
0221 262006 2004-07-01 GRAND RAPIDS F
0221 262007 2011-05-01 GRAND RAPIDS G
0221 262008 2011-05-01 GRAND RAPIDS H
0221 262009 2002-07-01 GRAND RAPIDS I
0221 262010 2003-06-01 GRAND RAPIDS J
0221 262011 2002-12-01 GRAND RAPIDS K
0221 262012 2002-12-01 GRAND RAPIDS L
0221 262013 2003-01-01 GRAND RAPIDS M
0221 262014 2003-03-01 GRAND RAPIDS N
0221 262015 2010-10-01 GRAND RAPIDS O
0221 262016 2010-04-01 GRAND RAPIDS P
0221 262017 2003-08-01 GRAND RAPIDS Q
0221 262018 2003-08-01 GRAND RAPIDS R
0221 262019 2010-04-01 GRAND RAPIDS S
0221 262021 2004-02-01 GRAND RAPIDS U
0221 262024 2010-09-01 GRAND RAPIDS X
0221 262025 2004-09-01 GRAND RAPIDS Y
0221 262026 2005-03-01 GRAND RAPIDS Z
0221 262027 2010-04-01 GRAND RAPIDS AA
0221 262028 2005-03-01 GRAND RAPIDS BB
0221 262029 2005-11-01 GRAND RAPIDS CC
0221 262030 2005-12-01 GRAND RAPIDS DD
0221 262031 2006-03-01 GRAND RAPIDS EE
0221 262032 2006-04-01 GRAND RAPIDS FF

POOL DESIGNATION (cont'd)

0221 262033 2008-01-01 GRAND RAPIDS GG
0221 262034 2009-01-01 GRAND RAPIDS HH
0221 262035 2010-10-01 GRAND RAPIDS II
0221 262036 2010-10-01 GRAND RAPIDS JJ
0221 262037 2011-06-01 GRAND RAPIDS KK

0221 280002 2010-04-01 CLEARWATER B
0221 280004 2001-02-01 CLEARWATER D
0221 280005 2010-04-01 CLEARWATER E
0221 280006 2001-02-01 CLEARWATER F
0221 280007 2001-02-01 CLEARWATER G

0221 306001 2001-02-01 WABISKAW A

0221 328001 2001-02-01 MCMURRAY A
0221 328002 2012-07-01 MCMURRAY B
0221 328003 2010-09-01 MCMURRAY C
0221 328004 2001-03-01 MCMURRAY D
0221 328005 2002-09-01 MCMURRAY E
0221 328006 2004-05-01 MCMURRAY F
0221 328008 2010-10-01 MCMURRAY H

0221 658001 2010-05-01 WABAMUN A

0221 696001 2010-04-01 NISKU A
0221 696003 2001-02-01 NISKU C
0221 696004 2003-03-01 NISKU D
0221 696005 2004-03-01 NISKU E
0221 696006 2006-04-01 NISKU F
0221 696007 2006-09-01 NISKU G
0221 696008 2011-05-01 NISKU H

COMMINGLED PRODUCTION

MU 8015 24 Aug 2011

FIELD DESIGNATION

1024 2010-09-01 CHERRY FIELD

POOL DESIGNATION

1024 186003 2010-04-01 SECOND WHITE SPECKS C

1024 213001 2003-01-01 BOW ISLAND A

1024 300001 2001-02-01 GLAUCONITIC A

1024 854100 2013-11-01 MFP8541 2WS

SPACING PATTERN

SU 3055 18 Oct 2001

SU 3055A 18 May 2006

FIELD DESIGNATION

0235 2018-03-01 CHICKADEE FIELD

POOL DESIGNATION

0235 106001 2001-02-01 EDMONTON A

0235 126001 2009-07-01 BELLY RIVER A

0235 250001 2001-06-01 UPPER MANNVILLE A
0235 250003 2002-05-01 UPPER MANNVILLE C
0235 250004 2004-07-01 UPPER MANNVILLE D
0235 250005 2010-04-01 UPPER MANNVILLE E
0235 250006 2005-12-01 UPPER MANNVILLE F
0235 250007 2010-04-01 UPPER MANNVILLE G
0235 250008 2008-06-01 UPPER MANNVILLE H
0235 250009 2009-05-01 UPPER MANNVILLE I
0235 250010 2011-11-01 UPPER MANNVILLE J
0235 250011 2011-12-01 UPPER MANNVILLE K
0235 250012 2011-12-01 UPPER MANNVILLE L
0235 250013 2011-12-01 UPPER MANNVILLE M
0235 250014 2013-09-01 UPPER MANNVILLE N

0235 304001 2008-11-01 BLUESKY A
0235 304002 2011-12-01 BLUESKY B
0235 304003 2011-12-01 BLUESKY C
0235 304004 2011-12-01 BLUESKY D

0235 326015 2005-10-01 GETHING O

0235 432001 2006-01-01 ROCK CREEK A

0235 680001 2001-02-01 BLUERIDGE A

0235 728001 2017-07-01 DUVERNAY A

0235 851700 2015-05-01 MFP8517 GETHING

SPACING PATTERN

SU 4033 28 Nov 2002
SU 4033A 22 Jan 2003
SU 4033B 2 May 2003
SU 4033C 22 Dec 2003
SU 4033D 16 Jun 2004
SU 4033E 17 Feb 2005
SU 4033F 16 Apr 2005
SU 4033G 19 Aug 2005
SU 4033H 18 Nov 2005
SU 4033I 8 Feb 2006
SU 4033J 27 Mar 2007
SU 4033K 26 Sep 2007
SU 4033L 9 Oct 2007

COMMINGLED PRODUCTION

MU 8282 9 Jan 2012

COMPULSORY POOLING

P 431 10 Oct 2012
Gas
33-060-17W5
Celtic Exploration Ltd.

FIELD DESIGNATION

0214 2018-05-01 CHIGWELL FIELD

POOL DESIGNATION

0214 106001 2001-02-01 EDMONTON A
0214 106002 2007-02-01 EDMONTON B

0214 118801 2008-01-01 LOWER EDMONTON A
0214 118802 2008-01-01 LOWER EDMONTON B
0214 118803 2009-07-01 LOWER EDMONTON C
0214 118805 2008-11-01 LOWER EDMONTON E
0214 118806 2012-04-01 LOWER EDMONTON F
0214 118808 2009-01-01 LOWER EDMONTON H
0214 118809 2009-11-01 LOWER EDMONTON I
0214 118810 2009-11-01 LOWER EDMONTON J
0214 118811 2009-11-01 LOWER EDMONTON K
0214 118812 2010-04-01 LOWER EDMONTON L
0214 118813 2013-04-01 LOWER EDMONTON M

0214 126002 2010-01-01 BELLY RIVER B
0214 126004 2013-02-01 BELLY RIVER D
0214 126008 2014-12-01 BELLY RIVER H
0214 126009 2001-02-01 BELLY RIVER I
0214 126014 2010-04-01 BELLY RIVER N
0214 126015 2003-07-01 BELLY RIVER O
0214 126016 2007-11-01 BELLY RIVER P
0214 126019 2004-02-01 BELLY RIVER S
0214 126022 2005-09-01 BELLY RIVER V
0214 126023 2005-09-01 BELLY RIVER W
0214 126026 2007-12-01 BELLY RIVER Z
0214 126028 2007-12-01 BELLY RIVER BB
0214 126029 2011-02-01 BELLY RIVER CC
0214 126033 2012-04-01 BELLY RIVER GG
0214 126036 2009-01-01 BELLY RIVER JJ
0214 126038 2010-04-01 BELLY RIVER LL
0214 126039 2009-11-01 BELLY RIVER MM

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0214 126042 2009-11-01 | BELLY RIVER PP |
| 0214 126043 2010-02-01 | BELLY RIVER QQ |
| 0214 126044 2014-01-01 | BELLY RIVER RR |
| 0214 126045 2013-06-01 | BELLY RIVER SS |
| 0214 126046 2015-01-01 | BELLY RIVER TT |
| | |
| 0214 134001 2005-06-01 | BASAL BELLY RIVER A |
| 0214 134002 2010-09-01 | BASAL BELLY RIVER B |
| 0214 134003 2005-06-01 | BASAL BELLY RIVER C |
| 0214 134004 2005-06-01 | BASAL BELLY RIVER D |
| 0214 134006 2009-10-01 | BASAL BELLY RIVER F |
| 0214 134007 2010-04-01 | BASAL BELLY RIVER G |
| | |
| 0214 218002 2010-04-01 | VIKING B |
| 0214 218005 2010-04-01 | VIKING E |
| 0214 218007 2012-03-01 | VIKING G |
| 0214 218008 2003-09-01 | VIKING H |
| 0214 218009 2015-05-01 | VIKING I |
| 0214 218010 2015-09-01 | VIKING J |
| 0214 218011 2013-05-01 | VIKING K |
| | |
| 0214 248001 2001-02-01 | MANNVILLE A |
| 0214 248002 2013-10-01 | MANNVILLE B |
| 0214 248003 2001-02-01 | MANNVILLE C |
| 0214 248005 2010-04-01 | MANNVILLE E |
| 0214 248007 2001-02-01 | MANNVILLE G |
| 0214 248008 2001-02-01 | MANNVILLE H |
| 0214 248010 2001-02-01 | MANNVILLE J |
| 0214 248011 2001-02-01 | MANNVILLE K |
| 0214 248012 2003-06-01 | MANNVILLE L |
| 0214 248013 2001-02-01 | MANNVILLE M |
| 0214 248014 2001-02-01 | MANNVILLE N |
| 0214 248015 2001-02-01 | MANNVILLE O |
| 0214 248016 2001-02-01 | MANNVILLE P |
| 0214 248017 2001-02-01 | MANNVILLE Q |
| 0214 248018 2001-05-01 | MANNVILLE R |
| 0214 248019 2001-02-01 | MANNVILLE S |
| 0214 248020 2001-02-01 | MANNVILLE T |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|---------------|
| 0214 248021 | 2001-02-01 | MANNVILLE U |
| 0214 248022 | 2001-02-01 | MANNVILLE V |
| 0214 248023 | 2001-02-01 | MANNVILLE W |
| 0214 248024 | 2001-02-01 | MANNVILLE X |
| 0214 248025 | 2010-04-01 | MANNVILLE Y |
| 0214 248027 | 2001-02-01 | MANNVILLE AA |
| 0214 248028 | 2001-02-01 | MANNVILLE BB |
| 0214 248029 | 2001-02-01 | MANNVILLE CC |
| 0214 248030 | 2001-02-01 | MANNVILLE DD |
| 0214 248031 | 2001-02-01 | MANNVILLE EE |
| 0214 248032 | 2001-02-01 | MANNVILLE FF |
| 0214 248033 | 2001-02-01 | MANNVILLE GG |
| 0214 248034 | 2001-02-01 | MANNVILLE HH |
| 0214 248035 | 2001-02-01 | MANNVILLE II |
| 0214 248036 | 2001-07-01 | MANNVILLE JJ |
| 0214 248037 | 2001-11-01 | MANNVILLE KK |
| 0214 248038 | 2001-12-01 | MANNVILLE LL |
| 0214 248039 | 2002-06-01 | MANNVILLE MM |
| 0214 248040 | 2002-08-01 | MANNVILLE NN |
| 0214 248041 | 2013-03-01 | MANNVILLE OO |
| 0214 248042 | 2003-05-01 | MANNVILLE PP |
| 0214 248043 | 2003-09-01 | MANNVILLE QQ |
| 0214 248044 | 2004-05-01 | MANNVILLE RR |
| 0214 248045 | 2004-09-01 | MANNVILLE SS |
| 0214 248046 | 2012-04-01 | MANNVILLE TT |
| 0214 248047 | 2005-05-01 | MANNVILLE UU |
| 0214 248048 | 2005-06-01 | MANNVILLE VV |
| 0214 248049 | 2010-04-01 | MANNVILLE WW |
| 0214 248050 | 2010-04-01 | MANNVILLE XX |
| 0214 248051 | 2005-10-01 | MANNVILLE YY |
| 0214 248052 | 2005-11-01 | MANNVILLE ZZ |
| 0214 248101 | 2006-03-01 | MANNVILLE AAA |
| 0214 248102 | 2006-09-01 | MANNVILLE BBB |
| 0214 248103 | 2006-09-01 | MANNVILLE CCC |
| 0214 248104 | 2006-09-01 | MANNVILLE DDD |
| 0214 248105 | 2012-04-01 | MANNVILLE EEE |
| 0214 248106 | 2010-04-01 | MANNVILLE FFF |
| 0214 248107 | 2007-07-01 | MANNVILLE GGG |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0214 248108 2007-07-01 | MANNVILLE HHH |
| 0214 248109 2007-07-01 | MANNVILLE III |
| 0214 248110 2007-08-01 | MANNVILLE JJJ |
| 0214 248111 2010-04-01 | MANNVILLE KKK |
| 0214 248112 2008-10-01 | MANNVILLE LLL |
| 0214 248113 2008-10-01 | MANNVILLE MMM |
| 0214 248114 2008-11-01 | MANNVILLE NNN |
| 0214 248115 2009-07-01 | MANNVILLE OOO |
| 0214 248116 2013-05-01 | MANNVILLE PPP |
| | |
| 0214 250001 2010-04-01 | UPPER MANNVILLE A |
| 0214 250002 2001-02-01 | UPPER MANNVILLE B |
| 0214 250003 2001-02-01 | UPPER MANNVILLE C |
| 0214 250004 2004-04-01 | UPPER MANNVILLE D |
| 0214 250005 2004-04-01 | UPPER MANNVILLE E |
| 0214 250006 2004-04-01 | UPPER MANNVILLE F |
| 0214 250007 2004-04-01 | UPPER MANNVILLE G |
| 0214 250008 2003-12-01 | UPPER MANNVILLE H |
| 0214 250009 2004-06-01 | UPPER MANNVILLE I |
| 0214 250010 2004-11-01 | UPPER MANNVILLE J |
| 0214 250011 2005-07-01 | UPPER MANNVILLE K |
| 0214 250012 2005-08-01 | UPPER MANNVILLE L |
| 0214 250013 2005-09-01 | UPPER MANNVILLE M |
| 0214 250014 2010-04-01 | UPPER MANNVILLE N |
| 0214 250015 2005-09-01 | UPPER MANNVILLE O |
| 0214 250016 2010-04-01 | UPPER MANNVILLE P |
| 0214 250017 2008-05-01 | UPPER MANNVILLE Q |
| 0214 250018 2009-07-01 | UPPER MANNVILLE R |
| | |
| 0214 300001 2010-04-01 | GLAUCONITIC A |
| 0214 300002 2001-02-01 | GLAUCONITIC B |
| 0214 300003 2001-02-01 | GLAUCONITIC C |
| 0214 300004 2001-02-01 | GLAUCONITIC D |
| 0214 300005 2001-02-01 | GLAUCONITIC E |
| 0214 300006 2001-08-01 | GLAUCONITIC F |
| 0214 300007 2005-09-01 | GLAUCONITIC G |
| 0214 300008 2005-09-01 | GLAUCONITIC H |
| 0214 300009 2005-09-01 | GLAUCONITIC I |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0214 300010 2009-02-01 | GLAUCONITIC J |
| 0214 336001 2009-08-01 | ELLERSLIE A |
| 0214 336002 2010-04-01 | ELLERSLIE B |
| 0214 658001 2006-10-01 | D-1 A |
| 0214 658002 2009-02-01 | D-1 B |
| 0214 696001 2010-04-01 | D-2 A |
| 0214 696002 2010-04-01 | D-2 B |
| 0214 696003 2010-04-01 | D-2 C |
| 0214 720001 2010-04-01 | D-3 A |
| 0214 720002 2001-02-01 | D-3 B |
| 0214 720003 2001-02-01 | D-3 C |
| 0214 720005 2001-02-01 | D-3 E |
| 0214 720006 2001-02-01 | D-3 F |
| 0214 720007 2010-04-01 | D-3 G |
| 0214 720008 2013-05-01 | D-3 H |
| 0214 728001 2018-05-01 | DUVERNAY A |
| 0214 850900 2010-04-01 | MFP8509 BELLY RIVER |

SPACING PATTERN

| | |
|----------|-------------|
| SU 4195 | 10 Jun 2004 |
| SU 4195A | 17 Sep 2004 |
| SU 4195B | 18 Nov 2004 |
| SU 4195C | 11 Feb 2005 |
| SU 4195E | 29 Jun 2005 |
| SU 4195F | 18 Aug 2005 |
| SU 4195G | 31 Aug 2005 |
| SU 4195H | 2 Nov 2005 |
| SU 4195I | 13 Jan 2006 |

MISCELLANEOUS ORDERS

MISC 7007 1 May 1970
Batteries comply with sec. 604 of regs.

COMMINGLED PRODUCTION

MU 8259 6 Dec 2011

ENHANCED RECOVERY SCHEMES

App 2727K 22 Jun 2017
 Waterflood
 Viking B
 Sequoia Operating Corp.

App 10392M 22 Jun 2017
 Miscible - CO2
 Viking I
 Sequoia Operating Corp.

App 10865L 22 Jun 2017
 Miscible - CO2
 Viking E
 Sequoia Operating Corp.

App 12157D 17 Apr 2017
 Waterflood
 Chigwell Belly River RR
 Gear Energy Ltd.

SUBSURFACE DISPOSAL SCHEMES

App 8308A 12 Aug 2014
 Class II
 Muddy Petroleum Company Ltd.

App 9578D 29 Apr 2015
 Class II
 Tourmaline Oil Corp.

COMPULSORY POOLING

P 355 29 Apr 2008
 Gas
 31-042-25W4
 Emerald Bay Energy Inc.

COMPULSORY POOLING (cont'd)

P 394 12 May 2009
 Gas
 07-042-26W4
 Just Freehold Energy Corp. or Emerald Bay Energy Inc.

P 407 19 Feb 2010
 P 407A 5 Jul 2016
 Gas
 33-042-25W4

Quicksilver Resources Canada Inc.

P 413 10 Jun 2010
 Gas
 33-040-25W4

Quicksilver Resources Canada Inc.

FIELD DESIGNATION

0238 2009-09-01 CHIGWELL NORTH FIELD

POOL DESIGNATION

0238 118801 2009-10-01 LOWER EDMONTON A

0238 118802 2009-11-01 LOWER EDMONTON B

0238 134001 2010-04-01 BASAL BELLY RIVER A

0238 134002 2005-06-01 BASAL BELLY RIVER B

0238 250001 2009-04-01 UPPER MANNVILLE A

0238 300001 2001-03-01 GLAUCONITIC A

0238 336001 2001-02-01 ELLERSLIE A

0238 336002 2001-02-01 ELLERSLIE B

0238 336003 2001-02-01 ELLERSLIE C

0238 336004 2008-10-01 ELLERSLIE D

0238 720001 2001-02-01 D-3 A

0238 720002 2001-02-01 D-3 B

0238 720003 2001-02-01 D-3 C

0238 720004 2013-09-01 D-3 D

0238 850900 2014-01-01 MFP8509 BELLY RIVER

SPACING PATTERN

SU 4014 13 Jun 2002

SU 4014A 7 Sep 2004

SU 4014B 17 Sep 2004

SU 4014C 26 Mar 2005

SU 4014D 31 Aug 2005

SU 4014E 20 Sep 2005

COMPULSORY POOLING

P 452 20 Jun 2014

P 452A 27 Jun 2016

Gas

21-042-24W4M

Quicksilver Resources Canada Inc.

COMMINGLED PRODUCTION

MU 7818 2 Jun 2011

FIELD DESIGNATION

1026 2015-02-01 CHIME FIELD

POOL DESIGNATION

1026 176003 2012-01-01 CARDIUM C

1026 176007 2008-11-01 CARDIUM G

1026 186001 2010-04-01 SECOND WHITE SPECKS A

1026 192003 2005-09-01 DUNVEGAN C

1026 192004 2010-04-01 DUNVEGAN D

1026 192014 2010-04-01 DUNVEGAN N

1026 232013 2009-12-01 CADOTTE M

1026 271503 2007-11-01 FALHER C

1026 271505 2010-04-01 FALHER E

1026 326001 2001-02-01 GETHING A

1026 326002 2004-08-01 GETHING B

1026 326003 2010-04-01 GETHING C

1026 326004 2010-04-01 GETHING D

1026 326017 2009-11-01 GETHING Q

1026 408003 2009-12-01 NIKANASSIN C

1026 524001 2015-07-01 MONTNEY A

SPACING PATTERN

SU 4290 14 Mar 2005

SU 4290A 4 Apr 2006

SU 4290B 16 Aug 2006

SU 4290C 5 Sep 2006

SU 4290D 11 Apr 2007

SU 4290E 17 Oct 2007

COMMINGLED PRODUCTION

MU 7324 29 Sep 2009

FIELD DESIGNATION

0217 2010-12-01 CHIN COULEE FIELD

POOL DESIGNATION

0217 213001 2010-04-01 BOW ISLAND A
0217 213002 2013-09-01 BOW ISLAND B

0217 300001 2001-02-01 GLAUCONITIC A
0217 300002 2001-07-01 GLAUCONITIC B
0217 300003 2012-11-01 GLAUCONITIC C
0217 300004 2001-02-01 GLAUCONITIC D

0217 320001 2010-04-01 BASAL MANNVILLE A
0217 320002 2001-02-01 BASAL MANNVILLE B
0217 320003 2001-02-01 BASAL MANNVILLE C
0217 320004 2009-02-01 BASAL MANNVILLE D
0217 320005 2009-04-01 BASAL MANNVILLE E
0217 320006 2011-06-01 BASAL MANNVILLE F

0217 428001 2001-02-01 SAWTOOTH A
0217 428002 2010-04-01 SAWTOOTH B
0217 428003 2001-05-01 SAWTOOTH C
0217 428004 2001-03-01 SAWTOOTH D
0217 428005 2001-02-01 SAWTOOTH E
0217 428006 2009-02-01 SAWTOOTH F
0217 428007 2009-07-01 SAWTOOTH G
0217 428008 2010-12-01 SAWTOOTH H

SPACING PATTERN

SU 3094 8 Mar 2002
SU 3094A 2 Sep 2003
SU 3094B 2 Jun 2005

**EXEMPTION FROM GAS
MEASUREMENT**

GE 29 17 Apr 1984
Basal Mannville A
Applies to waterflood area only
Koch Exploration Canada Ltd.

COMMINGLED PRODUCTION

MU 8294 17 Jan 2012

ENHANCED RECOVERY SCHEMES

App 7685G 24 May 2016
Waterflood
Basal Mannville A
935821 Alberta Ltd.

App 9448D 10 Jun 2015
Waterflood
Sawtooth B
Harvest Operations Corp

App 10978D 13 Sep 2016
Waterflood
Glaucconitic C and Basal Mannville A
Canadian Natural Resources Limited

App 11508A 7 Oct 2014
Waterflood
Sawtooth B
Canadian Natural Resources Limited

SUBSURFACE DISPOSAL SCHEMES

App 8343A 3 Jul 2012
Class II
Canadian Natural Resources Limited

App 10706A 3 Oct 2016
Class II
Little Rock Resources Ltd.

App 11417B 30 Sep 2011
Class II
Standard Exploration Ltd.

FIELD DESIGNATION

0220 2015-06-01 CHINCHAGA FIELD

POOL DESIGNATION

0220 228001 2009-08-01 PEACE RIVER A

0220 304001 2003-10-01 BLUESKY A
0220 304002 2004-12-01 BLUESKY B
0220 304003 2010-04-01 BLUESKY C
0220 304004 2011-03-01 BLUESKY D
0220 304006 2011-06-01 BLUESKY F
0220 304007 2015-06-01 BLUESKY G
0220 304008 2015-06-01 BLUESKY H
0220 304009 2015-06-01 BLUESKY I

0220 304401 2010-04-01 BLSK-GETH-MONT A
0220 304402 2001-11-01 BLSK-GETH-MONT B
0220 304403 2001-11-01 BLSK-GETH-MONT C
0220 304404 2003-02-01 BLSK-GETH-MONT D
0220 304405 2005-06-01 BLSK-GETH-MONT E

0220 326001 2008-11-01 GETHING A
0220 326002 2009-02-01 GETHING B

0220 612501 2015-06-01 DEBOLT-DETRITAL A
0220 612502 2015-06-01 DEBOLT-DETRITAL B

0220 758001 2010-04-01 SLAVE POINT A
0220 758002 2001-02-01 SLAVE POINT B
0220 758003 2001-02-01 SLAVE POINT C
0220 758004 2001-08-01 SLAVE POINT D
0220 758006 2001-02-01 SLAVE POINT F
0220 758007 2001-02-01 SLAVE POINT G
0220 758008 2010-04-01 SLAVE POINT H
0220 758009 2001-02-01 SLAVE POINT I
0220 758010 2010-04-01 SLAVE POINT J

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|----------------|
| 0220 758013 | 2001-04-01 | SLAVE POINT M |
| 0220 758014 | 2005-01-01 | SLAVE POINT N |
| 0220 758015 | 2001-03-01 | SLAVE POINT O |
| 0220 758016 | 2005-04-01 | SLAVE POINT P |
| 0220 758017 | 2010-04-01 | SLAVE POINT Q |
| 0220 758018 | 2001-10-01 | SLAVE POINT R |
| 0220 758019 | 2003-04-01 | SLAVE POINT S |
| 0220 758020 | 2004-02-01 | SLAVE POINT T |
| 0220 758021 | 2004-03-01 | SLAVE POINT U |
| 0220 758022 | 2003-12-01 | SLAVE POINT V |
| 0220 758023 | 2004-12-01 | SLAVE POINT W |
| 0220 758024 | 2005-03-01 | SLAVE POINT X |
| 0220 758025 | 2005-04-01 | SLAVE POINT Y |
| 0220 758026 | 2004-11-01 | SLAVE POINT Z |
| 0220 758027 | 2004-11-01 | SLAVE POINT AA |
| 0220 758028 | 2005-01-01 | SLAVE POINT BB |
| 0220 758029 | 2005-04-01 | SLAVE POINT CC |
| 0220 758030 | 2005-09-01 | SLAVE POINT DD |
| 0220 758031 | 2006-03-01 | SLAVE POINT EE |
| 0220 758032 | 2005-11-01 | SLAVE POINT FF |
| 0220 758033 | 2011-06-01 | SLAVE POINT GG |
| 0220 758034 | 2007-04-01 | SLAVE POINT HH |
| 0220 758038 | 2007-07-01 | SLAVE POINT LL |
| 0220 758039 | 2007-07-01 | SLAVE POINT MM |
| 0220 758040 | 2007-07-01 | SLAVE POINT NN |
| 0220 758041 | 2009-03-01 | SLAVE POINT OO |
| 0220 758042 | 2009-02-01 | SLAVE POINT PP |
| 0220 758043 | 2013-05-01 | SLAVE POINT QQ |
| 0220 758044 | 2015-06-01 | SLAVE POINT RR |
| 0220 758045 | 2015-06-01 | SLAVE POINT SS |
| 0220 765501 | 2008-06-01 | GILWOOD A |
| 0220 765502 | 2008-06-01 | GILWOOD B |
| 0220 765503 | 2009-05-01 | GILWOOD C |

SPACING PATTERN

SU 2406 16 Nov 1995

SU 2406A 5 Jan 2000

SU 2406B 11 Dec 2006

ENHANCED RECOVERY SCHEMES

App 10772G 23 Feb 2015

Waterflood

Slave Point GG

Canadian Natural Resources Limited

SUBSURFACE DISPOSAL SCHEMES

App 8448C 18 Sep 2015

Class II

Canadian Natural Resources Limited

FIELD DESIGNATION

0218 2012-07-01 CHINOOK FIELD

POOL DESIGNATION

0218 126001 2010-04-01 BELLY RIVER A
0218 126002 2001-02-01 BELLY RIVER B
0218 126003 2001-02-01 BELLY RIVER C
0218 126005 2001-02-01 BELLY RIVER E
0218 126007 2001-02-01 BELLY RIVER G
0218 126008 2001-02-01 BELLY RIVER H
0218 126009 2001-02-01 BELLY RIVER I
0218 126011 2001-02-01 BELLY RIVER K
0218 126012 2001-02-01 BELLY RIVER L
0218 126013 2016-06-01 BELLY RIVER M
0218 126015 2001-02-01 BELLY RIVER O
0218 126016 2001-02-01 BELLY RIVER P
0218 126017 2001-02-01 BELLY RIVER Q
0218 126018 2004-07-01 BELLY RIVER R
0218 126019 2006-02-01 BELLY RIVER S
0218 126020 2007-05-01 BELLY RIVER T
0218 126021 2012-06-01 BELLY RIVER U
0218 126022 2015-02-01 BELLY RIVER V

0218 134001 2005-06-01 BASAL BELLY RIVER A
0218 134002 2005-06-01 BASAL BELLY RIVER B
0218 134003 2010-04-01 BASAL BELLY RIVER C
0218 134004 2010-12-01 BASAL BELLY RIVER D
0218 134005 2009-03-01 BASAL BELLY RIVER E
0218 134006 2009-03-01 BASAL BELLY RIVER F
0218 134007 2009-04-01 BASAL BELLY RIVER G

0218 160001 2008-11-01 COLORADO A
0218 160002 2010-04-01 COLORADO B

0218 164001 2008-11-01 MEDICINE HAT A
0218 164002 2011-01-01 MEDICINE HAT B

POOL DESIGNATION (cont'd)

| | |
|------------------------|-----------------------|
| 0218 164003 2011-12-01 | MEDICINE HAT C |
| 0218 186001 2009-03-01 | SECOND WHITE SPECKS A |
| 0218 186002 2010-03-01 | SECOND WHITE SPECKS B |
| 0218 186004 2010-12-01 | SECOND WHITE SPECKS D |
| 0218 186005 2011-02-01 | SECOND WHITE SPECKS E |
| 0218 186006 2011-04-01 | SECOND WHITE SPECKS F |
| 0218 186007 2011-08-01 | SECOND WHITE SPECKS G |
| 0218 202001 2008-05-01 | FISH SCALE A |
| 0218 202002 2014-05-01 | FISH SCALE B |
| 0218 202003 2009-12-01 | FISH SCALE C |
| 0218 202004 2008-05-01 | FISH SCALE D |
| 0218 202005 2009-11-01 | FISH SCALE E |
| 0218 218001 2001-02-01 | VIKING A |
| 0218 218002 2001-02-01 | VIKING B |
| 0218 218003 2002-06-01 | VIKING C |
| 0218 218005 2005-07-01 | VIKING E |
| 0218 218006 2010-04-01 | VIKING F |
| 0218 218007 2005-07-01 | VIKING G |
| 0218 218008 2006-02-01 | VIKING H |
| 0218 218009 2009-10-01 | VIKING I |
| 0218 218010 2009-10-01 | VIKING J |
| 0218 218011 2010-08-01 | VIKING K |
| 0218 242001 2011-03-01 | BASAL COLORADO A |
| 0218 250001 2001-02-01 | UPPER MANNVILLE A |
| 0218 250002 2010-04-01 | UPPER MANNVILLE B |
| 0218 250003 2001-02-01 | UPPER MANNVILLE C |
| 0218 250004 2009-11-01 | UPPER MANNVILLE D |
| 0218 250005 2001-02-01 | UPPER MANNVILLE E |
| 0218 250006 2001-02-01 | UPPER MANNVILLE F |
| 0218 250007 2001-02-01 | UPPER MANNVILLE G |
| 0218 250008 2006-11-01 | UPPER MANNVILLE H |
| 0218 250009 2011-06-01 | UPPER MANNVILLE I |
| 0218 250010 2005-08-01 | UPPER MANNVILLE J |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|--------------------|
| 0218 250011 | 2005-10-01 | UPPER MANNVILLE K |
| 0218 250012 | 2006-01-01 | UPPER MANNVILLE L |
| 0218 250013 | 2010-02-01 | UPPER MANNVILLE M |
| 0218 250014 | 2010-04-01 | UPPER MANNVILLE N |
| 0218 250015 | 2008-11-01 | UPPER MANNVILLE O |
| 0218 250017 | 2009-03-01 | UPPER MANNVILLE Q |
| 0218 250018 | 2010-04-01 | UPPER MANNVILLE R |
| 0218 250019 | 2010-04-01 | UPPER MANNVILLE S |
| 0218 250020 | 2009-11-01 | UPPER MANNVILLE T |
| | | |
| 0218 310001 | 2010-04-01 | LOWER MANNVILLE A |
| 0218 310002 | 2010-04-01 | LOWER MANNVILLE B |
| 0218 310003 | 2007-05-01 | LOWER MANNVILLE C |
| 0218 310004 | 2007-05-01 | LOWER MANNVILLE D |
| 0218 310005 | 2009-10-01 | LOWER MANNVILLE E |
| | | |
| 0218 644001 | 2010-06-01 | BANFF A |
| | | |
| 0218 853600 | 2012-07-01 | MFP8536 MILK RIVER |

SPACING PATTERN

| | |
|----------|-------------|
| SU 4315 | 16 Nov 2006 |
| SU 4315A | 21 Mar 2007 |
| SU 4315B | 5 Oct 2007 |

COMMINGLED PRODUCTION

| | |
|---------|-------------|
| MU 5212 | 31 Jan 2006 |
|---------|-------------|

FIELD DESIGNATION

1029 2012-12-01 CHINOOK RIDGE FIELD

POOL DESIGNATION

1029 230002 2010-04-01 PADDY B

1029 230003 2011-07-01 PADDY C

1029 232001 2003-11-01 CADOTTE A

1029 232005 2009-06-01 CADOTTE E

1029 232006 2011-11-01 CADOTTE F

1029 232010 2011-10-01 CADOTTE J

1029 232011 2011-03-01 CADOTTE K

1029 264002 2012-10-01 SPIRIT RIVER B

1029 266001 2010-04-01 NOTIKEWIN A

1029 266003 2011-11-01 NOTIKEWIN C

1029 271502 2009-02-01 FALHER B

1029 271503 2011-03-01 FALHER C

1029 271506 2008-11-01 FALHER F

1029 271509 2011-09-01 FALHER I

1029 271511 2013-09-01 FALHER K

1029 271512 2013-12-01 FALHER L

1029 326002 2012-10-01 GETHING B

1029 326004 2011-10-01 GETHING D

1029 326007 2011-05-01 GETHING G

1029 326008 2011-12-01 GETHING H

1029 348001 2012-10-01 CADOMIN A

1029 348009 2010-04-01 CADOMIN I

1029 348010 2011-11-01 CADOMIN J

1029 348023 2009-06-01 CADOMIN W

1029 348025 2010-07-01 CADOMIN Y

1029 348026 2011-03-01 CADOMIN Z

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|---------------|
| 1029 348028 | 2011-03-01 | CADOMIN BB |
| 1029 408001 | 2013-03-01 | NIKANASSIN A |
| 1029 408033 | 2010-04-01 | NIKANASSIN GG |
| 1029 408034 | 2010-07-01 | NIKANASSIN HH |
| 1029 408035 | 2011-03-01 | NIKANASSIN II |

SPACING PATTERN

| | |
|----------|-------------|
| SU 4285 | 12 Apr 2005 |
| SU 4285A | 13 Oct 2006 |
| SU 4285B | 7 Dec 2006 |

COMMINGLED PRODUCTION

| | |
|---------|-------------|
| MU 7466 | 15 Jun 2010 |
|---------|-------------|

FIELD DESIGNATION

0216 2009-08-01 CHISHOLM FIELD

POOL DESIGNATION

0216 250001 2003-03-01 UPPER MANNVILLE A
0216 250002 2005-07-01 UPPER MANNVILLE B
0216 250003 2001-02-01 UPPER MANNVILLE C
0216 250005 2001-02-01 UPPER MANNVILLE E
0216 250007 2001-02-01 UPPER MANNVILLE G
0216 250009 2010-04-01 UPPER MANNVILLE I
0216 250010 2010-04-01 UPPER MANNVILLE J
0216 250011 2001-02-01 UPPER MANNVILLE K
0216 250012 2005-07-01 UPPER MANNVILLE L
0216 250013 2001-02-01 UPPER MANNVILLE M
0216 250014 2004-07-01 UPPER MANNVILLE N
0216 250015 2001-02-01 UPPER MANNVILLE O
0216 250016 2010-04-01 UPPER MANNVILLE P
0216 250017 2001-02-01 UPPER MANNVILLE Q
0216 250018 2003-12-01 UPPER MANNVILLE R
0216 250019 2003-01-01 UPPER MANNVILLE S
0216 250020 2004-03-01 UPPER MANNVILLE T
0216 250021 2005-09-01 UPPER MANNVILLE U
0216 250022 2006-02-01 UPPER MANNVILLE V
0216 250023 2006-03-01 UPPER MANNVILLE W

0216 262001 2001-02-01 GRAND RAPIDS A
0216 262002 2003-11-01 GRAND RAPIDS B
0216 262003 2003-12-01 GRAND RAPIDS C

0216 280001 2003-08-01 CLEARWATER A

0216 300001 2001-02-01 GLAUCONITIC A
0216 300003 2001-02-01 GLAUCONITIC C
0216 300004 2001-02-01 GLAUCONITIC D
0216 300005 2005-12-01 GLAUCONITIC E
0216 300006 2004-08-01 GLAUCONITIC F

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|-------------------|
| 0216 310001 | 2010-04-01 | LOWER MANNVILLE A |
| 0216 310002 | 2007-02-01 | LOWER MANNVILLE B |
| 0216 310003 | 2001-02-01 | LOWER MANNVILLE C |
| 0216 310004 | 2001-02-01 | LOWER MANNVILLE D |
| 0216 310005 | 2001-02-01 | LOWER MANNVILLE E |
| 0216 310006 | 2002-02-01 | LOWER MANNVILLE F |
| 0216 310007 | 2009-08-01 | LOWER MANNVILLE G |
| 0216 310008 | 2006-02-01 | LOWER MANNVILLE H |
| 0216 310009 | 2006-02-01 | LOWER MANNVILLE I |
| 0216 310010 | 2007-01-01 | LOWER MANNVILLE J |

SPACING PATTERN

SU 2610 22 Feb 1996

COMMINGLED PRODUCTION

MU 5319 7 Mar 2006

SUBSURFACE DISPOSAL SCHEMES

App 8749B 2 Jun 2011
Class II
Canadian Natural Resources Limited

App 11204 10 Feb 2009
Class II
Kor Energy Inc.

FIELD DESIGNATION

0236 2007-12-01 CINDY FIELD

POOL DESIGNATION

0236 230001 2007-12-01 PADDY A
0236 230002 2009-12-01 PADDY B

0236 264001 2009-12-01 SPIRIT RIVER A
0236 264002 2013-09-01 SPIRIT RIVER B

0236 304001 2001-02-01 BLUESKY A
0236 304002 2001-02-01 BLUESKY B

0236 326001 2009-04-01 GETHING A

0236 524001 2007-10-01 MONTNEY A
0236 524002 2002-10-01 MONTNEY B
0236 524003 2003-10-01 MONTNEY C
0236 524004 2004-07-01 MONTNEY D

0236 612001 2010-04-01 DEBOLT A
0236 612002 2002-05-01 DEBOLT B
0236 612004 2002-05-01 DEBOLT D
0236 612005 2006-04-01 DEBOLT E
0236 612006 2010-04-01 DEBOLT F
0236 612007 2010-04-01 DEBOLT G
0236 612008 2010-04-01 DEBOLT H
0236 612009 2007-07-01 DEBOLT I
0236 612010 2007-07-01 DEBOLT J
0236 612011 2008-12-01 DEBOLT K
0236 612012 2009-07-01 DEBOLT L
0236 612013 2016-01-01 DEBOLT M

0236 644001 2007-11-01 BANFF A

0236 658001 2001-03-01 D-1 A

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|-------|
| 0236 658002 | 2010-04-01 | D-1 B |
| 0236 658003 | 2002-09-01 | D-1 C |
| 0236 658004 | 2010-11-01 | D-1 D |
| 0236 658005 | 2006-10-01 | D-1 E |
| 0236 658006 | 2007-09-01 | D-1 F |
| 0236 658007 | 2007-11-01 | D-1 G |
| 0236 658008 | 2009-04-01 | D-1 H |
| 0236 658009 | 2009-04-01 | D-1 I |
| 0236 658010 | 2009-04-01 | D-1 J |
| 0236 658011 | 2009-11-01 | D-1 K |

SPACING PATTERN

SU 2281 4 Jul 1995

COMMINGLED PRODUCTION

MU 3584 25 Jun 2004

FIELD DESIGNATION

0239 2008-07-01 CLAIR FIELD

POOL DESIGNATION

0239 190001 2003-12-01 DOE CREEK A

0239 192002 2012-05-01 DUNVEGAN B

0239 326001 2001-02-01 GETHING A

0239 508001 2010-04-01 CHARLIE LAKE A

0239 508002 2001-02-01 CHARLIE LAKE B

0239 508003 2001-02-01 CHARLIE LAKE C

0239 508004 2011-03-01 CHARLIE LAKE D

0239 508005 2010-04-01 CHARLIE LAKE E

0239 516001 2001-02-01 HALFWAY A

0239 516002 2010-04-01 HALFWAY B

0239 516003 2001-02-01 HALFWAY C

0239 516004 2001-02-01 HALFWAY D

0239 516005 2010-04-01 HALFWAY E

0239 516006 2001-02-01 HALFWAY F

0239 516007 2010-04-01 HALFWAY G

0239 516008 2002-12-01 HALFWAY H

0239 516009 2005-05-01 HALFWAY I

0239 516011 2005-10-01 HALFWAY K

0239 516012 2008-07-01 HALFWAY L

0239 606001 2001-02-01 KISKATINAW A

0239 606002 2001-11-01 KISKATINAW B

0239 658001 2004-07-01 WABAMUN A

SPACING PATTERN

SU 4032 19 Nov 2002
SU 4032A 8 Jan 2003
SU 4032B 1 Apr 2003
SU 4032C 24 Jul 2003

COMMINGLED PRODUCTION

MU 1704 5 Jan 1999

ENHANCED RECOVERY SCHEMES

App 9483F 1 Apr 2013
Waterflood
Doe Creek A
Firenze Energy Ltd.

COMPULSORY POOLING

P 145 19 Sep 1996
Gas
21-073-5W6
Talisman Energy Inc.

FIELD DESIGNATION

0223 2014-03-01 CLARESHOLM FIELD

POOL DESIGNATION

0223 126007 2010-04-01 BELLY RIVER G

0223 204004 2010-04-01 BARONS D

0223 204005 2001-02-01 BARONS E

0223 204006 2010-04-01 BARONS F

0223 204007 2008-02-01 BARONS G

0223 204008 2014-05-01 BARONS H

0223 204010 2001-08-01 BARONS J

0223 204011 2003-05-01 BARONS K

0223 204012 2008-10-01 BARONS L

0223 204013 2009-01-01 BARONS M

0223 204014 2010-02-01 BARONS N

0223 213001 2006-03-01 BOW ISLAND A

0223 213002 2011-07-01 BOW ISLAND B

0223 213004 2007-09-01 BOW ISLAND D

0223 244001 2001-02-01 BLAIRMORE A

0223 244005 2014-02-01 BLAIRMORE E

0223 250001 2001-02-01 UPPER MANNVILLE A

0223 300001 2001-02-01 GLAUCONITIC A

0223 300002 2001-02-01 GLAUCONITIC B

0223 300003 2012-07-01 GLAUCONITIC C

0223 300004 2006-11-01 GLAUCONITIC D

0223 300005 2010-04-01 GLAUCONITIC E

0223 300006 2001-02-01 GLAUCONITIC F

0223 300007 2002-01-01 GLAUCONITIC G

0223 300009 2001-02-01 GLAUCONITIC I

0223 300010 2002-02-01 GLAUCONITIC J

0223 300011 2002-02-01 GLAUCONITIC K

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0223 300013 2002-02-01 | GLAUCONITIC M |
| 0223 300016 2003-05-01 | GLAUCONITIC P |
| 0223 300018 2011-03-01 | GLAUCONITIC R |
| 0223 300019 2013-07-01 | GLAUCONITIC S |
| 0223 300020 2014-01-01 | GLAUCONITIC T |
| 0223 300021 2014-02-01 | GLAUCONITIC U |
| | |
| 0223 310001 2001-02-01 | LOWER MANNVILLE A |
| 0223 310002 2001-03-01 | LOWER MANNVILLE B |
| 0223 310003 2001-02-01 | LOWER MANNVILLE C |
| 0223 310004 2004-01-01 | LOWER MANNVILLE D |
| 0223 310005 2001-02-01 | LOWER MANNVILLE E |
| 0223 310006 2001-03-01 | LOWER MANNVILLE F |
| 0223 310007 2010-04-01 | LOWER MANNVILLE G |
| 0223 310008 2001-02-01 | LOWER MANNVILLE H |
| 0223 310009 2001-02-01 | LOWER MANNVILLE I |
| 0223 310010 2003-10-01 | LOWER MANNVILLE J |
| 0223 310011 2004-01-01 | LOWER MANNVILLE K |
| 0223 310012 2010-04-01 | LOWER MANNVILLE L |
| 0223 310013 2005-09-01 | LOWER MANNVILLE M |
| 0223 310014 2013-12-01 | LOWER MANNVILLE N |
| 0223 310015 2007-07-01 | LOWER MANNVILLE O |
| 0223 310016 2008-05-01 | LOWER MANNVILLE P |
| 0223 310017 2009-04-01 | LOWER MANNVILLE Q |
| 0223 310018 2011-01-01 | LOWER MANNVILLE R |
| 0223 310019 2011-03-01 | LOWER MANNVILLE S |
| 0223 310020 2011-03-01 | LOWER MANNVILLE T |
| | |
| 0223 344001 2002-03-01 | CUTBANK A |
| 0223 344002 2011-10-01 | CUTBANK B |
| | |
| 0223 610001 2001-07-01 | RUNDLE A |
| 0223 610002 2010-04-01 | RUNDLE B |
| 0223 610003 2001-02-01 | RUNDLE C |
| 0223 610004 2001-02-01 | RUNDLE D |
| 0223 610005 2001-02-01 | RUNDLE E |
| 0223 610006 2001-02-01 | RUNDLE F |
| 0223 610007 2001-02-01 | RUNDLE G |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-----------------------|
| 0223 610008 2001-02-01 | RUNDLE H |
| 0223 610009 2001-02-01 | RUNDLE I |
| 0223 610010 2001-03-01 | RUNDLE J |
| 0223 610011 2002-06-01 | RUNDLE K |
| 0223 610012 2013-05-01 | RUNDLE L |
| 0223 649001 2013-03-01 | LWR BANFF-EXSHAW-BV A |
| 0223 658001 2012-06-01 | WABAMUN A |

SPACING PATTERN

SU 4320 25 Jan 2006

COMMINGLED PRODUCTION

MU 8603 11 Mar 2014

SUBSURFACE DISPOSAL SCHEMES

App 10843C 20 May 2016
Class Ib
Gibson Energy ULC

FIELD DESIGNATION

0222 2003-04-01 CLAY FIELD

POOL DESIGNATION

0222 218001 2004-02-01 VIKING A
0222 218002 2001-02-01 VIKING B
0222 218003 2001-02-01 VIKING C
0222 218004 2001-03-01 VIKING D
0222 218005 2002-04-01 VIKING E
0222 218006 2004-05-01 VIKING F
0222 218007 2007-07-01 VIKING G
0222 218008 2007-09-01 VIKING H
0222 218009 2008-03-01 VIKING I
0222 218010 2015-03-01 VIKING J
0222 218011 2010-08-01 VIKING K
0222 218012 2010-08-01 VIKING L
0222 218013 2012-06-01 VIKING M

0222 250001 2001-02-01 UPPER MANNVILLE A
0222 250002 2001-02-01 UPPER MANNVILLE B
0222 250005 2006-04-01 UPPER MANNVILLE E
0222 250006 2003-09-01 UPPER MANNVILLE F
0222 250007 2005-05-01 UPPER MANNVILLE G
0222 250008 2006-04-01 UPPER MANNVILLE H
0222 250009 2012-05-01 UPPER MANNVILLE I

0222 256001 2001-02-01 COLONY A
0222 256003 2001-02-01 COLONY C
0222 256005 2010-04-01 COLONY E
0222 256006 2001-02-01 COLONY F
0222 256007 2001-02-01 COLONY G
0222 256009 2001-02-01 COLONY I
0222 256010 2001-02-01 COLONY J
0222 256015 2003-04-01 COLONY O
0222 256017 2001-02-01 COLONY Q
0222 256018 2001-02-01 COLONY R

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0222 256020 2003-12-01 | COLONY T |
| 0222 256021 2010-04-01 | COLONY U |
| 0222 256022 2001-02-01 | COLONY V |
| 0222 256023 2001-02-01 | COLONY W |
| 0222 256024 2001-02-01 | COLONY X |
| 0222 256025 2001-02-01 | COLONY Y |
| 0222 256026 2001-02-01 | COLONY Z |
| 0222 256027 2010-04-01 | COLONY AA |
| 0222 256028 2004-05-01 | COLONY BB |
| 0222 256029 2001-02-01 | COLONY CC |
| 0222 256030 2003-11-01 | COLONY DD |
| 0222 256031 2002-05-01 | COLONY EE |
| 0222 256032 2003-02-01 | COLONY FF |
| 0222 256033 2003-11-01 | COLONY GG |
| 0222 256034 2004-07-01 | COLONY HH |
| 0222 256035 2006-08-01 | COLONY II |
| 0222 256036 2006-01-01 | COLONY JJ |
| 0222 256037 2007-01-01 | COLONY KK |
| 0222 256038 2009-08-01 | COLONY LL |
| 0222 256039 2011-03-01 | COLONY MM |
| 0222 262001 2001-02-01 | GRAND RAPIDS A |
| 0222 262002 2001-02-01 | GRAND RAPIDS B |
| 0222 262003 2001-02-01 | GRAND RAPIDS C |
| 0222 262006 2001-02-01 | GRAND RAPIDS F |
| 0222 262007 2001-02-01 | GRAND RAPIDS G |
| 0222 262008 2010-04-01 | GRAND RAPIDS H |
| 0222 262009 2002-05-01 | GRAND RAPIDS I |
| 0222 262010 2004-05-01 | GRAND RAPIDS J |
| 0222 276001 2001-02-01 | SPARKY A |
| 0222 276002 2006-10-01 | SPARKY B |
| 0222 276003 2016-07-01 | SPARKY C |
| 0222 276004 2007-07-01 | SPARKY D |
| 0222 280001 2004-07-01 | CLEARWATER A |
| 0222 280002 2004-07-01 | CLEARWATER B |
| 0222 280003 2005-06-01 | CLEARWATER C |

POOL DESIGNATION (cont'd)

0222 300001 2001-02-01 GLAUCONITIC A
0222 300004 2007-07-01 GLAUCONITIC D

0222 306003 2001-02-01 WABISKAW C
0222 306004 2003-02-01 WABISKAW D
0222 306005 2003-09-01 WABISKAW E
0222 306006 2005-01-01 WABISKAW F

SPACING PATTERN

SU 2609 22 Feb 1996
SU 2609A 14 Jun 2001

COMMINGLED PRODUCTION

MU 4340 28 Apr 2005

SUBSURFACE DISPOSAL SCHEMES

App 5820A 27 Apr 2012
Class II
Canadian Natural Resources Limited

FIELD DESIGNATION

0228 2009-08-01 CLAYHURST FIELD

POOL DESIGNATION

0228 228001 2002-04-01 PEACE RIVER A

0228 264001 2003-07-01 SPIRIT RIVER A

0228 326001 2001-03-01 GETHING A

0228 326002 2002-02-01 GETHING B

0228 326003 2002-02-01 GETHING C

0228 326004 2003-08-01 GETHING D

0228 326005 2004-10-01 GETHING E

0228 500002 2003-01-01 TRIASSIC B

0228 508001 2001-03-01 CHARLIE LAKE A

0228 508002 2001-03-01 CHARLIE LAKE B

0228 508003 2009-07-01 CHARLIE LAKE C

0228 508004 2013-08-01 CHARLIE LAKE D

0228 508005 2004-01-01 CHARLIE LAKE E

0228 508006 2008-02-01 CHARLIE LAKE F

0228 508007 2010-04-01 CHARLIE LAKE G

0228 508008 2008-06-01 CHARLIE LAKE H

0228 524001 2013-07-01 MONTNEY A

0228 606001 2001-02-01 KISKATINAW A

FIELD DESIGNATION

1033 2015-02-01 CLEAR HILLS FIELD

POOL DESIGNATION

1033 304001 2001-02-01 BLUESKY A
1033 304002 2001-02-01 BLUESKY B
1033 304003 2003-06-01 BLUESKY C
1033 304004 2007-07-01 BLUESKY D
1033 304005 2007-11-01 BLUESKY E

1033 326002 2001-02-01 GETHING B
1033 326003 2003-09-01 GETHING C

1033 508001 2003-01-01 CHARLIE LAKE A
1033 508002 2003-02-01 CHARLIE LAKE B
1033 508003 2003-10-01 CHARLIE LAKE C
1033 508004 2007-12-01 CHARLIE LAKE D
1033 508005 2007-03-01 CHARLIE LAKE E
1033 508006 2007-11-01 CHARLIE LAKE F
1033 508007 2008-01-01 CHARLIE LAKE G
1033 508008 2009-02-01 CHARLIE LAKE H
1033 508009 2008-11-01 CHARLIE LAKE I
1033 508010 2018-02-01 CHARLIE LAKE J

1033 516001 2004-07-01 HALFWAY A
1033 516002 2001-02-01 HALFWAY B
1033 516003 2004-03-01 HALFWAY C

1033 720001 2001-02-01 LEDUC A
1033 720002 2001-02-01 LEDUC B

SPACING PATTERN

SU 4366 24 Sep 2007

COMMINGLED PRODUCTION

MU 3381 4 Mar 2004

FIELD DESIGNATION

0229 2009-05-01 CLEAR PRAIRIE FIELD

POOL DESIGNATION

0229 266001 2005-06-01 NOTIKEWIN A
0229 266002 2008-05-01 NOTIKEWIN B

0229 304001 2001-02-01 BLUESKY A

0229 326001 2001-02-01 GETHING A
0229 326002 2001-02-01 GETHING B

0229 444001 2007-11-01 NORDEGG A
0229 444002 2011-09-01 NORDEGG B
0229 444003 2008-07-01 NORDEGG C
0229 444004 2009-01-01 NORDEGG D
0229 444006 2009-08-01 NORDEGG F

0229 500001 2001-02-01 TRIASSIC A
0229 500002 2001-02-01 TRIASSIC B
0229 500003 2001-02-01 TRIASSIC C
0229 500004 2001-02-01 TRIASSIC D
0229 500005 2007-08-01 TRIASSIC E
0229 500006 2007-11-01 TRIASSIC F

0229 556001 2001-12-01 BELLOY A
0229 556002 2008-06-01 BELLOY B

SPACING PATTERN

SU 4363 15 Feb 2007

SUBSURFACE DISPOSAL SCHEMES

App 11484C 19 Jan 2016
Class II
ORLEN Upstream Canada Ltd.

FIELD DESIGNATION

1034 2001-02-01 CLEARWATER FIELD

POOL DESIGNATION

1034 610001 2010-04-01 RUNDLE A

SPACING PATTERN

SU 2608 13 Mar 1996
SU 2608A 15 Oct 1998

FIELD DESIGNATION

0224 2011-08-01 CLIVE FIELD

POOL DESIGNATION

0224 118801 2006-11-01 LOWER EDMONTON A
0224 118802 2010-04-01 LOWER EDMONTON B
0224 118804 2008-05-01 LOWER EDMONTON D
0224 118805 2011-09-01 LOWER EDMONTON E
0224 118806 2009-03-01 LOWER EDMONTON F
0224 118807 2009-08-01 LOWER EDMONTON G
0224 118808 2009-10-01 LOWER EDMONTON H
0224 118809 2009-11-01 LOWER EDMONTON I
0224 118810 2013-04-01 LOWER EDMONTON J

0224 126004 2007-04-01 BELLY RIVER D
0224 126034 2009-03-01 BELLY RIVER HH
0224 126035 2011-04-01 BELLY RIVER II
0224 126036 2013-11-01 BELLY RIVER JJ

0224 134001 2009-12-01 BASAL BELLY RIVER A
0224 134002 2005-06-01 BASAL BELLY RIVER B
0224 134005 2005-07-01 BASAL BELLY RIVER E

0224 218002 2008-01-01 VIKING B
0224 218004 2002-02-01 VIKING D
0224 218007 2008-07-01 VIKING G
0224 218008 2009-04-01 VIKING H

0224 250001 2003-10-01 UPPER MANNVILLE A
0224 250002 2007-05-01 UPPER MANNVILLE B
0224 250003 2004-04-01 UPPER MANNVILLE C
0224 250004 2008-03-01 UPPER MANNVILLE D
0224 250005 2009-09-01 UPPER MANNVILLE E

0224 300001 2010-04-01 GLAUCONITIC A
0224 300002 2001-02-01 GLAUCONITIC B

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|---------------|
| 0224 300003 | 2001-02-01 | GLAUCONITIC C |
| 0224 300004 | 2001-02-01 | GLAUCONITIC D |
| 0224 300005 | 2001-02-01 | GLAUCONITIC E |
| | | |
| 0224 316001 | 2005-07-01 | OSTRACOD A |
| | | |
| 0224 336001 | 2010-04-01 | ELLERSLIE A |
| 0224 336002 | 2002-08-01 | ELLERSLIE B |
| 0224 336004 | 2001-02-01 | ELLERSLIE D |
| 0224 336005 | 2001-02-01 | ELLERSLIE E |
| 0224 336006 | 2001-02-01 | ELLERSLIE F |
| 0224 336007 | 2001-02-01 | ELLERSLIE G |
| 0224 336008 | 2010-04-01 | ELLERSLIE H |
| 0224 336009 | 2001-02-01 | ELLERSLIE I |
| 0224 336010 | 2001-02-01 | ELLERSLIE J |
| 0224 336011 | 2001-02-01 | ELLERSLIE K |
| 0224 336012 | 2001-02-01 | ELLERSLIE L |
| 0224 336013 | 2001-03-01 | ELLERSLIE M |
| 0224 336014 | 2001-03-01 | ELLERSLIE N |
| 0224 336015 | 2001-09-01 | ELLERSLIE O |
| 0224 336016 | 2010-04-01 | ELLERSLIE P |
| 0224 336017 | 2002-01-01 | ELLERSLIE Q |
| 0224 336018 | 2002-08-01 | ELLERSLIE R |
| 0224 336019 | 2002-08-01 | ELLERSLIE S |
| 0224 336020 | 2002-08-01 | ELLERSLIE T |
| 0224 336021 | 2004-09-01 | ELLERSLIE U |
| 0224 336022 | 2004-09-01 | ELLERSLIE V |
| 0224 336023 | 2004-10-01 | ELLERSLIE W |
| 0224 336024 | 2007-05-01 | ELLERSLIE X |
| 0224 336025 | 2014-04-01 | ELLERSLIE Y |
| | | |
| 0224 658001 | 2010-04-01 | D-1 A |
| | | |
| 0224 696001 | 2010-04-01 | D-2 A |
| 0224 696002 | 2001-07-01 | D-2 B |
| 0224 696003 | 2001-02-01 | D-2 C |
| 0224 696004 | 2003-07-01 | D-2 D |
| 0224 696005 | 2003-06-01 | D-2 E |

POOL DESIGNATION (cont'd)

0224 720001 2010-04-01 D-3 A

0224 850900 2011-09-01 MFP8509 BELLY RIVER

SPACING PATTERN

SU 4238 18 Nov 2004
 SU 4238A 2 Dec 2004
 SU 4238B 12 Mar 2005
 SU 4238C 23 Apr 2005
 SU 4238D 30 Jun 2005
 SU 4238E 2 Nov 2005
 SU 4238F 6 Jan 2006
 SU 4238G 2 Mar 2006

COMPULSORY POOLING

P 158A 16 Jul 2014
 Gas
 08-039-23W4
 Ember Resources Inc.

 P 166 10 Feb 1998
 Gas
 25-040-24W4
 Apache Canada Ltd.

MISCELLANEOUS ORDERS

MISC 6333 26 Aug 1963
 B.A. - CS Clive Bty 12-15
 Exemption 20c(8) D&P Regs

P 232 9 Dec 2002
 P 232A 25 Mar 2003
 P 232B 16 Jan 2014
 Gas
 31-040-24W4
 Ember Resources Inc.

COMMINGLED PRODUCTION

MU 8260 6 Dec 2011

P 266A 19 Dec 2013
 Gas
 31-040-24W4M
 Mustang Resources Inc.

ENHANCED RECOVERY SCHEMES

App 7617J 25 Jun 2015
 Waterflood
 D-2 A, D-2 B and D-3 A
 Enhance Energy Inc.

P 268 14 Mar 2005
 P 268A 21 Mar 2006
 P 268B 19 Nov 2013
 Oil

SUBSURFACE DISPOSAL SCHEMES

App 9156C 16 Oct 2013
 Class II
 Enhance Energy Inc.

5 & 6 15-039-24W4M
 Fairborne Energy Ltd.

COMPULSORY POOLING (cont'd)

P 269 14 Mar 2005
P 269A 28 Mar 2005
P 269B 19 Nov 2013

Oil
SW/4 15-039-24W4M
Fairborne Energy Ltd.

P 361 11 Jun 2008
P 361A 26 Nov 2008
P 361B 30 Jun 2016

Gas
31-038-24W4M
Quicksilver Resources Canada Inc.

P 368 6 Aug 2008
P 368A 26 Nov 2008
P 368B 30 Jun 2016

Gas
33-038-24W4M
Quicksilver Resources Canada Inc.

FIELD DESIGNATION

0120 2010-12-01 CLYDEN FIELD

POOL DESIGNATION

| | |
|------------------------|----------------|
| 0120 262001 2010-10-01 | GRAND RAPIDS A |
| 0120 262003 2001-02-01 | GRAND RAPIDS C |
| 0120 262005 2001-02-01 | GRAND RAPIDS E |
| 0120 262007 2001-02-01 | GRAND RAPIDS G |
| 0120 262008 2010-10-01 | GRAND RAPIDS H |
| 0120 262009 2003-05-01 | GRAND RAPIDS I |
| 0120 262010 2008-03-01 | GRAND RAPIDS J |
| 0120 262011 2008-01-01 | GRAND RAPIDS K |
| 0120 262012 2010-11-01 | GRAND RAPIDS L |
| 0120 262013 2007-07-01 | GRAND RAPIDS M |
| 0120 262014 2012-05-01 | GRAND RAPIDS N |
| 0120 262015 2010-10-01 | GRAND RAPIDS O |
| 0120 262016 2010-10-01 | GRAND RAPIDS P |
| 0120 262017 2010-10-01 | GRAND RAPIDS Q |
| 0120 262018 2010-04-01 | GRAND RAPIDS R |
| 0120 262019 2010-09-01 | GRAND RAPIDS S |
| 0120 262020 2010-11-01 | GRAND RAPIDS T |
| | |
| 0120 328001 2001-02-01 | MCMURRAY A |
| 0120 328002 2001-02-01 | MCMURRAY B |
| 0120 328003 2004-03-01 | MCMURRAY C |
| 0120 328010 2012-05-01 | MCMURRAY J |
| 0120 328012 2010-04-01 | MCMURRAY L |
| 0120 328013 2001-02-01 | MCMURRAY M |
| 0120 328014 2003-12-01 | MCMURRAY N |
| 0120 328016 2010-04-01 | MCMURRAY P |
| 0120 328018 2003-08-01 | MCMURRAY R |
| 0120 328019 2010-09-01 | MCMURRAY S |
| 0120 328020 2004-04-01 | MCMURRAY T |
| 0120 328021 2003-11-01 | MCMURRAY U |
| 0120 328022 2003-12-01 | MCMURRAY V |
| 0120 328023 2003-12-01 | MCMURRAY W |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------|
| 0120 328024 2003-12-01 | MCMURRAY X |
| 0120 328025 2004-03-01 | MCMURRAY Y |
| 0120 328026 2003-12-01 | MCMURRAY Z |
| 0120 328027 2005-05-01 | MCMURRAY AA |
| 0120 328028 2003-12-01 | MCMURRAY BB |
| 0120 328029 2003-12-01 | MCMURRAY CC |
| 0120 328030 2003-12-01 | MCMURRAY DD |
| 0120 328031 2012-05-01 | MCMURRAY EE |
| 0120 328032 2004-01-01 | MCMURRAY FF |
| 0120 328033 2004-02-01 | MCMURRAY GG |
| 0120 328034 2004-03-01 | MCMURRAY HH |
| 0120 328035 2004-03-01 | MCMURRAY II |
| 0120 328040 2004-01-01 | MCMURRAY NN |
| 0120 328041 2004-01-01 | MCMURRAY OO |
| 0120 328043 2006-08-01 | MCMURRAY QQ |
| 0120 328044 2007-07-01 | MCMURRAY RR |
| 0120 328045 2010-08-01 | MCMURRAY SS |
| 0120 328046 2013-07-01 | MCMURRAY TT |

SPACING PATTERN

SU 2607 7 May 1996

COMMINGLED PRODUCTION

MU 7755 10 Mar 2011

SUBSURFACE DISPOSAL SCHEMES

App 9592 16 Sep 2003
Class II
Canadian Natural Resources Limited

FIELD DESIGNATION

0233 2014-06-01 COALDALE FIELD

POOL DESIGNATION

0233 158001 2008-07-01 MILK RIVER A

0233 204001 2011-09-01 BARONS A
0233 204002 2004-09-01 BARONS B

0233 213001 2011-05-01 BOW ISLAND A
0233 213002 2001-02-01 BOW ISLAND B
0233 213003 2001-02-01 BOW ISLAND C
0233 213004 2001-02-01 BOW ISLAND D
0233 213009 2011-09-01 BOW ISLAND I
0233 213010 2011-09-01 BOW ISLAND J
0233 213011 2010-04-01 BOW ISLAND K
0233 213013 2010-04-01 BOW ISLAND M
0233 213014 2001-10-01 BOW ISLAND N
0233 213015 2004-09-01 BOW ISLAND O
0233 213016 2010-04-01 BOW ISLAND P
0233 213018 2011-09-01 BOW ISLAND R
0233 213019 2003-08-01 BOW ISLAND S
0233 213020 2003-02-01 BOW ISLAND T
0233 213021 2003-10-01 BOW ISLAND U
0233 213022 2004-07-01 BOW ISLAND V
0233 213023 2010-04-01 BOW ISLAND W
0233 213024 2010-04-01 BOW ISLAND X
0233 213027 2008-06-01 BOW ISLAND AA
0233 213028 2014-02-01 BOW ISLAND BB

0233 610001 2004-11-01 RUNDLE A

SPACING PATTERN

SU 2606 9 May 1996
SU 2606A 28 Jul 2005

COMMINGLED PRODUCTION

MU 8665 10 Jul 2014

FIELD DESIGNATION

1037 2016-05-01 COCHRANE FIELD

POOL DESIGNATION

1037 176001 2009-04-01 CARDIUM A
1037 176004 2013-12-01 CARDIUM D
1037 176005 2016-05-01 CARDIUM E
1037 176006 2015-02-01 CARDIUM F
1037 176007 2016-10-01 CARDIUM G

FIELD DESIGNATION

0243 2004-08-01 COLD LAKE FIELD

POOL DESIGNATION

0243 256001 2010-04-01 COLONY A
0243 256004 2010-04-01 COLONY D
0243 256005 2001-02-01 COLONY E
0243 256007 2010-04-01 COLONY G
0243 256008 2001-02-01 COLONY H
0243 256009 2001-02-01 COLONY I
0243 256010 2001-02-01 COLONY J
0243 256011 2001-02-01 COLONY K
0243 256012 2001-02-01 COLONY L
0243 256013 2001-02-01 COLONY M
0243 256014 2001-02-01 COLONY N
0243 256015 2007-11-01 COLONY O
0243 256017 2004-08-01 COLONY Q

0243 262001 2001-02-01 GRAND RAPIDS A
0243 262002 2001-02-01 GRAND RAPIDS B
0243 262003 2004-10-01 GRAND RAPIDS C
0243 262004 2005-07-01 GRAND RAPIDS D
0243 262005 2008-08-01 GRAND RAPIDS E
0243 262006 2014-11-01 GRAND RAPIDS F

0243 270001 2001-03-01 WASECA A

0243 280001 2010-04-01 CLEARWATER A
0243 280002 2010-04-01 CLEARWATER B
0243 280003 2001-02-01 CLEARWATER C
0243 280004 2001-02-01 CLEARWATER D
0243 280005 2001-09-01 CLEARWATER E

SPACING PATTERN

SU 2617 17 Apr 1996
SU 2617A 7 Dec 2004
SU 2617B 3 Mar 2006

COMMINGLED PRODUCTION

MU 4501 4 Jul 2005

SUBSURFACE DISPOSAL SCHEMES

App 2469E 5 Oct 2012
Class II
Canadian Natural Resources Limited

App 9794 17 Mar 2004
Class II
Canadian Natural Resources Limited

App 12253 28 Apr 2014
Class Ib
Canadian Natural Resources Limited

EXPERIMENTAL SCHEMES

For gas production in association
with crude bitumen
See Oil Sands Area, GB Orders

FIELD DESIGNATION

0245 2001-02-01 COLEMAN FIELD

POOL DESIGNATION

0245 610001 2007-06-01 RUNDLE A
0245 610002 2001-02-01 RUNDLE B
0245 610003 2011-09-01 RUNDLE C

0245 654002 2001-02-01 PALLISER B
0245 654003 2005-12-01 PALLISER C
0245 654004 2009-10-01 PALLISER D

SPACING PATTERN

SU 2620 26 Mar 1996
SU 2620A 11 Apr 1997

COMMINGLED PRODUCTION

MU 7340 7 Oct 2009

SUBSURFACE DISPOSAL SCHEMES

App 8313B 29 Sep 2015
Class Ib
Devon Canada Corporation

FIELD DESIGNATION

0246 2001-02-01 COLINTON FIELD

POOL DESIGNATION

0246 250001 2001-02-01 UPPER MANNVILLE A
0246 250002 2001-02-01 UPPER MANNVILLE B
0246 250003 2001-02-01 UPPER MANNVILLE C
0246 250004 2001-02-01 UPPER MANNVILLE D
0246 250005 2001-02-01 UPPER MANNVILLE E
0246 250006 2010-04-01 UPPER MANNVILLE F
0246 250007 2001-02-01 UPPER MANNVILLE G
0246 250008 2001-02-01 UPPER MANNVILLE H
0246 250009 2001-02-01 UPPER MANNVILLE I
0246 250010 2001-03-01 UPPER MANNVILLE J
0246 250011 2011-08-01 UPPER MANNVILLE K
0246 250012 2002-04-01 UPPER MANNVILLE L
0246 250013 2002-05-01 UPPER MANNVILLE M
0246 250014 2010-04-01 UPPER MANNVILLE N
0246 250015 2004-05-01 UPPER MANNVILLE O
0246 250016 2009-03-01 UPPER MANNVILLE P
0246 250017 2011-04-01 UPPER MANNVILLE Q

0246 262002 2001-02-01 GRAND RAPIDS B
0246 262003 2001-02-01 GRAND RAPIDS C
0246 262004 2001-02-01 GRAND RAPIDS D
0246 262005 2001-02-01 GRAND RAPIDS E
0246 262007 2001-02-01 GRAND RAPIDS G
0246 262008 2001-02-01 GRAND RAPIDS H
0246 262009 2001-02-01 GRAND RAPIDS I
0246 262010 2001-02-01 GRAND RAPIDS J
0246 262011 2001-03-01 GRAND RAPIDS K
0246 262012 2001-03-01 GRAND RAPIDS L
0246 262013 2001-03-01 GRAND RAPIDS M

0246 280001 2010-04-01 CLEARWATER A

INDEX OF AER ORDERS AND APPROVALS

COL

COLINTON FIELD

0246

July 2018

Page 2 of 2

POOL DESIGNATION (cont'd)

0246 306001 2002-02-01 WABISKAW A

0246 328001 2001-02-01 MCMURRAY A

SPACING PATTERN

SU 2621 26 Mar 1996

COMMINGLED PRODUCTION

MU 2884 27 Feb 2003

FIELD DESIGNATION

0242 2001-02-01 COLORADO FIELD

POOL DESIGNATION

0242 304001 2010-04-01 BLUESKY A

0242 500001 2001-02-01 TRIASSIC A

FIELD DESIGNATION

0310 2014-07-01 COLUMBIA FIELD

POOL DESIGNATION

0310 126003 2006-10-01 BELLY RIVER C
0310 126004 2006-05-01 BELLY RIVER D
0310 126005 2006-11-01 BELLY RIVER E

0310 176001 2010-04-01 CARDIUM A
0310 176002 2014-05-01 CARDIUM B
0310 176003 2001-02-01 CARDIUM C
0310 176004 2001-02-01 CARDIUM D
0310 176005 2001-02-01 CARDIUM E
0310 176006 2001-03-01 CARDIUM F
0310 176007 2004-02-01 CARDIUM G
0310 176008 2004-04-01 CARDIUM H
0310 176009 2010-04-01 CARDIUM I
0310 176010 2010-04-01 CARDIUM J
0310 176011 2010-04-01 CARDIUM K
0310 176012 2010-04-01 CARDIUM L
0310 176013 2008-05-01 CARDIUM M
0310 176014 2013-03-01 CARDIUM N
0310 176015 2009-04-01 CARDIUM O
0310 176016 2009-05-01 CARDIUM P
0310 176017 2009-06-01 CARDIUM Q
0310 176018 2011-02-01 CARDIUM R
0310 176019 2013-04-01 CARDIUM S

0310 186001 2005-05-01 SECOND WHITE SPECKS A

0310 218001 2011-02-01 VIKING A
0310 218003 2001-02-01 VIKING C
0310 218013 2008-09-01 VIKING M

0310 250001 2007-11-01 UPPER MANNVILLE A
0310 250002 2010-02-01 UPPER MANNVILLE B

POOL DESIGNATION (cont'd)

0310 250003 2010-04-01 UPPER MANNVILLE C
0310 250004 2010-04-01 UPPER MANNVILLE D
0310 250005 2010-04-01 UPPER MANNVILLE E
0310 250006 2016-02-01 UPPER MANNVILLE F
0310 250007 2018-06-01 UPPER MANNVILLE G

0310 316001 2010-02-01 OSTRACOD A

0310 336001 2008-06-01 ELLERSLIE A

0310 432001 2001-02-01 ROCK CREEK A
0310 432005 2010-04-01 ROCK CREEK E
0310 432006 2010-04-01 ROCK CREEK F

0310 696001 2001-02-01 NISKU A
0310 696002 2001-02-01 NISKU B
0310 696003 2001-03-01 NISKU C

SPACING PATTERN

SU 4172 6 May 2004
SU 4172A 12 Aug 2005
SU 4172B 30 Mar 2007

COMMINGLED PRODUCTION

MU 7757 10 Mar 2011

SUBSURFACE DISPOSAL SCHEMES

App 11020C 10 Dec 2013
Class II
Santonia Energy Inc.

FIELD DESIGNATION

0249 2014-04-01 COMPEER FIELD

POOL DESIGNATION

0249 126002 2004-02-01 BELLY RIVER B

0249 134001 2005-06-01 BASAL BELLY RIVER A

0249 202001 2005-06-01 FISH SCALE A

0249 218001 2010-04-01 VIKING A
0249 218002 2010-02-01 VIKING B
0249 218003 2015-02-01 VIKING C
0249 218004 2015-03-01 VIKING D
0249 218005 2015-03-01 VIKING E
0249 218006 2016-10-01 VIKING F
0249 218007 2016-09-01 VIKING G

0249 250001 2001-03-01 UPPER MANNVILLE A
0249 250002 2010-04-01 UPPER MANNVILLE B
0249 250003 2001-02-01 UPPER MANNVILLE C
0249 250004 2001-02-01 UPPER MANNVILLE D
0249 250005 2001-02-01 UPPER MANNVILLE E
0249 250006 2001-02-01 UPPER MANNVILLE F
0249 250007 2001-02-01 UPPER MANNVILLE G
0249 250008 2001-02-01 UPPER MANNVILLE H
0249 250009 2001-02-01 UPPER MANNVILLE I
0249 250010 2001-02-01 UPPER MANNVILLE J
0249 250011 2001-02-01 UPPER MANNVILLE K
0249 250012 2001-02-01 UPPER MANNVILLE L
0249 250013 2001-02-01 UPPER MANNVILLE M
0249 250015 2001-02-01 UPPER MANNVILLE O
0249 250016 2009-02-01 UPPER MANNVILLE P
0249 250017 2010-02-01 UPPER MANNVILLE Q
0249 250018 2010-11-01 UPPER MANNVILLE R
0249 250019 2012-06-01 UPPER MANNVILLE S

POOL DESIGNATION (cont'd)

0249 310001 2007-03-01 LOWER MANNVILLE A
0249 310002 2001-02-01 LOWER MANNVILLE B
0249 310003 2007-10-01 LOWER MANNVILLE C
0249 310004 2001-02-01 LOWER MANNVILLE D
0249 310005 2001-02-01 LOWER MANNVILLE E
0249 310006 2013-05-01 LOWER MANNVILLE F

0249 644001 2001-02-01 BANFF A
0249 644004 2010-04-01 BANFF D
0249 644006 2001-02-01 BANFF F

0249 646001 2001-02-01 BAKKEN A
0249 646002 2001-02-01 BAKKEN B
0249 646003 2013-05-01 BAKKEN C

0249 696001 2001-02-01 NISKU A

SPACING PATTERN

SU 2783 1 Oct 1996
SU 2783A 5 Dec 1996
SU 2783B 7 Oct 1999
SU 2783C 1 Aug 2000
SU 2783D 6 Jul 2005

COMMINGLED PRODUCTION

MU 4201 21 Mar 2005

SUBSURFACE DISPOSAL SCHEMES

App 12670 13 Oct 2017
Class II
Rolling Hills Energy Ltd.

FIELD DESIGNATION

0247 2014-06-01 COMREY FIELD

POOL DESIGNATION

0247 160002 2013-10-01 COLORADO B

0247 164004 2014-02-01 MEDICINE HAT D

0247 164005 2014-02-01 MEDICINE HAT E

0247 186000 2014-06-01 SECOND WHITE SPECKS

0247 186005 2010-12-01 SECOND WHITE SPECKS E

0247 186006 2010-12-01 SECOND WHITE SPECKS F

0247 211001 2013-09-01 LOWER COLORADO A

0247 213000 2010-04-01 BOW ISLAND

0247 213002 2001-02-01 BOW ISLAND B

0247 213003 2012-09-01 BOW ISLAND C

0247 213004 2012-09-01 BOW ISLAND D

0247 213005 2014-01-01 BOW ISLAND E

0247 242001 2001-09-01 BASAL COLORADO A

0247 250001 2001-02-01 UPPER MANNVILLE A

0247 250003 2006-08-01 UPPER MANNVILLE C

0247 310001 2001-02-01 LOWER MANNVILLE A

0247 310002 2001-02-01 LOWER MANNVILLE B

0247 310003 2001-02-01 LOWER MANNVILLE C

0247 310004 2001-02-01 LOWER MANNVILLE D

0247 310005 2003-06-01 LOWER MANNVILLE E

0247 310007 2014-01-01 LOWER MANNVILLE G

0247 428001 2001-02-01 SAWTOOTH A

0247 428002 2001-02-01 SAWTOOTH B

0247 428003 2001-02-01 SAWTOOTH C

POOL DESIGNATION (cont'd)

0247 428004 2001-02-01 SAWTOOTH D

0247 856700 2013-12-01 MFP8567 MED HAT

SPACING PATTERN

SU 2623 26 Mar 1996

SU 2623A 19 Dec 2001

FIELD DESIGNATION

0253 2008-11-01 CONNEMARA FIELD

POOL DESIGNATION

0253 336001 2001-03-01 ELLERSLIE A
0253 336002 2008-01-01 ELLERSLIE B
0253 336003 2008-01-01 ELLERSLIE C
0253 336004 2011-05-01 ELLERSLIE D

0253 610001 2001-02-01 RUNDLE A
0253 610002 2010-04-01 RUNDLE B
0253 610003 2002-02-01 RUNDLE C

0253 850600 2011-01-01 MFP8506 BELLY RIVER

0253 859600 2011-02-01 MFP8596 LWR EDMONTON

SPACING PATTERN

SU 2930 2 Jun 1999
SU 2930A 10 Jul 2000

FIELD DESIGNATION

0251 2014-03-01 CONNORSVILLE FIELD

POOL DESIGNATION

0251 126007 2005-02-01 BELLY RIVER G
0251 126008 2012-02-01 BELLY RIVER H

0251 134001 2010-07-01 BASAL BELLY RIVER A
0251 134002 2005-04-01 BASAL BELLY RIVER B
0251 134003 2010-04-01 BASAL BELLY RIVER C
0251 134004 2006-04-01 BASAL BELLY RIVER D
0251 134006 2010-12-01 BASAL BELLY RIVER F

0251 158002 2011-01-01 MILK RIVER B

0251 160001 2009-12-01 COLORADO A

0251 162001 2011-05-01 FIRST WHITE SPECKS A

0251 211001 2005-08-01 LOWER COLORADO A
0251 211002 2010-04-01 LOWER COLORADO B

0251 218001 2010-04-01 VIKING A
0251 218003 2001-02-01 VIKING C
0251 218005 2010-04-01 VIKING E
0251 218006 2001-02-01 VIKING F
0251 218007 2001-02-01 VIKING G
0251 218008 2001-02-01 VIKING H
0251 218009 2001-02-01 VIKING I
0251 218010 2001-02-01 VIKING J
0251 218011 2001-02-01 VIKING K
0251 218012 2003-06-01 VIKING L
0251 218013 2001-03-01 VIKING M
0251 218014 2005-05-01 VIKING N
0251 218015 2005-05-01 VIKING O
0251 218016 2010-05-01 VIKING P

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0251 218017 2010-04-01 | VIKING Q |
| 0251 218018 2012-01-01 | VIKING R |
| 0251 242001 2010-04-01 | BASAL COLORADO A |
| 0251 242002 2010-04-01 | BASAL COLORADO B |
| 0251 242003 2001-02-01 | BASAL COLORADO C |
| 0251 242004 2001-02-01 | BASAL COLORADO D |
| 0251 242005 2004-08-01 | BASAL COLORADO E |
| 0251 242006 2010-04-01 | BASAL COLORADO F |
| 0251 242007 2001-03-01 | BASAL COLORADO G |
| 0251 242008 2002-01-01 | BASAL COLORADO H |
| 0251 242009 2010-02-01 | BASAL COLORADO I |
| 0251 242011 2010-04-01 | BASAL COLORADO K |
| 0251 242013 2009-05-01 | BASAL COLORADO M |
| 0251 242014 2009-08-01 | BASAL COLORADO N |
| 0251 250001 2002-06-01 | UPPER MANNVILLE A |
| 0251 250002 2003-07-01 | UPPER MANNVILLE B |
| 0251 250003 2002-07-01 | UPPER MANNVILLE C |
| 0251 250004 2008-05-01 | UPPER MANNVILLE D |
| 0251 250005 2009-04-01 | UPPER MANNVILLE E |
| 0251 250006 2009-08-01 | UPPER MANNVILLE F |
| 0251 300001 2010-04-01 | GLAUCONITIC A |
| 0251 300002 2001-02-01 | GLAUCONITIC B |
| 0251 300003 2001-02-01 | GLAUCONITIC C |
| 0251 300005 2001-02-01 | GLAUCONITIC E |
| 0251 300006 2001-02-01 | GLAUCONITIC F |
| 0251 300007 2001-02-01 | GLAUCONITIC G |
| 0251 300008 2010-04-01 | GLAUCONITIC H |
| 0251 300009 2010-04-01 | GLAUCONITIC I |
| 0251 300010 2001-02-01 | GLAUCONITIC J |
| 0251 300011 2003-01-01 | GLAUCONITIC K |
| 0251 300012 2001-02-01 | GLAUCONITIC L |
| 0251 300013 2001-02-01 | GLAUCONITIC M |
| 0251 300014 2001-02-01 | GLAUCONITIC N |
| 0251 300016 2001-02-01 | GLAUCONITIC P |
| 0251 300017 2011-11-01 | GLAUCONITIC Q |

POOL DESIGNATION (cont'd)

| | |
|------------------------|--------------------|
| 0251 300018 2002-02-01 | GLAUCONITIC R |
| 0251 300019 2001-12-01 | GLAUCONITIC S |
| 0251 300020 2010-12-01 | GLAUCONITIC T |
| 0251 300021 2004-08-01 | GLAUCONITIC U |
| 0251 300022 2002-02-01 | GLAUCONITIC V |
| 0251 300023 2002-11-01 | GLAUCONITIC W |
| 0251 300024 2002-06-01 | GLAUCONITIC X |
| 0251 300025 2002-06-01 | GLAUCONITIC Y |
| 0251 300026 2003-03-01 | GLAUCONITIC Z |
| 0251 300028 2010-04-01 | GLAUCONITIC BB |
| 0251 300029 2005-10-01 | GLAUCONITIC CC |
| 0251 300030 2006-10-01 | GLAUCONITIC DD |
| 0251 300031 2006-11-01 | GLAUCONITIC EE |
| 0251 300033 2008-11-01 | GLAUCONITIC GG |
| 0251 300034 2010-02-01 | GLAUCONITIC HH |
| 0251 300035 2010-02-01 | GLAUCONITIC II |
| 0251 300036 2010-07-01 | GLAUCONITIC JJ |
| 0251 300037 2011-10-01 | GLAUCONITIC KK |
| 0251 300038 2012-01-01 | GLAUCONITIC LL |
| 0251 300039 2012-12-01 | GLAUCONITIC MM |
| 0251 310002 2001-02-01 | LOWER MANNVILLE B |
| 0251 310003 2001-02-01 | LOWER MANNVILLE C |
| 0251 310004 2001-02-01 | LOWER MANNVILLE D |
| 0251 316001 2010-04-01 | OSTRACOD A |
| 0251 336005 2001-02-01 | ELLERSLIE E |
| 0251 336006 2001-02-01 | ELLERSLIE F |
| 0251 336007 2003-12-01 | ELLERSLIE G |
| 0251 336008 2007-09-01 | ELLERSLIE H |
| 0251 336009 2008-02-01 | ELLERSLIE I |
| 0251 336010 2008-12-01 | ELLERSLIE J |
| 0251 696001 2001-02-01 | NISKU A |
| 0251 850100 2014-03-01 | MFP8501 MILK RIVER |

POOL DESIGNATION (cont'd)

0251 850200 2014-03-01 MFP8502 MED HAT
0251 850600 2014-03-01 MFP8506 BELLY RIVER
0251 852600 2014-03-01 MFP8526 ELLERSLIE

SPACING PATTERN

SU 3099 15 Apr 2002
SU 3099A 16 May 2002
SU 3099B 28 Mar 2003
SU 3099C 17 May 2004
SU 3099D 7 Oct 2004
SU 3099E 28 Oct 2004
SU 3099F 20 Nov 2004
SU 3099G 29 Aug 2005
SU 3099H 6 Jan 2006
SU 3099I 15 Mar 2006
SU 3099J 26 Jun 2006
SU 3099K 11 Sep 2007

COMMINGLED PRODUCTION

MU 7618 17 Dec 2010

SUBSURFACE DISPOSAL SCHEMES

App 9500A 11 Oct 2013
Class II
ConocoPhillips Canada Resources Corp.

FIELD DESIGNATION

0255 2005-02-01 CONRAD FIELD

POOL DESIGNATION

0255 186011 2006-06-01 SECOND WHITE SPECKS K
0255 186012 2010-04-01 SECOND WHITE SPECKS L
0255 186013 2008-07-01 SECOND WHITE SPECKS M

0255 204001 2011-09-01 BARONS A
0255 204002 2001-03-01 BARONS B
0255 204003 2010-04-01 BARONS C
0255 204004 2010-04-01 BARONS D
0255 204005 2005-10-01 BARONS E
0255 204006 2011-09-01 BARONS F
0255 204007 2006-09-01 BARONS G
0255 204008 2010-04-01 BARONS H
0255 204009 2010-04-01 BARONS I

0255 213001 2005-02-01 BOW ISLAND A
0255 213002 2013-12-01 BOW ISLAND B
0255 213003 2007-01-01 BOW ISLAND C

0255 418000 2011-09-01 ELLIS

0255 428001 2010-04-01 SAWTOOTH A
0255 428002 2001-02-01 SAWTOOTH B
0255 428003 2011-02-01 SAWTOOTH C
0255 428004 2017-07-01 SAWTOOTH D
0255 428005 2001-03-01 SAWTOOTH E
0255 428006 2013-06-01 SAWTOOTH F
0255 428008 2008-10-01 SAWTOOTH H

0255 853100 2011-09-01 MFP8531 2WS

SPACING PATTERN

SU 4119 14 Oct 2003
SU 4119A 17 Sep 2004
SU 4119B 4 Apr 2006
SU 4119C 5 Dec 2006
SU 4119D 11 Apr 2007

SUBSURFACE DISPOSAL SCHEMES

App 10034B 9 Mar 2010
Class II
Strategic Oil & Gas Ltd.

COMMINGLED PRODUCTION

MU 6998 8 Sep 2008

**EXEMPTION FROM GAS
MEASUREMENT**

GE 13 16 Dec 1969
GE 13A 16 Nov 1970
GE 13B 5 Feb 1972
Ellis

ENHANCED RECOVERY SCHEMES

App 5134Q 18 Oct 2017
Waterflood
Sawtooth D
Journey Energy Inc.

App 7386D 15 Jun 2015
Waterflood
Ellis
Strategic Oil & Gas Ltd.

App 11186C 18 Aug 2014
Waterflood
Sawtooth F
Journey Energy Inc.

FIELD DESIGNATION

0256 2001-02-01 COOKING LAKE FIELD

POOL DESIGNATION

0256 300001 2003-07-01 GLAUCONITIC A

0256 300002 2006-04-01 GLAUCONITIC B

0256 310001 2001-02-01 LOWER MANNVILLE A

0256 310002 2001-02-01 LOWER MANNVILLE B

0256 310003 2001-02-01 LOWER MANNVILLE C

0256 310004 2001-02-01 LOWER MANNVILLE D

0256 696001 2008-11-01 D-2 A

FIELD DESIGNATION

0257 2008-05-01 CORBETT FIELD

POOL DESIGNATION

0257 126001 2009-05-01 BELLY RIVER A

0257 218001 2010-04-01 VIKING A

0257 218002 2001-02-01 VIKING B

0257 218003 2010-04-01 VIKING C

0257 218004 2010-04-01 VIKING D

0257 218005 2010-09-01 VIKING E

0257 218006 2008-03-01 VIKING F

0257 218007 2008-08-01 VIKING G

0257 218008 2009-10-01 VIKING H

0257 218009 2010-10-01 VIKING I

0257 218010 2014-01-01 VIKING J

0257 250001 2010-04-01 UPPER MANNVILLE A

0257 316001 2002-02-01 OSTRACOD A

0257 336001 2001-02-01 ELLERSLIE A

0257 336002 2003-06-01 ELLERSLIE B

0257 336003 2002-05-01 ELLERSLIE C

0257 336004 2003-07-01 ELLERSLIE D

0257 336005 2008-02-01 ELLERSLIE E

0257 336006 2006-06-01 ELLERSLIE F

0257 336008 2007-07-01 ELLERSLIE H

0257 336009 2010-04-01 ELLERSLIE I

0257 336010 2009-07-01 ELLERSLIE J

0257 336011 2009-12-01 ELLERSLIE K

0257 336012 2010-02-01 ELLERSLIE L

0257 350001 2004-10-01 DETRITAL A

0257 444001 2008-05-01 NORDEGG A

POOL DESIGNATION (cont'd)

0257 444002 2008-02-01 NORDEGG B
0257 642001 2011-03-01 PEKISKO A
0257 644001 2001-02-01 BANFF A
0257 644002 2003-08-01 BANFF B
0257 961700 2012-06-01 MFP9617 CBM MEDR

SPACING PATTERN

SU 4228 17 Nov 2004
SU 4228A 2 Dec 2004
SU 4228B 11 Feb 2005
SU 4228C 26 Mar 2005
SU 4228D 9 Aug 2005
SU 4228E 14 Dec 2005
SU 4228F 28 Aug 2006
SU 4228G 27 Jun 2007
SU 4228H 7 Sep 2007
SU 4228I 2 Oct 2007

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

App 11045B 16 Apr 2018
Class II
Canlin Energy Corporation

COMMINGLED PRODUCTION

MU 3096 10 Oct 2003

SUBSURFACE DISPOSAL SCHEMES

App 10774C 28 Feb 2012
Class II
Trident Exploration (Alberta) Corp.

App 10942C 25 Sep 2012
Class II
Velvet Energy Ltd.

FIELD DESIGNATION

0254 2004-01-01 CORNER FIELD

POOL DESIGNATION

0254 262005 2005-06-01 GRAND RAPIDS E
0254 262006 2008-10-01 GRAND RAPIDS F
0254 262007 2008-10-01 GRAND RAPIDS G

0254 280003 2011-07-01 CLEARWATER C

0254 328001 2004-01-01 MCMURRAY A
0254 328003 2004-01-01 MCMURRAY C
0254 328004 2004-01-01 MCMURRAY D
0254 328007 2004-01-01 MCMURRAY G
0254 328010 2004-02-01 MCMURRAY J
0254 328011 2003-12-01 MCMURRAY K
0254 328016 2001-02-01 MCMURRAY P
0254 328017 2004-01-01 MCMURRAY Q
0254 328020 2010-04-01 MCMURRAY T
0254 328021 2004-03-01 MCMURRAY U
0254 328022 2009-03-01 MCMURRAY V
0254 328024 2003-12-01 MCMURRAY X
0254 328025 2003-12-01 MCMURRAY Y
0254 328027 2004-01-01 MCMURRAY AA
0254 328028 2003-12-01 MCMURRAY BB
0254 328029 2003-12-01 MCMURRAY CC
0254 328039 2004-01-01 MCMURRAY MM
0254 328040 2007-03-01 MCMURRAY NN
0254 328041 2004-01-01 MCMURRAY OO
0254 328042 2004-02-01 MCMURRAY PP
0254 328043 2004-08-01 MCMURRAY QQ

SPACING PATTERN

SU 2624 17 Apr 1996

COMMINGLED PRODUCTION

MU 7241 2 Sep 2009

SUBSURFACE DISPOSAL SCHEMES

App 9089B 20 Jan 2015
Class II
Perpetual Energy Operating Corp.

FIELD DESIGNATION

0252 2013-03-01 CORNWALL FIELD

POOL DESIGNATION

0252 680001 2013-03-01 BLUERIDGE A

0252 765501 2008-06-01 GILWOOD A

SPACING PATTERN

SU 2290 12 Jul 1995

FIELD DESIGNATION

0258 2003-04-01 CORRIN FIELD

POOL DESIGNATION

0258 218001 2001-03-01 VIKING A

0258 256001 2001-02-01 COLONY A
0258 256002 2001-02-01 COLONY B
0258 256003 2001-02-01 COLONY C
0258 256004 2005-04-01 COLONY D
0258 256005 2008-05-01 COLONY E

0258 262002 2010-04-01 GRAND RAPIDS B
0258 262003 2001-02-01 GRAND RAPIDS C
0258 262004 2001-02-01 GRAND RAPIDS D
0258 262005 2001-02-01 GRAND RAPIDS E

0258 268001 2005-04-01 MCLAREN A

0258 276001 2005-04-01 SPARKY A
0258 276002 2005-10-01 SPARKY B
0258 276003 2005-10-01 SPARKY C

0258 280002 2001-02-01 CLEARWATER B
0258 280003 2006-06-01 CLEARWATER C
0258 280004 2001-02-01 CLEARWATER D
0258 280005 2001-02-01 CLEARWATER E
0258 280006 2006-06-01 CLEARWATER F
0258 280007 2001-02-01 CLEARWATER G

0258 306001 2002-07-01 WABISKAW A
0258 306002 2001-02-01 WABISKAW B

SPACING PATTERN

SU 2643 29 Feb 1996

FIELD DESIGNATION

0259 2015-06-01 COUNTESS FIELD

POOL DESIGNATION

0259 118801 2011-10-01 LOWER EDMONTON A

0259 126430 2010-04-01 BELLY RIVER D4D
0259 127513 2009-01-01 BELLY RIVER M5M
0259 127519 2010-07-01 BELLY RIVER S5S
0259 127523 2011-01-01 BELLY RIVER W5W
0259 127525 2011-01-01 BELLY RIVER Y5Y
0259 127526 2011-01-01 BELLY RIVER Z5Z
0259 127527 2011-01-01 BELLY RIVER A6A
0259 127528 2011-01-01 BELLY RIVER B6B
0259 127529 2011-01-01 BELLY RIVER C6C
0259 127530 2011-06-01 BELLY RIVER D6D
0259 127531 2011-11-01 BELLY RIVER E6E
0259 127532 2011-11-01 BELLY RIVER F6F
0259 127533 2012-01-01 BELLY RIVER G6G
0259 127534 2015-06-01 BELLY RIVER H6H
0259 127535 2015-06-01 BELLY RIVER I6I

0259 135716 2012-01-01 BASAL BELLY RIVER P5P
0259 135717 2012-01-01 BASAL BELLY RIVER Q5Q
0259 135718 2014-03-01 BASAL BELLY RIVER R5R

0259 142002 2009-08-01 PAKOWKI B
0259 142003 2010-10-01 PAKOWKI C
0259 142004 2015-06-01 PAKOWKI D

0259 160003 2004-12-01 COLORADO C
0259 160004 2004-12-01 COLORADO D
0259 160005 2010-04-01 COLORADO E
0259 160008 2008-12-01 COLORADO H
0259 160010 2010-04-01 COLORADO J
0259 160016 2010-04-01 COLORADO P

POOL DESIGNATION (cont'd)

| | |
|------------------------|-----------------------|
| 0259 160019 2010-04-01 | COLORADO S |
| 0259 160020 2011-01-01 | COLORADO T |
| 0259 160021 2007-07-01 | COLORADO U |
| 0259 160022 2010-04-01 | COLORADO V |
| 0259 160023 2008-02-01 | COLORADO W |
| 0259 160024 2008-05-01 | COLORADO X |
| 0259 160025 2012-01-01 | COLORADO Y |
| 0259 160027 2008-08-01 | COLORADO AA |
| 0259 160028 2008-08-01 | COLORADO BB |
| 0259 160029 2008-10-01 | COLORADO CC |
| 0259 160030 2008-11-01 | COLORADO DD |
| 0259 160031 2009-03-01 | COLORADO EE |
| 0259 160033 2011-12-01 | COLORADO GG |
| 0259 160034 2010-04-01 | COLORADO HH |
| 0259 160035 2009-01-01 | COLORADO II |
| 0259 160036 2009-01-01 | COLORADO JJ |
| 0259 160037 2009-05-01 | COLORADO KK |
| 0259 160039 2010-04-01 | COLORADO MM |
| 0259 160040 2010-03-01 | COLORADO NN |
| 0259 160041 2010-08-01 | COLORADO OO |
| 0259 160042 2010-11-01 | COLORADO PP |
| 0259 160043 2011-01-01 | COLORADO QQ |
| 0259 160044 2015-06-01 | COLORADO RR |
| 0259 160045 2015-06-01 | COLORADO SS |
| 0259 160046 2015-06-01 | COLORADO TT |
| 0259 160047 2015-06-01 | COLORADO UU |
| 0259 160048 2015-06-01 | COLORADO VV |
| 0259 160049 2015-06-01 | COLORADO WW |
| 0259 160050 2015-06-01 | COLORADO XX |
| 0259 160051 2015-06-01 | COLORADO YY |
| 0259 162009 2005-10-01 | FIRST WHITE SPECKS I |
| 0259 162044 2014-05-01 | FIRST WHITE SPECKS RR |
| 0259 162335 2007-07-01 | FIRST WHITE SPCKS I2I |
| 0259 162341 2007-12-01 | FIRST WHITE SPCKS O2O |
| 0259 162344 2008-08-01 | FIRST WHITE SPCKS R2R |
| 0259 162345 2009-03-01 | FIRST WHITE SPCKS S2S |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-----------------------|
| 0259 162346 2009-03-01 | FIRST WHITE SPCKS T2T |
| 0259 162347 2010-11-01 | FIRST WHITE SPCKS U2U |
| 0259 162348 2011-01-01 | FIRST WHITE SPCKS V2V |
| 0259 162349 2011-06-01 | FIRST WHITE SPCKS W2W |
| 0259 162350 2015-03-01 | FIRST WHITE SPCKS X2X |
| 0259 162351 2015-06-01 | FIRST WHITE SPCKS Y2Y |
| 0259 164042 2015-06-01 | MEDICINE HAT PP |
| 0259 186049 2010-03-01 | SECOND WHITE SPCKS WW |
| 0259 202001 2007-05-01 | FISH SCALE A |
| 0259 202004 2010-04-01 | FISH SCALE D |
| 0259 202011 2015-07-01 | FISH SCALE K |
| 0259 202019 2010-04-01 | FISH SCALE S |
| 0259 202020 2010-04-01 | FISH SCALE T |
| 0259 202021 2010-04-01 | FISH SCALE U |
| 0259 202023 2010-04-01 | FISH SCALE W |
| 0259 202024 2010-04-01 | FISH SCALE X |
| 0259 202025 2010-04-01 | FISH SCALE Y |
| 0259 202026 2005-12-01 | FISH SCALE Z |
| 0259 202027 2008-07-01 | FISH SCALE AA |
| 0259 202029 2005-12-01 | FISH SCALE CC |
| 0259 202030 2011-01-01 | FISH SCALE DD |
| 0259 202031 2006-03-01 | FISH SCALE EE |
| 0259 202032 2010-04-01 | FISH SCALE FF |
| 0259 202033 2010-04-01 | FISH SCALE GG |
| 0259 202034 2007-07-01 | FISH SCALE HH |
| 0259 202035 2007-07-01 | FISH SCALE II |
| 0259 202037 2007-07-01 | FISH SCALE KK |
| 0259 202038 2007-10-01 | FISH SCALE LL |
| 0259 202039 2010-11-01 | FISH SCALE MM |
| 0259 202040 2011-01-01 | FISH SCALE NN |
| 0259 202041 2011-02-01 | FISH SCALE OO |
| 0259 202042 2015-06-01 | FISH SCALE PP |
| 0259 202043 2015-06-01 | FISH SCALE QQ |
| 0259 202044 2015-06-01 | FISH SCALE RR |

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------------|
| 0259 211001 2010-05-01 | LOWER COLORADO A |
| 0259 213005 2010-04-01 | BOW ISLAND E |
| 0259 213006 2010-04-01 | BOW ISLAND F |
| 0259 213007 2010-04-01 | BOW ISLAND G |
| 0259 213008 2010-04-01 | BOW ISLAND H |
| 0259 213009 2001-02-01 | BOW ISLAND I |
| 0259 213012 2001-02-01 | BOW ISLAND L |
| 0259 213013 2001-02-01 | BOW ISLAND M |
| 0259 213014 2003-08-01 | BOW ISLAND N |
| 0259 213016 2010-04-01 | BOW ISLAND P |
| 0259 213018 2001-02-01 | BOW ISLAND R |
| 0259 213019 2001-02-01 | BOW ISLAND S |
| 0259 213021 2001-02-01 | BOW ISLAND U |
| 0259 213024 2001-02-01 | BOW ISLAND X |
| 0259 213031 2001-02-01 | BOW ISLAND EE |
| 0259 213033 2001-02-01 | BOW ISLAND GG |
| 0259 213034 2001-02-01 | BOW ISLAND HH |
| 0259 213035 2001-02-01 | BOW ISLAND II |
| 0259 213036 2001-02-01 | BOW ISLAND JJ |
| 0259 213037 2016-03-01 | BOW ISLAND KK |
| 0259 213038 2001-02-01 | BOW ISLAND LL |
| 0259 213039 2010-04-01 | BOW ISLAND MM |
| 0259 213040 2001-02-01 | BOW ISLAND NN |
| 0259 213041 2012-06-01 | BOW ISLAND OO |
| 0259 213042 2010-04-01 | BOW ISLAND PP |
| 0259 213043 2001-02-01 | BOW ISLAND QQ |
| 0259 213044 2002-06-01 | BOW ISLAND RR |
| 0259 213046 2001-02-01 | BOW ISLAND TT |
| 0259 213048 2010-04-01 | BOW ISLAND VV |
| 0259 213050 2004-05-01 | BOW ISLAND XX |
| 0259 213052 2010-04-01 | BOW ISLAND ZZ |
| 0259 213401 2001-02-01 | BOW ISLAND AAA |
| 0259 213402 2001-02-01 | BOW ISLAND BBB |
| 0259 213403 2001-02-01 | BOW ISLAND CCC |
| 0259 213404 2001-02-01 | BOW ISLAND DDD |
| 0259 213405 2016-03-01 | BOW ISLAND EEE |
| 0259 213407 2004-05-01 | BOW ISLAND GGG |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0259 213408 2004-05-01 | BOW ISLAND HHH |
| 0259 213410 2001-02-01 | BOW ISLAND JJJ |
| 0259 213411 2003-04-01 | BOW ISLAND KKK |
| 0259 213412 2002-08-01 | BOW ISLAND LLL |
| 0259 213413 2001-02-01 | BOW ISLAND MMM |
| 0259 213414 2011-05-01 | BOW ISLAND NNN |
| 0259 213415 2004-08-01 | BOW ISLAND OOO |
| 0259 213416 2004-08-01 | BOW ISLAND PPP |
| 0259 213417 2010-04-01 | BOW ISLAND QQQ |
| 0259 213418 2001-02-01 | BOW ISLAND RRR |
| 0259 213419 2001-02-01 | BOW ISLAND SSS |
| 0259 213420 2001-02-01 | BOW ISLAND TTT |
| 0259 213421 2001-06-01 | BOW ISLAND UUU |
| 0259 213422 2001-06-01 | BOW ISLAND VVV |
| 0259 213423 2010-04-01 | BOW ISLAND WWW |
| 0259 213424 2010-04-01 | BOW ISLAND XXX |
| 0259 213425 2001-03-01 | BOW ISLAND YYY |
| 0259 213427 2001-03-01 | BOW ISLAND A2A |
| 0259 213428 2012-12-01 | BOW ISLAND B2B |
| 0259 213430 2001-03-01 | BOW ISLAND D2D |
| 0259 213431 2001-05-01 | BOW ISLAND E2E |
| 0259 213432 2004-02-01 | BOW ISLAND F2F |
| 0259 213433 2001-07-01 | BOW ISLAND G2G |
| 0259 213435 2001-06-01 | BOW ISLAND I2I |
| 0259 213436 2001-08-01 | BOW ISLAND J2J |
| 0259 213437 2001-08-01 | BOW ISLAND K2K |
| 0259 213438 2002-02-01 | BOW ISLAND L2L |
| 0259 213439 2010-04-01 | BOW ISLAND M2M |
| 0259 213440 2002-04-01 | BOW ISLAND N2N |
| 0259 213441 2002-11-01 | BOW ISLAND O2O |
| 0259 213442 2002-04-01 | BOW ISLAND P2P |
| 0259 213443 2002-04-01 | BOW ISLAND Q2Q |
| 0259 213444 2010-04-01 | BOW ISLAND R2R |
| 0259 213445 2010-04-01 | BOW ISLAND S2S |
| 0259 213446 2010-04-01 | BOW ISLAND T2T |
| 0259 213447 2003-01-01 | BOW ISLAND U2U |
| 0259 213448 2003-01-01 | BOW ISLAND V2V |
| 0259 213450 2005-06-01 | BOW ISLAND X2X |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0259 213451 2017-02-01 | BOW ISLAND Y2Y |
| 0259 213452 2003-08-01 | BOW ISLAND Z2Z |
| 0259 213901 2003-10-01 | BOW ISLAND A3A |
| 0259 213902 2003-11-01 | BOW ISLAND B3B |
| 0259 213903 2010-04-01 | BOW ISLAND C3C |
| 0259 213908 2010-04-01 | BOW ISLAND H3H |
| 0259 213909 2010-04-01 | BOW ISLAND I3I |
| 0259 213910 2005-05-01 | BOW ISLAND J3J |
| 0259 213912 2010-04-01 | BOW ISLAND L3L |
| 0259 213913 2008-04-01 | BOW ISLAND M3M |
| 0259 213914 2010-04-01 | BOW ISLAND N3N |
| 0259 213916 2005-10-01 | BOW ISLAND P3P |
| 0259 213917 2005-11-01 | BOW ISLAND Q3Q |
| 0259 213919 2010-04-01 | BOW ISLAND S3S |
| 0259 213920 2010-04-01 | BOW ISLAND T3T |
| 0259 213921 2010-04-01 | BOW ISLAND U3U |
| 0259 213922 2006-02-01 | BOW ISLAND V3V |
| 0259 213923 2006-02-01 | BOW ISLAND W3W |
| 0259 213924 2010-04-01 | BOW ISLAND X3X |
| 0259 213925 2010-04-01 | BOW ISLAND Y3Y |
| 0259 213926 2010-04-01 | BOW ISLAND Z3Z |
| 0259 213927 2006-03-01 | BOW ISLAND A4A |
| 0259 213928 2010-04-01 | BOW ISLAND B4B |
| 0259 213929 2006-03-01 | BOW ISLAND C4C |
| 0259 213930 2006-03-01 | BOW ISLAND D4D |
| 0259 213931 2006-03-01 | BOW ISLAND E4E |
| 0259 213932 2006-03-01 | BOW ISLAND F4F |
| 0259 213933 2009-07-01 | BOW ISLAND G4G |
| 0259 213934 2010-04-01 | BOW ISLAND H4H |
| 0259 213935 2010-04-01 | BOW ISLAND I4I |
| 0259 213936 2010-04-01 | BOW ISLAND J4J |
| 0259 213937 2010-04-01 | BOW ISLAND K4K |
| 0259 213938 2010-04-01 | BOW ISLAND L4L |
| 0259 213939 2010-04-01 | BOW ISLAND M4M |
| 0259 213940 2006-03-01 | BOW ISLAND N4N |
| 0259 213941 2006-03-01 | BOW ISLAND O4O |
| 0259 213942 2010-04-01 | BOW ISLAND P4P |
| 0259 213943 2006-03-01 | BOW ISLAND Q4Q |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0259 213944 2006-03-01 | BOW ISLAND R4R |
| 0259 213945 2006-03-01 | BOW ISLAND S4S |
| 0259 213946 2010-04-01 | BOW ISLAND T4T |
| 0259 213947 2006-03-01 | BOW ISLAND U4U |
| 0259 213948 2015-07-01 | BOW ISLAND V4V |
| 0259 213949 2006-03-01 | BOW ISLAND W4W |
| 0259 213950 2006-03-01 | BOW ISLAND X4X |
| 0259 213951 2006-03-01 | BOW ISLAND Y4Y |
| 0259 213952 2006-03-01 | BOW ISLAND Z4Z |
| 0259 214501 2006-03-01 | BOW ISLAND A5A |
| 0259 214502 2006-03-01 | BOW ISLAND B5B |
| 0259 214503 2006-03-01 | BOW ISLAND C5C |
| 0259 214504 2010-04-01 | BOW ISLAND D5D |
| 0259 214505 2006-08-01 | BOW ISLAND E5E |
| 0259 214506 2006-05-01 | BOW ISLAND F5F |
| 0259 214507 2010-04-01 | BOW ISLAND G5G |
| 0259 214509 2010-04-01 | BOW ISLAND I5I |
| 0259 214510 2010-04-01 | BOW ISLAND J5J |
| 0259 214512 2012-12-01 | BOW ISLAND L5L |
| 0259 214513 2006-10-01 | BOW ISLAND M5M |
| 0259 214514 2006-10-01 | BOW ISLAND N5N |
| 0259 214515 2007-10-01 | BOW ISLAND O5O |
| 0259 214517 2006-10-01 | BOW ISLAND Q5Q |
| 0259 214518 2006-10-01 | BOW ISLAND R5R |
| 0259 214519 2006-10-01 | BOW ISLAND S5S |
| 0259 214520 2010-04-01 | BOW ISLAND T5T |
| 0259 214521 2010-04-01 | BOW ISLAND U5U |
| 0259 214522 2010-04-01 | BOW ISLAND V5V |
| 0259 214524 2010-04-01 | BOW ISLAND X5X |
| 0259 214525 2009-02-01 | BOW ISLAND Y5Y |
| 0259 214526 2008-01-01 | BOW ISLAND Z5Z |
| 0259 214528 2009-03-01 | BOW ISLAND B6B |
| 0259 214529 2010-04-01 | BOW ISLAND C6C |
| 0259 214535 2010-04-01 | BOW ISLAND I6I |
| 0259 214536 2007-01-01 | BOW ISLAND J6J |
| 0259 214537 2010-04-01 | BOW ISLAND K6K |
| 0259 214538 2008-10-01 | BOW ISLAND L6L |
| 0259 214540 2008-07-01 | BOW ISLAND N6N |

POOL DESIGNATION (cont'd)

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|------------------------|----------------|
| 0259 214541 2010-04-01 | BOW ISLAND O6O |
| 0259 214543 2010-04-01 | BOW ISLAND Q6Q |
| 0259 214544 2007-04-01 | BOW ISLAND R6R |
| 0259 214547 2007-07-01 | BOW ISLAND U6U |
| 0259 214549 2007-07-01 | BOW ISLAND W6W |
| 0259 214551 2007-07-01 | BOW ISLAND Y6Y |
| 0259 214552 2007-07-01 | BOW ISLAND Z6Z |
| 0259 214601 2010-04-01 | BOW ISLAND A7A |
| 0259 214602 2010-04-01 | BOW ISLAND B7B |
| 0259 214603 2007-09-01 | BOW ISLAND C7C |
| 0259 214610 2007-09-01 | BOW ISLAND J7J |
| 0259 214613 2010-04-01 | BOW ISLAND M7M |
| 0259 214615 2007-09-01 | BOW ISLAND O7O |
| 0259 214617 2007-09-01 | BOW ISLAND Q7Q |
| 0259 214618 2010-04-01 | BOW ISLAND R7R |
| 0259 214619 2007-10-01 | BOW ISLAND S7S |
| 0259 214620 2010-04-01 | BOW ISLAND T7T |
| 0259 214621 2007-10-01 | BOW ISLAND U7U |
| 0259 214622 2007-10-01 | BOW ISLAND V7V |
| 0259 214623 2007-10-01 | BOW ISLAND W7W |
| 0259 214624 2007-10-01 | BOW ISLAND X7X |
| 0259 214625 2007-10-01 | BOW ISLAND Y7Y |
| 0259 214626 2007-10-01 | BOW ISLAND Z7Z |
| 0259 214627 2007-10-01 | BOW ISLAND A8A |
| 0259 214628 2007-10-01 | BOW ISLAND B8B |
| 0259 214631 2007-12-01 | BOW ISLAND E8E |
| 0259 214633 2012-01-01 | BOW ISLAND G8G |
| 0259 214634 2007-12-01 | BOW ISLAND H8H |
| 0259 214636 2007-12-01 | BOW ISLAND J8J |
| 0259 214637 2007-12-01 | BOW ISLAND K8K |
| 0259 214638 2007-12-01 | BOW ISLAND L8L |
| 0259 214639 2008-01-01 | BOW ISLAND M8M |
| 0259 214642 2008-01-01 | BOW ISLAND P8P |
| 0259 214643 2008-01-01 | BOW ISLAND Q8Q |
| 0259 214644 2008-01-01 | BOW ISLAND R8R |
| 0259 214645 2011-05-01 | BOW ISLAND S8S |
| 0259 214646 2008-01-01 | BOW ISLAND T8T |
| 0259 214647 2008-02-01 | BOW ISLAND U8U |

POOL DESIGNATION (cont'd)

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|------------------------|-----------------|
| 0259 214648 2010-04-01 | BOW ISLAND V8V |
| 0259 214649 2008-06-01 | BOW ISLAND W8W |
| 0259 214650 2008-08-01 | BOW ISLAND X8X |
| 0259 214801 2010-04-01 | BOW ISLAND A9A |
| 0259 214802 2010-04-01 | BOW ISLAND B9B |
| 0259 214804 2008-12-01 | BOW ISLAND D9D |
| 0259 214806 2009-01-01 | BOW ISLAND F9F |
| 0259 214807 2009-02-01 | BOW ISLAND G9G |
| 0259 214809 2009-05-01 | BOW ISLAND I9I |
| 0259 214811 2009-08-01 | BOW ISLAND K9K |
| 0259 214812 2009-08-01 | BOW ISLAND L9L |
| 0259 214813 2009-08-01 | BOW ISLAND M9M |
| 0259 214814 2009-08-01 | BOW ISLAND N9N |
| 0259 214815 2009-09-01 | BOW ISLAND O9O |
| 0259 214816 2009-11-01 | BOW ISLAND P9P |
| 0259 214817 2009-11-01 | BOW ISLAND Q9Q |
| 0259 214818 2009-11-01 | BOW ISLAND R9R |
| 0259 214819 2010-04-01 | BOW ISLAND S9S |
| 0259 214820 2009-11-01 | BOW ISLAND T9T |
| 0259 214821 2010-01-01 | BOW ISLAND U9U |
| 0259 214822 2010-02-01 | BOW ISLAND V9V |
| 0259 214824 2010-03-01 | BOW ISLAND X9X |
| 0259 214825 2010-03-01 | BOW ISLAND Y9Y |
| 0259 214826 2010-04-01 | BOW ISLAND Z9Z |
| 0259 214827 2011-11-01 | BOW ISLAND A10A |
| 0259 214828 2012-07-01 | BOW ISLAND B10B |
| 0259 214829 2014-11-01 | BOW ISLAND C10C |
| 0259 214830 2014-11-01 | BOW ISLAND D10D |
| 0259 214831 2014-11-01 | BOW ISLAND E10E |
| 0259 214832 2014-12-01 | BOW ISLAND F10F |
| 0259 214833 2015-06-01 | BOW ISLAND G10G |

POOL DESIGNATION (cont'd)

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|------------------------|-----------------|
| 0259 214834 2015-06-01 | BOW ISLAND H10H |
| 0259 214835 2015-06-01 | BOW ISLAND I10I |
| 0259 214836 2015-06-01 | BOW ISLAND J10J |
| 0259 214837 2015-06-01 | BOW ISLAND K10K |
| 0259 214838 2015-06-01 | BOW ISLAND L10L |
| 0259 214839 2015-06-01 | BOW ISLAND M10M |
| 0259 214840 2015-06-01 | BOW ISLAND N10N |
| 0259 214841 2015-06-01 | BOW ISLAND O10O |
| 0259 214842 2015-06-01 | BOW ISLAND P10P |
| 0259 214843 2015-06-01 | BOW ISLAND Q10Q |
| 0259 214844 2015-06-01 | BOW ISLAND R10R |
| 0259 214845 2015-06-01 | BOW ISLAND S10S |
| 0259 214846 2015-06-01 | BOW ISLAND T10T |
| 0259 214847 2015-06-01 | BOW ISLAND U10U |
| 0259 214848 2015-06-01 | BOW ISLAND V10V |
| 0259 214849 2015-06-01 | BOW ISLAND W10W |
| 0259 214850 2015-06-01 | BOW ISLAND X10X |
| 0259 214851 2015-06-01 | BOW ISLAND Y10Y |
| 0259 214852 2015-06-01 | BOW ISLAND Z10Z |

POOL DESIGNATION (cont'd)

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|------------------------|------------------|
| 0259 214901 2015-06-01 | BOW ISLAND A11A |
| 0259 214902 2015-06-01 | BOW ISLAND B11B |
| 0259 218001 2010-04-01 | VIKING A |
| 0259 218002 2010-04-01 | VIKING B |
| 0259 218003 2010-04-01 | VIKING C |
| 0259 218004 2010-04-01 | VIKING D |
| 0259 218005 2010-04-01 | VIKING E |
| 0259 218006 2010-04-01 | VIKING F |
| 0259 218007 2010-04-01 | VIKING G |
| 0259 218008 2004-08-01 | VIKING H |
| 0259 218009 2004-09-01 | VIKING I |
| 0259 218010 2010-04-01 | VIKING J |
| 0259 218011 2010-04-01 | VIKING K |
| 0259 218012 2010-05-01 | VIKING L |
| 0259 218013 2005-02-01 | VIKING M |
| 0259 218014 2010-04-01 | VIKING N |
| 0259 218015 2010-04-01 | VIKING O |
| 0259 218016 2010-04-01 | VIKING P |
| 0259 218017 2010-04-01 | VIKING Q |
| 0259 218018 2010-04-01 | VIKING R |
| 0259 218019 2010-04-01 | VIKING S |
| 0259 218020 2010-04-01 | VIKING T |
| 0259 218022 2006-03-01 | VIKING V |
| 0259 218023 2006-05-01 | VIKING W |
| 0259 218024 2006-10-01 | VIKING X |
| 0259 218025 2008-08-01 | VIKING Y |
| 0259 218026 2010-04-01 | VIKING Z |
| 0259 218027 2009-09-01 | VIKING AA |
| 0259 218028 2010-04-01 | VIKING BB |
| 0259 218029 2012-07-01 | VIKING CC |
| 0259 218030 2015-06-01 | VIKING DD |
| 0259 218031 2015-06-01 | VIKING EE |
| 0259 218032 2015-06-01 | VIKING FF |
| 0259 218033 2015-06-01 | VIKING GG |
| 0259 242001 2010-06-01 | BASAL COLORADO A |

POOL DESIGNATION (cont'd)

| | |
|------------------------|--------------------|
| 0259 242002 2001-02-01 | BASAL COLORADO B |
| 0259 242004 2010-04-01 | BASAL COLORADO D |
| 0259 242005 2010-11-01 | BASAL COLORADO E |
| 0259 242006 2010-04-01 | BASAL COLORADO F |
| 0259 242007 2010-04-01 | BASAL COLORADO G |
| 0259 242008 2010-04-01 | BASAL COLORADO H |
| 0259 242010 2004-09-01 | BASAL COLORADO J |
| 0259 242011 2010-04-01 | BASAL COLORADO K |
| 0259 242012 2010-04-01 | BASAL COLORADO L |
| 0259 242013 2010-04-01 | BASAL COLORADO M |
| 0259 242015 2010-04-01 | BASAL COLORADO O |
| 0259 242016 2010-04-01 | BASAL COLORADO P |
| 0259 242017 2009-08-01 | BASAL COLORADO Q |
| 0259 242018 2010-01-01 | BASAL COLORADO R |
| 0259 242019 2010-05-01 | BASAL COLORADO S |
| 0259 242020 2011-12-01 | BASAL COLORADO T |
| | |
| 0259 250002 2010-04-01 | UPPER MANNVILLE B |
| 0259 250004 2001-07-01 | UPPER MANNVILLE D |
| 0259 250006 2001-02-01 | UPPER MANNVILLE F |
| 0259 250008 2010-04-01 | UPPER MANNVILLE H |
| 0259 250009 2001-02-01 | UPPER MANNVILLE I |
| 0259 250010 2001-02-01 | UPPER MANNVILLE J |
| 0259 250012 2001-02-01 | UPPER MANNVILLE L |
| 0259 250013 2010-04-01 | UPPER MANNVILLE M |
| 0259 250014 2001-02-01 | UPPER MANNVILLE N |
| 0259 250015 2010-04-01 | UPPER MANNVILLE O |
| 0259 250017 2001-02-01 | UPPER MANNVILLE Q |
| 0259 250019 2010-06-01 | UPPER MANNVILLE S |
| 0259 250020 2001-02-01 | UPPER MANNVILLE T |
| 0259 250021 2001-02-01 | UPPER MANNVILLE U |
| 0259 250023 2001-02-01 | UPPER MANNVILLE W |
| 0259 250024 2001-02-01 | UPPER MANNVILLE X |
| 0259 250025 2001-02-01 | UPPER MANNVILLE Y |
| 0259 250027 2001-02-01 | UPPER MANNVILLE AA |
| 0259 250034 2010-04-01 | UPPER MANNVILLE HH |
| 0259 250036 2001-02-01 | UPPER MANNVILLE JJ |
| 0259 250037 2001-02-01 | UPPER MANNVILLE KK |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0259 250039 2001-02-01 | UPPER MANNVILLE MM |
| 0259 250042 2001-02-01 | UPPER MANNVILLE PP |
| 0259 250047 2009-03-01 | UPPER MANNVILLE UU |
| 0259 250048 2001-02-01 | UPPER MANNVILLE VV |
| 0259 250051 2014-01-01 | UPPER MANNVILLE YY |
| 0259 250052 2001-02-01 | UPPER MANNVILLE ZZ |
| 0259 250701 2001-02-01 | UPPER MANNVILLE AAA |
| 0259 250702 2001-02-01 | UPPER MANNVILLE BBB |
| 0259 250705 2001-02-01 | UPPER MANNVILLE EEE |
| 0259 250706 2010-04-01 | UPPER MANNVILLE FFF |
| 0259 250708 2010-04-01 | UPPER MANNVILLE HHH |
| 0259 250710 2010-04-01 | UPPER MANNVILLE JJJ |
| 0259 250714 2015-02-01 | UPPER MANNVILLE NNN |
| 0259 250716 2007-08-01 | UPPER MANNVILLE PPP |
| 0259 250717 2001-02-01 | UPPER MANNVILLE QQQ |
| 0259 250718 2015-04-01 | UPPER MANNVILLE RRR |
| 0259 250720 2003-05-01 | UPPER MANNVILLE TTT |
| 0259 250721 2001-02-01 | UPPER MANNVILLE UUU |
| 0259 250725 2006-11-01 | UPPER MANNVILLE YYY |
| 0259 250726 2011-06-01 | UPPER MANNVILLE ZZZ |
| 0259 250727 2015-04-01 | UPPER MANNVILLE A2A |
| 0259 250728 2001-02-01 | UPPER MANNVILLE B2B |
| 0259 250729 2001-02-01 | UPPER MANNVILLE C2C |
| 0259 250731 2010-04-01 | UPPER MANNVILLE E2E |
| 0259 250736 2003-05-01 | UPPER MANNVILLE J2J |
| 0259 250737 2001-02-01 | UPPER MANNVILLE K2K |
| 0259 250738 2010-04-01 | UPPER MANNVILLE L2L |
| 0259 250739 2010-04-01 | UPPER MANNVILLE M2M |
| 0259 250740 2010-04-01 | UPPER MANNVILLE N2N |
| 0259 250741 2010-04-01 | UPPER MANNVILLE O2O |
| 0259 250742 2010-04-01 | UPPER MANNVILLE P2P |
| 0259 250745 2001-02-01 | UPPER MANNVILLE S2S |
| 0259 250747 2001-02-01 | UPPER MANNVILLE U2U |
| 0259 250749 2001-02-01 | UPPER MANNVILLE W2W |
| 0259 250750 2001-02-01 | UPPER MANNVILLE X2X |
| 0259 250751 2001-02-01 | UPPER MANNVILLE Y2Y |
| 0259 250752 2001-02-01 | UPPER MANNVILLE Z2Z |
| 0259 251101 2001-02-01 | UPPER MANNVILLE A3A |

POOL DESIGNATION (cont'd)

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|------------------------|---------------------|
| 0259 251102 2001-02-01 | UPPER MANNVILLE B3B |
| 0259 251103 2010-04-01 | UPPER MANNVILLE C3C |
| 0259 251104 2010-04-01 | UPPER MANNVILLE D3D |
| 0259 251105 2001-02-01 | UPPER MANNVILLE E3E |
| 0259 251106 2001-02-01 | UPPER MANNVILLE F3F |
| 0259 251107 2001-02-01 | UPPER MANNVILLE G3G |
| 0259 251108 2001-02-01 | UPPER MANNVILLE H3H |
| 0259 251109 2001-02-01 | UPPER MANNVILLE I3I |
| 0259 251110 2001-02-01 | UPPER MANNVILLE J3J |
| 0259 251111 2001-02-01 | UPPER MANNVILLE K3K |
| 0259 251112 2010-04-01 | UPPER MANNVILLE L3L |
| 0259 251113 2001-02-01 | UPPER MANNVILLE M3M |
| 0259 251114 2001-02-01 | UPPER MANNVILLE N3N |
| 0259 251115 2001-02-01 | UPPER MANNVILLE O3O |
| 0259 251116 2001-02-01 | UPPER MANNVILLE P3P |
| 0259 251117 2001-03-01 | UPPER MANNVILLE Q3Q |
| 0259 251118 2001-03-01 | UPPER MANNVILLE R3R |
| 0259 251119 2001-03-01 | UPPER MANNVILLE S3S |
| 0259 251120 2001-08-01 | UPPER MANNVILLE T3T |
| 0259 251121 2009-11-01 | UPPER MANNVILLE U3U |
| 0259 251123 2001-08-01 | UPPER MANNVILLE W3W |
| 0259 251125 2001-09-01 | UPPER MANNVILLE Y3Y |
| 0259 251126 2010-04-01 | UPPER MANNVILLE Z3Z |
| 0259 251127 2010-04-01 | UPPER MANNVILLE A4A |
| 0259 251128 2003-06-01 | UPPER MANNVILLE B4B |
| 0259 251129 2010-04-01 | UPPER MANNVILLE C4C |
| 0259 251130 2001-11-01 | UPPER MANNVILLE D4D |
| 0259 251131 2002-07-01 | UPPER MANNVILLE E4E |
| 0259 251132 2001-12-01 | UPPER MANNVILLE F4F |
| 0259 251133 2001-12-01 | UPPER MANNVILLE G4G |
| 0259 251134 2010-04-01 | UPPER MANNVILLE H4H |
| 0259 251135 2001-12-01 | UPPER MANNVILLE I4I |
| 0259 251136 2002-01-01 | UPPER MANNVILLE J4J |
| 0259 251137 2002-01-01 | UPPER MANNVILLE K4K |
| 0259 251139 2003-01-01 | UPPER MANNVILLE M4M |
| 0259 251140 2002-01-01 | UPPER MANNVILLE N4N |
| 0259 251142 2002-02-01 | UPPER MANNVILLE P4P |
| 0259 251143 2002-02-01 | UPPER MANNVILLE Q4Q |

POOL DESIGNATION (cont'd)

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|------------------------|---------------------|
| 0259 251145 2002-03-01 | UPPER MANNVILLE S4S |
| 0259 251146 2002-08-01 | UPPER MANNVILLE T4T |
| 0259 251147 2016-01-01 | UPPER MANNVILLE U4U |
| 0259 251148 2002-05-01 | UPPER MANNVILLE V4V |
| 0259 251149 2002-05-01 | UPPER MANNVILLE W4W |
| 0259 251150 2002-05-01 | UPPER MANNVILLE X4X |
| 0259 251151 2002-09-01 | UPPER MANNVILLE Y4Y |
| 0259 251152 2002-10-01 | UPPER MANNVILLE Z4Z |
| 0259 251501 2002-11-01 | UPPER MANNVILLE A5A |
| 0259 251502 2003-07-01 | UPPER MANNVILLE B5B |
| 0259 251503 2010-04-01 | UPPER MANNVILLE C5C |
| 0259 251505 2002-12-01 | UPPER MANNVILLE E5E |
| 0259 251506 2003-01-01 | UPPER MANNVILLE F5F |
| 0259 251508 2003-02-01 | UPPER MANNVILLE H5H |
| 0259 251509 2003-02-01 | UPPER MANNVILLE I5I |
| 0259 251510 2003-02-01 | UPPER MANNVILLE J5J |
| 0259 251512 2003-09-01 | UPPER MANNVILLE L5L |
| 0259 251513 2010-04-01 | UPPER MANNVILLE M5M |
| 0259 251514 2003-09-01 | UPPER MANNVILLE N5N |
| 0259 251515 2010-04-01 | UPPER MANNVILLE O5O |
| 0259 251516 2003-05-01 | UPPER MANNVILLE P5P |
| 0259 251517 2003-05-01 | UPPER MANNVILLE Q5Q |
| 0259 251518 2003-09-01 | UPPER MANNVILLE R5R |
| 0259 251519 2003-05-01 | UPPER MANNVILLE S5S |
| 0259 251520 2003-06-01 | UPPER MANNVILLE T5T |
| 0259 251521 2003-12-01 | UPPER MANNVILLE U5U |
| 0259 251522 2003-06-01 | UPPER MANNVILLE V5V |
| 0259 251523 2010-04-01 | UPPER MANNVILLE W5W |
| 0259 251524 2003-10-01 | UPPER MANNVILLE X5X |
| 0259 251525 2003-12-01 | UPPER MANNVILLE Y5Y |
| 0259 251526 2003-07-01 | UPPER MANNVILLE Z5Z |
| 0259 251528 2010-04-01 | UPPER MANNVILLE B6B |
| 0259 251529 2010-04-01 | UPPER MANNVILLE C6C |
| 0259 251530 2003-08-01 | UPPER MANNVILLE D6D |
| 0259 251531 2003-09-01 | UPPER MANNVILLE E6E |
| 0259 251532 2003-09-01 | UPPER MANNVILLE F6F |
| 0259 251533 2003-09-01 | UPPER MANNVILLE G6G |
| 0259 251535 2010-04-01 | UPPER MANNVILLE I6I |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0259 251537 2004-03-01 | UPPER MANNVILLE K6K |
| 0259 251538 2003-12-01 | UPPER MANNVILLE L6L |
| 0259 251539 2008-12-01 | UPPER MANNVILLE M6M |
| 0259 251540 2003-12-01 | UPPER MANNVILLE N6N |
| 0259 251541 2003-12-01 | UPPER MANNVILLE O6O |
| 0259 251542 2010-04-01 | UPPER MANNVILLE P6P |
| 0259 251543 2010-04-01 | UPPER MANNVILLE Q6Q |
| 0259 251544 2010-04-01 | UPPER MANNVILLE R6R |
| 0259 251545 2010-04-01 | UPPER MANNVILLE S6S |
| 0259 251546 2010-04-01 | UPPER MANNVILLE T6T |
| 0259 251547 2010-04-01 | UPPER MANNVILLE U6U |
| 0259 251548 2010-04-01 | UPPER MANNVILLE V6V |
| 0259 251549 2010-04-01 | UPPER MANNVILLE W6W |
| 0259 251551 2010-04-01 | UPPER MANNVILLE Y6Y |
| 0259 251552 2004-05-01 | UPPER MANNVILLE Z6Z |
| 0259 251902 2010-04-01 | UPPER MANNVILLE B7B |
| 0259 251903 2009-10-01 | UPPER MANNVILLE C7C |
| 0259 251904 2010-04-01 | UPPER MANNVILLE D7D |
| 0259 251905 2004-07-01 | UPPER MANNVILLE E7E |
| 0259 251906 2004-07-01 | UPPER MANNVILLE F7F |
| 0259 251907 2004-05-01 | UPPER MANNVILLE G7G |
| 0259 251909 2004-05-01 | UPPER MANNVILLE I7I |
| 0259 251910 2010-04-01 | UPPER MANNVILLE J7J |
| 0259 251911 2010-04-01 | UPPER MANNVILLE K7K |
| 0259 251912 2010-04-01 | UPPER MANNVILLE L7L |
| 0259 251913 2004-06-01 | UPPER MANNVILLE M7M |
| 0259 251914 2004-07-01 | UPPER MANNVILLE N7N |
| 0259 251915 2010-04-01 | UPPER MANNVILLE O7O |
| 0259 251916 2010-04-01 | UPPER MANNVILLE P7P |
| 0259 251917 2012-03-01 | UPPER MANNVILLE Q7Q |
| 0259 251918 2010-04-01 | UPPER MANNVILLE R7R |
| 0259 251919 2010-04-01 | UPPER MANNVILLE S7S |
| 0259 251920 2010-04-01 | UPPER MANNVILLE T7T |
| 0259 251921 2004-09-01 | UPPER MANNVILLE U7U |
| 0259 251922 2010-04-01 | UPPER MANNVILLE V7V |
| 0259 251923 2010-04-01 | UPPER MANNVILLE W7W |
| 0259 251924 2007-05-01 | UPPER MANNVILLE X7X |
| 0259 251925 2004-12-01 | UPPER MANNVILLE Y7Y |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0259 251927 2010-04-01 | UPPER MANNVILLE A8A |
| 0259 251928 2010-04-01 | UPPER MANNVILLE B8B |
| 0259 251930 2010-04-01 | UPPER MANNVILLE D8D |
| 0259 251931 2010-04-01 | UPPER MANNVILLE E8E |
| 0259 251932 2010-04-01 | UPPER MANNVILLE F8F |
| 0259 251933 2014-12-01 | UPPER MANNVILLE G8G |
| 0259 251934 2005-02-01 | UPPER MANNVILLE H8H |
| 0259 251935 2010-04-01 | UPPER MANNVILLE I8I |
| 0259 251936 2010-04-01 | UPPER MANNVILLE J8J |
| 0259 251937 2010-04-01 | UPPER MANNVILLE K8K |
| 0259 251938 2005-02-01 | UPPER MANNVILLE L8L |
| 0259 251939 2005-03-01 | UPPER MANNVILLE M8M |
| 0259 251940 2010-04-01 | UPPER MANNVILLE N8N |
| 0259 251941 2010-04-01 | UPPER MANNVILLE O8O |
| 0259 251942 2010-04-01 | UPPER MANNVILLE P8P |
| 0259 251943 2010-04-01 | UPPER MANNVILLE Q8Q |
| 0259 251944 2010-04-01 | UPPER MANNVILLE R8R |
| 0259 251945 2010-04-01 | UPPER MANNVILLE S8S |
| 0259 251946 2010-04-01 | UPPER MANNVILLE T8T |
| 0259 251947 2010-04-01 | UPPER MANNVILLE U8U |
| 0259 251948 2010-04-01 | UPPER MANNVILLE V8V |
| 0259 251950 2005-12-01 | UPPER MANNVILLE X8X |
| 0259 251951 2005-10-01 | UPPER MANNVILLE Y8Y |
| 0259 251952 2013-07-01 | UPPER MANNVILLE Z8Z |
| 0259 253001 2010-04-01 | UPPER MANNVILLE A9A |
| 0259 253002 2012-02-01 | UPPER MANNVILLE B9B |
| 0259 253003 2010-04-01 | UPPER MANNVILLE C9C |
| 0259 253006 2010-04-01 | UPPER MANNVILLE F9F |
| 0259 253007 2010-04-01 | UPPER MANNVILLE G9G |
| 0259 253008 2006-02-01 | UPPER MANNVILLE H9H |
| 0259 253009 2010-04-01 | UPPER MANNVILLE I9I |
| 0259 253010 2010-04-01 | UPPER MANNVILLE J9J |
| 0259 253011 2006-03-01 | UPPER MANNVILLE K9K |
| 0259 253012 2006-03-01 | UPPER MANNVILLE L9L |
| 0259 253013 2010-04-01 | UPPER MANNVILLE M9M |
| 0259 253014 2006-03-01 | UPPER MANNVILLE N9N |
| 0259 253015 2006-03-01 | UPPER MANNVILLE O9O |
| 0259 253016 2006-03-01 | UPPER MANNVILLE P9P |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 253017 2006-03-01 | UPPER MANNVILLE Q9Q |
| 0259 253018 2010-04-01 | UPPER MANNVILLE R9R |
| 0259 253019 2006-03-01 | UPPER MANNVILLE S9S |
| 0259 253020 2010-04-01 | UPPER MANNVILLE T9T |
| 0259 253021 2006-03-01 | UPPER MANNVILLE U9U |
| 0259 253022 2006-03-01 | UPPER MANNVILLE V9V |
| 0259 253023 2006-03-01 | UPPER MANNVILLE W9W |
| 0259 253024 2006-03-01 | UPPER MANNVILLE X9X |
| 0259 253025 2006-03-01 | UPPER MANNVILLE Y9Y |
| 0259 253026 2006-03-01 | UPPER MANNVILLE Z9Z |
| 0259 253027 2006-03-01 | UPPER MANNVILLE A10A |
| 0259 253028 2006-03-01 | UPPER MANNVILLE B10B |
| 0259 253029 2006-03-01 | UPPER MANNVILLE C10C |
| 0259 253030 2006-03-01 | UPPER MANNVILLE D10D |
| 0259 253032 2006-03-01 | UPPER MANNVILLE F10F |
| 0259 253033 2006-03-01 | UPPER MANNVILLE G10G |
| 0259 253034 2010-04-01 | UPPER MANNVILLE H10H |
| 0259 253035 2010-04-01 | UPPER MANNVILLE I10I |
| 0259 253036 2006-03-01 | UPPER MANNVILLE J10J |
| 0259 253037 2006-03-01 | UPPER MANNVILLE K10K |
| 0259 253038 2006-03-01 | UPPER MANNVILLE L10L |
| 0259 253039 2010-04-01 | UPPER MANNVILLE M10M |
| 0259 253040 2006-03-01 | UPPER MANNVILLE N10N |
| 0259 253041 2006-03-01 | UPPER MANNVILLE O10O |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 253042 2006-03-01 | UPPER MANNVILLE P10P |
| 0259 253043 2006-03-01 | UPPER MANNVILLE Q10Q |
| 0259 253044 2006-03-01 | UPPER MANNVILLE R10R |
| 0259 253045 2006-03-01 | UPPER MANNVILLE S10S |
| 0259 253046 2010-04-01 | UPPER MANNVILLE T10T |
| 0259 253047 2010-04-01 | UPPER MANNVILLE U10U |
| 0259 253048 2006-03-01 | UPPER MANNVILLE V10V |
| 0259 253049 2010-04-01 | UPPER MANNVILLE W10W |
| 0259 253050 2006-03-01 | UPPER MANNVILLE X10X |
| 0259 253051 2010-04-01 | UPPER MANNVILLE Y10Y |
| 0259 253052 2006-03-01 | UPPER MANNVILLE Z10Z |
| 0259 254101 2012-06-01 | UPPER MANNVILLE A11A |
| 0259 254102 2012-06-01 | UPPER MANNVILLE B11B |
| 0259 254103 2006-05-01 | UPPER MANNVILLE C11C |
| 0259 254104 2006-05-01 | UPPER MANNVILLE D11D |
| 0259 254105 2013-02-01 | UPPER MANNVILLE E11E |
| 0259 254107 2012-06-01 | UPPER MANNVILLE G11G |
| 0259 254108 2012-06-01 | UPPER MANNVILLE H11H |
| 0259 254109 2012-06-01 | UPPER MANNVILLE I11I |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 254110 2012-06-01 | UPPER MANNVILLE J11J |
| 0259 254111 2012-06-01 | UPPER MANNVILLE K11K |
| 0259 254112 2012-06-01 | UPPER MANNVILLE L11L |
| 0259 254113 2012-06-01 | UPPER MANNVILLE M11M |
| 0259 254115 2012-06-01 | UPPER MANNVILLE O11O |
| 0259 254116 2012-06-01 | UPPER MANNVILLE P11P |
| 0259 254117 2012-06-01 | UPPER MANNVILLE Q11Q |
| 0259 254118 2012-06-01 | UPPER MANNVILLE R11R |
| 0259 254119 2012-06-01 | UPPER MANNVILLE S11S |
| 0259 254120 2012-06-01 | UPPER MANNVILLE T11T |
| 0259 254121 2010-04-01 | UPPER MANNVILLE U11U |
| 0259 254122 2012-06-01 | UPPER MANNVILLE V11V |
| 0259 254124 2012-06-01 | UPPER MANNVILLE X11X |
| 0259 254125 2012-06-01 | UPPER MANNVILLE Y11Y |
| 0259 254126 2012-06-01 | UPPER MANNVILLE Z11Z |
| 0259 254127 2012-06-01 | UPPER MANNVILLE A12A |
| 0259 254128 2012-06-01 | UPPER MANNVILLE B12B |
| 0259 254129 2012-06-01 | UPPER MANNVILLE C12C |
| 0259 254131 2012-06-01 | UPPER MANNVILLE E12E |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 254132 2012-06-01 | UPPER MANNVILLE F12F |
| 0259 254133 2012-06-01 | UPPER MANNVILLE G12G |
| 0259 254134 2012-06-01 | UPPER MANNVILLE H12H |
| 0259 254135 2012-06-01 | UPPER MANNVILLE I12I |
| 0259 254136 2012-06-01 | UPPER MANNVILLE J12J |
| 0259 254137 2010-04-01 | UPPER MANNVILLE K12K |
| 0259 254138 2012-06-01 | UPPER MANNVILLE L12L |
| 0259 254139 2012-06-01 | UPPER MANNVILLE M12M |
| 0259 254141 2012-06-01 | UPPER MANNVILLE O12O |
| 0259 254142 2012-06-01 | UPPER MANNVILLE P12P |
| 0259 254144 2012-06-01 | UPPER MANNVILLE R12R |
| 0259 254145 2012-06-01 | UPPER MANNVILLE S12S |
| 0259 254146 2012-06-01 | UPPER MANNVILLE T12T |
| 0259 254147 2012-06-01 | UPPER MANNVILLE U12U |
| 0259 254148 2012-02-01 | UPPER MANNVILLE V12V |
| 0259 254149 2012-06-01 | UPPER MANNVILLE W12W |
| 0259 254204 2008-02-01 | UPPER MANNVILLE D13D |
| 0259 254205 2008-02-01 | UPPER MANNVILLE E13E |
| 0259 254207 2008-02-01 | UPPER MANNVILLE G13G |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 254208 2008-02-01 | UPPER MANNVILLE H13H |
| 0259 254209 2008-02-01 | UPPER MANNVILLE I13I |
| 0259 254210 2008-02-01 | UPPER MANNVILLE J13J |
| 0259 254211 2008-02-01 | UPPER MANNVILLE K13K |
| 0259 254212 2008-02-01 | UPPER MANNVILLE L13L |
| 0259 254213 2008-02-01 | UPPER MANNVILLE M13M |
| 0259 254216 2010-04-01 | UPPER MANNVILLE P13P |
| 0259 254218 2008-02-01 | UPPER MANNVILLE R13R |
| 0259 254219 2008-03-01 | UPPER MANNVILLE S13S |
| 0259 254220 2008-03-01 | UPPER MANNVILLE T13T |
| 0259 254221 2008-03-01 | UPPER MANNVILLE U13U |
| 0259 254222 2008-03-01 | UPPER MANNVILLE V13V |
| 0259 254223 2010-04-01 | UPPER MANNVILLE W13W |
| 0259 254224 2008-03-01 | UPPER MANNVILLE X13X |
| 0259 254225 2008-03-01 | UPPER MANNVILLE Y13Y |
| 0259 254226 2008-03-01 | UPPER MANNVILLE Z13Z |
| 0259 254227 2008-03-01 | UPPER MANNVILLE A14A |
| 0259 254228 2010-04-01 | UPPER MANNVILLE B14B |
| 0259 254229 2008-03-01 | UPPER MANNVILLE C14C |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 254234 2008-03-01 | UPPER MANNVILLE H14H |
| 0259 254235 2008-03-01 | UPPER MANNVILLE I14I |
| 0259 254237 2008-04-01 | UPPER MANNVILLE K14K |
| 0259 254240 2008-05-01 | UPPER MANNVILLE N14N |
| 0259 254241 2008-11-01 | UPPER MANNVILLE O14O |
| 0259 254242 2008-05-01 | UPPER MANNVILLE P14P |
| 0259 254243 2012-01-01 | UPPER MANNVILLE Q14Q |
| 0259 254244 2012-01-01 | UPPER MANNVILLE R14R |
| 0259 254246 2010-04-01 | UPPER MANNVILLE T14T |
| 0259 254247 2008-06-01 | UPPER MANNVILLE U14U |
| 0259 254249 2010-04-01 | UPPER MANNVILLE W14W |
| 0259 254250 2008-07-01 | UPPER MANNVILLE X14X |
| 0259 254251 2008-07-01 | UPPER MANNVILLE Y14Y |
| 0259 254252 2008-07-01 | UPPER MANNVILLE Z14Z |
| 0259 256101 2008-10-01 | UPPER MANNVILLE A15A |
| 0259 256102 2008-10-01 | UPPER MANNVILLE B15B |
| 0259 256103 2010-04-01 | UPPER MANNVILLE C15C |
| 0259 256104 2008-11-01 | UPPER MANNVILLE D15D |
| 0259 256109 2008-11-01 | UPPER MANNVILLE I15I |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 256110 2010-04-01 | UPPER MANNVILLE J15J |
| 0259 256111 2008-11-01 | UPPER MANNVILLE K15K |
| 0259 256112 2008-11-01 | UPPER MANNVILLE L15L |
| 0259 256113 2008-11-01 | UPPER MANNVILLE M15M |
| 0259 256115 2008-12-01 | UPPER MANNVILLE O15O |
| 0259 256116 2008-12-01 | UPPER MANNVILLE P15P |
| 0259 256117 2010-04-01 | UPPER MANNVILLE Q15Q |
| 0259 256118 2008-12-01 | UPPER MANNVILLE R15R |
| 0259 256119 2008-12-01 | UPPER MANNVILLE S15S |
| 0259 256121 2015-01-01 | UPPER MANNVILLE U15U |
| 0259 256122 2010-04-01 | UPPER MANNVILLE V15V |
| 0259 256123 2009-01-01 | UPPER MANNVILLE W15W |
| 0259 256125 2009-03-01 | UPPER MANNVILLE Y15Y |
| 0259 256127 2010-04-01 | UPPER MANNVILLE A16A |
| 0259 256130 2009-04-01 | UPPER MANNVILLE D16D |
| 0259 256131 2009-04-01 | UPPER MANNVILLE E16E |
| 0259 256134 2009-05-01 | UPPER MANNVILLE H16H |
| 0259 256135 2009-05-01 | UPPER MANNVILLE I16I |
| 0259 256138 2009-05-01 | UPPER MANNVILLE L16L |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 256139 2009-05-01 | UPPER MANNVILLE M16M |
| 0259 256140 2009-05-01 | UPPER MANNVILLE N16N |
| 0259 256141 2009-05-01 | UPPER MANNVILLE O16O |
| 0259 256142 2009-05-01 | UPPER MANNVILLE P16P |
| 0259 256143 2010-04-01 | UPPER MANNVILLE Q16Q |
| 0259 256144 2009-06-01 | UPPER MANNVILLE R16R |
| 0259 256147 2009-06-01 | UPPER MANNVILLE U16U |
| 0259 256148 2009-06-01 | UPPER MANNVILLE V16V |
| 0259 256149 2009-06-01 | UPPER MANNVILLE W16W |
| 0259 256150 2010-04-01 | UPPER MANNVILLE X16X |
| 0259 256151 2011-12-01 | UPPER MANNVILLE Y16Y |
| 0259 256152 2009-07-01 | UPPER MANNVILLE Z16Z |
| 0259 259102 2009-08-01 | UPPER MANNVILLE B17B |
| 0259 259107 2009-09-01 | UPPER MANNVILLE G17G |
| 0259 259108 2009-09-01 | UPPER MANNVILLE H17H |
| 0259 259109 2009-09-01 | UPPER MANNVILLE I17I |
| 0259 259110 2009-09-01 | UPPER MANNVILLE J17J |
| 0259 259111 2009-09-01 | UPPER MANNVILLE K17K |
| 0259 259112 2010-04-01 | UPPER MANNVILLE L17L |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259113 2010-04-01 | UPPER MANNVILLE M17M |
| 0259 259114 2010-04-01 | UPPER MANNVILLE N17N |
| 0259 259115 2009-10-01 | UPPER MANNVILLE O17O |
| 0259 259116 2009-11-01 | UPPER MANNVILLE P17P |
| 0259 259117 2012-04-01 | UPPER MANNVILLE Q17Q |
| 0259 259118 2009-11-01 | UPPER MANNVILLE R17R |
| 0259 259119 2012-04-01 | UPPER MANNVILLE S17S |
| 0259 259120 2009-11-01 | UPPER MANNVILLE T17T |
| 0259 259121 2009-11-01 | UPPER MANNVILLE U17U |
| 0259 259122 2009-11-01 | UPPER MANNVILLE V17V |
| 0259 259123 2009-11-01 | UPPER MANNVILLE W17W |
| 0259 259124 2009-11-01 | UPPER MANNVILLE X17X |
| 0259 259125 2009-11-01 | UPPER MANNVILLE Y17Y |
| 0259 259126 2010-05-01 | UPPER MANNVILLE Z17Z |
| 0259 259129 2010-04-01 | UPPER MANNVILLE C18C |
| 0259 259130 2011-12-01 | UPPER MANNVILLE D18D |
| 0259 259131 2010-04-01 | UPPER MANNVILLE E18E |
| 0259 259132 2010-04-01 | UPPER MANNVILLE F18F |
| 0259 259133 2010-04-01 | UPPER MANNVILLE G18G |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259134 2010-04-01 | UPPER MANNVILLE H18H |
| 0259 259135 2009-11-01 | UPPER MANNVILLE I18I |
| 0259 259137 2009-11-01 | UPPER MANNVILLE K18K |
| 0259 259140 2010-04-01 | UPPER MANNVILLE N18N |
| 0259 259141 2010-04-01 | UPPER MANNVILLE O18O |
| 0259 259142 2009-11-01 | UPPER MANNVILLE P18P |
| 0259 259143 2009-11-01 | UPPER MANNVILLE Q18Q |
| 0259 259144 2009-11-01 | UPPER MANNVILLE R18R |
| 0259 259145 2009-11-01 | UPPER MANNVILLE S18S |
| 0259 259146 2009-12-01 | UPPER MANNVILLE T18T |
| 0259 259147 2009-12-01 | UPPER MANNVILLE U18U |
| 0259 259148 2010-01-01 | UPPER MANNVILLE V18V |
| 0259 259149 2010-02-01 | UPPER MANNVILLE W18W |
| 0259 259150 2010-02-01 | UPPER MANNVILLE X18X |
| 0259 259151 2010-04-01 | UPPER MANNVILLE Y18Y |
| 0259 259152 2010-03-01 | UPPER MANNVILLE Z18Z |
| 0259 259201 2010-04-01 | UPPER MANNVILLE A19A |
| 0259 259202 2010-04-01 | UPPER MANNVILLE B19B |
| 0259 259203 2010-04-01 | UPPER MANNVILLE C19C |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259204 2010-03-01 | UPPER MANNVILLE D19D |
| 0259 259205 2010-04-01 | UPPER MANNVILLE E19E |
| 0259 259206 2010-03-01 | UPPER MANNVILLE F19F |
| 0259 259207 2010-03-01 | UPPER MANNVILLE G19G |
| 0259 259208 2010-12-01 | UPPER MANNVILLE H19H |
| 0259 259209 2010-04-01 | UPPER MANNVILLE I19I |
| 0259 259210 2010-04-01 | UPPER MANNVILLE J19J |
| 0259 259211 2010-05-01 | UPPER MANNVILLE K19K |
| 0259 259212 2010-12-01 | UPPER MANNVILLE L19L |
| 0259 259213 2010-05-01 | UPPER MANNVILLE M19M |
| 0259 259214 2010-05-01 | UPPER MANNVILLE N19N |
| 0259 259215 2010-05-01 | UPPER MANNVILLE O19O |
| 0259 259216 2010-06-01 | UPPER MANNVILLE P19P |
| 0259 259217 2010-06-01 | UPPER MANNVILLE Q19Q |
| 0259 259218 2010-06-01 | UPPER MANNVILLE R19R |
| 0259 259219 2010-06-01 | UPPER MANNVILLE S19S |
| 0259 259220 2010-06-01 | UPPER MANNVILLE T19T |
| 0259 259221 2010-07-01 | UPPER MANNVILLE U19U |
| 0259 259222 2010-07-01 | UPPER MANNVILLE V19V |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259223 2010-07-01 | UPPER MANNVILLE W19W |
| 0259 259224 2014-08-01 | UPPER MANNVILLE X19X |
| 0259 259225 2010-10-01 | UPPER MANNVILLE Y19Y |
| 0259 259226 2010-11-01 | UPPER MANNVILLE Z19Z |
| 0259 259227 2010-12-01 | UPPER MANNVILLE A20A |
| 0259 259228 2010-12-01 | UPPER MANNVILLE B20B |
| 0259 259229 2011-02-01 | UPPER MANNVILLE C20C |
| 0259 259230 2011-02-01 | UPPER MANNVILLE D20D |
| 0259 259232 2011-03-01 | UPPER MANNVILLE F20F |
| 0259 259233 2011-04-01 | UPPER MANNVILLE G20G |
| 0259 259234 2011-04-01 | UPPER MANNVILLE H20H |
| 0259 259235 2011-04-01 | UPPER MANNVILLE I20I |
| 0259 259236 2012-04-01 | UPPER MANNVILLE J20J |
| 0259 259237 2011-05-01 | UPPER MANNVILLE K20K |
| 0259 259238 2014-09-01 | UPPER MANNVILLE L20L |
| 0259 259239 2011-06-01 | UPPER MANNVILLE M20M |
| 0259 259240 2011-06-01 | UPPER MANNVILLE N20N |
| 0259 259241 2011-06-01 | UPPER MANNVILLE O20O |
| 0259 259242 2011-12-01 | UPPER MANNVILLE P20P |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|----------------------|
| 0259 259243 | 2011-12-01 | UPPER MANNVILLE Q20Q |
| 0259 259244 | 2013-02-01 | UPPER MANNVILLE R20R |
| 0259 259245 | 2011-08-01 | UPPER MANNVILLE S20S |
| 0259 259246 | 2011-08-01 | UPPER MANNVILLE T20T |
| 0259 259247 | 2011-08-01 | UPPER MANNVILLE U20U |
| 0259 259248 | 2011-12-01 | UPPER MANNVILLE V20V |
| 0259 259249 | 2011-08-01 | UPPER MANNVILLE W20W |
| 0259 259250 | 2011-08-01 | UPPER MANNVILLE X20X |
| 0259 259251 | 2011-09-01 | UPPER MANNVILLE Y20Y |
| 0259 259252 | 2012-11-01 | UPPER MANNVILLE Z20Z |
| 0259 259301 | 2014-10-01 | UPPER MANNVILLE A21A |
| 0259 259302 | 2012-11-01 | UPPER MANNVILLE B21B |
| 0259 259303 | 2011-10-01 | UPPER MANNVILLE C21C |
| 0259 259304 | 2011-12-01 | UPPER MANNVILLE D21D |
| 0259 259305 | 2011-12-01 | UPPER MANNVILLE E21E |
| 0259 259306 | 2011-10-01 | UPPER MANNVILLE F21F |
| 0259 259307 | 2011-10-01 | UPPER MANNVILLE G21G |
| 0259 259308 | 2011-12-01 | UPPER MANNVILLE H21H |
| 0259 259309 | 2011-10-01 | UPPER MANNVILLE I21I |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|----------------------|
| 0259 259310 | 2011-10-01 | UPPER MANNVILLE J21J |
| 0259 259311 | 2011-10-01 | UPPER MANNVILLE K21K |
| 0259 259312 | 2011-10-01 | UPPER MANNVILLE L21L |
| 0259 259313 | 2011-10-01 | UPPER MANNVILLE M21M |
| 0259 259314 | 2011-10-01 | UPPER MANNVILLE N21N |
| 0259 259315 | 2011-12-01 | UPPER MANNVILLE O21O |
| 0259 259316 | 2011-10-01 | UPPER MANNVILLE P21P |
| 0259 259317 | 2013-05-01 | UPPER MANNVILLE Q21Q |
| 0259 259318 | 2015-04-01 | UPPER MANNVILLE R21R |
| 0259 259319 | 2011-10-01 | UPPER MANNVILLE S21S |
| 0259 259320 | 2011-10-01 | UPPER MANNVILLE T21T |
| 0259 259321 | 2011-11-01 | UPPER MANNVILLE U21U |
| 0259 259322 | 2011-11-01 | UPPER MANNVILLE V21V |
| 0259 259323 | 2011-11-01 | UPPER MANNVILLE W21W |
| 0259 259324 | 2011-12-01 | UPPER MANNVILLE X21X |
| 0259 259325 | 2011-12-01 | UPPER MANNVILLE Y21Y |
| 0259 259326 | 2011-11-01 | UPPER MANNVILLE Z21Z |
| 0259 259327 | 2011-11-01 | UPPER MANNVILLE A22A |
| 0259 259328 | 2013-11-01 | UPPER MANNVILLE B22B |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259329 2013-11-01 | UPPER MANNVILLE C22C |
| 0259 259330 2011-12-01 | UPPER MANNVILLE D22D |
| 0259 259331 2011-12-01 | UPPER MANNVILLE E22E |
| 0259 259332 2011-12-01 | UPPER MANNVILLE F22F |
| 0259 259333 2012-08-01 | UPPER MANNVILLE G22G |
| 0259 259334 2012-01-01 | UPPER MANNVILLE H22H |
| 0259 259335 2012-01-01 | UPPER MANNVILLE I22I |
| 0259 259336 2012-01-01 | UPPER MANNVILLE J22J |
| 0259 259337 2012-01-01 | UPPER MANNVILLE K22K |
| 0259 259338 2012-02-01 | UPPER MANNVILLE L22L |
| 0259 259339 2012-12-01 | UPPER MANNVILLE M22M |
| 0259 259340 2012-04-01 | UPPER MANNVILLE N22N |
| 0259 259342 2012-04-01 | UPPER MANNVILLE P22P |
| 0259 259343 2017-04-01 | UPPER MANNVILLE Q22Q |
| 0259 259344 2012-04-01 | UPPER MANNVILLE R22R |
| 0259 259345 2012-05-01 | UPPER MANNVILLE S22S |
| 0259 259346 2013-02-01 | UPPER MANNVILLE T22T |
| 0259 259347 2013-02-01 | UPPER MANNVILLE U22U |
| 0259 259348 2012-12-01 | UPPER MANNVILLE V22V |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259349 2013-01-01 | UPPER MANNVILLE W22W |
| 0259 259350 2013-02-01 | UPPER MANNVILLE X22X |
| 0259 259351 2013-02-01 | UPPER MANNVILLE Y22Y |
| 0259 259401 2012-07-01 | UPPER MANNVILLE A23A |
| 0259 259402 2012-08-01 | UPPER MANNVILLE B23B |
| 0259 259403 2012-08-01 | UPPER MANNVILLE C23C |
| 0259 259404 2013-07-01 | UPPER MANNVILLE D23D |
| 0259 259405 2017-06-01 | UPPER MANNVILLE E23E |
| 0259 259406 2013-02-01 | UPPER MANNVILLE F23F |
| 0259 259407 2015-06-01 | UPPER MANNVILLE G23G |
| 0259 259408 2013-03-01 | UPPER MANNVILLE H23H |
| 0259 259410 2013-04-01 | UPPER MANNVILLE J23J |
| 0259 259411 2013-06-01 | UPPER MANNVILLE K23K |
| 0259 259412 2013-07-01 | UPPER MANNVILLE L23L |
| 0259 259413 2013-08-01 | UPPER MANNVILLE M23M |
| 0259 259414 2013-08-01 | UPPER MANNVILLE N23N |
| 0259 259415 2013-08-01 | UPPER MANNVILLE O23O |
| 0259 259416 2013-08-01 | UPPER MANNVILLE P23P |
| 0259 259417 2013-10-01 | UPPER MANNVILLE Q23Q |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259418 2013-10-01 | UPPER MANNVILLE R23R |
| 0259 259419 2013-10-01 | UPPER MANNVILLE S23S |
| 0259 259420 2013-10-01 | UPPER MANNVILLE T23T |
| 0259 259421 2013-10-01 | UPPER MANNVILLE U23U |
| 0259 259422 2013-10-01 | UPPER MANNVILLE V23V |
| 0259 259424 2014-09-01 | UPPER MANNVILLE X23X |
| 0259 259425 2014-03-01 | UPPER MANNVILLE Y23Y |
| 0259 259426 2017-11-01 | UPPER MANNVILLE Z23Z |
| 0259 259427 2014-11-01 | UPPER MANNVILLE A24A |
| 0259 259428 2014-11-01 | UPPER MANNVILLE B24B |
| 0259 259429 2015-04-01 | UPPER MANNVILLE C24C |
| 0259 259430 2015-04-01 | UPPER MANNVILLE D24D |
| 0259 259431 2015-04-01 | UPPER MANNVILLE E24E |
| 0259 259432 2015-04-01 | UPPER MANNVILLE F24F |
| 0259 259433 2015-04-01 | UPPER MANNVILLE G24G |
| 0259 259434 2015-04-01 | UPPER MANNVILLE H24H |
| 0259 259435 2015-04-01 | UPPER MANNVILLE I24I |
| 0259 259436 2015-04-01 | UPPER MANNVILLE J24J |
| 0259 259437 2015-04-01 | UPPER MANNVILLE K24K |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259438 2015-06-01 | UPPER MANNVILLE L24L |
| 0259 259439 2015-06-01 | UPPER MANNVILLE M24M |
| 0259 259440 2015-06-01 | UPPER MANNVILLE N24N |
| 0259 259441 2015-06-01 | UPPER MANNVILLE O24O |
| 0259 259442 2015-06-01 | UPPER MANNVILLE P24P |
| 0259 259443 2015-06-01 | UPPER MANNVILLE Q24Q |
| 0259 259444 2015-06-01 | UPPER MANNVILLE R24R |
| 0259 259445 2015-06-01 | UPPER MANNVILLE S24S |
| 0259 259446 2015-06-01 | UPPER MANNVILLE T24T |
| 0259 259447 2015-06-01 | UPPER MANNVILLE U24U |
| 0259 259448 2015-06-01 | UPPER MANNVILLE V24V |
| 0259 259449 2015-06-01 | UPPER MANNVILLE W24W |
| 0259 259450 2015-06-01 | UPPER MANNVILLE X24X |
| 0259 259451 2015-06-01 | UPPER MANNVILLE Y24Y |
| 0259 259452 2015-06-01 | UPPER MANNVILLE Z24Z |
| 0259 259501 2015-06-01 | UPPER MANNVILLE A25A |
| 0259 259502 2015-06-01 | UPPER MANNVILLE B25B |
| 0259 259503 2015-06-01 | UPPER MANNVILLE C25C |
| 0259 259504 2015-06-01 | UPPER MANNVILLE D25D |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259505 2015-06-01 | UPPER MANNVILLE E25E |
| 0259 259506 2015-06-01 | UPPER MANNVILLE F25F |
| 0259 259507 2015-06-01 | UPPER MANNVILLE G25G |
| 0259 259508 2015-06-01 | UPPER MANNVILLE H25H |
| 0259 259509 2015-06-01 | UPPER MANNVILLE I25I |
| 0259 259510 2015-06-01 | UPPER MANNVILLE J25J |
| 0259 259511 2015-06-01 | UPPER MANNVILLE K25K |
| 0259 259512 2015-06-01 | UPPER MANNVILLE L25L |
| 0259 259513 2015-06-01 | UPPER MANNVILLE M25M |
| 0259 259514 2015-06-01 | UPPER MANNVILLE N25N |
| 0259 259515 2015-06-01 | UPPER MANNVILLE O25O |
| 0259 259516 2015-06-01 | UPPER MANNVILLE P25P |
| 0259 259517 2015-06-01 | UPPER MANNVILLE Q25Q |
| 0259 259518 2015-06-01 | UPPER MANNVILLE R25R |
| 0259 259519 2015-06-01 | UPPER MANNVILLE S25S |
| 0259 259520 2015-06-01 | UPPER MANNVILLE T25T |
| 0259 259521 2015-06-01 | UPPER MANNVILLE U25U |
| 0259 259522 2015-06-01 | UPPER MANNVILLE V25V |
| 0259 259523 2015-06-01 | UPPER MANNVILLE W25W |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259524 2015-06-01 | UPPER MANNVILLE X25X |
| 0259 259525 2015-06-01 | UPPER MANNVILLE Y25Y |
| 0259 259526 2015-06-01 | UPPER MANNVILLE Z25Z |
| 0259 259527 2015-06-01 | UPPER MANNVILLE A26A |
| 0259 259528 2015-06-01 | UPPER MANNVILLE B26B |
| 0259 259529 2015-06-01 | UPPER MANNVILLE C26C |
| 0259 259530 2015-06-01 | UPPER MANNVILLE D26D |
| 0259 259531 2016-03-01 | UPPER MANNVILLE E26E |
| 0259 259532 2015-06-01 | UPPER MANNVILLE F26F |
| 0259 259533 2015-06-01 | UPPER MANNVILLE G26G |
| 0259 259534 2015-06-01 | UPPER MANNVILLE H26H |
| 0259 259535 2015-06-01 | UPPER MANNVILLE I26I |
| 0259 259536 2015-06-01 | UPPER MANNVILLE J26J |
| 0259 259537 2015-06-01 | UPPER MANNVILLE K26K |
| 0259 259538 2015-06-01 | UPPER MANNVILLE L26L |
| 0259 259539 2015-06-01 | UPPER MANNVILLE M26M |
| 0259 259540 2015-06-01 | UPPER MANNVILLE N26N |
| 0259 259541 2015-06-01 | UPPER MANNVILLE O26O |
| 0259 259542 2015-06-01 | UPPER MANNVILLE P26P |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259543 2015-06-01 | UPPER MANNVILLE Q26Q |
| 0259 259544 2015-06-01 | UPPER MANNVILLE R26R |
| 0259 259545 2015-06-01 | UPPER MANNVILLE S26S |
| 0259 259546 2015-06-01 | UPPER MANNVILLE T26T |
| 0259 259547 2015-06-01 | UPPER MANNVILLE U26U |
| 0259 259548 2015-06-01 | UPPER MANNVILLE V26V |
| 0259 259549 2015-06-01 | UPPER MANNVILLE W26W |
| 0259 259550 2015-06-01 | UPPER MANNVILLE X26X |
| 0259 259551 2015-06-01 | UPPER MANNVILLE Y26Y |
| 0259 259552 2015-06-01 | UPPER MANNVILLE Z26Z |
| 0259 259601 2015-06-01 | UPPER MANNVILLE A27A |
| 0259 259602 2015-06-01 | UPPER MANNVILLE B27B |
| 0259 259603 2015-06-01 | UPPER MANNVILLE C27C |
| 0259 259604 2015-06-01 | UPPER MANNVILLE D27D |
| 0259 259605 2015-06-01 | UPPER MANNVILLE E27E |
| 0259 259606 2015-06-01 | UPPER MANNVILLE F27F |
| 0259 259607 2015-06-01 | UPPER MANNVILLE G27G |
| 0259 259608 2015-06-01 | UPPER MANNVILLE H27H |
| 0259 259609 2015-06-01 | UPPER MANNVILLE I27I |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259610 2015-06-01 | UPPER MANNVILLE J27J |
| 0259 259611 2015-06-01 | UPPER MANNVILLE K27K |
| 0259 259612 2015-06-01 | UPPER MANNVILLE L27L |
| 0259 259613 2015-06-01 | UPPER MANNVILLE M27M |
| 0259 259614 2015-06-01 | UPPER MANNVILLE N27N |
| 0259 259615 2015-06-01 | UPPER MANNVILLE O27O |
| 0259 259616 2015-06-01 | UPPER MANNVILLE P27P |
| 0259 259617 2015-06-01 | UPPER MANNVILLE Q27Q |
| 0259 259618 2015-06-01 | UPPER MANNVILLE R27R |
| 0259 259619 2015-06-01 | UPPER MANNVILLE S27S |
| 0259 259620 2015-06-01 | UPPER MANNVILLE T27T |
| 0259 259621 2015-06-01 | UPPER MANNVILLE U27U |
| 0259 259622 2015-06-01 | UPPER MANNVILLE V27V |
| 0259 259623 2015-06-01 | UPPER MANNVILLE W27W |
| 0259 259624 2015-06-01 | UPPER MANNVILLE X27X |
| 0259 259625 2015-06-01 | UPPER MANNVILLE Y27Y |
| 0259 259626 2015-06-01 | UPPER MANNVILLE Z27Z |
| 0259 259627 2015-06-01 | UPPER MANNVILLE A28A |
| 0259 259628 2015-06-01 | UPPER MANNVILLE B28B |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------------|
| 0259 259629 2015-06-01 | UPPER MANNVILLE C28C |
| 0259 259630 2015-06-01 | UPPER MANNVILLE D28D |
| 0259 259631 2015-06-01 | UPPER MANNVILLE E28E |
| 0259 259632 2015-06-01 | UPPER MANNVILLE F28F |
| 0259 259633 2015-06-01 | UPPER MANNVILLE G28G |
| 0259 259634 2016-04-01 | UPPER MANNVILLE H28H |
| 0259 300910 2013-09-01 | GLAUCONITIC JJJ |
| 0259 300911 2017-11-01 | GLAUCONITIC KKK |
| 0259 300912 2014-11-01 | GLAUCONITIC LLL |
| 0259 300913 2014-11-01 | GLAUCONITIC MMM |
| 0259 300914 2014-11-01 | GLAUCONITIC NNN |
| 0259 300915 2014-11-01 | GLAUCONITIC OOO |
| 0259 300916 2015-09-01 | GLAUCONITIC PPP |
| 0259 300917 2015-11-01 | GLAUCONITIC QQQ |
| 0259 300918 2015-04-01 | GLAUCONITIC RRR |
| 0259 300919 2015-04-01 | GLAUCONITIC SSS |
| 0259 300920 2016-10-01 | GLAUCONITIC TTT |
| 0259 310001 2001-02-01 | LOWER MANNVILLE A |
| 0259 310003 2001-02-01 | LOWER MANNVILLE C |
| 0259 310004 2001-02-01 | LOWER MANNVILLE D |
| 0259 310006 2005-03-01 | LOWER MANNVILLE F |
| 0259 310007 2001-02-01 | LOWER MANNVILLE G |
| 0259 310008 2001-02-01 | LOWER MANNVILLE H |
| 0259 310010 2001-02-01 | LOWER MANNVILLE J |
| 0259 310011 2002-10-01 | LOWER MANNVILLE K |
| 0259 310012 2001-02-01 | LOWER MANNVILLE L |
| 0259 310014 2001-02-01 | LOWER MANNVILLE N |
| 0259 310016 2001-02-01 | LOWER MANNVILLE P |
| 0259 310017 2001-02-01 | LOWER MANNVILLE Q |
| 0259 310018 2010-04-01 | LOWER MANNVILLE R |
| 0259 310019 2008-10-01 | LOWER MANNVILLE S |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|---------------------|
| 0259 310020 | 2001-02-01 | LOWER MANNVILLE T |
| 0259 310021 | 2001-02-01 | LOWER MANNVILLE U |
| 0259 310022 | 2001-02-01 | LOWER MANNVILLE V |
| 0259 310023 | 2010-04-01 | LOWER MANNVILLE W |
| 0259 310025 | 2010-04-01 | LOWER MANNVILLE Y |
| 0259 310026 | 2001-02-01 | LOWER MANNVILLE Z |
| 0259 310027 | 2001-02-01 | LOWER MANNVILLE AA |
| 0259 310029 | 2001-02-01 | LOWER MANNVILLE CC |
| 0259 310030 | 2013-06-01 | LOWER MANNVILLE DD |
| 0259 310031 | 2001-02-01 | LOWER MANNVILLE EE |
| 0259 310032 | 2001-02-01 | LOWER MANNVILLE FF |
| 0259 310034 | 2001-02-01 | LOWER MANNVILLE HH |
| 0259 310035 | 2001-02-01 | LOWER MANNVILLE II |
| 0259 310036 | 2007-07-01 | LOWER MANNVILLE JJ |
| 0259 310038 | 2001-02-01 | LOWER MANNVILLE LL |
| 0259 310040 | 2008-04-01 | LOWER MANNVILLE NN |
| 0259 310041 | 2001-02-01 | LOWER MANNVILLE OO |
| 0259 310043 | 2010-06-01 | LOWER MANNVILLE QQ |
| 0259 310044 | 2007-09-01 | LOWER MANNVILLE RR |
| 0259 310046 | 2001-02-01 | LOWER MANNVILLE TT |
| 0259 310047 | 2010-04-01 | LOWER MANNVILLE UU |
| 0259 310048 | 2007-11-01 | LOWER MANNVILLE VV |
| 0259 310050 | 2001-12-01 | LOWER MANNVILLE XX |
| 0259 310051 | 2001-06-01 | LOWER MANNVILLE YY |
| 0259 310052 | 2010-04-01 | LOWER MANNVILLE ZZ |
| 0259 310101 | 2001-08-01 | LOWER MANNVILLE AAA |
| 0259 310103 | 2002-01-01 | LOWER MANNVILLE CCC |
| 0259 310104 | 2010-04-01 | LOWER MANNVILLE DDD |
| 0259 310105 | 2010-04-01 | LOWER MANNVILLE EEE |
| 0259 310106 | 2001-09-01 | LOWER MANNVILLE FFF |
| 0259 310107 | 2010-04-01 | LOWER MANNVILLE GGG |
| 0259 310108 | 2010-04-01 | LOWER MANNVILLE HHH |
| 0259 310109 | 2002-06-01 | LOWER MANNVILLE III |
| 0259 310111 | 2002-04-01 | LOWER MANNVILLE KKK |
| 0259 310112 | 2010-04-01 | LOWER MANNVILLE LLL |
| 0259 310113 | 2002-05-01 | LOWER MANNVILLE MMM |
| 0259 310114 | 2008-04-01 | LOWER MANNVILLE NNN |
| 0259 310115 | 2002-10-01 | LOWER MANNVILLE OOO |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0259 310116 2010-04-01 | LOWER MANNVILLE PPP |
| 0259 310118 2003-08-01 | LOWER MANNVILLE RRR |
| 0259 310120 2003-12-01 | LOWER MANNVILLE TTT |
| 0259 310121 2003-07-01 | LOWER MANNVILLE UUU |
| 0259 310123 2004-03-01 | LOWER MANNVILLE WWW |
| 0259 310124 2004-03-01 | LOWER MANNVILLE XXX |
| 0259 310125 2004-05-01 | LOWER MANNVILLE YYY |
| 0259 310126 2004-07-01 | LOWER MANNVILLE ZZZ |
| 0259 310127 2004-05-01 | LOWER MANNVILLE A2A |
| 0259 310128 2004-05-01 | LOWER MANNVILLE B2B |
| 0259 310129 2004-05-01 | LOWER MANNVILLE C2C |
| 0259 310130 2010-04-01 | LOWER MANNVILLE D2D |
| 0259 310131 2010-04-01 | LOWER MANNVILLE E2E |
| 0259 310132 2010-04-01 | LOWER MANNVILLE F2F |
| 0259 310133 2005-05-01 | LOWER MANNVILLE G2G |
| 0259 310134 2004-09-01 | LOWER MANNVILLE H2H |
| 0259 310136 2017-11-01 | LOWER MANNVILLE J2J |
| 0259 310137 2005-12-01 | LOWER MANNVILLE K2K |
| 0259 310138 2006-04-01 | LOWER MANNVILLE L2L |
| 0259 310139 2006-01-01 | LOWER MANNVILLE M2M |
| 0259 310140 2006-03-01 | LOWER MANNVILLE N2N |
| 0259 310141 2006-03-01 | LOWER MANNVILLE O2O |
| 0259 310142 2006-03-01 | LOWER MANNVILLE P2P |
| 0259 310143 2006-03-01 | LOWER MANNVILLE Q2Q |
| 0259 310144 2006-03-01 | LOWER MANNVILLE R2R |
| 0259 310145 2006-03-01 | LOWER MANNVILLE S2S |
| 0259 310146 2006-03-01 | LOWER MANNVILLE T2T |
| 0259 310147 2010-04-01 | LOWER MANNVILLE U2U |
| 0259 310148 2006-03-01 | LOWER MANNVILLE V2V |
| 0259 310149 2006-03-01 | LOWER MANNVILLE W2W |
| 0259 310150 2006-03-01 | LOWER MANNVILLE X2X |
| 0259 310151 2006-03-01 | LOWER MANNVILLE Y2Y |
| 0259 310152 2010-04-01 | LOWER MANNVILLE Z2Z |
| 0259 310201 2006-03-01 | LOWER MANNVILLE A3A |
| 0259 310202 2006-06-01 | LOWER MANNVILLE B3B |
| 0259 310203 2010-04-01 | LOWER MANNVILLE C3C |
| 0259 310205 2007-06-01 | LOWER MANNVILLE E3E |
| 0259 310207 2010-04-01 | LOWER MANNVILLE G3G |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0259 310208 2010-04-01 | LOWER MANNVILLE H3H |
| 0259 310209 2007-07-01 | LOWER MANNVILLE I3I |
| 0259 310210 2007-09-01 | LOWER MANNVILLE J3J |
| 0259 310212 2010-04-01 | LOWER MANNVILLE L3L |
| 0259 310213 2007-10-01 | LOWER MANNVILLE M3M |
| 0259 310214 2010-04-01 | LOWER MANNVILLE N3N |
| 0259 310215 2008-02-01 | LOWER MANNVILLE O3O |
| 0259 310216 2010-04-01 | LOWER MANNVILLE P3P |
| 0259 310217 2008-05-01 | LOWER MANNVILLE Q3Q |
| 0259 310218 2008-05-01 | LOWER MANNVILLE R3R |
| 0259 310219 2008-08-01 | LOWER MANNVILLE S3S |
| 0259 310220 2010-04-01 | LOWER MANNVILLE T3T |
| 0259 310221 2008-11-01 | LOWER MANNVILLE U3U |
| 0259 310222 2010-04-01 | LOWER MANNVILLE V3V |
| 0259 310223 2008-12-01 | LOWER MANNVILLE W3W |
| 0259 310224 2010-04-01 | LOWER MANNVILLE X3X |
| 0259 310225 2009-03-01 | LOWER MANNVILLE Y3Y |
| 0259 310226 2009-03-01 | LOWER MANNVILLE Z3Z |
| 0259 310227 2009-05-01 | LOWER MANNVILLE A4A |
| 0259 310228 2010-04-01 | LOWER MANNVILLE B4B |
| 0259 310231 2009-10-01 | LOWER MANNVILLE E4E |
| 0259 310232 2010-04-01 | LOWER MANNVILLE F4F |
| 0259 310233 2009-11-01 | LOWER MANNVILLE G4G |
| 0259 310235 2010-04-01 | LOWER MANNVILLE I4I |
| 0259 310236 2010-04-01 | LOWER MANNVILLE J4J |
| 0259 310237 2010-05-01 | LOWER MANNVILLE K4K |
| 0259 310239 2010-11-01 | LOWER MANNVILLE M4M |
| 0259 310240 2010-06-01 | LOWER MANNVILLE N4N |
| 0259 310242 2011-02-01 | LOWER MANNVILLE P4P |
| 0259 310243 2011-04-01 | LOWER MANNVILLE Q4Q |
| 0259 310244 2014-11-01 | LOWER MANNVILLE R4R |
| 0259 310245 2011-09-01 | LOWER MANNVILLE S4S |
| 0259 310246 2011-09-01 | LOWER MANNVILLE T4T |
| 0259 310247 2011-12-01 | LOWER MANNVILLE U4U |
| 0259 310248 2011-11-01 | LOWER MANNVILLE V4V |
| 0259 310249 2011-12-01 | LOWER MANNVILLE W4W |
| 0259 310250 2011-12-01 | LOWER MANNVILLE X4X |
| 0259 310252 2012-01-01 | LOWER MANNVILLE Z4Z |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0259 310301 2012-12-01 | LOWER MANNVILLE A5A |
| 0259 310302 2013-02-01 | LOWER MANNVILLE B5B |
| 0259 310303 2013-05-01 | LOWER MANNVILLE C5C |
| 0259 310304 2013-07-01 | LOWER MANNVILLE D5D |
| 0259 310305 2014-11-01 | LOWER MANNVILLE E5E |
| 0259 310306 2014-11-01 | LOWER MANNVILLE F5F |
| 0259 310307 2015-01-01 | LOWER MANNVILLE G5G |
| 0259 310308 2015-04-01 | LOWER MANNVILLE H5H |
| 0259 310309 2015-04-01 | LOWER MANNVILLE I5I |
| 0259 310310 2015-06-01 | LOWER MANNVILLE J5J |
| 0259 310311 2015-06-01 | LOWER MANNVILLE K5K |
| 0259 310312 2015-06-01 | LOWER MANNVILLE L5L |
| 0259 310313 2015-06-01 | LOWER MANNVILLE M5M |
| 0259 310314 2015-06-01 | LOWER MANNVILLE N5N |
| 0259 310315 2015-06-01 | LOWER MANNVILLE O5O |
| 0259 310317 2015-06-01 | LOWER MANNVILLE Q5Q |
| 0259 310318 2015-06-01 | LOWER MANNVILLE R5R |
| 0259 310319 2015-06-01 | LOWER MANNVILLE S5S |
| 0259 310320 2015-06-01 | LOWER MANNVILLE T5T |
| 0259 310321 2015-06-01 | LOWER MANNVILLE U5U |
| 0259 310322 2015-06-01 | LOWER MANNVILLE V5V |
| 0259 310323 2015-06-01 | LOWER MANNVILLE W5W |
| 0259 310324 2015-06-01 | LOWER MANNVILLE X5X |
| 0259 310325 2015-06-01 | LOWER MANNVILLE Y5Y |
| 0259 310326 2015-06-01 | LOWER MANNVILLE Z5Z |
| 0259 310327 2015-06-01 | LOWER MANNVILLE A6A |
| 0259 310328 2015-06-01 | LOWER MANNVILLE B6B |
| 0259 310329 2015-06-01 | LOWER MANNVILLE C6C |
| 0259 310330 2015-06-01 | LOWER MANNVILLE D6D |
| 0259 310331 2015-06-01 | LOWER MANNVILLE E6E |
| 0259 310332 2015-06-01 | LOWER MANNVILLE F6F |
| 0259 310333 2015-06-01 | LOWER MANNVILLE G6G |
| 0259 310334 2015-06-01 | LOWER MANNVILLE H6H |
| 0259 310335 2015-06-01 | LOWER MANNVILLE I6I |
| 0259 310336 2015-06-01 | LOWER MANNVILLE J6J |
| 0259 310337 2015-06-01 | LOWER MANNVILLE K6K |
| 0259 310338 2015-06-01 | LOWER MANNVILLE L6L |
| 0259 310339 2015-06-01 | LOWER MANNVILLE M6M |

POOL DESIGNATION (cont'd)

0259 310340 2015-06-01 LOWER MANNVILLE N6N
0259 310341 2015-06-01 LOWER MANNVILLE O6O
0259 310342 2015-06-01 LOWER MANNVILLE P6P
0259 310343 2015-06-01 LOWER MANNVILLE Q6Q
0259 310344 2015-06-01 LOWER MANNVILLE R6R
0259 310345 2015-06-01 LOWER MANNVILLE S6S
0259 310346 2015-06-01 LOWER MANNVILLE T6T
0259 310347 2015-06-01 LOWER MANNVILLE U6U
0259 310348 2015-06-01 LOWER MANNVILLE V6V

0259 316002 2010-04-01 OSTRACOD B
0259 316003 2001-02-01 OSTRACOD C
0259 316004 2003-06-01 OSTRACOD D
0259 316005 2010-04-01 OSTRACOD E
0259 316007 2014-01-01 OSTRACOD G
0259 316008 2001-06-01 OSTRACOD H
0259 316009 2002-01-01 OSTRACOD I
0259 316011 2004-12-01 OSTRACOD K
0259 316012 2003-06-01 OSTRACOD L
0259 316013 2010-04-01 OSTRACOD M
0259 316014 2004-08-01 OSTRACOD N
0259 316015 2006-03-01 OSTRACOD O
0259 316016 2006-03-01 OSTRACOD P
0259 316017 2007-01-01 OSTRACOD Q
0259 316018 2009-05-01 OSTRACOD R
0259 316019 2010-04-01 OSTRACOD S
0259 316020 2009-12-01 OSTRACOD T
0259 316021 2010-03-01 OSTRACOD U
0259 316022 2010-05-01 OSTRACOD V
0259 316023 2010-07-01 OSTRACOD W
0259 316024 2014-11-01 OSTRACOD X
0259 316025 2014-11-01 OSTRACOD Y

0259 334002 2001-02-01 BASAL QUARTZ B
0259 334003 2001-02-01 BASAL QUARTZ C
0259 334004 2001-02-01 BASAL QUARTZ D
0259 334005 2001-02-01 BASAL QUARTZ E
0259 334006 2001-02-01 BASAL QUARTZ F

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0259 334007 2001-02-01 | BASAL QUARTZ G |
| 0259 334008 2008-10-01 | BASAL QUARTZ H |
| 0259 334009 2013-12-01 | BASAL QUARTZ I |
| | |
| 0259 642001 2001-02-01 | PEKISKO A |
| 0259 642002 2001-02-01 | PEKISKO B |
| 0259 642003 2001-02-01 | PEKISKO C |
| 0259 642004 2003-02-01 | PEKISKO D |
| 0259 642005 2001-02-01 | PEKISKO E |
| 0259 642006 2001-02-01 | PEKISKO F |
| 0259 642007 2010-04-01 | PEKISKO G |
| 0259 642008 2010-04-01 | PEKISKO H |
| 0259 642009 2010-04-01 | PEKISKO I |
| 0259 642010 2004-12-01 | PEKISKO J |
| 0259 642011 2005-03-01 | PEKISKO K |
| 0259 642012 2006-01-01 | PEKISKO L |
| 0259 642013 2006-03-01 | PEKISKO M |
| 0259 642014 2010-04-01 | PEKISKO N |
| 0259 642015 2007-03-01 | PEKISKO O |
| 0259 642016 2007-07-01 | PEKISKO P |
| 0259 642017 2010-09-01 | PEKISKO Q |
| 0259 642018 2010-04-01 | PEKISKO R |
| 0259 642019 2008-03-01 | PEKISKO S |
| 0259 642020 2008-03-01 | PEKISKO T |
| 0259 642021 2009-01-01 | PEKISKO U |
| 0259 642022 2008-10-01 | PEKISKO V |
| 0259 642023 2008-10-01 | PEKISKO W |
| 0259 642024 2009-01-01 | PEKISKO X |
| 0259 642025 2011-05-01 | PEKISKO Y |
| 0259 642026 2013-04-01 | PEKISKO Z |
| 0259 642027 2010-04-01 | PEKISKO AA |
| 0259 642028 2010-04-01 | PEKISKO BB |
| 0259 642029 2010-06-01 | PEKISKO CC |
| 0259 642030 2010-06-01 | PEKISKO DD |
| 0259 642031 2010-06-01 | PEKISKO EE |
| 0259 642032 2010-06-01 | PEKISKO FF |
| 0259 642033 2010-07-01 | PEKISKO GG |
| 0259 642035 2011-03-01 | PEKISKO II |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-----------------------|
| 0259 642036 2011-03-01 | PEKISKO JJ |
| 0259 642037 2011-11-01 | PEKISKO KK |
| 0259 642038 2012-02-01 | PEKISKO LL |
| 0259 642039 2012-02-01 | PEKISKO MM |
| 0259 642040 2011-12-01 | PEKISKO NN |
| 0259 642041 2011-09-01 | PEKISKO OO |
| 0259 642042 2011-12-01 | PEKISKO PP |
| 0259 642043 2012-07-01 | PEKISKO QQ |
| 0259 642044 2013-03-01 | PEKISKO RR |
| 0259 642045 2013-03-01 | PEKISKO SS |
| 0259 642046 2013-08-01 | PEKISKO TT |
| 0259 642047 2015-05-01 | PEKISKO UU |
| 0259 642048 2015-05-01 | PEKISKO VV |
| 0259 642049 2015-06-01 | PEKISKO WW |
| 0259 642050 2015-06-01 | PEKISKO XX |
| 0259 644001 2008-02-01 | BANFF A |
| 0259 850100 2016-01-01 | MFP8501 MILK RIVER |
| 0259 850200 2016-01-01 | MFP8502 MED HAT |
| 0259 850500 2015-06-01 | MFP8505 2WS |
| 0259 850600 2015-06-01 | MFP8506 BELLY RIVER |
| 0259 851300 2014-11-01 | MFP8513 BOW ISLAND |
| 0259 851900 2015-02-01 | MFP8519 GLAUCONITIC |
| 0259 854300 2016-01-01 | MFP8543 BSL BELLY RIV |
| 0259 854400 2015-06-01 | MFP8544 1WS |
| 0259 855000 2012-05-01 | MFP8550 BELLY RIVER |
| 0259 855300 2012-06-01 | MFP8553 COLORADO |

POOL DESIGNATION (cont'd)

0259 856100 2010-03-01 MFP8561 UPPER MANN

0259 859800 2012-05-01 MFP8598 BSL BELLY RIV

SPACING PATTERN

SU 4305 7 Dec 2005
 SU 4305A 27 Mar 2006
 SU 4305B 19 Dec 2006
 SU 4305C 8 Mar 2007
 SU 4305D 6 Sep 2007

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

App 7247D 15 Jan 2018
 Waterflood
 Upper Mannville HHH
 Torxen Energy Ltd.

COMMINGLED PRODUCTION

MU 8733 2 Jun 2015

App 7247F 15 Jan 2018
 Waterflood
 Upper Mannville III
 Torxen Energy Ltd.

GAS STORAGE SCHEMES

App 10081G 31 Oct 2017
 Upper Mannville M5M
 Rockpoint Gas Storage Canada Ltd.

App 7663G 15 Jan 2018
 Waterflood
 Upper Mannville F
 Torxen Energy Ltd.

App 10088I 31 Oct 2017
 Bow Island N
 Rockpoint Gas Storage Canada Ltd.

App 8442E 15 Jan 2018
 Waterflood
 Upper Mannville D
 Torxen Energy Ltd.

ENHANCED RECOVERY SCHEMES

App 2213G 15 Jan 2018
 Waterflood
 Upper Mannville O
 Torxen Energy Ltd.

App 9781F 15 Jan 2018
 Waterflood
 Upper Mannville PP
 Torxen Energy Ltd.

App 6439E 15 Jan 2018
 Waterflood
 Upper Mannville UU
 Torxen Energy Ltd.

App 10362J 16 Aug 2016
 Waterflood
 Lower Mannville Z
 Cardinal Energy Ltd.

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

App 10875D 22 Aug 2016
Waterflood
Lower Mannville RR
Cardinal Energy Ltd.

App 11250E 15 Jan 2018
Chemical
Upper Mannville H
Torxen Energy Ltd.

App 12386A 9 May 2018
Waterflood
Upper Mannville M22M
Torxen Energy Ltd.

**ENHANCED RECOVERY SCHEMES &
CONCURRENT PRODUCTION**

App 1544J 15 Jan 2018
By water injection
Upper Mannville L24L
Torxen Energy Ltd.

App 9676G 15 Jan 2018
By water injection and concurrent
production
Upper Mannville M24M
Torxen Energy Ltd.

App 9945G 15 Jan 2018
By water injection
Upper Mannville V25V
Torxen Energy Ltd.

SUBSURFACE DISPOSAL SCHEMES

App 11167B 21 Nov 2012
Class II
Edalis Energy Inc.

App 12486A 29 Mar 2018
Class II
Torxen Energy Ltd.

App 12612 9 May 2017
Carbon dioxide disposal
CMC Research Institutes, Inc.

FIELD DESIGNATION

0260 2001-02-01 COUTTS FIELD

POOL DESIGNATION

0260 186001 2005-12-01 SECOND WHITE SPECKS A

0260 186002 2010-12-01 SECOND WHITE SPECKS B

0260 211001 2014-01-01 LOWER COLORADO A

0260 310001 2003-02-01 LOWER MANNVILLE A

0260 330001 2001-02-01 MOULTON A

0260 330002 2001-02-01 MOULTON B

0260 330004 2001-02-01 MOULTON D

0260 330006 2001-02-01 MOULTON F

0260 330007 2001-02-01 MOULTON G

0260 330008 2001-02-01 MOULTON H

0260 330009 2001-02-01 MOULTON I

0260 330010 2001-02-01 MOULTON J

0260 330011 2010-04-01 MOULTON K

0260 330012 2001-02-01 MOULTON L

0260 330013 2001-02-01 MOULTON M

0260 330014 2010-04-01 MOULTON N

0260 330015 2002-07-01 MOULTON O

0260 330016 2001-08-01 MOULTON P

0260 330017 2001-11-01 MOULTON Q

0260 330018 2001-11-01 MOULTON R

0260 330019 2005-04-01 MOULTON S

0260 330020 2013-12-01 MOULTON T

0260 332001 2013-07-01 SUNBURST A

0260 332002 2001-02-01 SUNBURST B

0260 332003 2004-12-01 SUNBURST C

0260 332004 2006-06-01 SUNBURST D

0260 344001 2001-02-01 CUTBANK A

POOL DESIGNATION (cont'd)

| | |
|------------------------|-----------|
| 0260 344002 2010-04-01 | CUTBANK B |
| 0260 344003 2001-02-01 | CUTBANK C |
| 0260 344004 2001-02-01 | CUTBANK D |
| 0260 344005 2001-02-01 | CUTBANK E |
| 0260 344006 2010-04-01 | CUTBANK F |
| 0260 344007 2001-02-01 | CUTBANK G |
| 0260 344008 2013-07-01 | CUTBANK H |
| 0260 344009 2004-12-01 | CUTBANK I |
| 0260 344010 2006-06-01 | CUTBANK J |
| 0260 344011 2007-08-01 | CUTBANK K |
| 0260 344012 2013-08-01 | CUTBANK L |
| 0260 344013 2013-12-01 | CUTBANK M |

| | |
|------------------------|----------|
| 0260 610002 2006-11-01 | RUNDLE B |
| 0260 610003 2011-05-01 | RUNDLE C |
| 0260 610004 2006-06-01 | RUNDLE D |
| 0260 610005 2010-04-01 | RUNDLE E |
| 0260 610006 2007-07-01 | RUNDLE F |
| 0260 610007 2007-10-01 | RUNDLE G |
| 0260 610008 2010-10-01 | RUNDLE H |
| 0260 610009 2011-04-01 | RUNDLE I |
| 0260 610010 2008-10-01 | RUNDLE J |
| 0260 610011 2014-02-01 | RUNDLE K |

SPACING PATTERN

| | |
|----------|-------------|
| SU 3020 | 20 Feb 2001 |
| SU 3020A | 4 Jul 2001 |

COMMINGLED PRODUCTION

| | |
|---------|-------------|
| MU 7321 | 10 May 2010 |
|---------|-------------|

ENHANCED RECOVERY SCHEMES

| | |
|----------------------|-------------|
| App 1322E | 25 Jul 2012 |
| Moulton M | |
| Talisman Energy Inc. | |

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

| | |
|-----------------------------|-------------|
| App 8553H | 24 Mar 2015 |
| Waterflood | |
| Cutbank B | |
| Crescent Point Energy Corp. | |

SUBSURFACE DISPOSAL SCHEMES

| | |
|----------------------------|-------------|
| App 991A | 21 Jul 2014 |
| Class II | |
| Border Exploration Company | |

INDEX OF AER ORDERS AND APPROVALS

COU

COUTTS FIELD

0260

July 2018

Page 3 of 3

SUBSURFACE DISPOSAL SCHEMES

(cont'd)

App 11006G 10 Mar 2015

Class II

Crescent Point Energy Corp.

FIELD DESIGNATION

0264 2014-12-01 COYOTE FIELD

POOL DESIGNATION

0264 126001 2011-01-01 BELLY RIVER A

0264 134001 2005-06-01 BASAL BELLY RIVER A
0264 134002 2005-06-01 BASAL BELLY RIVER B

0264 164001 2010-07-01 MEDICINE HAT A

0264 186001 2010-07-01 SECOND WHITE SPECKS A

0264 218001 2002-02-01 VIKING A
0264 218002 2002-02-01 VIKING B

0264 242001 2002-02-01 BASAL COLORADO A

0264 250001 2010-02-01 UPPER MANNVILLE A
0264 250002 2010-03-01 UPPER MANNVILLE B
0264 250003 2010-03-01 UPPER MANNVILLE C
0264 250004 2010-05-01 UPPER MANNVILLE D
0264 250005 2011-08-01 UPPER MANNVILLE E
0264 250006 2011-08-01 UPPER MANNVILLE F

0264 300002 2010-04-01 GLAUCONITIC B
0264 300003 2001-02-01 GLAUCONITIC C
0264 300005 2001-02-01 GLAUCONITIC E
0264 300006 2001-02-01 GLAUCONITIC F
0264 300007 2001-02-01 GLAUCONITIC G
0264 300009 2001-02-01 GLAUCONITIC I
0264 300010 2001-02-01 GLAUCONITIC J
0264 300011 2001-02-01 GLAUCONITIC K
0264 300012 2010-04-01 GLAUCONITIC L
0264 300013 2003-07-01 GLAUCONITIC M
0264 300014 2005-07-01 GLAUCONITIC N

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0264 300015 2007-10-01 | GLAUCONITIC O |
| 0264 300016 2011-10-01 | GLAUCONITIC P |
| 0264 300017 2008-11-01 | GLAUCONITIC Q |
| 0264 300018 2011-04-01 | GLAUCONITIC R |
| | |
| 0264 310001 2010-04-01 | LOWER MANNVILLE A |
| | |
| 0264 336001 2001-02-01 | ELLERSLIE A |
| 0264 336002 2001-02-01 | ELLERSLIE B |
| 0264 336003 2004-09-01 | ELLERSLIE C |
| 0264 336004 2013-11-01 | ELLERSLIE D |
| 0264 336006 2013-11-01 | ELLERSLIE F |
| | |
| 0264 644002 2001-02-01 | BANFF B |
| 0264 644004 2001-02-01 | BANFF D |
| 0264 644006 2010-04-01 | BANFF F |
| 0264 644007 2010-03-01 | BANFF G |

SPACING PATTERN

SU 3016 16 Jan 2001

COMMINGLED PRODUCTION

MU 3846 22 Oct 2004

FIELD DESIGNATION

0261 2012-09-01 CRAIGEND FIELD

POOL DESIGNATION

0261 218001 2012-05-01 VIKING A
0261 218022 2006-01-01 VIKING V
0261 218032 2006-09-01 VIKING FF
0261 220406 2009-12-01 VIKING FFF
0261 220407 2009-12-01 VIKING GGG
0261 220408 2009-12-01 VIKING HHH
0261 220409 2009-12-01 VIKING III
0261 220411 2010-04-01 VIKING KKK

0261 250003 2006-08-01 UPPER MANNVILLE C
0261 250004 2007-09-01 UPPER MANNVILLE D
0261 250005 2007-09-01 UPPER MANNVILLE E
0261 250006 2007-09-01 UPPER MANNVILLE F
0261 250007 2007-09-01 UPPER MANNVILLE G
0261 250008 2007-09-01 UPPER MANNVILLE H

0261 262001 2010-04-01 GRAND RAPIDS A
0261 262002 2011-07-01 GRAND RAPIDS B
0261 262003 2001-10-01 GRAND RAPIDS C
0261 262005 2009-02-01 GRAND RAPIDS E
0261 262006 2009-06-01 GRAND RAPIDS F
0261 262008 2001-02-01 GRAND RAPIDS H
0261 262009 2006-12-01 GRAND RAPIDS I
0261 262010 2001-02-01 GRAND RAPIDS J
0261 262011 2010-04-01 GRAND RAPIDS K
0261 262012 2001-02-01 GRAND RAPIDS L
0261 262013 2010-04-01 GRAND RAPIDS M
0261 262014 2001-02-01 GRAND RAPIDS N
0261 262015 2010-04-01 GRAND RAPIDS O
0261 262016 2009-02-01 GRAND RAPIDS P
0261 262017 2014-02-01 GRAND RAPIDS Q
0261 262018 2001-02-01 GRAND RAPIDS R

POOL DESIGNATION (cont'd)

| | | | |
|------|--------|------------|------------------|
| 0261 | 262019 | 2001-02-01 | GRAND RAPIDS S |
| 0261 | 262020 | 2003-03-01 | GRAND RAPIDS T |
| 0261 | 262021 | 2001-02-01 | GRAND RAPIDS U |
| 0261 | 262022 | 2006-11-01 | GRAND RAPIDS V |
| 0261 | 262023 | 2001-02-01 | GRAND RAPIDS W |
| 0261 | 262024 | 2010-04-01 | GRAND RAPIDS X |
| 0261 | 262025 | 2001-02-01 | GRAND RAPIDS Y |
| 0261 | 262026 | 2001-02-01 | GRAND RAPIDS Z |
| 0261 | 262027 | 2007-03-01 | GRAND RAPIDS AA |
| 0261 | 262028 | 2001-02-01 | GRAND RAPIDS BB |
| 0261 | 262029 | 2001-02-01 | GRAND RAPIDS CC |
| 0261 | 262030 | 2005-05-01 | GRAND RAPIDS DD |
| 0261 | 262033 | 2010-04-01 | GRAND RAPIDS GG |
| 0261 | 262034 | 2001-02-01 | GRAND RAPIDS HH |
| 0261 | 262036 | 2001-10-01 | GRAND RAPIDS JJ |
| 0261 | 262037 | 2006-08-01 | GRAND RAPIDS KK |
| 0261 | 262039 | 2001-02-01 | GRAND RAPIDS MM |
| 0261 | 262040 | 2001-02-01 | GRAND RAPIDS NN |
| 0261 | 262041 | 2010-04-01 | GRAND RAPIDS OO |
| 0261 | 262043 | 2001-02-01 | GRAND RAPIDS QQ |
| 0261 | 262044 | 2001-02-01 | GRAND RAPIDS RR |
| 0261 | 262045 | 2007-10-01 | GRAND RAPIDS SS |
| 0261 | 262046 | 2001-02-01 | GRAND RAPIDS TT |
| 0261 | 262047 | 2001-02-01 | GRAND RAPIDS UU |
| 0261 | 262048 | 2010-04-01 | GRAND RAPIDS VV |
| 0261 | 262049 | 2007-01-01 | GRAND RAPIDS WW |
| 0261 | 262050 | 2007-01-01 | GRAND RAPIDS XX |
| 0261 | 262051 | 2001-02-01 | GRAND RAPIDS YY |
| 0261 | 262052 | 2009-08-01 | GRAND RAPIDS ZZ |
| 0261 | 262501 | 2006-08-01 | GRAND RAPIDS AAA |
| 0261 | 262502 | 2001-02-01 | GRAND RAPIDS BBB |
| 0261 | 262503 | 2001-02-01 | GRAND RAPIDS CCC |
| 0261 | 262505 | 2017-04-01 | GRAND RAPIDS EEE |
| 0261 | 262506 | 2001-02-01 | GRAND RAPIDS FFF |
| 0261 | 262507 | 2001-02-01 | GRAND RAPIDS GGG |
| 0261 | 262508 | 2001-02-01 | GRAND RAPIDS HHH |
| 0261 | 262509 | 2001-02-01 | GRAND RAPIDS III |
| 0261 | 262510 | 2001-02-01 | GRAND RAPIDS JJJ |

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------------|
| 0261 262511 2001-02-01 | GRAND RAPIDS KKK |
| 0261 262512 2001-02-01 | GRAND RAPIDS LLL |
| 0261 262513 2004-08-01 | GRAND RAPIDS MMM |
| 0261 262514 2003-11-01 | GRAND RAPIDS NNN |
| 0261 262517 2012-04-01 | GRAND RAPIDS QQQ |
| 0261 262518 2012-04-01 | GRAND RAPIDS RRR |
| 0261 262521 2001-02-01 | GRAND RAPIDS UUU |
| 0261 262522 2009-12-01 | GRAND RAPIDS VVV |
| 0261 262523 2009-12-01 | GRAND RAPIDS WWW |
| 0261 262524 2009-12-01 | GRAND RAPIDS XXX |
| 0261 262525 2010-04-01 | GRAND RAPIDS YYY |
| 0261 262527 2001-02-01 | GRAND RAPIDS A2A |
| 0261 262528 2010-04-01 | GRAND RAPIDS B2B |
| 0261 262529 2010-04-01 | GRAND RAPIDS C2C |
| 0261 262530 2003-07-01 | GRAND RAPIDS D2D |
| 0261 262531 2001-02-01 | GRAND RAPIDS E2E |
| 0261 262532 2001-02-01 | GRAND RAPIDS F2F |
| 0261 262533 2010-04-01 | GRAND RAPIDS G2G |
| 0261 262534 2001-02-01 | GRAND RAPIDS H2H |
| 0261 262535 2001-02-01 | GRAND RAPIDS I2I |
| 0261 262536 2001-02-01 | GRAND RAPIDS J2J |
| 0261 262537 2006-02-01 | GRAND RAPIDS K2K |
| 0261 262539 2001-02-01 | GRAND RAPIDS M2M |
| 0261 262540 2011-07-01 | GRAND RAPIDS N2N |
| 0261 262541 2010-04-01 | GRAND RAPIDS O2O |
| 0261 262543 2001-02-01 | GRAND RAPIDS Q2Q |
| 0261 262544 2001-02-01 | GRAND RAPIDS R2R |
| 0261 262545 2001-02-01 | GRAND RAPIDS S2S |
| 0261 262547 2001-02-01 | GRAND RAPIDS U2U |
| 0261 262549 2010-04-01 | GRAND RAPIDS W2W |
| 0261 262550 2001-02-01 | GRAND RAPIDS X2X |
| 0261 262551 2009-02-01 | GRAND RAPIDS Y2Y |
| 0261 262552 2003-03-01 | GRAND RAPIDS Z2Z |
| 0261 263401 2003-03-01 | GRAND RAPIDS A3A |
| 0261 263402 2001-02-01 | GRAND RAPIDS B3B |
| 0261 263403 2007-11-01 | GRAND RAPIDS C3C |
| 0261 263404 2001-02-01 | GRAND RAPIDS D3D |
| 0261 263405 2001-02-01 | GRAND RAPIDS E3E |

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------------|
| 0261 263406 2010-04-01 | GRAND RAPIDS F3F |
| 0261 263407 2001-02-01 | GRAND RAPIDS G3G |
| 0261 263408 2001-02-01 | GRAND RAPIDS H3H |
| 0261 263410 2001-02-01 | GRAND RAPIDS J3J |
| 0261 263412 2001-02-01 | GRAND RAPIDS L3L |
| 0261 263413 2001-02-01 | GRAND RAPIDS M3M |
| 0261 263414 2001-02-01 | GRAND RAPIDS N3N |
| 0261 263415 2001-02-01 | GRAND RAPIDS O3O |
| 0261 263416 2010-04-01 | GRAND RAPIDS P3P |
| 0261 263417 2011-10-01 | GRAND RAPIDS Q3Q |
| 0261 263418 2011-06-01 | GRAND RAPIDS R3R |
| 0261 263419 2001-02-01 | GRAND RAPIDS S3S |
| 0261 263420 2001-02-01 | GRAND RAPIDS T3T |
| 0261 263421 2001-02-01 | GRAND RAPIDS U3U |
| 0261 263422 2001-07-01 | GRAND RAPIDS V3V |
| 0261 263423 2010-04-01 | GRAND RAPIDS W3W |
| 0261 263425 2001-02-01 | GRAND RAPIDS Y3Y |
| 0261 263426 2001-02-01 | GRAND RAPIDS Z3Z |
| 0261 263427 2001-02-01 | GRAND RAPIDS A4A |
| 0261 263428 2001-02-01 | GRAND RAPIDS B4B |
| 0261 263429 2001-02-01 | GRAND RAPIDS C4C |
| 0261 263430 2001-02-01 | GRAND RAPIDS D4D |
| 0261 263431 2001-02-01 | GRAND RAPIDS E4E |
| 0261 263432 2001-02-01 | GRAND RAPIDS F4F |
| 0261 263434 2001-02-01 | GRAND RAPIDS H4H |
| 0261 263435 2001-02-01 | GRAND RAPIDS I4I |
| 0261 263436 2001-02-01 | GRAND RAPIDS J4J |
| 0261 263437 2015-07-01 | GRAND RAPIDS K4K |
| 0261 263440 2008-06-01 | GRAND RAPIDS N4N |
| 0261 263443 2001-02-01 | GRAND RAPIDS Q4Q |
| 0261 263445 2001-02-01 | GRAND RAPIDS S4S |
| 0261 263446 2001-02-01 | GRAND RAPIDS T4T |
| 0261 263448 2001-02-01 | GRAND RAPIDS V4V |
| 0261 263449 2003-11-01 | GRAND RAPIDS W4W |
| 0261 263450 2001-02-01 | GRAND RAPIDS X4X |
| 0261 263451 2001-02-01 | GRAND RAPIDS Y4Y |
| 0261 263452 2001-02-01 | GRAND RAPIDS Z4Z |
| 0261 263801 2001-02-01 | GRAND RAPIDS A5A |

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------------|
| 0261 263802 2001-02-01 | GRAND RAPIDS B5B |
| 0261 263803 2001-02-01 | GRAND RAPIDS C5C |
| 0261 263804 2001-02-01 | GRAND RAPIDS D5D |
| 0261 263805 2001-02-01 | GRAND RAPIDS E5E |
| 0261 263806 2001-02-01 | GRAND RAPIDS F5F |
| 0261 263807 2011-06-01 | GRAND RAPIDS G5G |
| 0261 263808 2001-02-01 | GRAND RAPIDS H5H |
| 0261 263809 2009-03-01 | GRAND RAPIDS I5I |
| 0261 263810 2009-03-01 | GRAND RAPIDS J5J |
| 0261 263811 2001-02-01 | GRAND RAPIDS K5K |
| 0261 263812 2001-02-01 | GRAND RAPIDS L5L |
| 0261 263813 2001-02-01 | GRAND RAPIDS M5M |
| 0261 263814 2001-02-01 | GRAND RAPIDS N5N |
| 0261 263815 2001-02-01 | GRAND RAPIDS O5O |
| 0261 263816 2009-03-01 | GRAND RAPIDS P5P |
| 0261 263817 2005-09-01 | GRAND RAPIDS Q5Q |
| 0261 263818 2010-04-01 | GRAND RAPIDS R5R |
| 0261 263819 2001-02-01 | GRAND RAPIDS S5S |
| 0261 263820 2001-02-01 | GRAND RAPIDS T5T |
| 0261 263821 2001-02-01 | GRAND RAPIDS U5U |
| 0261 263822 2007-04-01 | GRAND RAPIDS V5V |
| 0261 263823 2001-02-01 | GRAND RAPIDS W5W |
| 0261 263824 2004-01-01 | GRAND RAPIDS X5X |
| 0261 263825 2003-07-01 | GRAND RAPIDS Y5Y |
| 0261 263826 2001-02-01 | GRAND RAPIDS Z5Z |
| 0261 263827 2002-10-01 | GRAND RAPIDS A6A |
| 0261 263828 2001-03-01 | GRAND RAPIDS B6B |
| 0261 263830 2011-10-01 | GRAND RAPIDS D6D |
| 0261 263831 2003-06-01 | GRAND RAPIDS E6E |
| 0261 263832 2001-03-01 | GRAND RAPIDS F6F |
| 0261 263834 2011-06-01 | GRAND RAPIDS H6H |
| 0261 263835 2002-01-01 | GRAND RAPIDS I6I |
| 0261 263836 2010-04-01 | GRAND RAPIDS J6J |
| 0261 263837 2011-10-01 | GRAND RAPIDS K6K |
| 0261 263838 2008-12-01 | GRAND RAPIDS L6L |
| 0261 263839 2008-12-01 | GRAND RAPIDS M6M |
| 0261 263841 2003-03-01 | GRAND RAPIDS O6O |
| 0261 263842 2003-05-01 | GRAND RAPIDS P6P |

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------------|
| 0261 263843 2003-05-01 | GRAND RAPIDS Q6Q |
| 0261 263844 2003-05-01 | GRAND RAPIDS R6R |
| 0261 263845 2004-06-01 | GRAND RAPIDS S6S |
| 0261 263846 2003-06-01 | GRAND RAPIDS T6T |
| 0261 263848 2003-10-01 | GRAND RAPIDS V6V |
| 0261 263849 2003-12-01 | GRAND RAPIDS W6W |
| 0261 263850 2003-12-01 | GRAND RAPIDS X6X |
| 0261 263851 2004-02-01 | GRAND RAPIDS Y6Y |
| 0261 263852 2004-02-01 | GRAND RAPIDS Z6Z |
| 0261 265102 2010-04-01 | GRAND RAPIDS B7B |
| 0261 265103 2004-06-01 | GRAND RAPIDS C7C |
| 0261 265104 2010-04-01 | GRAND RAPIDS D7D |
| 0261 265106 2004-07-01 | GRAND RAPIDS F7F |
| 0261 265107 2004-09-01 | GRAND RAPIDS G7G |
| 0261 265108 2004-09-01 | GRAND RAPIDS H7H |
| 0261 265109 2009-03-01 | GRAND RAPIDS I7I |
| 0261 265110 2005-06-01 | GRAND RAPIDS J7J |
| 0261 265111 2009-10-01 | GRAND RAPIDS K7K |
| 0261 265112 2005-05-01 | GRAND RAPIDS L7L |
| 0261 265113 2015-02-01 | GRAND RAPIDS M7M |
| 0261 265114 2005-07-01 | GRAND RAPIDS N7N |
| 0261 265115 2005-07-01 | GRAND RAPIDS O7O |
| 0261 265116 2005-07-01 | GRAND RAPIDS P7P |
| 0261 265117 2005-07-01 | GRAND RAPIDS Q7Q |
| 0261 265118 2005-08-01 | GRAND RAPIDS R7R |
| 0261 265119 2010-04-01 | GRAND RAPIDS S7S |
| 0261 265120 2005-08-01 | GRAND RAPIDS T7T |
| 0261 265123 2006-06-01 | GRAND RAPIDS W7W |
| 0261 265124 2005-11-01 | GRAND RAPIDS X7X |
| 0261 265126 2006-03-01 | GRAND RAPIDS Z7Z |
| 0261 265127 2006-03-01 | GRAND RAPIDS A8A |
| 0261 265128 2010-04-01 | GRAND RAPIDS B8B |
| 0261 265129 2006-06-01 | GRAND RAPIDS C8C |
| 0261 265130 2006-06-01 | GRAND RAPIDS D8D |
| 0261 265132 2006-08-01 | GRAND RAPIDS F8F |
| 0261 265133 2011-07-01 | GRAND RAPIDS G8G |
| 0261 265134 2006-09-01 | GRAND RAPIDS H8H |
| 0261 265135 2006-09-01 | GRAND RAPIDS I8I |

POOL DESIGNATION (cont'd)

| | |
|------------------------|------------------|
| 0261 265137 2006-10-01 | GRAND RAPIDS K8K |
| 0261 265138 2006-10-01 | GRAND RAPIDS L8L |
| 0261 265139 2006-10-01 | GRAND RAPIDS M8M |
| 0261 265140 2006-10-01 | GRAND RAPIDS N8N |
| 0261 265141 2006-10-01 | GRAND RAPIDS O8O |
| 0261 265142 2006-10-01 | GRAND RAPIDS P8P |
| 0261 265143 2010-04-01 | GRAND RAPIDS Q8Q |
| 0261 265144 2007-05-01 | GRAND RAPIDS R8R |
| 0261 265145 2007-07-01 | GRAND RAPIDS S8S |
| 0261 265146 2007-07-01 | GRAND RAPIDS T8T |
| 0261 265147 2007-07-01 | GRAND RAPIDS U8U |
| 0261 265148 2008-07-01 | GRAND RAPIDS V8V |
| 0261 265149 2017-12-01 | GRAND RAPIDS W8W |
| 0261 265150 2008-08-01 | GRAND RAPIDS X8X |
| 0261 265151 2009-05-01 | GRAND RAPIDS Y8Y |
| 0261 265152 2009-02-01 | GRAND RAPIDS Z8Z |
| 0261 265601 2009-03-01 | GRAND RAPIDS A9A |
| 0261 265602 2010-04-01 | GRAND RAPIDS B9B |
| 0261 265603 2009-10-01 | GRAND RAPIDS C9C |
| 0261 265604 2009-10-01 | GRAND RAPIDS D9D |
| 0261 265605 2009-11-01 | GRAND RAPIDS E9E |
| 0261 265606 2009-12-01 | GRAND RAPIDS F9F |
| 0261 265607 2009-12-01 | GRAND RAPIDS G9G |
| 0261 265608 2009-12-01 | GRAND RAPIDS H9H |
| 0261 265609 2009-12-01 | GRAND RAPIDS I9I |
| 0261 265610 2017-09-01 | GRAND RAPIDS J9J |
| 0261 265611 2010-02-01 | GRAND RAPIDS K9K |
| 0261 265612 2011-07-01 | GRAND RAPIDS L9L |
| 0261 265613 2011-07-01 | GRAND RAPIDS M9M |
| 0261 265614 2011-07-01 | GRAND RAPIDS N9N |
| 0261 265616 2017-08-01 | GRAND RAPIDS P9P |
| 0261 265617 2018-01-01 | GRAND RAPIDS Q9Q |
| | |
| 0261 268001 2008-03-01 | MCLAREN A |
| | |
| 0261 276001 2005-01-01 | SPARKY A |
| 0261 276002 2001-02-01 | SPARKY B |
| 0261 276003 2001-02-01 | SPARKY C |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------|
| 0261 276004 2001-02-01 | SPARKY D |
| 0261 276005 2002-08-01 | SPARKY E |
| 0261 276007 2015-08-01 | SPARKY G |
| 0261 276009 2008-08-01 | SPARKY I |
| 0261 276010 2008-08-01 | SPARKY J |
| | |
| 0261 280001 2001-02-01 | CLEARWATER A |
| 0261 280002 2001-02-01 | CLEARWATER B |
| 0261 280003 2001-02-01 | CLEARWATER C |
| 0261 280004 2001-02-01 | CLEARWATER D |
| 0261 280005 2001-02-01 | CLEARWATER E |
| 0261 280006 2014-08-01 | CLEARWATER F |
| 0261 280007 2006-05-01 | CLEARWATER G |
| 0261 280008 2001-02-01 | CLEARWATER H |
| 0261 280010 2001-02-01 | CLEARWATER J |
| 0261 280012 2010-04-01 | CLEARWATER L |
| 0261 280013 2004-01-01 | CLEARWATER M |
| 0261 280014 2001-04-01 | CLEARWATER N |
| 0261 280016 2005-07-01 | CLEARWATER P |
| 0261 280018 2003-03-01 | CLEARWATER R |
| 0261 280021 2010-04-01 | CLEARWATER U |
| 0261 280022 2015-02-01 | CLEARWATER V |
| 0261 280024 2010-04-01 | CLEARWATER X |
| 0261 280025 2007-12-01 | CLEARWATER Y |
| 0261 280026 2008-07-01 | CLEARWATER Z |
| 0261 280027 2009-05-01 | CLEARWATER AA |
| 0261 280028 2009-05-01 | CLEARWATER BB |
| | |
| 0261 288001 2009-08-01 | REX A |
| | |
| 0261 306002 2001-02-01 | WABISKAW B |
| 0261 306003 2001-02-01 | WABISKAW C |
| 0261 306004 2001-02-01 | WABISKAW D |
| 0261 306005 2001-02-01 | WABISKAW E |
| 0261 306006 2001-02-01 | WABISKAW F |
| 0261 306007 2002-08-01 | WABISKAW G |
| 0261 306008 2001-02-01 | WABISKAW H |
| 0261 306009 2001-02-01 | WABISKAW I |

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------|
| 0261 306010 2010-04-01 | WABISKAW J |
| 0261 306011 2005-07-01 | WABISKAW K |
| 0261 306012 2004-12-01 | WABISKAW L |
| 0261 306013 2005-06-01 | WABISKAW M |
| 0261 306014 2005-07-01 | WABISKAW N |
| 0261 306015 2005-09-01 | WABISKAW O |
| 0261 306016 2007-09-01 | WABISKAW P |
| 0261 306017 2009-05-01 | WABISKAW Q |
| 0261 306018 2010-04-01 | WABISKAW R |
| 0261 306019 2009-05-01 | WABISKAW S |
| | |
| 0261 328003 2010-04-01 | MCMURRAY C |
| 0261 328004 2001-02-01 | MCMURRAY D |
| 0261 328005 2001-02-01 | MCMURRAY E |
| 0261 328006 2001-02-01 | MCMURRAY F |
| 0261 328009 2001-02-01 | MCMURRAY I |
| 0261 328010 2001-02-01 | MCMURRAY J |
| 0261 328011 2014-03-01 | MCMURRAY K |
| 0261 328014 2001-02-01 | MCMURRAY N |
| 0261 328017 2001-02-01 | MCMURRAY Q |
| 0261 328018 2001-02-01 | MCMURRAY R |
| 0261 328019 2001-02-01 | MCMURRAY S |
| 0261 328020 2001-02-01 | MCMURRAY T |
| 0261 328021 2001-02-01 | MCMURRAY U |
| 0261 328022 2001-02-01 | MCMURRAY V |
| 0261 328023 2001-02-01 | MCMURRAY W |
| 0261 328024 2001-02-01 | MCMURRAY X |
| 0261 328025 2001-02-01 | MCMURRAY Y |
| 0261 328026 2006-07-01 | MCMURRAY Z |
| 0261 328027 2008-11-01 | MCMURRAY AA |
| 0261 328028 2001-04-01 | MCMURRAY BB |
| 0261 328029 2010-04-01 | MCMURRAY CC |
| 0261 328030 2005-06-01 | MCMURRAY DD |
| 0261 328031 2008-08-01 | MCMURRAY EE |
| 0261 328032 2009-05-01 | MCMURRAY FF |
| | |
| 0261 716001 2010-04-01 | GROSMONT A |
| 0261 716002 2001-02-01 | GROSMONT B |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|------------|
| 0261 716003 | 2001-02-01 | GROSMONT C |
| 0261 716004 | 2001-02-01 | GROSMONT D |
| 0261 716005 | 2001-02-01 | GROSMONT E |
| 0261 716006 | 2008-06-01 | GROSMONT F |

SPACING PATTERN

| | |
|----------|-------------|
| SU 2644 | 21 Mar 1996 |
| SU 2644A | 30 Nov 1999 |
| SU 2644B | 7 Apr 2004 |
| SU 2644C | 17 Sep 2004 |
| SU 2644D | 29 Oct 2004 |
| SU 2644E | 10 Dec 2004 |
| SU 2644F | 27 Jul 2005 |
| SU 2644G | 12 Dec 2005 |
| SU 2644H | 21 Feb 2006 |
| SU 2644I | 7 Mar 2006 |
| SU 2644J | 26 Sep 2006 |
| SU 2644K | 2 Feb 2007 |

COMMINGLED PRODUCTION

| | |
|---------|-------------|
| MU 8685 | 25 Sep 2014 |
|---------|-------------|

SUBSURFACE DISPOSAL SCHEMES

| | |
|----------|-------------|
| App 7315 | 23 Sep 1993 |
|----------|-------------|

| | |
|-----------|-------------|
| App 7315A | 23 Apr 1999 |
|-----------|-------------|

Class II

Canadian Natural Resources Limited

FIELD DESIGNATION

0262 2014-11-01 CRAIGMYLE FIELD

POOL DESIGNATION

0262 106001 2005-10-01 EDMONTON A

0262 118801 2006-11-01 LOWER EDMONTON A
0262 118802 2006-12-01 LOWER EDMONTON B
0262 118803 2007-07-01 LOWER EDMONTON C
0262 118804 2008-11-01 LOWER EDMONTON D
0262 118805 2009-01-01 LOWER EDMONTON E
0262 118806 2009-07-01 LOWER EDMONTON F
0262 118807 2011-03-01 LOWER EDMONTON G
0262 118808 2011-04-01 LOWER EDMONTON H
0262 118809 2011-04-01 LOWER EDMONTON I
0262 118810 2011-05-01 LOWER EDMONTON J
0262 118811 2013-04-01 LOWER EDMONTON K
0262 118812 2013-06-01 LOWER EDMONTON L
0262 118813 2013-11-01 LOWER EDMONTON M

0262 126014 2001-02-01 BELLY RIVER N

0262 186001 2003-11-01 SECOND WHITE SPECKS A
0262 186003 2003-10-01 SECOND WHITE SPECKS C
0262 186006 2008-12-01 SECOND WHITE SPECKS F

0262 218001 2004-07-01 VIKING A
0262 218002 2001-02-01 VIKING B
0262 218003 2001-02-01 VIKING C
0262 218005 2001-02-01 VIKING E
0262 218006 2004-10-01 VIKING F
0262 218007 2006-12-01 VIKING G
0262 218008 2006-12-01 VIKING H

0262 250001 2004-05-01 UPPER MANNVILLE A
0262 250002 2003-05-01 UPPER MANNVILLE B

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0262 250003 2004-07-01 | UPPER MANNVILLE C |
| 0262 250004 2009-02-01 | UPPER MANNVILLE D |
| 0262 250005 2006-03-01 | UPPER MANNVILLE E |
| 0262 250006 2006-01-01 | UPPER MANNVILLE F |
| 0262 250007 2006-07-01 | UPPER MANNVILLE G |
| 0262 250008 2006-09-01 | UPPER MANNVILLE H |
| 0262 250009 2006-09-01 | UPPER MANNVILLE I |
| 0262 250010 2006-10-01 | UPPER MANNVILLE J |
| 0262 250011 2010-04-01 | UPPER MANNVILLE K |
| 0262 250012 2006-12-01 | UPPER MANNVILLE L |
| 0262 250013 2006-12-01 | UPPER MANNVILLE M |
| 0262 250014 2006-12-01 | UPPER MANNVILLE N |
| 0262 250015 2009-02-01 | UPPER MANNVILLE O |
| 0262 250016 2010-04-01 | UPPER MANNVILLE P |
| 0262 250017 2010-04-01 | UPPER MANNVILLE Q |
| 0262 250018 2010-04-01 | UPPER MANNVILLE R |
| 0262 250019 2007-05-01 | UPPER MANNVILLE S |
| 0262 250020 2011-04-01 | UPPER MANNVILLE T |
| 0262 250021 2013-05-01 | UPPER MANNVILLE U |
| 0262 250022 2013-04-01 | UPPER MANNVILLE V |
| 0262 250023 2013-01-01 | UPPER MANNVILLE W |
| 0262 250024 2013-02-01 | UPPER MANNVILLE X |
| | |
| 0262 316002 2001-02-01 | OSTRACOD B |
| 0262 316003 2001-02-01 | OSTRACOD C |
| 0262 316004 2001-02-01 | OSTRACOD D |
| 0262 316005 2001-02-01 | OSTRACOD E |
| 0262 316006 2001-02-01 | OSTRACOD F |
| 0262 316007 2001-02-01 | OSTRACOD G |
| 0262 316008 2007-07-01 | OSTRACOD H |
| | |
| 0262 336002 2001-02-01 | ELLERSLIE B |
| 0262 336005 2001-02-01 | ELLERSLIE E |
| 0262 336008 2001-02-01 | ELLERSLIE H |
| 0262 336009 2001-02-01 | ELLERSLIE I |
| 0262 336010 2001-02-01 | ELLERSLIE J |
| 0262 336012 2007-06-01 | ELLERSLIE L |
| 0262 336013 2010-04-01 | ELLERSLIE M |

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------------|
| 0262 336014 2006-12-01 | ELLERSLIE N |
| 0262 336015 2006-12-01 | ELLERSLIE O |
| 0262 336016 2009-01-01 | ELLERSLIE P |
| 0262 336017 2013-09-01 | ELLERSLIE Q |
| 0262 336018 2013-09-01 | ELLERSLIE R |
| | |
| 0262 350001 2010-04-01 | DETRITAL A |
| 0262 350002 2001-02-01 | DETRITAL B |
| 0262 350004 2001-02-01 | DETRITAL D |
| 0262 350005 2001-02-01 | DETRITAL E |
| 0262 350006 2001-02-01 | DETRITAL F |
| 0262 350007 2004-07-01 | DETRITAL G |
| 0262 350008 2006-12-01 | DETRITAL H |
| 0262 350009 2006-12-01 | DETRITAL I |
| 0262 350010 2006-12-01 | DETRITAL J |
| 0262 350011 2006-12-01 | DETRITAL K |
| 0262 350012 2013-06-01 | DETRITAL L |
| 0262 350013 2006-12-01 | DETRITAL M |
| | |
| 0262 351001 2017-07-01 | DETRITAL-BANFF A |
| | |
| 0262 644001 2001-02-01 | BANFF A |
| 0262 644003 2010-04-01 | BANFF C |
| 0262 644004 2001-02-01 | BANFF D |
| 0262 644009 2014-05-01 | BANFF I |
| 0262 644012 2001-02-01 | BANFF L |
| 0262 644014 2013-08-01 | BANFF N |
| 0262 644016 2001-02-01 | BANFF P |
| 0262 644017 2001-02-01 | BANFF Q |
| 0262 644018 2001-02-01 | BANFF R |
| 0262 644019 2001-02-01 | BANFF S |
| 0262 644020 2001-02-01 | BANFF T |
| 0262 644021 2003-04-01 | BANFF U |
| 0262 644037 2018-02-01 | BANFF KK |
| | |
| 0262 850600 2011-03-01 | MFP8506 BELLY RIVER |

POOL DESIGNATION (cont'd)

0262 852700 2012-04-01 MFP8527 2WS

0262 854000 2011-01-01 MFP8540 BSL BELLY RIV

SPACING PATTERN

SU 3012 20 Nov 2000
SU 3012A 23 Oct 2002
SU 3012B 16 Sep 2004
SU 3012C 16 Apr 2005
SU 3012D 6 Sep 2005
SU 3012E 29 Sep 2005
SU 3012F 29 Nov 2005
SU 3012G 3 Feb 2006
SU 3012H 23 Feb 2006
SU 3012I 30 Mar 2006
SU 3012J 27 Sep 2007

COMMINGLED PRODUCTION

MU 8557 11 Dec 2013

COMPULSORY POOLING

P 217 4 Mar 2002
P 217A 24 Feb 2009
Gas
22-032-17W4M
Penn West Petroleum Ltd.

FIELD DESIGNATION

0263 2013-09-01 CRANBERRY FIELD

POOL DESIGNATION

0263 612002 2013-10-01 DEBOLT B

0263 758002 2010-04-01 SLAVE POINT B

0263 758004 2011-10-01 SLAVE POINT D

0263 758006 2012-02-01 SLAVE POINT F

0263 765504 2008-06-01 GILWOOD D

SPACING PATTERN

SU 2634 27 Mar 1996

ENHANCED RECOVERY SCHEMES

App 10193G 13 Mar 2018

Waterflood

Slave Point D

Acquisition Oil Corp.

SUBSURFACE DISPOSAL SCHEMES

App 7967A 9 Nov 2012

Class II

Canadian Natural Resources Limited

FIELD DESIGNATION

0268 2001-07-01 CROOKED FIELD

POOL DESIGNATION

0268 218001 2001-02-01 VIKING A

0268 250001 2001-02-01 UPPER MANNVILLE A

0268 262001 2010-04-01 GRAND RAPIDS A

0268 262002 2001-02-01 GRAND RAPIDS B

0268 262004 2001-02-01 GRAND RAPIDS D

0268 262005 2001-02-01 GRAND RAPIDS E

0268 262006 2001-02-01 GRAND RAPIDS F

0268 262007 2004-09-01 GRAND RAPIDS G

0268 262008 2001-03-01 GRAND RAPIDS H

0268 262009 2004-07-01 GRAND RAPIDS I

0268 262010 2002-02-01 GRAND RAPIDS J

0268 262011 2004-05-01 GRAND RAPIDS K

0268 262012 2005-09-01 GRAND RAPIDS L

0268 262013 2006-04-01 GRAND RAPIDS M

0268 262014 2006-04-01 GRAND RAPIDS N

0268 262015 2011-08-01 GRAND RAPIDS O

0268 262016 2006-07-01 GRAND RAPIDS P

0268 262017 2007-12-01 GRAND RAPIDS Q

0268 262018 2007-12-01 GRAND RAPIDS R

0268 262019 2010-07-01 GRAND RAPIDS S

0268 262020 2011-04-01 GRAND RAPIDS T

0268 270001 2002-05-01 WASECA A

0268 280001 2001-02-01 CLEARWATER A

0268 658001 2001-02-01 WABAMUN A

0268 658002 2001-02-01 WABAMUN B

0268 658003 2001-02-01 WABAMUN C

COMMINGLED PRODUCTION

MU 5325 8 Mar 2006

SUBSURFACE DISPOSAL SCHEMES

App 11309 18 Mar 2009

Class II

Canadian Natural Resources Limited

FIELD DESIGNATION

0267 2016-09-01 CROSSFIELD FIELD

POOL DESIGNATION

0267 106001 2011-03-01 EDMONTON A
0267 106002 2016-09-01 EDMONTON B
0267 106003 2016-09-01 EDMONTON C

0267 118804 2011-02-01 LOWER EDMONTON D
0267 118805 2011-03-01 LOWER EDMONTON E
0267 118806 2011-10-01 LOWER EDMONTON F
0267 118807 2016-09-01 LOWER EDMONTON G

0267 134001 2010-04-01 BASAL BELLY RIVER A
0267 134002 2011-02-01 BASAL BELLY RIVER B
0267 134005 2006-06-01 BASAL BELLY RIVER E
0267 134007 2007-12-01 BASAL BELLY RIVER G
0267 134008 2010-04-01 BASAL BELLY RIVER H
0267 134009 2009-01-01 BASAL BELLY RIVER I

0267 158001 2013-09-01 MILK RIVER A

0267 176001 2013-12-01 CARDIUM A
0267 176002 2010-04-01 CARDIUM B
0267 176003 2001-02-01 CARDIUM C
0267 176004 2014-04-01 CARDIUM D
0267 176005 2016-09-01 CARDIUM E
0267 176006 2016-09-01 CARDIUM F
0267 176007 2016-09-01 CARDIUM G

0267 184001 2010-04-01 JUMPING POUND A

0267 186001 2001-02-01 SECOND WHITE SPECKS A
0267 186002 2001-02-01 SECOND WHITE SPECKS B

0267 218001 2011-03-01 VIKING A

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0267 218002 2010-04-01 | VIKING B |
| 0267 218003 2001-02-01 | VIKING C |
| 0267 218005 2001-02-01 | VIKING E |
| 0267 218006 2001-03-01 | VIKING F |
| 0267 218007 2005-11-01 | VIKING G |
| 0267 218008 2009-01-01 | VIKING H |
| 0267 218009 2012-10-01 | VIKING I |
| 0267 218010 2009-12-01 | VIKING J |
| 0267 218011 2012-07-01 | VIKING K |
| 0267 218012 2013-03-01 | VIKING L |
| 0267 218014 2013-03-01 | VIKING N |
| 0267 218015 2013-03-01 | VIKING O |
| 0267 218016 2013-09-01 | VIKING P |
| 0267 218017 2013-10-01 | VIKING Q |
| 0267 218018 2015-04-01 | VIKING R |
| 0267 218019 2016-09-01 | VIKING S |
| 0267 218020 2016-09-01 | VIKING T |
| 0267 218021 2016-09-01 | VIKING U |
| 0267 218022 2016-09-01 | VIKING V |
| 0267 218023 2016-09-01 | VIKING W |
| 0267 218024 2016-09-01 | VIKING X |
| 0267 218025 2016-09-01 | VIKING Y |
| 0267 218026 2016-09-01 | VIKING Z |
| 0267 218027 2016-09-01 | VIKING AA |
| 0267 218028 2016-09-01 | VIKING BB |
| | |
| 0267 316001 2010-04-01 | OSTRACOD A |
| 0267 316002 2010-04-01 | OSTRACOD B |
| 0267 316004 2016-09-01 | OSTRACOD D |
| | |
| 0267 334001 2010-04-01 | BASAL QUARTZ A |
| 0267 334002 2001-02-01 | BASAL QUARTZ B |
| 0267 334003 2016-07-01 | BASAL QUARTZ C |
| 0267 334007 2013-04-01 | BASAL QUARTZ G |
| 0267 334011 2008-02-01 | BASAL QUARTZ K |
| 0267 334013 2003-01-01 | BASAL QUARTZ M |
| 0267 334014 2003-03-01 | BASAL QUARTZ N |
| 0267 334015 2003-01-01 | BASAL QUARTZ O |

POOL DESIGNATION (cont'd)

| | |
|------------------------|----------------|
| 0267 334016 2002-02-01 | BASAL QUARTZ P |
| 0267 334019 2003-07-01 | BASAL QUARTZ S |
| 0267 334020 2003-09-01 | BASAL QUARTZ T |
| 0267 334021 2006-07-01 | BASAL QUARTZ U |
| 0267 334023 2016-09-01 | BASAL QUARTZ W |
| 0267 334024 2016-09-01 | BASAL QUARTZ X |
| 0267 334025 2016-09-01 | BASAL QUARTZ Y |
| | |
| 0267 336005 2007-02-01 | ELLERSLIE E |
| 0267 336006 2011-12-01 | ELLERSLIE F |
| 0267 336007 2008-12-01 | ELLERSLIE G |
| 0267 336008 2009-11-01 | ELLERSLIE H |
| 0267 336011 2016-09-01 | ELLERSLIE K |
| | |
| 0267 432001 2001-02-01 | ROCK CREEK A |
| 0267 432002 2001-02-01 | ROCK CREEK B |
| 0267 432003 2001-08-01 | ROCK CREEK C |
| 0267 432004 2016-09-01 | ROCK CREEK D |
| | |
| 0267 610001 2011-05-01 | RUNDLE A |
| 0267 610002 2010-04-01 | RUNDLE B |
| 0267 610003 2011-05-01 | RUNDLE C |
| 0267 610005 2001-02-01 | RUNDLE E |
| 0267 610006 2001-02-01 | RUNDLE F |
| 0267 610007 2010-04-01 | RUNDLE G |
| 0267 610008 2001-02-01 | RUNDLE H |
| 0267 610009 2001-02-01 | RUNDLE I |
| 0267 610010 2001-02-01 | RUNDLE J |
| 0267 610011 2008-04-01 | RUNDLE K |
| 0267 610012 2001-02-01 | RUNDLE L |
| 0267 610013 2001-02-01 | RUNDLE M |
| 0267 610014 2001-02-01 | RUNDLE N |
| 0267 610015 2001-02-01 | RUNDLE O |
| 0267 610016 2002-08-01 | RUNDLE P |
| 0267 610017 2002-08-01 | RUNDLE Q |
| 0267 610019 2001-04-01 | RUNDLE S |
| | |
| 0267 638001 2016-09-01 | ELKTON A |

POOL DESIGNATION (cont'd)

| | | |
|-------------|------------|----------------------|
| 0267 638002 | 2016-09-01 | ELKTON B |
| 0267 638003 | 2016-09-01 | ELKTON C |
| 0267 638004 | 2016-09-01 | ELKTON D |
| 0267 658001 | 2010-04-01 | WABAMUN A |
| 0267 658002 | 2003-06-01 | WABAMUN B |
| 0267 850600 | 2011-01-01 | MFP8506 BELLY RIVER |
| 0267 858600 | 2011-02-01 | MFP8586 LWR EDMONTON |

SPACING PATTERN

| | |
|----------|-------------|
| SU 2878 | 6 May 1998 |
| SU 2878A | 20 Nov 2000 |
| SU 2878B | 17 Oct 2001 |
| SU 2878C | 24 Jun 2003 |

MISCELLANEOUS ORDERS

MISC 7008 1 May 1970
Batteries comply with sec. 604 of regs.

COMMINGLED PRODUCTION

MU 8803 2 Sep 2016

ENHANCED RECOVERY SCHEMES

App 2069F 1 Oct 2015
Waterflood
Cardium A
Bonavista Energy Corporation

App 2016D 25 Sep 2015
Waterflood
Cardium A
Bonavista Energy Corporation

SUBSURFACE DISPOSAL SCHEMES

App 9173B 7 Sep 2016
Class II
Bonavista Energy Corporation

App 8382D 19 Feb 2015
Class II
Four Winds Energy Services Ltd.

App 7079D 8 Aug 2013
Class Ib
Nexen Energy ULC

App 8312B 6 Aug 2014
Class II
MFC Energy Corporation

COMPULSORY POOLING

P 20 18 Jan 1962
P 20A 24 Jul 1962
Oil or Gas
01-026-01W5M
Bailey Selburn Oil & Gas Ltd.

COMPULSORY POOLING (cont'd)

P 21 18 Jan 1962
P 21A 7 Aug 1962
P 21B 9 Jan 1980
Gas
08-026-28 W4M
Esso Resources Canada Limited

P 22 25 Jan 1962
P 22A 22 Apr 1988
P 22B 7 May 1990
Oil or Gas
E1/2, 23-27-2 W5M
NCE Oil & Gas (88-1) Ltd.

P 106 17 Jan 1991
Gas
18-028-01W5M
Canadian Western Natural Gas Co. Ltd.

P 259 25 Oct 2004
Gas
Section 26-027-28W4M
Cabrerria Resources Lt.

P 267 31 Jan 2005
P 267A 13 Sep 2005
P 267B 9 Mar 2006
P 267C 20 Jun 2007
Gas
26-023-28W4M
Compton Petroleum Corporation

P 273 22 Apr 2005
P 273A 26 Oct 2005
P 273B 5 May 2006
Gas
24-024-28W4M
Bears paw Petroleum Ltd.

COMPULSORY POOLING (cont'd)

P 280 24 Jun 2005
P 280A 21 Mar 2006
Gas
24-025-28W4M
Castle Rock Petroleum Ltd.

FIELD DESIGNATION

0269 2015-12-01 CROSSFIELD EAST FIELD

POOL DESIGNATION

0269 106002 2004-06-01 EDMONTON B

0269 118801 2007-03-01 LOWER EDMONTON A

0269 176002 2012-01-01 CARDIUM B

0269 176004 2010-04-01 CARDIUM D

0269 176006 2001-02-01 CARDIUM F

0269 218001 2015-12-01 VIKING A

0269 218002 2001-11-01 VIKING B

0269 218003 2002-05-01 VIKING C

0269 218004 2006-03-01 VIKING D

0269 218005 2005-11-01 VIKING E

0269 218006 2013-08-01 VIKING F

0269 218007 2009-10-01 VIKING G

0269 218008 2009-10-01 VIKING H

0269 218009 2009-10-01 VIKING I

0269 218010 2009-11-01 VIKING J

0269 218011 2011-11-01 VIKING K

0269 300001 2010-04-01 GLAUCONITIC A

0269 300002 2013-06-01 GLAUCONITIC B

0269 334001 2001-02-01 BASAL QUARTZ A

0269 334002 2006-05-01 BASAL QUARTZ B

0269 334003 2010-04-01 BASAL QUARTZ C

0269 336001 2001-02-01 ELLERSLIE A

0269 336003 2001-02-01 ELLERSLIE C

0269 336004 2010-04-01 ELLERSLIE D

0269 336005 2006-09-01 ELLERSLIE E

0269 336006 2010-05-01 ELLERSLIE F

POOL DESIGNATION (cont'd)

0269 336007 2011-07-01 ELLERSLIE G
0269 336008 2014-06-01 ELLERSLIE H
0269 336009 2014-06-01 ELLERSLIE I
0269 336010 2012-10-01 ELLERSLIE J
0269 336011 2013-03-01 ELLERSLIE K
0269 336012 2014-10-01 ELLERSLIE L

0269 638001 2001-02-01 ELKTON A
0269 638004 2016-06-01 ELKTON D
0269 638005 2001-02-01 ELKTON E
0269 638006 2010-04-01 ELKTON F
0269 638007 2002-02-01 ELKTON G
0269 638008 2001-02-01 ELKTON H
0269 638009 2001-02-01 ELKTON I
0269 638010 2002-02-01 ELKTON J

0269 642001 2001-02-01 PEKISKO A
0269 642002 2009-03-01 PEKISKO B
0269 642003 2008-08-01 PEKISKO C

0269 658001 2010-04-01 WABAMUN A
0269 658004 2006-06-01 WABAMUN D

SPACING PATTERN

SU 2422 12 Dec 1995
SU 2422A 13 Mar 1996
SU 2422B 22 Aug 1996
SU 2422C 12 Nov 1996
SU 2422D 19 Oct 1999
SU 2422F 15 Dec 2005
SU 2422G 4 Oct 2007

COMMINGLED PRODUCTION

MU 8166 26 Oct 2011

GAS STORAGE SCHEMES

App 7607E 2 Jul 2014
Elkton A and D
TransCanada Energy Ltd.

GAS ALLOWABLE

GA 327 10 Jul 1992

SUBSURFACE DISPOSAL SCHEMES

App 4615D 21 Jul 2017
Class II
Taqa North Ltd.

COMPULSORY POOLING

P 138 31 Jan 1996

P 138A 3 Mar 2014

Gas

08-030-01W5M

Berkley Petroleum Corp.

FIELD DESIGNATION

0270 2001-12-01 CULP FIELD

POOL DESIGNATION

0270 230001 2005-05-01 PADDY A

0270 304001 2001-02-01 BLUESKY A
0270 304002 2004-10-01 BLUESKY B
0270 304003 2005-11-01 BLUESKY C

0270 326001 2011-10-01 GETHING A

0270 524001 2009-01-01 MONTNEY A
0270 524002 2001-12-01 MONTNEY B
0270 524003 2002-01-01 MONTNEY C
0270 524004 2002-01-01 MONTNEY D
0270 524005 2002-01-01 MONTNEY E
0270 524006 2002-02-01 MONTNEY F
0270 524007 2002-02-01 MONTNEY G
0270 524008 2002-02-01 MONTNEY H
0270 524009 2009-02-01 MONTNEY I
0270 524010 2002-03-01 MONTNEY J
0270 524011 2002-05-01 MONTNEY K
0270 524012 2002-06-01 MONTNEY L
0270 524013 2002-10-01 MONTNEY M
0270 524014 2010-04-01 MONTNEY N
0270 524015 2008-02-01 MONTNEY O
0270 524016 2013-09-01 MONTNEY P

0270 556001 2002-02-01 BELLOY A

0270 612001 2001-02-01 DEBOLT A
0270 612002 2010-04-01 DEBOLT B
0270 612003 2015-02-01 DEBOLT C
0270 612004 2010-04-01 DEBOLT D
0270 612005 2010-04-01 DEBOLT E

POOL DESIGNATION (cont'd)

| | |
|------------------------|-------------------|
| 0270 612006 2010-04-01 | DEBOLT F |
| 0270 612007 2004-12-01 | DEBOLT G |
| 0270 612008 2005-12-01 | DEBOLT H |
| 0270 612009 2010-01-01 | DEBOLT I |
| | |
| 0270 638001 2001-02-01 | ELKTON A |
| | |
| 0270 658001 2010-04-01 | WABAMUN A |
| 0270 658002 2001-02-01 | WABAMUN B |
| 0270 658003 2010-04-01 | WABAMUN C |
| 0270 658004 2001-02-01 | WABAMUN D |
| 0270 658005 2001-02-01 | WABAMUN E |
| 0270 658006 2010-04-01 | WABAMUN F |
| 0270 658007 2001-02-01 | WABAMUN G |
| 0270 658008 2001-02-01 | WABAMUN H |
| 0270 658009 2001-02-01 | WABAMUN I |
| 0270 658010 2001-02-01 | WABAMUN J |
| 0270 658011 2001-02-01 | WABAMUN K |
| 0270 658012 2001-04-01 | WABAMUN L |
| 0270 658013 2002-03-01 | WABAMUN M |
| 0270 658014 2002-05-01 | WABAMUN N |
| 0270 658015 2003-12-01 | WABAMUN O |
| 0270 658016 2008-04-01 | WABAMUN P |
| 0270 658017 2008-04-01 | WABAMUN Q |
| 0270 658018 2013-05-01 | WABAMUN R |
| | |
| 0270 744001 2009-08-01 | BEAVERHILL LAKE A |
| | |
| 0270 797501 2008-06-01 | GRANITE WASH A |

SPACING PATTERN

| | |
|----------|-------------|
| SU 2285 | 12 Jul 1995 |
| SU 2285A | 8 Dec 1998 |
| SU 2285B | 12 May 2000 |

COMMINGLED PRODUCTION

| | |
|---------|------------|
| MU 4815 | 4 Nov 2005 |
|---------|------------|

FIELD DESIGNATION

1043 2012-03-01 CUTPICK FIELD

POOL DESIGNATION

1043 154001 2010-04-01 CHINOOK A
1043 154003 2011-12-01 CHINOOK C

1043 176001 2011-04-01 CARDIUM A
1043 176002 2010-12-01 CARDIUM B
1043 176005 2011-03-01 CARDIUM E
1043 176009 2009-10-01 CARDIUM I

1043 192001 2006-05-01 DUNVEGAN A
1043 192002 2008-11-01 DUNVEGAN B

1043 232001 2011-11-01 CADOTTE A
1043 232004 2010-04-01 CADOTTE D
1043 232006 2008-03-01 CADOTTE F
1043 232007 2013-10-01 CADOTTE G

1043 266001 2013-10-01 NOTIKEWIN A

1043 271502 2013-10-01 FALHER B

1043 326001 2007-03-01 GETHING A
1043 326002 2007-12-01 GETHING B

1043 348001 2007-12-01 CADOMIN A
1043 348002 2010-05-01 CADOMIN B

1043 408001 2012-01-01 NIKANASSIN A

SPACING PATTERN

SU 3085 8 Feb 2002

COMMINGLED PRODUCTION

MU 8403 27 Jul 2012

FIELD DESIGNATION

0321 2018-06-01 CYGNET FIELD

POOL DESIGNATION

0321 064001 2007-03-01 PASKAPOO A
0321 064002 2010-05-01 PASKAPOO B

0321 106003 2009-04-01 EDMONTON C
0321 106008 2007-03-01 EDMONTON H
0321 106010 2006-01-01 EDMONTON J
0321 106014 2013-12-01 EDMONTON N
0321 106025 2011-04-01 EDMONTON Y
0321 106026 2011-05-01 EDMONTON Z

0321 118801 2013-12-01 LOWER EDMONTON A
0321 118804 2007-11-01 LOWER EDMONTON D
0321 118805 2013-12-01 LOWER EDMONTON E
0321 118806 2013-12-01 LOWER EDMONTON F
0321 118807 2010-04-01 LOWER EDMONTON G
0321 118808 2013-12-01 LOWER EDMONTON H
0321 118809 2006-11-01 LOWER EDMONTON I
0321 118812 2009-03-01 LOWER EDMONTON L
0321 118813 2009-03-01 LOWER EDMONTON M
0321 118814 2011-04-01 LOWER EDMONTON N
0321 118815 2012-06-01 LOWER EDMONTON O

0321 126002 2006-03-01 BELLY RIVER B

0321 134001 2005-06-01 BASAL BELLY RIVER A

0321 218001 2010-04-01 VIKING A
0321 218003 2003-05-01 VIKING C
0321 218006 2001-02-01 VIKING F
0321 218007 2010-04-01 VIKING G
0321 218008 2010-04-01 VIKING H
0321 218010 2001-02-01 VIKING J

POOL DESIGNATION (cont'd)

| | |
|------------------------|---------------|
| 0321 218011 2001-02-01 | VIKING K |
| 0321 218013 2001-02-01 | VIKING M |
| 0321 218014 2010-04-01 | VIKING N |
| 0321 218015 2010-04-01 | VIKING O |
| 0321 218016 2009-02-01 | VIKING P |
| 0321 218017 2001-02-01 | VIKING Q |
| 0321 218018 2010-04-01 | VIKING R |
| 0321 218020 2010-04-01 | VIKING T |
| 0321 218021 2001-09-01 | VIKING U |
| 0321 218022 2002-04-01 | VIKING V |
| 0321 218023 2003-12-01 | VIKING W |
| 0321 218024 2008-10-01 | VIKING X |
| 0321 218025 2010-12-01 | VIKING Y |
| | |
| 0321 300001 2001-02-01 | GLAUCONITIC A |
| 0321 300002 2001-02-01 | GLAUCONITIC B |
| 0321 300003 2001-02-01 | GLAUCONITIC C |
| 0321 300004 2001-02-01 | GLAUCONITIC D |
| 0321 300005 2001-02-01 | GLAUCONITIC E |
| 0321 300006 2001-02-01 | GLAUCONITIC F |
| 0321 300007 2001-02-01 | GLAUCONITIC G |
| 0321 300008 2003-07-01 | GLAUCONITIC H |
| 0321 300009 2001-02-01 | GLAUCONITIC I |
| 0321 300010 2001-02-01 | GLAUCONITIC J |
| 0321 300012 2001-02-01 | GLAUCONITIC L |
| 0321 300013 2005-05-01 | GLAUCONITIC M |
| 0321 300014 2008-02-01 | GLAUCONITIC N |
| | |
| 0321 316001 2002-02-01 | OSTRACOD A |
| | |
| 0321 336001 2001-02-01 | ELLERSLIE A |
| 0321 336002 2001-02-01 | ELLERSLIE B |
| 0321 336003 2001-02-01 | ELLERSLIE C |
| 0321 336004 2001-02-01 | ELLERSLIE D |
| 0321 336005 2001-02-01 | ELLERSLIE E |
| 0321 336006 2001-02-01 | ELLERSLIE F |
| 0321 336007 2001-02-01 | ELLERSLIE G |
| 0321 336008 2001-02-01 | ELLERSLIE H |

POOL DESIGNATION (cont'd)

| | |
|------------------------|--------------|
| 0321 336009 2001-02-01 | ELLERSLIE I |
| 0321 336010 2001-02-01 | ELLERSLIE J |
| 0321 336011 2001-02-01 | ELLERSLIE K |
| 0321 336012 2007-01-01 | ELLERSLIE L |
| 0321 336013 2001-02-01 | ELLERSLIE M |
| 0321 336014 2001-02-01 | ELLERSLIE N |
| 0321 336017 2001-02-01 | ELLERSLIE Q |
| 0321 336018 2001-02-01 | ELLERSLIE R |
| 0321 336019 2010-04-01 | ELLERSLIE S |
| 0321 336020 2001-02-01 | ELLERSLIE T |
| 0321 336021 2002-05-01 | ELLERSLIE U |
| 0321 336022 2001-02-01 | ELLERSLIE V |
| 0321 336023 2001-02-01 | ELLERSLIE W |
| 0321 336024 2001-02-01 | ELLERSLIE X |
| 0321 336025 2012-12-01 | ELLERSLIE Y |
| 0321 336026 2001-02-01 | ELLERSLIE Z |
| 0321 336027 2005-10-01 | ELLERSLIE AA |
| 0321 336028 2005-11-01 | ELLERSLIE BB |
| 0321 336029 2009-07-01 | ELLERSLIE CC |
| 0321 336030 2010-03-01 | ELLERSLIE DD |
| 0321 336031 2009-09-01 | ELLERSLIE EE |
| 0321 336032 2009-04-01 | ELLERSLIE FF |
| 0321 336034 2010-01-01 | ELLERSLIE HH |
| 0321 336035 2010-07-01 | ELLERSLIE II |
| 0321 336036 2010-07-01 | ELLERSLIE JJ |
| 0321 336037 2013-05-01 | ELLERSLIE KK |
| 0321 642001 2010-04-01 | PEKISKO A |
| 0321 642002 2001-02-01 | PEKISKO B |
| 0321 728001 2013-11-01 | DUVERNAY A |
| 0321 728002 2017-07-01 | DUVERNAY B |
| 0321 728003 2018-06-01 | DUVERNAY C |
| 0321 728004 2018-05-01 | DUVERNAY D |
| 0321 728005 2018-06-01 | DUVERNAY E |
| 0321 728006 2018-06-01 | DUVERNAY F |
| 0321 728007 2018-06-01 | DUVERNAY G |

POOL DESIGNATION (cont'd)

0321 728008 2018-06-01 DUVERNAY H

0321 857400 2011-11-01 MFP8574 EDMONTON

SPACING PATTERN

SU 4335 27 Mar 2006
SU 4335A 29 May 2006
SU 4335B 18 Oct 2007

COMMINGLED PRODUCTION

MU 7989 5 Aug 2011

CONCURRENT PRODUCTION

MISC 8808 6 May 1988
MISC 8808A 18 Jul 1989
Pekisko A

COMPULSORY POOLING

P 282 13 Sep 2005
Gas
09-038-28W4M
Tempest Energy Corp.

FIELD DESIGNATION

1044 2005-11-01 CYPRESS FIELD

POOL DESIGNATION

1044 134001 2010-12-01 BASAL BELLY RIVER A

1044 186001 2010-04-01 SECOND WHITE SPECKS A

FIELD DESIGNATION

0312 2005-05-01 CZAR FIELD

POOL DESIGNATION

0312 218001 2008-02-01 VIKING A
0312 218002 2011-06-01 VIKING B

0312 250001 2001-02-01 UPPER MANNVILLE A
0312 250002 2001-02-01 UPPER MANNVILLE B
0312 250003 2001-02-01 UPPER MANNVILLE C
0312 250004 2001-02-01 UPPER MANNVILLE D
0312 250005 2001-02-01 UPPER MANNVILLE E
0312 250006 2001-02-01 UPPER MANNVILLE F
0312 250008 2001-02-01 UPPER MANNVILLE H
0312 250009 2001-02-01 UPPER MANNVILLE I
0312 250010 2001-02-01 UPPER MANNVILLE J
0312 250011 2001-02-01 UPPER MANNVILLE K
0312 250013 2001-02-01 UPPER MANNVILLE M
0312 250014 2001-02-01 UPPER MANNVILLE N
0312 250015 2001-02-01 UPPER MANNVILLE O
0312 250016 2001-02-01 UPPER MANNVILLE P
0312 250017 2001-03-01 UPPER MANNVILLE Q
0312 250018 2001-03-01 UPPER MANNVILLE R
0312 250019 2005-05-01 UPPER MANNVILLE S
0312 250020 2005-11-01 UPPER MANNVILLE T
0312 250021 2007-07-01 UPPER MANNVILLE U
0312 250022 2007-07-01 UPPER MANNVILLE V
0312 250023 2009-08-01 UPPER MANNVILLE W
0312 250024 2010-07-01 UPPER MANNVILLE X
0312 250025 2010-11-01 UPPER MANNVILLE Y

COMMINGLED PRODUCTION

MU 4943 29 Nov 2005