

**FIELD DESIGNATION**

0003 2017-03-01 ABEE FIELD

**POOL DESIGNATION**

0003 126001 2012-07-01 BELLY RIVER A  
0003 126002 2001-03-01 BELLY RIVER B  
0003 126003 2001-03-01 BELLY RIVER C  
0003 126004 2001-03-01 BELLY RIVER D  
0003 126005 2001-11-01 BELLY RIVER E  
0003 126006 2003-08-01 BELLY RIVER F  
0003 126007 2003-03-01 BELLY RIVER G  
0003 126009 2004-10-01 BELLY RIVER I  
0003 126011 2006-06-01 BELLY RIVER K  
0003 126012 2006-09-01 BELLY RIVER L

0003 134001 2005-06-01 BASAL BELLY RIVER A  
0003 134002 2005-06-01 BASAL BELLY RIVER B  
0003 134003 2012-03-01 BASAL BELLY RIVER C

0003 186001 2001-10-01 SECOND WHITE SPECKS A  
0003 186002 2004-05-01 SECOND WHITE SPECKS B  
0003 186003 2013-04-01 SECOND WHITE SPECKS C

0003 218001 2012-11-01 VIKING A  
0003 218002 2001-02-01 VIKING B  
0003 218003 2001-02-01 VIKING C  
0003 218004 2001-02-01 VIKING D  
0003 218005 2001-02-01 VIKING E  
0003 218006 2001-03-01 VIKING F  
0003 218007 2001-03-01 VIKING G  
0003 218008 2012-03-01 VIKING H

0003 248001 2001-02-01 MANNVILLE A  
0003 248002 2001-02-01 MANNVILLE B  
0003 248006 2001-02-01 MANNVILLE F  
0003 248007 2001-02-01 MANNVILLE G

**POOL DESIGNATION (cont'd)**

0003 248008 2001-02-01	MANNVILLE H
0003 248009 2001-02-01	MANNVILLE I
0003 248010 2001-02-01	MANNVILLE J
0003 248011 2001-02-01	MANNVILLE K
0003 248012 2001-02-01	MANNVILLE L
0003 248013 2001-02-01	MANNVILLE M
0003 248014 2011-09-01	MANNVILLE N
0003 248015 2001-02-01	MANNVILLE O
0003 248016 2012-11-01	MANNVILLE P
0003 248017 2001-02-01	MANNVILLE Q
0003 248018 2001-02-01	MANNVILLE R
0003 248019 2001-02-01	MANNVILLE S
0003 248020 2001-02-01	MANNVILLE T
0003 248021 2001-02-01	MANNVILLE U
0003 248022 2001-02-01	MANNVILLE V
0003 248023 2001-02-01	MANNVILLE W
0003 248024 2011-05-01	MANNVILLE X
0003 248025 2012-03-01	MANNVILLE Y
0003 248026 2010-04-01	MANNVILLE Z
0003 248027 2001-02-01	MANNVILLE AA
0003 248028 2001-02-01	MANNVILLE BB
0003 248029 2001-02-01	MANNVILLE CC
0003 248031 2001-02-01	MANNVILLE EE
0003 248032 2001-02-01	MANNVILLE FF
0003 248033 2001-02-01	MANNVILLE GG
0003 248034 2001-02-01	MANNVILLE HH
0003 248036 2001-02-01	MANNVILLE JJ
0003 248037 2001-02-01	MANNVILLE KK
0003 248038 2001-02-01	MANNVILLE LL
0003 248039 2013-04-01	MANNVILLE MM
0003 248040 2013-04-01	MANNVILLE NN
0003 248041 2001-02-01	MANNVILLE OO
0003 248042 2001-02-01	MANNVILLE PP
0003 248043 2001-02-01	MANNVILLE QQ
0003 248044 2001-02-01	MANNVILLE RR
0003 248045 2012-02-01	MANNVILLE SS
0003 248046 2001-02-01	MANNVILLE TT
0003 248047 2012-03-01	MANNVILLE UU

**POOL DESIGNATION (cont'd)**

0003 248048 2001-02-01	MANNVILLE VV
0003 248049 2001-02-01	MANNVILLE WW
0003 248050 2004-07-01	MANNVILLE XX
0003 248051 2001-02-01	MANNVILLE YY
0003 248052 2014-02-01	MANNVILLE ZZ
0003 248101 2001-02-01	MANNVILLE AAA
0003 248102 2001-02-01	MANNVILLE BBB
0003 248103 2010-04-01	MANNVILLE CCC
0003 248104 2001-02-01	MANNVILLE DDD
0003 248105 2001-02-01	MANNVILLE EEE
0003 248106 2001-02-01	MANNVILLE FFF
0003 248107 2001-02-01	MANNVILLE GGG
0003 248108 2001-02-01	MANNVILLE HHH
0003 248109 2001-02-01	MANNVILLE III
0003 248110 2006-01-01	MANNVILLE JJJ
0003 248111 2001-02-01	MANNVILLE KKK
0003 248112 2001-02-01	MANNVILLE LLL
0003 248113 2001-02-01	MANNVILLE MMM
0003 248114 2001-02-01	MANNVILLE NNN
0003 248115 2001-02-01	MANNVILLE OOO
0003 248116 2001-03-01	MANNVILLE PPP
0003 248118 2001-03-01	MANNVILLE RRR
0003 248119 2001-03-01	MANNVILLE SSS
0003 248121 2010-04-01	MANNVILLE UUU
0003 248122 2010-04-01	MANNVILLE VVV
0003 248123 2002-09-01	MANNVILLE WWW
0003 248124 2012-03-01	MANNVILLE XXX
0003 248125 2012-03-01	MANNVILLE YYY
0003 248126 2005-01-01	MANNVILLE ZZZ
0003 248127 2004-08-01	MANNVILLE A2A
0003 248128 2005-01-01	MANNVILLE B2B
0003 248129 2005-05-01	MANNVILLE C2C
0003 248130 2005-02-01	MANNVILLE D2D
0003 248131 2005-02-01	MANNVILLE E2E
0003 248132 2005-05-01	MANNVILLE F2F
0003 248133 2006-01-01	MANNVILLE G2G
0003 248134 2005-05-01	MANNVILLE H2H
0003 248135 2012-06-01	MANNVILLE I2I

**POOL DESIGNATION (cont'd)**

0003 248136 2007-06-01 MANNVILLE J2J  
0003 248137 2007-11-01 MANNVILLE K2K  
0003 248138 2007-11-01 MANNVILLE L2L  
0003 248139 2011-08-01 MANNVILLE M2M  
0003 248140 2012-03-01 MANNVILLE N2N  
0003 248141 2012-03-01 MANNVILLE O2O

0003 280001 2001-02-01 CLEARWATER A  
0003 280002 2001-02-01 CLEARWATER B  
0003 280003 2017-03-01 CLEARWATER C

0003 300001 2001-02-01 GLAUCONITIC A  
0003 300002 2001-02-01 GLAUCONITIC B  
0003 300004 2001-02-01 GLAUCONITIC D  
0003 300005 2010-04-01 GLAUCONITIC E  
0003 300006 2001-02-01 GLAUCONITIC F  
0003 300007 2001-02-01 GLAUCONITIC G  
0003 300008 2011-02-01 GLAUCONITIC H  
0003 300009 2001-03-01 GLAUCONITIC I  
0003 300010 2001-12-01 GLAUCONITIC J  
0003 300011 2006-04-01 GLAUCONITIC K  
0003 300012 2011-04-01 GLAUCONITIC L

0003 658001 2010-04-01 WABAMUN A  
0003 658002 2001-02-01 WABAMUN B  
0003 658004 2001-02-01 WABAMUN D  
0003 658005 2001-02-01 WABAMUN E

**SPACING PATTERN**

SU 2538 8 Feb 1996

**COMMINGLED PRODUCTION**

MU 6182 26 Oct 2006

**SUBSURFACE DISPOSAL SCHEMES**

App 10117A 3 Oct 2012  
Class II  
Direct Energy Marketing Limited

**FIELD DESIGNATION**

0006 2010-03-01 ACADIA FIELD

**POOL DESIGNATION**

0006 250001 2001-02-01 UPPER MANNVILLE A

0006 250002 2010-02-01 UPPER MANNVILLE B

0006 350001 2010-03-01 DETRITAL A

0006 350002 2010-03-01 DETRITAL B

0006 350003 2013-05-01 DETRITAL C

**FIELD DESIGNATION**

0009 2014-06-01           ACHESON FIELD

**POOL DESIGNATION**

0009 126001 2001-03-01   BELLY RIVER A

0009 218001 2010-04-01   VIKING A

0009 218002 2001-02-01   VIKING B

0009 218003 2010-04-01   VIKING C

0009 218004 2007-09-01   VIKING D

0009 218005 2007-09-01   VIKING E

0009 244001 2001-02-01   BLAIRMORE A

0009 244002 2001-02-01   BLAIRMORE B

0009 244003 2001-07-01   BLAIRMORE C

0009 244004 2010-04-01   BLAIRMORE D

0009 244005 2001-02-01   BLAIRMORE E

0009 244006 2001-02-01   BLAIRMORE F

0009 244009 2010-04-01   BLAIRMORE I

0009 244010 2001-07-01   BLAIRMORE J

0009 244011 2003-11-01   BLAIRMORE K

0009 244012 2001-02-01   BLAIRMORE L

0009 244016 2001-02-01   BLAIRMORE P

0009 244019 2006-06-01   BLAIRMORE S

0009 244021 2001-02-01   BLAIRMORE U

0009 244022 2010-04-01   BLAIRMORE V

0009 244024 2001-02-01   BLAIRMORE X

0009 244025 2001-02-01   BLAIRMORE Y

0009 244026 2001-02-01   BLAIRMORE Z

0009 244027 2012-11-01   BLAIRMORE AA

0009 244028 2001-02-01   BLAIRMORE BB

0009 244029 2001-02-01   BLAIRMORE CC

0009 244030 2007-12-01   BLAIRMORE DD

0009 244031 2007-12-01   BLAIRMORE EE

0009 244032 2006-02-01   BLAIRMORE FF

0009 244033 2001-02-01   BLAIRMORE GG

**POOL DESIGNATION (cont'd)**

0009 244034 2001-03-01	BLAIRMORE HH
0009 244035 2008-11-01	BLAIRMORE II
0009 244036 2011-01-01	BLAIRMORE JJ
0009 250001 2001-03-01	UPPER MANNVILLE A
0009 250002 2007-09-01	UPPER MANNVILLE B
0009 250003 2008-12-01	UPPER MANNVILLE C
0009 250004 2009-07-01	UPPER MANNVILLE D
0009 250005 2014-04-01	UPPER MANNVILLE E
0009 250006 2011-05-01	UPPER MANNVILLE F
0009 250007 2010-03-01	UPPER MANNVILLE G
0009 250008 2010-05-01	UPPER MANNVILLE H
0009 250009 2010-06-01	UPPER MANNVILLE I
0009 250010 2010-06-01	UPPER MANNVILLE J
0009 250011 2011-05-01	UPPER MANNVILLE K
0009 250012 2011-05-01	UPPER MANNVILLE L
0009 250013 2013-02-01	UPPER MANNVILLE M
0009 250014 2013-05-01	UPPER MANNVILLE N
0009 336001 2001-02-01	ELLERSLIE A
0009 336002 2010-04-01	ELLERSLIE B
0009 336003 2001-02-01	ELLERSLIE C
0009 336004 2006-11-01	ELLERSLIE D
0009 336005 2007-06-01	ELLERSLIE E
0009 336006 2007-06-01	ELLERSLIE F
0009 336007 2007-10-01	ELLERSLIE G
0009 336008 2010-04-01	ELLERSLIE H
0009 336009 2012-11-01	ELLERSLIE I
0009 336010 2010-10-01	ELLERSLIE J
0009 336011 2012-03-01	ELLERSLIE K
0009 336012 2012-03-01	ELLERSLIE L
0009 336013 2012-03-01	ELLERSLIE M
0009 350001 2001-07-01	DETRITAL A
0009 350003 2012-03-01	DETRITAL C
0009 350005 2010-04-01	DETRITAL E
0009 350006 2001-02-01	DETRITAL F
0009 350007 2012-02-01	DETRITAL G

**POOL DESIGNATION (cont'd)**

0009 350008 2010-04-01	DETRITAL H
0009 350009 2010-04-01	DETRITAL I
0009 350010 2010-04-01	DETRITAL J
0009 658001 2001-02-01	WABAMUN A
0009 658003 2006-12-01	WABAMUN C
0009 658004 2010-04-01	WABAMUN D
0009 658005 2009-01-01	WABAMUN E
0009 658006 2007-07-01	WABAMUN F
0009 658007 2009-03-01	WABAMUN G
0009 658008 2010-04-01	WABAMUN H
0009 658009 2009-07-01	WABAMUN I
0009 658010 2010-07-01	WABAMUN J
0009 658011 2010-02-01	WABAMUN K
0009 658012 2010-02-01	WABAMUN L
0009 658013 2010-06-01	WABAMUN M
0009 658014 2010-07-01	WABAMUN N
0009 658015 2010-07-01	WABAMUN O
0009 658016 2010-07-01	WABAMUN P
0009 658017 2010-12-01	WABAMUN Q
0009 696001 2010-04-01	D-2 A
0009 696002 2001-02-01	D-2 B
0009 696003 2001-02-01	D-2 C
0009 696004 2007-10-01	D-2 D
0009 696005 2001-02-01	D-2 E
0009 696006 2007-04-01	D-2 F
0009 720001 2012-02-01	D-3 A
0009 720002 2002-02-01	D-3 B



**SPACING PATTERN**

SU 2196 7 Jun 1995  
SU 2196A 4 Jun 1996  
SU 2196B 13 Jun 1996  
SU 2196C 22 Aug 2000  
SU 2196D 19 Mar 2001  
app 11449

See also Acheson East Field

**MISCELLANEOUS ORDERS**

MISC 7104 4 May 1971  
Well shall comply with  
section 605 of regulations

MISC 8805 24 Mar 1988  
Concurrent production  
Blairmore D & I  
Blairmore K

**COMMINGLED PRODUCTION**

MU 8634 9 Jun 2014

**SUBSURFACE DISPOSAL SCHEMES**

App 6263C 29 Apr 2015  
Class II  
InPlay Oil Corp.

App 7714 7 Nov 1995

App 7714A 10 Nov 2004

App 7714B 7 Jul 2006

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

App 7714C 28 Jan 2008  
Class Ib  
PennWest Petroleum Ltd.

**FIELD DESIGNATION**

0011 2014-06-01           ACHESON EAST FIELD

**POOL DESIGNATION**

0011 118801 2007-03-01   LOWER EDMONTON A

0011 134001 2005-06-01   BASAL BELLY RIVER A

0011 244001 2001-02-01   BLAIRMORE A  
0011 244002 2010-04-01   BLAIRMORE B  
0011 244003 2001-02-01   BLAIRMORE C  
0011 244004 2001-02-01   BLAIRMORE D  
0011 244005 2001-02-01   BLAIRMORE E  
0011 244006 2001-02-01   BLAIRMORE F  
0011 244007 2006-07-01   BLAIRMORE G  
0011 244008 2001-02-01   BLAIRMORE H  
0011 244009 2001-02-01   BLAIRMORE I  
0011 244011 2014-10-01   BLAIRMORE K  
0011 244012 2001-02-01   BLAIRMORE L  
0011 244013 2001-02-01   BLAIRMORE M  
0011 244014 2001-02-01   BLAIRMORE N  
0011 244015 2001-02-01   BLAIRMORE O  
0011 244016 2002-07-01   BLAIRMORE P  
0011 244017 2001-02-01   BLAIRMORE Q  
0011 244018 2001-02-01   BLAIRMORE R  
0011 244019 2002-05-01   BLAIRMORE S  
0011 244022 2008-08-01   BLAIRMORE V  
0011 244023 2011-05-01   BLAIRMORE W  
0011 244024 2012-03-01   BLAIRMORE X

0011 250001 2010-04-01   UPPER MANNVILLE A  
0011 250002 2012-11-01   UPPER MANNVILLE B  
0011 250003 2013-09-01   UPPER MANNVILLE C

0011 300001 2001-02-01   GLAUCONITIC A  
0011 300002 2001-02-01   GLAUCONITIC B

**POOL DESIGNATION (cont'd)**

0011 310001 2008-10-01 LOWER MANNVILLE A  
0011 310002 2008-10-01 LOWER MANNVILLE B

**SPACING PATTERN**

SU 2196 7 Jun 1995  
SU 2196A 4 Jun 1996  
SU 2196B 13 Jun 1996  
SU 2196C 22 Aug 2000  
SU 2196D 19 Mar 2001  
SU 2196E 14 Dec 2001

See also Acheson Field

**COMMINGLED PRODUCTION**

MU 691 27 Feb 1989

**ENHANCED RECOVERY SCHEMES**

App 10818C 26 Feb 2015  
Waterflood  
Blairmore P  
PennWest Petroleum Ltd.

**FIELD DESIGNATION**

0007 2002-04-01                      ADAMS FIELD

**POOL DESIGNATION**

0007 765501 2008-06-01      GILWOOD A  
0007 765502 2008-06-01      GILWOOD B

**SUBSURFACE DISPOSAL SCHEMES**

App 11157C    17 Dec 2012

**FIELD DESIGNATION**

0014 2010-12-01 ADEN FIELD

**POOL DESIGNATION**

0014 164001 2009-10-01 MEDICINE HAT A  
0014 164003 2009-11-01 MEDICINE HAT C  
0014 164004 2009-11-01 MEDICINE HAT D  
0014 164006 2010-12-01 MEDICINE HAT F

0014 186001 2014-10-01 SECOND WHITE SPECKS A

0014 211001 2013-02-01 LOWER COLORADO A  
0014 211002 2013-02-01 LOWER COLORADO B

0014 213001 2011-09-01 BOW ISLAND A  
0014 213002 2001-02-01 BOW ISLAND B  
0014 213003 2001-02-01 BOW ISLAND C  
0014 213004 2014-10-01 BOW ISLAND D  
0014 213005 2001-02-01 BOW ISLAND E  
0014 213006 2012-12-01 BOW ISLAND F  
0014 213007 2014-11-01 BOW ISLAND G

0014 242001 2001-02-01 BASAL COLORADO A  
0014 242002 2001-02-01 BASAL COLORADO B  
0014 242003 2014-10-01 BASAL COLORADO C  
0014 242004 2014-10-01 BASAL COLORADO D

0014 248000 2001-02-01 MANNVILLE

0014 250001 2010-12-01 UPPER MANNVILLE A  
0014 250002 2010-12-01 UPPER MANNVILLE B  
0014 250003 2010-12-01 UPPER MANNVILLE C  
0014 250004 2010-12-01 UPPER MANNVILLE D  
0014 250005 2010-12-01 UPPER MANNVILLE E  
0014 250006 2010-12-01 UPPER MANNVILLE F  
0014 250007 2010-12-01 UPPER MANNVILLE G

**POOL DESIGNATION (cont'd)**

0014 250008 2012-06-01 UPPER MANNVILLE H

0014 310001 2001-02-01 LOWER MANNVILLE A  
0014 310002 2001-02-01 LOWER MANNVILLE B  
0014 310003 2001-02-01 LOWER MANNVILLE C  
0014 310004 2005-06-01 LOWER MANNVILLE D  
0014 310005 2005-06-01 LOWER MANNVILLE E  
0014 310006 2005-06-01 LOWER MANNVILLE F  
0014 310007 2005-07-01 LOWER MANNVILLE G  
0014 310008 2010-12-01 LOWER MANNVILLE H  
0014 310009 2010-12-01 LOWER MANNVILLE I  
0014 310010 2010-12-01 LOWER MANNVILLE J  
0014 310011 2010-12-01 LOWER MANNVILLE K

0014 333001 2014-10-01 SUNBURST-SWIFT A

0014 420000 2001-02-01 SWIFT  
0014 420002 2016-02-01 SWIFT B

0014 428001 2013-12-01 SAWTOOTH A

0014 610001 2001-02-01 RUNDLE A  
0014 610002 2001-02-01 RUNDLE B  
0014 610003 2012-02-01 RUNDLE C

**SPACING PATTERN**

SU 2540 6 Feb 1996  
SU 2540A 20 Sep 2002  
SU 2540B 23 Mar 2006

**MISCELLANEOUS ORDERS**

MISC 6221 23 Apr 1962  
Production allowable for  
C.M.G. Co.well No. 7-7-1-10

**COMMINGLED PRODUCTION**

MU 8705 20 Jan 2015

**SUBSURFACE DISPOSAL SCHEMES**

App 5988C 19 Feb 2015  
Class II  
Tykewest Limited

**FIELD DESIGNATION**

0020 2015-06-01           AERIAL FIELD

**POOL DESIGNATION**

0020 134001 2005-06-01   BASAL BELLY RIVER A  
0020 134005 2010-04-01   BASAL BELLY RIVER E

0020 164002 2010-04-01   MEDICINE HAT B

0020 186002 2012-03-01   SECOND WHITE SPECKS B  
0020 186005 2007-06-01   SECOND WHITE SPECKS E

0020 218001 2001-02-01   VIKING A  
0020 218002 2010-04-01   VIKING B  
0020 218003 2006-11-01   VIKING C  
0020 218004 2007-08-01   VIKING D  
0020 218005 2008-01-01   VIKING E

0020 248000 2010-04-01   MANNVILLE  
0020 248002 2001-02-01   MANNVILLE B  
0020 248003 2001-02-01   MANNVILLE C  
0020 248004 2001-02-01   MANNVILLE D  
0020 248005 2004-07-01   MANNVILLE E  
0020 248007 2006-07-01   MANNVILLE G  
0020 248008 2001-02-01   MANNVILLE H  
0020 248009 2013-04-01   MANNVILLE I  
0020 248010 2012-02-01   MANNVILLE J  
0020 248011 2001-02-01   MANNVILLE K  
0020 248012 2010-03-01   MANNVILLE L  
0020 248013 2007-02-01   MANNVILLE M  
0020 248014 2001-02-01   MANNVILLE N  
0020 248015 2001-02-01   MANNVILLE O  
0020 248016 2005-10-01   MANNVILLE P  
0020 248017 2001-02-01   MANNVILLE Q  
0020 248018 2001-05-01   MANNVILLE R  
0020 248019 2001-09-01   MANNVILLE S

**POOL DESIGNATION (cont'd)**

0020 248020 2001-11-01	MANNVILLE T
0020 248021 2001-11-01	MANNVILLE U
0020 248022 2010-04-01	MANNVILLE V
0020 248023 2014-01-01	MANNVILLE W
0020 248024 2010-04-01	MANNVILLE X
0020 248025 2010-04-01	MANNVILLE Y
0020 248026 2003-01-01	MANNVILLE Z
0020 248027 2003-10-01	MANNVILLE AA
0020 248028 2004-07-01	MANNVILLE BB
0020 248029 2007-05-01	MANNVILLE CC
0020 248030 2004-06-01	MANNVILLE DD
0020 248031 2004-06-01	MANNVILLE EE
0020 248032 2004-05-01	MANNVILLE FF
0020 248033 2004-05-01	MANNVILLE GG
0020 248034 2004-06-01	MANNVILLE HH
0020 248035 2005-10-01	MANNVILLE II
0020 248036 2005-09-01	MANNVILLE JJ
0020 248037 2010-04-01	MANNVILLE KK
0020 248038 2010-04-01	MANNVILLE LL
0020 248039 2006-04-01	MANNVILLE MM
0020 248040 2005-10-01	MANNVILLE NN
0020 248041 2006-04-01	MANNVILLE OO
0020 248042 2006-12-01	MANNVILLE PP
0020 248043 2006-10-01	MANNVILLE QQ
0020 248044 2006-11-01	MANNVILLE RR
0020 248045 2006-11-01	MANNVILLE SS
0020 248046 2006-11-01	MANNVILLE TT
0020 248047 2006-11-01	MANNVILLE UU
0020 248048 2006-11-01	MANNVILLE VV
0020 248049 2006-11-01	MANNVILLE WW
0020 248050 2010-04-01	MANNVILLE XX
0020 248051 2006-11-01	MANNVILLE YY
0020 248052 2006-11-01	MANNVILLE ZZ
0020 248101 2006-11-01	MANNVILLE AAA
0020 248102 2006-12-01	MANNVILLE BBB
0020 248103 2007-11-01	MANNVILLE CCC
0020 248104 2007-01-01	MANNVILLE DDD
0020 248105 2007-03-01	MANNVILLE EEE



**POOL DESIGNATION (cont'd)**

0020 248106 2007-06-01	MANNVILLE FFF
0020 248107 2007-07-01	MANNVILLE GGG
0020 248108 2007-06-01	MANNVILLE HHH
0020 248109 2007-07-01	MANNVILLE III
0020 248110 2007-08-01	MANNVILLE JJJ
0020 248111 2007-08-01	MANNVILLE KKK
0020 248112 2007-09-01	MANNVILLE LLL
0020 248113 2008-05-01	MANNVILLE MMM
0020 248114 2009-01-01	MANNVILLE NNN
0020 248115 2009-02-01	MANNVILLE OOO
0020 248116 2010-04-01	MANNVILLE PPP
0020 248117 2010-04-01	MANNVILLE QQQ
0020 248118 2009-03-01	MANNVILLE RRR
0020 248119 2009-03-01	MANNVILLE SSS
0020 248120 2009-05-01	MANNVILLE TTT
0020 248121 2010-06-01	MANNVILLE UUU
0020 248122 2011-09-01	MANNVILLE VVV
0020 248123 2011-05-01	MANNVILLE WWW
0020 248124 2011-10-01	MANNVILLE XXX
0020 248125 2011-10-01	MANNVILLE YYY
0020 248126 2013-05-01	MANNVILLE ZZZ
0020 248127 2013-06-01	MANNVILLE A2A
0020 850200 2011-02-01	MFP8502 MED HAT
0020 850600 2011-01-01	MFP8506 BELLY RIVER
0020 854000 2011-01-01	MFP8540 BSL BELLY RIV
0020 854300 2011-04-01	MFP8543 BSL BELLY RIV

**SPACING PATTERN**

SU 2800      5 Feb 1997  
SU 2800A     12 May 1999  
SU 2800B     21 Oct 2002  
SU 2800C     15 Jul 2004  
SU 2800D     6 Apr 2005  
SU 2800E     7 Dec 2005  
SU 2800F     3 May 2006  
SU 2800G     13 Jun 2006

**MISCELLANEOUS ORDERS**

MISC 93151   7 May 1993  
Site clean-up  
Dexx Energy Corp.

**COMMINGLED PRODUCTION**

MU 7830      10 May 2011

**ENHANCED RECOVERY SCHEMES**

App 1448G    9 Feb 2015  
Other  
Mannville  
Pengrowth Energy Corporation

App 8226D    20 Aug 2015  
Other  
Mannville  
Taqa North Ltd.

**INDEX OF AER ORDERS AND APPROVALS**

**AET**

**AETNA FIELD**  
**August 2017**

**0004**  
**Page 1 of 1**

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**FIELD DESIGNATION**

0004 2001-03-01            AETNA FIELD

**POOL DESIGNATION**

0004 186001 2011-11-01    SECOND WHITE SPECKS A

**SPACING PATTERN**

SU 2541            8 Feb 1996  
SU 2541A          20 Aug 1996

**FIELD DESIGNATION**

0033 2009-09-01 AKUINU FIELD

**POOL DESIGNATION**

0033 250001 2003-12-01 UPPER MANNVILLE A  
0033 250002 2001-11-01 UPPER MANNVILLE B  
0033 250003 2002-07-01 UPPER MANNVILLE C  
0033 250004 2004-09-01 UPPER MANNVILLE D  
0033 250005 2010-04-01 UPPER MANNVILLE E

0033 262001 2012-04-01 GRAND RAPIDS A  
0033 262002 2001-02-01 GRAND RAPIDS B  
0033 262003 2001-02-01 GRAND RAPIDS C  
0033 262004 2001-02-01 GRAND RAPIDS D  
0033 262005 2001-02-01 GRAND RAPIDS E  
0033 262006 2001-02-01 GRAND RAPIDS F  
0033 262007 2001-03-01 GRAND RAPIDS G  
0033 262008 2001-03-01 GRAND RAPIDS H  
0033 262009 2001-08-01 GRAND RAPIDS I  
0033 262010 2010-04-01 GRAND RAPIDS J  
0033 262011 2001-11-01 GRAND RAPIDS K  
0033 262012 2003-06-01 GRAND RAPIDS L  
0033 262013 2009-09-01 GRAND RAPIDS M  
0033 262014 2013-04-01 GRAND RAPIDS N  
0033 262015 2013-04-01 GRAND RAPIDS O

0033 281001 2013-09-01 CLEARWATER A

0033 312001 2001-02-01 OSTRACOD A  
0033 312002 2001-02-01 OSTRACOD B

0033 328001 2010-04-01 MCMURRAY A

0033 336001 2001-02-01 ELLERSLIE A  
0033 336002 2005-05-01 ELLERSLIE B  
0033 336003 2001-02-01 ELLERSLIE C

**POOL DESIGNATION (cont'd)**

0033 336004	2010-04-01	ELLERSLIE D
0033 336005	2010-04-01	ELLERSLIE E
0033 336007	2001-02-01	ELLERSLIE G
0033 336008	2001-02-01	ELLERSLIE H
0033 336009	2001-02-01	ELLERSLIE I
0033 336010	2001-02-01	ELLERSLIE J
0033 336011	2001-02-01	ELLERSLIE K
0033 336012	2001-02-01	ELLERSLIE L
0033 336013	2001-03-01	ELLERSLIE M
0033 336014	2001-02-01	ELLERSLIE N
0033 336015	2012-01-01	ELLERSLIE O
0033 336016	2001-02-01	ELLERSLIE P
0033 336017	2001-02-01	ELLERSLIE Q
0033 336018	2001-02-01	ELLERSLIE R
0033 336019	2001-09-01	ELLERSLIE S
0033 336020	2002-02-01	ELLERSLIE T
0033 336021	2002-07-01	ELLERSLIE U
0033 336022	2003-07-01	ELLERSLIE V

**SPACING PATTERN**

SU 2542	6 Feb 1996
SU 2542A	23 Nov 2000

**COMMINGLED PRODUCTION**

MU 4258	6 Apr 2005
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**SUBSURFACE DISPOSAL SCHEMES**

App 9741	27 Jan 2004
Class II	
Canadian Natural Resources Limited	

**FIELD DESIGNATION**

0039 2006-01-01 ALBERS FIELD

**POOL DESIGNATION**

0039 202001 2008-05-01 FISH SCALE A

0039 256001 2003-04-01 COLONY A

0039 256002 2004-12-01 COLONY B

0039 268001 2003-05-01 MCLAREN A

0039 286001 2001-11-01 GENERAL PETROLEUM A

0039 294001 2006-01-01 LLOYDMINSTER A

0039 851800 2013-09-01 MFP8518 U&M VIKING

**SPACING PATTERN**

SU 2996 2 Oct 2000

SU 2996A 13 Jul 2001

**COMMINGLED PRODUCTION**

MU 6971 15 Aug 2008

**FIELD DESIGNATION**

0041 2008-01-01           ALCOMDALE FIELD

**POOL DESIGNATION**

0041 248001 2011-07-01   MANNVILLE A

0041 256001 2004-09-01   COLONY A

0041 276001 2007-07-01   SPARKY A

0041 336001 2011-02-01   ELLERSLIE A  
0041 336002 2002-02-01   ELLERSLIE B  
0041 336003 2001-03-01   ELLERSLIE C  
0041 336004 2006-08-01   ELLERSLIE D  
0041 336005 2004-05-01   ELLERSLIE E  
0041 336006 2004-04-01   ELLERSLIE F  
0041 336007 2004-04-01   ELLERSLIE G  
0041 336008 2010-04-01   ELLERSLIE H  
0041 336009 2008-01-01   ELLERSLIE I  
0041 336010 2009-02-01   ELLERSLIE J

**SPACING PATTERN**

SU 2543           6 Feb 1996

**COMMINGLED PRODUCTION**

MU 2659           30 Jul 2002

**FIELD DESIGNATION**

0043 2015-05-01 ALDERSON FIELD

**POOL DESIGNATION**

0043 126001 2001-02-01 BELLY RIVER A  
0043 126002 2010-02-01 BELLY RIVER B  
0043 126004 2002-05-01 BELLY RIVER D  
0043 126007 2002-08-01 BELLY RIVER G  
0043 126012 2010-02-01 BELLY RIVER L  
0043 126013 2011-12-01 BELLY RIVER M

0043 132001 2001-02-01 FOREMOST A

0043 134004 2005-05-01 BASAL BELLY RIVER D  
0043 134005 2005-09-01 BASAL BELLY RIVER E  
0043 134010 2008-05-01 BASAL BELLY RIVER J  
0043 134014 2011-02-01 BASAL BELLY RIVER N  
0043 134018 2014-05-01 BASAL BELLY RIVER R

0043 158002 2011-09-01 MILK RIVER B  
0043 158003 2003-10-01 MILK RIVER C  
0043 158004 2004-06-01 MILK RIVER D  
0043 158005 2005-03-01 MILK RIVER E  
0043 158006 2009-08-01 MILK RIVER F  
0043 158007 2011-03-01 MILK RIVER G  
0043 158008 2011-12-01 MILK RIVER H  
0043 158009 2011-12-01 MILK RIVER I

0043 160004 2014-03-01 COLORADO D  
0043 160009 2003-02-01 COLORADO I  
0043 160030 2005-12-01 COLORADO DD  
0043 160034 2011-01-01 COLORADO HH  
0043 160035 2011-01-01 COLORADO II  
0043 160036 2011-03-01 COLORADO JJ  
0043 160037 2014-03-01 COLORADO KK  
0043 160038 2014-03-01 COLORADO LL



**POOL DESIGNATION (cont'd)**

0043 160039 2014-03-01	COLORADO MM
0043 162003 2012-01-01	FIRST WHITE SPECKS C
0043 162007 2008-05-01	FIRST WHITE SPECKS G
0043 162008 2009-07-01	FIRST WHITE SPECKS H
0043 162009 2009-08-01	FIRST WHITE SPECKS I
0043 162010 2010-10-01	FIRST WHITE SPECKS J
0043 162011 2010-12-01	FIRST WHITE SPECKS K
0043 162012 2011-01-01	FIRST WHITE SPECKS L
0043 162013 2011-01-01	FIRST WHITE SPECKS M
0043 162014 2011-01-01	FIRST WHITE SPECKS N
0043 164005 2012-02-01	MEDICINE HAT E
0043 164013 2012-02-01	MEDICINE HAT M
0043 164017 2012-02-01	MEDICINE HAT Q
0043 164018 2012-02-01	MEDICINE HAT R
0043 164027 2011-01-01	MEDICINE HAT AA
0043 164028 2011-01-01	MEDICINE HAT BB
0043 164029 2011-01-01	MEDICINE HAT CC
0043 164030 2011-12-01	MEDICINE HAT DD
0043 164031 2011-12-01	MEDICINE HAT EE
0043 164032 2011-12-01	MEDICINE HAT FF
0043 202001 2005-12-01	FISH SCALE A
0043 202002 2011-11-01	FISH SCALE B
0043 202003 2006-09-01	FISH SCALE C
0043 202006 2008-11-01	FISH SCALE F
0043 202008 2011-01-01	FISH SCALE H
0043 202009 2011-01-01	FISH SCALE I
0043 202010 2011-01-01	FISH SCALE J
0043 202011 2011-10-01	FISH SCALE K
0043 202012 2011-12-01	FISH SCALE L
0043 211001 2010-04-01	LOWER COLORADO A
0043 213001 2011-09-01	BOW ISLAND A
0043 213002 2013-11-01	BOW ISLAND B
0043 213003 2010-04-01	BOW ISLAND C

**POOL DESIGNATION (cont'd)**

0043 213004 2010-04-01	BOW ISLAND D
0043 213005 2001-02-01	BOW ISLAND E
0043 213006 2010-04-01	BOW ISLAND F
0043 213007 2001-02-01	BOW ISLAND G
0043 213008 2002-03-01	BOW ISLAND H
0043 213009 2010-04-01	BOW ISLAND I
0043 213010 2001-02-01	BOW ISLAND J
0043 213011 2001-02-01	BOW ISLAND K
0043 213012 2005-01-01	BOW ISLAND L
0043 213013 2001-02-01	BOW ISLAND M
0043 213014 2014-01-01	BOW ISLAND N
0043 213015 2001-02-01	BOW ISLAND O
0043 213016 2001-02-01	BOW ISLAND P
0043 213017 2001-02-01	BOW ISLAND Q
0043 213018 2001-02-01	BOW ISLAND R
0043 213019 2001-02-01	BOW ISLAND S
0043 213020 2001-02-01	BOW ISLAND T
0043 213021 2001-02-01	BOW ISLAND U
0043 213022 2010-04-01	BOW ISLAND V
0043 213025 2001-02-01	BOW ISLAND Y
0043 213027 2001-02-01	BOW ISLAND AA
0043 213028 2001-02-01	BOW ISLAND BB
0043 213029 2001-02-01	BOW ISLAND CC
0043 213031 2003-04-01	BOW ISLAND EE
0043 213032 2001-02-01	BOW ISLAND FF
0043 213035 2001-02-01	BOW ISLAND II
0043 213036 2010-04-01	BOW ISLAND JJ
0043 213037 2001-02-01	BOW ISLAND KK
0043 213038 2011-09-01	BOW ISLAND LL
0043 213039 2001-02-01	BOW ISLAND MM
0043 213040 2001-02-01	BOW ISLAND NN
0043 213041 2001-09-01	BOW ISLAND OO
0043 213042 2001-02-01	BOW ISLAND PP
0043 213043 2001-02-01	BOW ISLAND QQ
0043 213044 2001-02-01	BOW ISLAND RR
0043 213045 2001-02-01	BOW ISLAND SS
0043 213046 2010-01-01	BOW ISLAND TT
0043 213047 2001-06-01	BOW ISLAND UU

**POOL DESIGNATION (cont'd)**

0043 213048 2001-08-01	BOW ISLAND VV
0043 213049 2001-09-01	BOW ISLAND WW
0043 213050 2001-10-01	BOW ISLAND XX
0043 213051 2001-11-01	BOW ISLAND YY
0043 213052 2001-11-01	BOW ISLAND ZZ
0043 213401 2004-09-01	BOW ISLAND AAA
0043 213402 2002-01-01	BOW ISLAND BBB
0043 213403 2002-02-01	BOW ISLAND CCC
0043 213404 2002-05-01	BOW ISLAND DDD
0043 213405 2002-06-01	BOW ISLAND EEE
0043 213406 2002-05-01	BOW ISLAND FFF
0043 213407 2002-06-01	BOW ISLAND GGG
0043 213408 2002-08-01	BOW ISLAND HHH
0043 213409 2002-09-01	BOW ISLAND III
0043 213410 2004-08-01	BOW ISLAND JJJ
0043 213411 2004-09-01	BOW ISLAND KKK
0043 213412 2003-02-01	BOW ISLAND LLL
0043 213413 2003-05-01	BOW ISLAND MMM
0043 213414 2003-06-01	BOW ISLAND NNN
0043 213415 2004-09-01	BOW ISLAND OOO
0043 213416 2004-05-01	BOW ISLAND PPP
0043 213417 2004-05-01	BOW ISLAND QQQ
0043 213418 2004-09-01	BOW ISLAND RRR
0043 213419 2004-09-01	BOW ISLAND SSS
0043 213420 2004-09-01	BOW ISLAND TTT
0043 213421 2005-04-01	BOW ISLAND UUU
0043 213422 2005-05-01	BOW ISLAND VVV
0043 213423 2006-06-01	BOW ISLAND WWW
0043 213424 2006-12-01	BOW ISLAND XXX
0043 213425 2007-01-01	BOW ISLAND YYY
0043 213426 2008-06-01	BOW ISLAND ZZZ
0043 213427 2009-05-01	BOW ISLAND A2A
0043 213428 2009-05-01	BOW ISLAND B2B
0043 213429 2009-07-01	BOW ISLAND C2C
0043 213430 2010-04-01	BOW ISLAND D2D
0043 213431 2010-01-01	BOW ISLAND E2E
0043 213432 2010-01-01	BOW ISLAND F2F
0043 213433 2010-01-01	BOW ISLAND G2G

**POOL DESIGNATION (cont'd)**

0043 213434 2010-01-01	BOW ISLAND H2H
0043 213435 2010-01-01	BOW ISLAND I2I
0043 213436 2010-03-01	BOW ISLAND J2J
0043 213437 2010-03-01	BOW ISLAND K2K
0043 213438 2010-05-01	BOW ISLAND L2L
0043 213439 2014-01-01	BOW ISLAND M2M
0043 213440 2010-06-01	BOW ISLAND N2N
0043 213441 2010-07-01	BOW ISLAND O2O
0043 213442 2010-07-01	BOW ISLAND P2P
0043 213443 2010-07-01	BOW ISLAND Q2Q
0043 213444 2010-07-01	BOW ISLAND R2R
0043 213445 2011-01-01	BOW ISLAND S2S
0043 213446 2011-01-01	BOW ISLAND T2T
0043 213447 2011-01-01	BOW ISLAND U2U
0043 213448 2014-02-01	BOW ISLAND V2V
0043 213449 2014-03-01	BOW ISLAND W2W
0043 242002 2001-02-01	BASAL COLORADO B
0043 242003 2006-06-01	BASAL COLORADO C
0043 242004 2001-08-01	BASAL COLORADO D
0043 242005 2010-04-01	BASAL COLORADO E
0043 242006 2005-01-01	BASAL COLORADO F
0043 242007 2001-02-01	BASAL COLORADO G
0043 242008 2010-04-01	BASAL COLORADO H
0043 242009 2001-02-01	BASAL COLORADO I
0043 242010 2010-04-01	BASAL COLORADO J
0043 242011 2001-02-01	BASAL COLORADO K
0043 242012 2013-03-01	BASAL COLORADO L
0043 242013 2001-07-01	BASAL COLORADO M
0043 242015 2001-02-01	BASAL COLORADO O
0043 242016 2001-08-01	BASAL COLORADO P
0043 242017 2001-02-01	BASAL COLORADO Q
0043 242018 2001-02-01	BASAL COLORADO R
0043 242019 2001-03-01	BASAL COLORADO S
0043 242020 2001-03-01	BASAL COLORADO T
0043 242021 2001-04-01	BASAL COLORADO U
0043 242022 2004-01-01	BASAL COLORADO V
0043 242025 2001-09-01	BASAL COLORADO Y

**POOL DESIGNATION (cont'd)**

0043 242026 2005-12-01	BASAL COLORADO Z
0043 242027 2006-07-01	BASAL COLORADO AA
0043 242028 2009-12-01	BASAL COLORADO BB
0043 242029 2010-01-01	BASAL COLORADO CC
0043 242030 2013-03-01	BASAL COLORADO DD
0043 242031 2013-04-01	BASAL COLORADO EE
0043 242032 2013-05-01	BASAL COLORADO FF
0043 250001 2001-02-01	UPPER MANNVILLE A
0043 250002 2011-09-01	UPPER MANNVILLE B
0043 250003 2009-09-01	UPPER MANNVILLE C
0043 250004 2010-04-01	UPPER MANNVILLE D
0043 250006 2001-02-01	UPPER MANNVILLE F
0043 250007 2010-04-01	UPPER MANNVILLE G
0043 250008 2001-02-01	UPPER MANNVILLE H
0043 250009 2011-09-01	UPPER MANNVILLE I
0043 250010 2001-02-01	UPPER MANNVILLE J
0043 250011 2001-02-01	UPPER MANNVILLE K
0043 250012 2001-02-01	UPPER MANNVILLE L
0043 250013 2001-02-01	UPPER MANNVILLE M
0043 250014 2001-02-01	UPPER MANNVILLE N
0043 250016 2001-02-01	UPPER MANNVILLE P
0043 250017 2001-02-01	UPPER MANNVILLE Q
0043 250018 2001-02-01	UPPER MANNVILLE R
0043 250019 2013-09-01	UPPER MANNVILLE S
0043 250020 2001-02-01	UPPER MANNVILLE T
0043 250021 2011-09-01	UPPER MANNVILLE U
0043 250022 2001-02-01	UPPER MANNVILLE V
0043 250025 2013-11-01	UPPER MANNVILLE Y
0043 250026 2011-09-01	UPPER MANNVILLE Z
0043 250028 2001-02-01	UPPER MANNVILLE BB
0043 250031 2001-02-01	UPPER MANNVILLE EE
0043 250034 2001-02-01	UPPER MANNVILLE HH
0043 250036 2001-02-01	UPPER MANNVILLE JJ
0043 250037 2002-09-01	UPPER MANNVILLE KK
0043 250038 2001-02-01	UPPER MANNVILLE LL
0043 250042 2001-02-01	UPPER MANNVILLE PP
0043 250043 2001-02-01	UPPER MANNVILLE QQ

**POOL DESIGNATION (cont'd)**

0043 250044 2001-02-01	UPPER MANNVILLE RR
0043 250047 2001-02-01	UPPER MANNVILLE UU
0043 250048 2001-02-01	UPPER MANNVILLE VV
0043 250049 2001-07-01	UPPER MANNVILLE WW
0043 250050 2001-02-01	UPPER MANNVILLE XX
0043 250051 2011-09-01	UPPER MANNVILLE YY
0043 250052 2001-02-01	UPPER MANNVILLE ZZ
0043 250704 2011-09-01	UPPER MANNVILLE DDD
0043 250705 2001-02-01	UPPER MANNVILLE EEE
0043 250706 2011-09-01	UPPER MANNVILLE FFF
0043 250708 2001-02-01	UPPER MANNVILLE HHH
0043 250709 2001-02-01	UPPER MANNVILLE III
0043 250710 2001-02-01	UPPER MANNVILLE JJJ
0043 250711 2001-02-01	UPPER MANNVILLE KKK
0043 250712 2010-04-01	UPPER MANNVILLE LLL
0043 250713 2001-02-01	UPPER MANNVILLE MMM
0043 250714 2001-02-01	UPPER MANNVILLE NNN
0043 250715 2001-02-01	UPPER MANNVILLE OOO
0043 250716 2001-02-01	UPPER MANNVILLE PPP
0043 250717 2001-02-01	UPPER MANNVILLE QQQ
0043 250718 2001-02-01	UPPER MANNVILLE RRR
0043 250719 2001-02-01	UPPER MANNVILLE SSS
0043 250722 2001-08-01	UPPER MANNVILLE VVV
0043 250723 2007-03-01	UPPER MANNVILLE WWW
0043 250725 2001-02-01	UPPER MANNVILLE YYY
0043 250727 2005-10-01	UPPER MANNVILLE A2A
0043 250728 2001-02-01	UPPER MANNVILLE B2B
0043 250729 2006-11-01	UPPER MANNVILLE C2C
0043 250730 2001-02-01	UPPER MANNVILLE D2D
0043 250731 2001-02-01	UPPER MANNVILLE E2E
0043 250732 2001-02-01	UPPER MANNVILLE F2F
0043 250733 2001-02-01	UPPER MANNVILLE G2G
0043 250734 2001-02-01	UPPER MANNVILLE H2H
0043 250735 2002-05-01	UPPER MANNVILLE I2I
0043 250736 2001-02-01	UPPER MANNVILLE J2J
0043 250737 2001-02-01	UPPER MANNVILLE K2K
0043 250738 2001-02-01	UPPER MANNVILLE L2L
0043 250739 2001-03-01	UPPER MANNVILLE M2M

**POOL DESIGNATION (cont'd)**

0043 250740 2011-09-01	UPPER MANNVILLE N2N
0043 250741 2001-05-01	UPPER MANNVILLE O2O
0043 250742 2001-02-01	UPPER MANNVILLE P2P
0043 250743 2001-02-01	UPPER MANNVILLE Q2Q
0043 250744 2001-02-01	UPPER MANNVILLE R2R
0043 250745 2001-02-01	UPPER MANNVILLE S2S
0043 250746 2001-02-01	UPPER MANNVILLE T2T
0043 250747 2001-02-01	UPPER MANNVILLE U2U
0043 250748 2001-02-01	UPPER MANNVILLE V2V
0043 250749 2003-08-01	UPPER MANNVILLE W2W
0043 250750 2001-02-01	UPPER MANNVILLE X2X
0043 250751 2001-02-01	UPPER MANNVILLE Y2Y
0043 250752 2001-02-01	UPPER MANNVILLE Z2Z
0043 251101 2001-02-01	UPPER MANNVILLE A3A
0043 251102 2001-02-01	UPPER MANNVILLE B3B
0043 251103 2010-04-01	UPPER MANNVILLE C3C
0043 251104 2001-02-01	UPPER MANNVILLE D3D
0043 251105 2010-04-01	UPPER MANNVILLE E3E
0043 251106 2001-02-01	UPPER MANNVILLE F3F
0043 251107 2001-02-01	UPPER MANNVILLE G3G
0043 251108 2001-02-01	UPPER MANNVILLE H3H
0043 251109 2001-02-01	UPPER MANNVILLE I3I
0043 251110 2011-07-01	UPPER MANNVILLE J3J
0043 251111 2001-02-01	UPPER MANNVILLE K3K
0043 251112 2002-02-01	UPPER MANNVILLE L3L
0043 251113 2001-02-01	UPPER MANNVILLE M3M
0043 251114 2001-02-01	UPPER MANNVILLE N3N
0043 251115 2001-12-01	UPPER MANNVILLE O3O
0043 251116 2001-02-01	UPPER MANNVILLE P3P
0043 251117 2001-05-01	UPPER MANNVILLE Q3Q
0043 251118 2001-02-01	UPPER MANNVILLE R3R
0043 251119 2001-02-01	UPPER MANNVILLE S3S
0043 251120 2006-10-01	UPPER MANNVILLE T3T
0043 251121 2001-02-01	UPPER MANNVILLE U3U
0043 251122 2001-02-01	UPPER MANNVILLE V3V
0043 251123 2001-11-01	UPPER MANNVILLE W3W
0043 251124 2003-10-01	UPPER MANNVILLE X3X
0043 251125 2001-05-01	UPPER MANNVILLE Y3Y

**POOL DESIGNATION (cont'd)**

0043 251126 2001-02-01	UPPER MANNVILLE Z3Z
0043 251127 2001-02-01	UPPER MANNVILLE A4A
0043 251128 2012-04-01	UPPER MANNVILLE B4B
0043 251129 2006-05-01	UPPER MANNVILLE C4C
0043 251131 2001-03-01	UPPER MANNVILLE E4E
0043 251134 2010-04-01	UPPER MANNVILLE H4H
0043 251135 2002-01-01	UPPER MANNVILLE I4I
0043 251136 2010-04-01	UPPER MANNVILLE J4J
0043 251137 2001-05-01	UPPER MANNVILLE K4K
0043 251138 2001-03-01	UPPER MANNVILLE L4L
0043 251139 2010-04-01	UPPER MANNVILLE M4M
0043 251140 2010-04-01	UPPER MANNVILLE N4N
0043 251144 2003-02-01	UPPER MANNVILLE R4R
0043 251145 2011-09-01	UPPER MANNVILLE S4S
0043 251147 2001-09-01	UPPER MANNVILLE U4U
0043 251148 2001-10-01	UPPER MANNVILLE V4V
0043 251149 2001-10-01	UPPER MANNVILLE W4W
0043 251151 2001-10-01	UPPER MANNVILLE Y4Y
0043 251152 2001-10-01	UPPER MANNVILLE Z4Z
0043 251501 2002-04-01	UPPER MANNVILLE A5A
0043 251502 2001-11-01	UPPER MANNVILLE B5B
0043 251503 2002-09-01	UPPER MANNVILLE C5C
0043 251504 2014-10-01	UPPER MANNVILLE D5D
0043 251505 2002-04-01	UPPER MANNVILLE E5E
0043 251506 2001-12-01	UPPER MANNVILLE F5F
0043 251507 2010-07-01	UPPER MANNVILLE G5G
0043 251508 2002-05-01	UPPER MANNVILLE H5H
0043 251509 2002-05-01	UPPER MANNVILLE I5I
0043 251510 2002-02-01	UPPER MANNVILLE J5J
0043 251511 2002-02-01	UPPER MANNVILLE K5K
0043 251512 2002-06-01	UPPER MANNVILLE L5L
0043 251513 2002-05-01	UPPER MANNVILLE M5M
0043 251514 2002-06-01	UPPER MANNVILLE N5N
0043 251515 2002-07-01	UPPER MANNVILLE O5O
0043 251516 2002-09-01	UPPER MANNVILLE P5P
0043 251517 2002-09-01	UPPER MANNVILLE Q5Q
0043 251518 2003-03-01	UPPER MANNVILLE R5R
0043 251519 2011-06-01	UPPER MANNVILLE S5S



**POOL DESIGNATION (cont'd)**

0043 251520 2003-01-01	UPPER MANNVILLE T5T
0043 251521 2003-04-01	UPPER MANNVILLE U5U
0043 251522 2003-07-01	UPPER MANNVILLE V5V
0043 251523 2005-05-01	UPPER MANNVILLE W5W
0043 251524 2003-08-01	UPPER MANNVILLE X5X
0043 251525 2010-04-01	UPPER MANNVILLE Y5Y
0043 251526 2004-04-01	UPPER MANNVILLE Z5Z
0043 251527 2004-11-01	UPPER MANNVILLE A6A
0043 251528 2010-04-01	UPPER MANNVILLE B6B
0043 251529 2005-02-01	UPPER MANNVILLE C6C
0043 251530 2005-02-01	UPPER MANNVILLE D6D
0043 251531 2005-02-01	UPPER MANNVILLE E6E
0043 251532 2005-03-01	UPPER MANNVILLE F6F
0043 251533 2005-04-01	UPPER MANNVILLE G6G
0043 251534 2005-04-01	UPPER MANNVILLE H6H
0043 251535 2005-05-01	UPPER MANNVILLE I6I
0043 251536 2005-07-01	UPPER MANNVILLE J6J
0043 251537 2005-09-01	UPPER MANNVILLE K6K
0043 251538 2005-12-01	UPPER MANNVILLE L6L
0043 251539 2005-12-01	UPPER MANNVILLE M6M
0043 251540 2005-12-01	UPPER MANNVILLE N6N
0043 251542 2006-02-01	UPPER MANNVILLE P6P
0043 251543 2006-05-01	UPPER MANNVILLE Q6Q
0043 251544 2006-06-01	UPPER MANNVILLE R6R
0043 251545 2007-03-01	UPPER MANNVILLE S6S
0043 251546 2007-06-01	UPPER MANNVILLE T6T
0043 251547 2010-04-01	UPPER MANNVILLE U6U
0043 251548 2009-05-01	UPPER MANNVILLE V6V
0043 251549 2009-05-01	UPPER MANNVILLE W6W
0043 251550 2009-05-01	UPPER MANNVILLE X6X
0043 251551 2009-09-01	UPPER MANNVILLE Y6Y
0043 251901 2010-01-01	UPPER MANNVILLE A7A
0043 251902 2010-01-01	UPPER MANNVILLE B7B
0043 251903 2010-01-01	UPPER MANNVILLE C7C
0043 251904 2011-02-01	UPPER MANNVILLE D7D
0043 251905 2010-02-01	UPPER MANNVILLE E7E
0043 251907 2010-04-01	UPPER MANNVILLE G7G
0043 251908 2010-05-01	UPPER MANNVILLE H7H

**POOL DESIGNATION (cont'd)**

0043 251909 2010-07-01	UPPER MANNVILLE I7I
0043 251910 2010-09-01	UPPER MANNVILLE J7J
0043 251911 2011-01-01	UPPER MANNVILLE K7K
0043 251912 2011-01-01	UPPER MANNVILLE L7L
0043 251913 2016-06-01	UPPER MANNVILLE M7M
0043 251914 2015-01-01	UPPER MANNVILLE N7N
0043 251915 2011-07-01	UPPER MANNVILLE O7O
0043 251916 2011-10-01	UPPER MANNVILLE P7P
0043 251917 2012-03-01	UPPER MANNVILLE Q7Q
0043 251918 2016-04-01	UPPER MANNVILLE R7R
0043 251919 2011-12-01	UPPER MANNVILLE S7S
0043 251921 2014-12-01	UPPER MANNVILLE U7U
0043 251923 2013-06-01	UPPER MANNVILLE W7W
0043 251924 2012-05-01	UPPER MANNVILLE X7X
0043 251926 2012-07-01	UPPER MANNVILLE Z7Z
0043 251928 2013-03-01	UPPER MANNVILLE B8B
0043 251929 2012-12-01	UPPER MANNVILLE C8C
0043 251930 2013-03-01	UPPER MANNVILLE D8D
0043 251931 2013-11-01	UPPER MANNVILLE E8E
0043 251932 2013-10-01	UPPER MANNVILLE F8F
0043 251934 2014-08-01	UPPER MANNVILLE H8H
0043 251937 2013-11-01	UPPER MANNVILLE K8K
0043 251938 2014-07-01	UPPER MANNVILLE L8L
0043 251939 2014-01-01	UPPER MANNVILLE M8M
0043 251940 2014-09-01	UPPER MANNVILLE N8N
0043 251941 2014-12-01	UPPER MANNVILLE O8O
0043 251942 2014-11-01	UPPER MANNVILLE P8P
0043 251945 2016-09-01	UPPER MANNVILLE S8S
0043 251946 2017-05-01	UPPER MANNVILLE T8T
0043 251947 2017-05-01	UPPER MANNVILLE U8U
0043 310001 2011-06-01	LOWER MANNVILLE A
0043 310002 2011-09-01	LOWER MANNVILLE B
0043 310005 2017-05-01	LOWER MANNVILLE E
0043 310006 2011-09-01	LOWER MANNVILLE F
0043 310008 2001-02-01	LOWER MANNVILLE H
0043 310010 2010-04-01	LOWER MANNVILLE J
0043 310013 2001-02-01	LOWER MANNVILLE M

**POOL DESIGNATION (cont'd)**

0043 310014 2001-02-01	LOWER MANNVILLE N
0043 310015 2010-04-01	LOWER MANNVILLE O
0043 310016 2002-10-01	LOWER MANNVILLE P
0043 310017 2001-02-01	LOWER MANNVILLE Q
0043 310018 2001-02-01	LOWER MANNVILLE R
0043 310019 2001-02-01	LOWER MANNVILLE S
0043 310021 2001-02-01	LOWER MANNVILLE U
0043 310023 2015-02-01	LOWER MANNVILLE W
0043 310024 2001-02-01	LOWER MANNVILLE X
0043 310025 2001-02-01	LOWER MANNVILLE Y
0043 310026 2011-09-01	LOWER MANNVILLE Z
0043 310027 2001-02-01	LOWER MANNVILLE AA
0043 310028 2010-04-01	LOWER MANNVILLE BB
0043 310030 2017-05-01	LOWER MANNVILLE DD
0043 310031 2001-02-01	LOWER MANNVILLE EE
0043 310032 2001-02-01	LOWER MANNVILLE FF
0043 310034 2011-09-01	LOWER MANNVILLE HH
0043 310035 2001-02-01	LOWER MANNVILLE II
0043 310036 2001-02-01	LOWER MANNVILLE JJ
0043 310037 2001-02-01	LOWER MANNVILLE KK
0043 310038 2001-02-01	LOWER MANNVILLE LL
0043 310039 2001-02-01	LOWER MANNVILLE MM
0043 310040 2001-02-01	LOWER MANNVILLE NN
0043 310042 2001-02-01	LOWER MANNVILLE PP
0043 310043 2010-04-01	LOWER MANNVILLE QQ
0043 310046 2001-02-01	LOWER MANNVILLE TT
0043 310047 2001-02-01	LOWER MANNVILLE UU
0043 310048 2012-07-01	LOWER MANNVILLE VV
0043 310051 2015-05-01	LOWER MANNVILLE YY
0043 310052 2001-02-01	LOWER MANNVILLE ZZ
0043 310101 2012-10-01	LOWER MANNVILLE AAA
0043 310102 2001-02-01	LOWER MANNVILLE BBB
0043 310103 2001-02-01	LOWER MANNVILLE CCC
0043 310104 2001-02-01	LOWER MANNVILLE DDD
0043 310105 2001-02-01	LOWER MANNVILLE EEE
0043 310106 2001-02-01	LOWER MANNVILLE FFF
0043 310109 2001-02-01	LOWER MANNVILLE III
0043 310111 2001-02-01	LOWER MANNVILLE KKK

**POOL DESIGNATION (cont'd)**

0043 310113 2001-02-01	LOWER MANNVILLE MMM
0043 310115 2001-02-01	LOWER MANNVILLE OOO
0043 310117 2001-02-01	LOWER MANNVILLE QQQ
0043 310118 2001-02-01	LOWER MANNVILLE RRR
0043 310120 2001-02-01	LOWER MANNVILLE TTT
0043 310121 2001-02-01	LOWER MANNVILLE UUU
0043 310127 2001-02-01	LOWER MANNVILLE A2A
0043 310129 2001-07-01	LOWER MANNVILLE C2C
0043 310131 2001-02-01	LOWER MANNVILLE E2E
0043 310133 2001-02-01	LOWER MANNVILLE G2G
0043 310134 2011-09-01	LOWER MANNVILLE H2H
0043 310135 2001-02-01	LOWER MANNVILLE I2I
0043 310137 2010-04-01	LOWER MANNVILLE K2K
0043 310138 2001-02-01	LOWER MANNVILLE L2L
0043 310139 2001-02-01	LOWER MANNVILLE M2M
0043 310140 2002-01-01	LOWER MANNVILLE N2N
0043 310142 2011-09-01	LOWER MANNVILLE P2P
0043 310143 2001-02-01	LOWER MANNVILLE Q2Q
0043 310144 2009-01-01	LOWER MANNVILLE R2R
0043 310145 2001-02-01	LOWER MANNVILLE S2S
0043 310146 2001-02-01	LOWER MANNVILLE T2T
0043 310148 2001-02-01	LOWER MANNVILLE V2V
0043 310149 2001-02-01	LOWER MANNVILLE W2W
0043 310150 2001-02-01	LOWER MANNVILLE X2X
0043 310151 2011-11-01	LOWER MANNVILLE Y2Y
0043 310152 2001-02-01	LOWER MANNVILLE Z2Z
0043 310201 2001-02-01	LOWER MANNVILLE A3A
0043 310203 2001-02-01	LOWER MANNVILLE C3C
0043 310204 2011-09-01	LOWER MANNVILLE D3D
0043 310205 2001-02-01	LOWER MANNVILLE E3E
0043 310206 2001-02-01	LOWER MANNVILLE F3F
0043 310207 2001-02-01	LOWER MANNVILLE G3G
0043 310208 2001-02-01	LOWER MANNVILLE H3H
0043 310209 2001-02-01	LOWER MANNVILLE I3I
0043 310211 2001-02-01	LOWER MANNVILLE K3K
0043 310214 2001-02-01	LOWER MANNVILLE N3N
0043 310215 2001-02-01	LOWER MANNVILLE O3O
0043 310216 2001-02-01	LOWER MANNVILLE P3P

**POOL DESIGNATION (cont'd)**

0043 310217 2001-02-01	LOWER MANNVILLE Q3Q
0043 310218 2001-02-01	LOWER MANNVILLE R3R
0043 310219 2001-02-01	LOWER MANNVILLE S3S
0043 310222 2010-04-01	LOWER MANNVILLE V3V
0043 310225 2001-02-01	LOWER MANNVILLE Y3Y
0043 310226 2011-06-01	LOWER MANNVILLE Z3Z
0043 310228 2003-05-01	LOWER MANNVILLE B4B
0043 310229 2001-02-01	LOWER MANNVILLE C4C
0043 310230 2001-02-01	LOWER MANNVILLE D4D
0043 310231 2001-02-01	LOWER MANNVILLE E4E
0043 310232 2001-02-01	LOWER MANNVILLE F4F
0043 310234 2001-02-01	LOWER MANNVILLE H4H
0043 310238 2001-02-01	LOWER MANNVILLE L4L
0043 310239 2011-09-01	LOWER MANNVILLE M4M
0043 310240 2001-02-01	LOWER MANNVILLE N4N
0043 310244 2001-02-01	LOWER MANNVILLE R4R
0043 310245 2001-02-01	LOWER MANNVILLE S4S
0043 310246 2001-02-01	LOWER MANNVILLE T4T
0043 310247 2002-07-01	LOWER MANNVILLE U4U
0043 310248 2001-02-01	LOWER MANNVILLE V4V
0043 310249 2001-02-01	LOWER MANNVILLE W4W
0043 310250 2002-08-01	LOWER MANNVILLE X4X
0043 310251 2001-02-01	LOWER MANNVILLE Y4Y
0043 310252 2001-02-01	LOWER MANNVILLE Z4Z
0043 310301 2001-02-01	LOWER MANNVILLE A5A
0043 310302 2006-10-01	LOWER MANNVILLE B5B
0043 310303 2012-04-01	LOWER MANNVILLE C5C
0043 310304 2001-06-01	LOWER MANNVILLE D5D
0043 310305 2001-12-01	LOWER MANNVILLE E5E
0043 310306 2002-08-01	LOWER MANNVILLE F5F
0043 310307 2002-06-01	LOWER MANNVILLE G5G
0043 310308 2002-12-01	LOWER MANNVILLE H5H
0043 310309 2002-03-01	LOWER MANNVILLE I5I
0043 310310 2011-09-01	LOWER MANNVILLE J5J
0043 310313 2003-04-01	LOWER MANNVILLE M5M
0043 310314 2003-04-01	LOWER MANNVILLE N5N
0043 310315 2003-04-01	LOWER MANNVILLE O5O
0043 310316 2003-11-01	LOWER MANNVILLE P5P

**POOL DESIGNATION (cont'd)**

0043 310318 2003-12-01	LOWER MANNVILLE R5R
0043 310319 2011-09-01	LOWER MANNVILLE S5S
0043 310321 2004-01-01	LOWER MANNVILLE U5U
0043 310322 2009-08-01	LOWER MANNVILLE V5V
0043 310323 2008-08-01	LOWER MANNVILLE W5W
0043 310324 2005-04-01	LOWER MANNVILLE X5X
0043 310325 2004-03-01	LOWER MANNVILLE Y5Y
0043 310326 2010-04-01	LOWER MANNVILLE Z5Z
0043 310327 2005-10-01	LOWER MANNVILLE A6A
0043 310328 2005-04-01	LOWER MANNVILLE B6B
0043 310329 2006-07-01	LOWER MANNVILLE C6C
0043 310330 2005-12-01	LOWER MANNVILLE D6D
0043 310331 2005-12-01	LOWER MANNVILLE E6E
0043 310332 2005-12-01	LOWER MANNVILLE F6F
0043 310333 2007-10-01	LOWER MANNVILLE G6G
0043 310334 2014-08-01	LOWER MANNVILLE H6H
0043 310335 2007-05-01	LOWER MANNVILLE I6I
0043 310336 2007-11-01	LOWER MANNVILLE J6J
0043 310337 2008-07-01	LOWER MANNVILLE K6K
0043 310339 2014-03-01	LOWER MANNVILLE M6M
0043 310340 2013-12-01	LOWER MANNVILLE N6N
0043 310341 2008-08-01	LOWER MANNVILLE O6O
0043 310342 2008-08-01	LOWER MANNVILLE P6P
0043 310344 2008-10-01	LOWER MANNVILLE R6R
0043 310345 2008-10-01	LOWER MANNVILLE S6S
0043 310346 2008-10-01	LOWER MANNVILLE T6T
0043 310347 2008-11-01	LOWER MANNVILLE U6U
0043 310348 2009-04-01	LOWER MANNVILLE V6V
0043 310351 2009-08-01	LOWER MANNVILLE Y6Y
0043 310352 2010-05-01	LOWER MANNVILLE Z6Z
0043 310401 2011-08-01	LOWER MANNVILLE A7A
0043 310403 2010-05-01	LOWER MANNVILLE C7C
0043 310405 2014-08-01	LOWER MANNVILLE E7E
0043 310408 2010-11-01	LOWER MANNVILLE H7H
0043 310409 2011-11-01	LOWER MANNVILLE I7I
0043 310410 2011-03-01	LOWER MANNVILLE J7J
0043 310411 2012-02-01	LOWER MANNVILLE K7K
0043 310412 2011-12-01	LOWER MANNVILLE L7L

**POOL DESIGNATION (cont'd)**

0043 310413 2017-08-01	LOWER MANNVILLE M7M
0043 310415 2012-03-01	LOWER MANNVILLE O7O
0043 310416 2012-03-01	LOWER MANNVILLE P7P
0043 310417 2012-08-01	LOWER MANNVILLE Q7Q
0043 310418 2012-04-01	LOWER MANNVILLE R7R
0043 310419 2012-08-01	LOWER MANNVILLE S7S
0043 310422 2015-01-01	LOWER MANNVILLE V7V
0043 310425 2012-09-01	LOWER MANNVILLE Y7Y
0043 310426 2013-03-01	LOWER MANNVILLE Z7Z
0043 310427 2012-12-01	LOWER MANNVILLE A8A
0043 310428 2013-01-01	LOWER MANNVILLE B8B
0043 310429 2013-11-01	LOWER MANNVILLE C8C
0043 310430 2013-06-01	LOWER MANNVILLE D8D
0043 310431 2013-03-01	LOWER MANNVILLE E8E
0043 310432 2013-03-01	LOWER MANNVILLE F8F
0043 310435 2013-05-01	LOWER MANNVILLE I8I
0043 310436 2013-05-01	LOWER MANNVILLE J8J
0043 310437 2013-05-01	LOWER MANNVILLE K8K
0043 310438 2013-05-01	LOWER MANNVILLE L8L
0043 310439 2013-05-01	LOWER MANNVILLE M8M
0043 310440 2014-02-01	LOWER MANNVILLE N8N
0043 310442 2014-04-01	LOWER MANNVILLE P8P
0043 310443 2014-01-01	LOWER MANNVILLE Q8Q
0043 310444 2015-02-01	LOWER MANNVILLE R8R
0043 310445 2014-04-01	LOWER MANNVILLE S8S
0043 310446 2013-09-01	LOWER MANNVILLE T8T
0043 310447 2013-10-01	LOWER MANNVILLE U8U
0043 310448 2014-04-01	LOWER MANNVILLE V8V
0043 310450 2017-06-01	LOWER MANNVILLE X8X
0043 310451 2017-07-01	LOWER MANNVILLE Y8Y
0043 310452 2017-07-01	LOWER MANNVILLE Z8Z
0043 310501 2017-07-01	LOWER MANNVILLE A9A
0043 350001 2001-02-01	DETRITAL A
0043 350002 2001-09-01	DETRITAL B
0043 350003 2001-02-01	DETRITAL C
0043 350004 2001-02-01	DETRITAL D
0043 350006 2001-02-01	DETRITAL F

**POOL DESIGNATION (cont'd)**

0043 350007 2001-07-01	DETRITAL G
0043 350008 2001-02-01	DETRITAL H
0043 350009 2001-02-01	DETRITAL I
0043 350010 2001-09-01	DETRITAL J
0043 350011 2008-10-01	DETRITAL K
0043 350012 2008-11-01	DETRITAL L
0043 628001 2010-04-01	LIVINGSTONE A
0043 628002 2010-04-01	LIVINGSTONE B
0043 628003 2001-02-01	LIVINGSTONE C
0043 628004 2007-03-01	LIVINGSTONE D
0043 628005 2008-05-01	LIVINGSTONE E
0043 642001 2001-02-01	PEKISKO A
0043 642002 2001-02-01	PEKISKO B
0043 642003 2012-03-01	PEKISKO C
0043 642004 2001-02-01	PEKISKO D
0043 642005 2001-02-01	PEKISKO E
0043 642006 2001-02-01	PEKISKO F
0043 642007 2001-02-01	PEKISKO G
0043 642008 2001-02-01	PEKISKO H
0043 642009 2003-03-01	PEKISKO I
0043 642010 2010-04-01	PEKISKO J
0043 642011 2012-02-01	PEKISKO K
0043 642012 2011-06-01	PEKISKO L
0043 642013 2012-05-01	PEKISKO M
0043 642014 2008-12-01	PEKISKO N
0043 642015 2012-07-01	PEKISKO O
0043 642017 2010-08-01	PEKISKO Q
0043 642018 2013-07-01	PEKISKO R
0043 642019 2010-10-01	PEKISKO S
0043 642020 2015-02-01	PEKISKO T
0043 642022 2013-06-01	PEKISKO V
0043 642023 2011-05-01	PEKISKO W
0043 642024 2011-10-01	PEKISKO X
0043 642025 2012-03-01	PEKISKO Y
0043 642026 2011-09-01	PEKISKO Z
0043 642027 2012-02-01	PEKISKO AA



**POOL DESIGNATION (cont'd)**

0043 642028 2011-10-01	PEKISKO BB
0043 642030 2012-04-01	PEKISKO DD
0043 642031 2012-04-01	PEKISKO EE
0043 642032 2012-04-01	PEKISKO FF
0043 642033 2012-02-01	PEKISKO GG
0043 642034 2013-03-01	PEKISKO HH
0043 642035 2013-10-01	PEKISKO II
0043 642036 2013-11-01	PEKISKO JJ
0043 642037 2014-02-01	PEKISKO KK
0043 642038 2013-07-01	PEKISKO LL
0043 694004 2011-09-01	ARCS D
0043 850100 2013-12-01	MFP8501 MILK RIVER
0043 850200 2013-12-01	MFP8502 MED HAT
0043 850500 2015-05-01	MFP8505 2WS
0043 853300 2011-09-01	MFP8533 COLORADO
0043 855000 2012-12-01	MFP8550 BELLY RIVER
0043 855300 2011-02-01	MFP8553 COLORADO
0043 859300 2013-12-01	MFP8593 BSL BELLY RIV
0043 961600 2012-12-01	MFP9616 CBM MCKY

**SPACING PATTERN**

SU 4247 3 Dec 2004  
 SU 4247A 17 Jan 2005  
 SU 4247B 4 Feb 2005  
 SU 4247C 12 Apr 2005  
 SU 4247D 7 May 2005  
 SU 4247E 27 Jul 2005  
 SU 4247F 27 Oct 2005  
 SU 4247G 9 Dec 2005  
 SU 4247H 6 Mar 2006

**MISCELLANEOUS ORDERS**

MISC 93298 10 Sep 1993  
 Concurrent production  
 Lower Mannville Z2Z

**COMMINGLED PRODUCTION**

MU 8510 24 Jul 2013

**ENHANCED RECOVERY SCHEMES**

App 4225G  
 Waterflood  
 Upper Mannville Z  
 Cenovus Energy Inc.

App 5855E 17 Oct 2016  
 Waterflood  
 Lower Mannville B  
 Canadian Natural Resources Limited

App 6334D 6 Nov 2013  
 Waterflood  
 Upper Mannville Y  
 Cenovus Energy Inc.

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

App 7124E 24 Jun 2015  
 Waterflood  
 Upper Mannville S  
 Cenovus Energy Inc.

App 7186G 6 Apr 2016  
 Waterflood  
 Upper Mannville VVV  
 Cenovus Energy Inc.

App 7188G 6 Apr 2016  
 Upper Mannville YY  
 Cenovus Energy Inc.

App 7554I 17 Oct 2016  
 Waterflood  
 Lower Mannville I3I and Detrital J  
 Canadian Natural Resources Limited

App 7666E 9 Aug 2016  
 Waterflood  
 Lower Mannville TT  
 Canadian Natural Resources Limited

App 8479C 17 Oct 2016  
 Waterflood  
 Lower Mannville Z2Z  
 Canadian Natural Resources Limited

App 8504C 17 Oct 2016  
 Waterflood  
 Lower Mannville N3N  
 Canadian Natural Resources Limited

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

App 8663C 17 Oct 2016  
Waterflood  
Lower Mannville B  
Canadian Natural Resources Limited

App 9715C 23 Jan 2015  
Waterflood  
Lower Mannville B  
Taqa North Ltd.

App 9822G 5 Oct 2015  
Waterflood  
Lower Mannville S5S  
Cenovus Energy Inc.

App 9918B 2 Aug 2016  
Waterflood  
Lower Mannville MM, I2I, K2K  
Cenovus Energy Inc.

App 9919G 16 Apr 2015  
Waterflood  
Arcs D  
Cardinal Energy Ltd.

App 9921E 21 Dec 2015  
Waterflood  
Lower Mannville M4M  
Cardinal Energy Ltd.

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

App 9958E 20 Oct 2014  
Waterflood  
Lower Mannville X5X and Y5Y  
Cenovus Energy Inc.  
App 10209I 22 Jul 2016  
Waterflood  
Lower Mannville E3E  
Cardinal Energy Ltd.

App 10270D 9 Jun 2015  
Waterflood  
Lower Mannville C5C  
Cenovus Energy Inc.

App 10360G 15 Apr 2015  
Waterflood  
Upper Mannville WW & Lower Mannville  
QQ  
Cardinal Energy Ltd.

App 10400H 22 Jul 2016  
Waterflood  
Lower Mannville D3D  
Cardinal Energy Ltd.

App 10487B 14 Mar 2014  
Waterflood  
Lower Mannville J5J  
Cenovus Energy Inc.

App 10902F 22 Jul 2016  
Waterflood  
Lower Mannville D4D  
Cardinal Energy Ltd.

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

App 10957D 16 Apr 2015  
Waterflood  
Upper Mannville D  
Cardinal Energy Ltd.

App 11096C 18 May 2016  
Waterflood  
Lower Mannville W5W  
Cenovus Energy Inc.

App 11427B 6 Aug 2015  
Waterflood  
Upper Mannville W3W and N4N  
Alberta Petroleum Energy Limited

App 11762G 9 Mar 2016  
Waterflood  
Pekisko K  
Crew Energy Inc.

App 11765D 23 Nov 2015  
Waterflood  
Pekisko M  
Imaginea Energy Corp.

App 11906B 9 Aug 2016  
Waterflood  
Lower Mannville W  
Canadian Natural Resources Limited

**SUBSURFACE DISPOSAL SCHEMES**

App 7266D 15 Aug 2016  
Class II  
SanLing Energy Ltd.

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

App 8379B 19 Feb 2014  
Class II  
Anterra Energy Inc.

App 9650A 23 Jan 2012  
Class II  
International Frontier Resources  
Corporation

App 9983D 23 Sep 2016  
Class II  
Canadian Natural Resources Limited

App 10090A 2 Apr 2012  
Class II  
Harvest Operations Corp.

App 10197 28 Mar 2005

App 10197A 17 Sep 2007  
Class Ib  
Anterra Energy Inc.

App 10986E 27 Apr 2016  
Class II  
Cenovus Energy Inc.

App 11400D 6 Jan 2016  
Class II  
Imaginea Energy Corp.

App 11712B 30 Dec 2013  
Class II  
Cardinal Energy Ltd.

**COMPULSORY POOLING**

P 351            15 Apr 2008

P 351A          7 Jan 2010

Gas

20-015-10W4M

Suncor Energy Inc.

**FIELD DESIGNATION**

0046 2011-02-01                    ALEXANDER FIELD

**POOL DESIGNATION**

0046 218001 2002-03-01        VIKING A  
0046 218002 2003-05-01        VIKING B  
0046 218003 2007-06-01        VIKING C

0046 250001 2001-02-01        UPPER MANNVILLE A  
0046 250002 2001-02-01        UPPER MANNVILLE B  
0046 250003 2008-05-01        UPPER MANNVILLE C  
0046 250004 2007-08-01        UPPER MANNVILLE D  
0046 250005 2008-02-01        UPPER MANNVILLE E  
0046 250006 2011-02-01        UPPER MANNVILLE F  
0046 250007 2012-10-01        UPPER MANNVILLE G

0046 300001 2001-09-01        GLAUCONITIC A  
0046 300002 2004-08-01        GLAUCONITIC B

0046 310001 2005-07-01        LOWER MANNVILLE A  
0046 310002 2008-05-01        LOWER MANNVILLE B  
0046 310003 2008-05-01        LOWER MANNVILLE C  
0046 310004 2008-05-01        LOWER MANNVILLE D  
0046 310006 2009-07-01        LOWER MANNVILLE F  
0046 310007 2013-03-01        LOWER MANNVILLE G  
0046 310008 2014-12-01        LOWER MANNVILLE H

0046 334001 2013-02-01        BASAL QUARTZ A  
0046 334002 2001-02-01        BASAL QUARTZ B  
0046 334003 2001-12-01        BASAL QUARTZ C  
0046 334004 2011-03-01        BASAL QUARTZ D  
0046 334005 2001-02-01        BASAL QUARTZ E  
0046 334006 2001-02-01        BASAL QUARTZ F  
0046 334007 2001-02-01        BASAL QUARTZ G  
0046 334008 2001-02-01        BASAL QUARTZ H  
0046 334009 2001-02-01        BASAL QUARTZ I

**POOL DESIGNATION (cont'd)**

0046 334010	2001-02-01	BASAL QUARTZ J
0046 334011	2001-02-01	BASAL QUARTZ K
0046 334012	2001-02-01	BASAL QUARTZ L
0046 334013	2001-02-01	BASAL QUARTZ M
0046 334014	2001-02-01	BASAL QUARTZ N
0046 334015	2001-05-01	BASAL QUARTZ O
0046 334016	2010-04-01	BASAL QUARTZ P
0046 334017	2003-02-01	BASAL QUARTZ Q
0046 334019	2002-05-01	BASAL QUARTZ S
0046 334020	2003-05-01	BASAL QUARTZ T
0046 334021	2003-05-01	BASAL QUARTZ U
0046 334022	2013-02-01	BASAL QUARTZ V
0046 334023	2005-02-01	BASAL QUARTZ W
0046 334024	2005-02-01	BASAL QUARTZ X
0046 334025	2007-06-01	BASAL QUARTZ Y
0046 334026	2006-06-01	BASAL QUARTZ Z
0046 334027	2007-01-01	BASAL QUARTZ AA
0046 334028	2007-07-01	BASAL QUARTZ BB
0046 334029	2011-11-01	BASAL QUARTZ CC
0046 334030	2007-06-01	BASAL QUARTZ DD
0046 334031	2007-07-01	BASAL QUARTZ EE
0046 334032	2008-10-01	BASAL QUARTZ FF
0046 334033	2011-08-01	BASAL QUARTZ GG
0046 350001	2003-07-01	DETRITAL A
0046 350002	2004-05-01	DETRITAL B
0046 350003	2014-01-01	DETRITAL C
0046 350004	2011-08-01	DETRITAL D
0046 350005	2013-12-01	DETRITAL E
0046 658001	2010-04-01	WABAMUN A
0046 658003	2001-02-01	WABAMUN C
0046 658004	2001-02-01	WABAMUN D
0046 658005	2001-02-01	WABAMUN E
0046 658006	2001-02-01	WABAMUN F
0046 658008	2004-09-01	WABAMUN H
0046 658009	2004-07-01	WABAMUN I

**POOL DESIGNATION (cont'd)**

0046 658012 2008-10-01 WABAMUN L  
0046 658013 2010-01-01 WABAMUN M

**SPACING PATTERN**

SU 3045 13 Aug 2001  
SU 3045A 26 Feb 2003  
SU 3045B 7 Sep 2007

**COMMINGLED PRODUCTION**

MU 6399 30 Jan 2007

**SUBSURFACE DISPOSAL SCHEMES**

App 11076C 16 Nov 2010  
Class II  
Petro-Reef Resources Ltd.



**FIELD DESIGNATION**

0048 2011-08-01 ALIX FIELD

**POOL DESIGNATION**

0048 118802 2010-08-01 LOWER EDMONTON B  
0048 118803 2011-08-01 LOWER EDMONTON C  
  
0048 126006 2001-02-01 BELLY RIVER F  
  
0048 134001 2017-04-01 BASAL BELLY RIVER A  
  
0048 218001 2001-02-01 VIKING A  
0048 218002 2008-11-01 VIKING B  
  
0048 250001 2002-06-01 UPPER MANNVILLE A  
  
0048 336001 2001-02-01 ELLERSLIE A  
0048 336002 2001-02-01 ELLERSLIE B  
  
0048 696000 2010-04-01 D-2  
0048 696002 2011-04-01 D-2 B  
  
0048 720001 2010-08-01 D-3 A  
  
0048 850900 2011-08-01 MFP8509 BELLY RIVER  
  
0048 853700 2011-08-01 MFP8537 LWR EDMONTON

**SPACING PATTERN**

SU 4250 2 Dec 2004  
SU 4250A 22 Mar 2005  
SU 4250B 29 Jun 2005  
SU 4250C 12 Jun 2006

**SUBSURFACE DISPOSAL SCHEMES**

App 6966A 30 Jul 2014  
Class II  
Coastal Resources Limited

**COMMINGLED PRODUCTION**

MU 8257 6 Dec 2011

**FIELD DESIGNATION**

0044 2006-05-01                      ALKALI FIELD

**POOL DESIGNATION**

0044 218001 2010-04-01            VIKING A  
0044 218002 2001-02-01            VIKING B  
0044 218003 2009-12-01            VIKING C  
0044 218004 2010-01-01            VIKING D

0044 250001 2001-02-01            UPPER MANNVILLE A  
0044 250002 2009-08-01            UPPER MANNVILLE B  
0044 250003 2003-12-01            UPPER MANNVILLE C  
0044 250005 2005-01-01            UPPER MANNVILLE E  
0044 250006 2006-03-01            UPPER MANNVILLE F  
0044 250007 2006-05-01            UPPER MANNVILLE G  
0044 250008 2006-05-01            UPPER MANNVILLE H  
0044 250009 2006-12-01            UPPER MANNVILLE I  
0044 250010 2013-05-01            UPPER MANNVILLE J  
0044 250011 2010-02-01            UPPER MANNVILLE K  
0044 250012 2010-11-01            UPPER MANNVILLE L

0044 310001 2001-02-01            LOWER MANNVILLE A  
0044 310002 2001-02-01            LOWER MANNVILLE B  
0044 310003 2004-08-01            LOWER MANNVILLE C  
0044 310005 2005-08-01            LOWER MANNVILLE E  
0044 310006 2013-06-01            LOWER MANNVILLE F

**FIELD DESIGNATION**

0002 2003-07-01 ALPEN FIELD

**POOL DESIGNATION**

0002 250001 2004-05-01 UPPER MANNVILLE A  
0002 250002 2006-01-01 UPPER MANNVILLE B  
0002 250003 2009-09-01 UPPER MANNVILLE C

0002 300001 2003-07-01 GLAUCONITIC A  
0002 300002 2003-07-01 GLAUCONITIC B

0002 336001 2006-01-01 ELLERSLIE A

0002 350001 2001-02-01 DETRITAL A  
0002 350002 2001-02-01 DETRITAL B

0002 658001 2004-05-01 WABAMUN A

**COMMINGLED PRODUCTION**

MU 5016 12 Jan 2006

**FIELD DESIGNATION**

0045 2010-01-01 ALSASK FIELD

**POOL DESIGNATION**

0045 218001 2001-02-01 VIKING A  
0045 218004 2001-02-01 VIKING D  
0045 218006 2008-12-01 VIKING F  
0045 218007 2001-04-01 VIKING G  
0045 218008 2010-08-01 VIKING H

0045 250001 2010-04-01 UPPER MANNVILLE A  
0045 250002 2001-02-01 UPPER MANNVILLE B  
0045 250003 2014-01-01 UPPER MANNVILLE C  
0045 250005 2001-02-01 UPPER MANNVILLE E  
0045 250006 2010-08-01 UPPER MANNVILLE F  
0045 250007 2010-04-01 UPPER MANNVILLE G  
0045 250010 2001-10-01 UPPER MANNVILLE J  
0045 250011 2009-11-01 UPPER MANNVILLE K  
0045 250013 2001-02-01 UPPER MANNVILLE M  
0045 250014 2001-02-01 UPPER MANNVILLE N  
0045 250015 2004-06-01 UPPER MANNVILLE O  
0045 250016 2005-02-01 UPPER MANNVILLE P  
0045 250017 2005-03-01 UPPER MANNVILLE Q  
0045 250019 2007-05-01 UPPER MANNVILLE S  
0045 250021 2010-01-01 UPPER MANNVILLE U  
0045 250022 2010-02-01 UPPER MANNVILLE V

0045 310001 2001-02-01 LOWER MANNVILLE A  
0045 310002 2010-04-01 LOWER MANNVILLE B  
0045 310003 2010-04-01 LOWER MANNVILLE C  
0045 310004 2010-07-01 LOWER MANNVILLE D

0045 646001 2001-02-01 BAKKEN A  
0045 646002 2011-11-01 BAKKEN B  
0045 646003 2001-09-01 BAKKEN C  
0045 646004 2005-07-01 BAKKEN D

**SPACING PATTERN**

SU 2306      4 Aug 1995  
SU 2306A    27 Aug 1996  
SU 2306B    17 Jun 1997  
SU 2306C    12 Feb 1998

**COMMINGLED PRODUCTION**

MU 1817      3 Aug 1999

**SUBSURFACE DISPOSAL SCHEMES**

App 9527B    18 Apr 2017  
Class II  
Blackbird Energy Inc.

**FIELD DESIGNATION**

0049 2008-07-01            ALSIKE FIELD

**POOL DESIGNATION**

0049 126001 2009-08-01    BELLY RIVER A

0049 300001 2001-02-01    GLAUCONITIC A

0049 644001 2001-02-01    BANFF A

0049 644002 2015-08-01    BANFF B

**COMMINGLED PRODUCTION**

MU 6917        8 Jul 2008

**FIELD DESIGNATION**

0059 2009-01-01 ALTARIO FIELD

**POOL DESIGNATION**

0059 250001 2001-02-01 UPPER MANNVILLE A  
0059 250004 2010-11-01 UPPER MANNVILLE D

0059 256001 2001-02-01 COLONY A  
0059 256002 2001-02-01 COLONY B  
0059 256003 2001-02-01 COLONY C  
0059 256004 2001-02-01 COLONY D  
0059 256005 2001-02-01 COLONY E

0059 268001 2001-02-01 MCLAREN A  
0059 268002 2001-02-01 MCLAREN B  
0059 268003 2003-01-01 MCLAREN C  
0059 268006 2001-02-01 MCLAREN F  
0059 268008 2003-01-01 MCLAREN H  
0059 268009 2007-05-01 MCLAREN I  
0059 268011 2009-08-01 MCLAREN K

0059 286001 2001-02-01 GENERAL PETROLEUM A  
0059 286002 2005-06-01 GENERAL PETROLEUM B  
0059 286003 2010-04-01 GENERAL PETROLEUM C

0059 288001 2013-10-01 REX A

0059 294001 2001-02-01 LLOYDMINSTER A  
0059 294002 2001-02-01 LLOYDMINSTER B  
0059 294003 2001-02-01 LLOYDMINSTER C  
0059 294004 2001-02-01 LLOYDMINSTER D  
0059 294005 2001-02-01 LLOYDMINSTER E  
0059 294006 2001-02-01 LLOYDMINSTER F  
0059 294007 2001-02-01 LLOYDMINSTER G  
0059 294009 2001-02-01 LLOYDMINSTER I  
0059 294010 2003-01-01 LLOYDMINSTER J

**POOL DESIGNATION (cont'd)**

0059 300002	2001-02-01	GLAUCONITIC B
0059 300003	2001-02-01	GLAUCONITIC C
0059 300004	2008-10-01	GLAUCONITIC D

0059 302004	2008-10-01	CUMMINGS D
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0059 646001	2001-02-01	BAKKEN A
0059 646004	2001-02-01	BAKKEN D
0059 646005	2002-10-01	BAKKEN E

**SPACING PATTERN**

SU 2202	7 Jul 1995
SU 2202A	15 Mar 2004

**COMMINGLED PRODUCTION**

MU 7163	22 May 2009
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**FIELD DESIGNATION**

0050 2011-05-01 AMADOU FIELD

**POOL DESIGNATION**

0050 262001 2011-05-01 GRAND RAPIDS A  
0050 262002 2001-02-01 GRAND RAPIDS B  
0050 262003 2010-04-01 GRAND RAPIDS C  
0050 262006 2001-02-01 GRAND RAPIDS F  
0050 262007 2001-02-01 GRAND RAPIDS G  
0050 262008 2003-10-01 GRAND RAPIDS H  
0050 262009 2004-02-01 GRAND RAPIDS I  
0050 262010 2004-02-01 GRAND RAPIDS J  
0050 262011 2004-02-01 GRAND RAPIDS K  
0050 262012 2004-05-01 GRAND RAPIDS L  
0050 262013 2005-03-01 GRAND RAPIDS M  
0050 262014 2006-04-01 GRAND RAPIDS N  
0050 262015 2009-12-01 GRAND RAPIDS O

0050 280001 2001-02-01 CLEARWATER A

0050 328001 2010-04-01 MCMURRAY A  
0050 328003 2001-04-01 MCMURRAY C  
0050 328004 2003-05-01 MCMURRAY D  
0050 328005 2004-08-01 MCMURRAY E  
0050 328006 2004-09-01 MCMURRAY F  
0050 328007 2005-04-01 MCMURRAY G  
0050 328008 2009-12-01 MCMURRAY H

0050 350001 2003-06-01 DETRITAL A

0050 696001 2010-04-01 NISKU A  
0050 696002 2010-04-01 NISKU B  
0050 696003 2001-02-01 NISKU C  
0050 696004 2001-02-01 NISKU D  
0050 696005 2013-09-01 NISKU E

**COMMINGLED PRODUCTION**

MU 3614      21 Jul 2004

**FIELD DESIGNATION**

0052 2014-06-01            AMBER FIELD

**POOL DESIGNATION**

0052 304001 2012-04-01    BLUESKY A

0052 758001 2006-01-01    SLAVE POINT A  
0052 758002 2001-06-01    SLAVE POINT B  
0052 758003 2001-03-01    SLAVE POINT C  
0052 758004 2006-02-01    SLAVE POINT D  
0052 758005 2001-09-01    SLAVE POINT E  
0052 758006 2003-02-01    SLAVE POINT F  
0052 758007 2003-05-01    SLAVE POINT G  
0052 758008 2003-12-01    SLAVE POINT H  
0052 758009 2004-01-01    SLAVE POINT I  
0052 758010 2004-01-01    SLAVE POINT J  
0052 758011 2004-08-01    SLAVE POINT K  
0052 758012 2004-08-01    SLAVE POINT L  
0052 758013 2005-02-01    SLAVE POINT M

0052 767501 2008-06-01    SULPHUR POINT A  
0052 767502 2008-06-01    SULPHUR POINT B  
0052 767503 2008-06-01    SULPHUR POINT C  
0052 767504 2008-06-01    SULPHUR POINT D  
0052 767505 2008-06-01    SULPHUR POINT E  
0052 767506 2008-06-01    SULPHUR POINT F  
0052 767507 2008-06-01    SULPHUR POINT G  
0052 767508 2008-06-01    SULPHUR POINT H  
0052 767509 2008-06-01    SULPHUR POINT I  
0052 767510 2008-06-01    SULPHUR POINT J  
0052 767512 2008-06-01    SULPHUR POINT L  
0052 767513 2008-06-01    SULPHUR POINT M  
0052 767514 2010-04-01    SULPHUR POINT N  
0052 767515 2008-06-01    SULPHUR POINT O  
0052 767516 2009-05-01    SULPHUR POINT P  
0052 767517 2009-05-01    SULPHUR POINT Q

**POOL DESIGNATION (cont'd)**

0052 768501 2008-06-01	MUSKEG A
0052 768502 2008-06-01	MUSKEG B
0052 768503 2008-06-01	MUSKEG C
0052 768504 2008-06-01	MUSKEG D
0052 768505 2008-06-01	MUSKEG E
0052 768506 2008-06-01	MUSKEG F
0052 768507 2010-04-01	MUSKEG G
0052 768508 2008-06-01	MUSKEG H
0052 768509 2008-06-01	MUSKEG I
0052 768510 2008-06-01	MUSKEG J
0052 768511 2008-06-01	MUSKEG K
0052 768512 2008-06-01	MUSKEG L
0052 768513 2008-06-01	MUSKEG M
0052 768514 2008-06-01	MUSKEG N
0052 768515 2008-06-01	MUSKEG O
0052 768516 2008-06-01	MUSKEG P
0052 768517 2008-06-01	MUSKEG Q
0052 768518 2013-05-01	MUSKEG R
0052 772101 2008-06-01	KEG RIVER A
0052 772102 2008-06-01	KEG RIVER B
0052 772103 2008-06-01	KEG RIVER C
0052 772104 2010-04-01	KEG RIVER D
0052 772105 2008-06-01	KEG RIVER E
0052 772106 2008-06-01	KEG RIVER F
0052 772107 2008-06-01	KEG RIVER G
0052 772108 2008-06-01	KEG RIVER H
0052 772109 2008-06-01	KEG RIVER I
0052 772110 2008-06-01	KEG RIVER J
0052 772112 2008-06-01	KEG RIVER L
0052 772113 2008-06-01	KEG RIVER M
0052 772114 2008-06-01	KEG RIVER N
0052 772115 2008-06-01	KEG RIVER O
0052 772116 2008-06-01	KEG RIVER P
0052 772117 2008-06-01	KEG RIVER Q
0052 772118 2008-06-01	KEG RIVER R
0052 772119 2008-06-01	KEG RIVER S
0052 772120 2008-06-01	KEG RIVER T

**POOL DESIGNATION (cont'd)**

0052 772121 2008-06-01	KEG RIVER U
0052 772122 2008-06-01	KEG RIVER V
0052 772123 2008-06-01	KEG RIVER W
0052 772124 2010-07-01	KEG RIVER X
0052 772125 2010-04-01	KEG RIVER Y
0052 772126 2008-06-01	KEG RIVER Z
0052 772127 2010-04-01	KEG RIVER AA
0052 772128 2008-06-01	KEG RIVER BB
0052 772129 2008-06-01	KEG RIVER CC
0052 772130 2008-06-01	KEG RIVER DD
0052 772131 2008-06-01	KEG RIVER EE
0052 772132 2008-06-01	KEG RIVER FF
0052 772133 2008-06-01	KEG RIVER GG
0052 772134 2011-03-01	KEG RIVER HH
0052 772135 2008-06-01	KEG RIVER II
0052 772136 2008-06-01	KEG RIVER JJ
0052 772137 2008-06-01	KEG RIVER KK
0052 772138 2010-04-01	KEG RIVER LL
0052 772139 2008-06-01	KEG RIVER MM
0052 772140 2008-06-01	KEG RIVER NN
0052 772141 2008-06-01	KEG RIVER OO
0052 772142 2008-06-01	KEG RIVER PP
0052 772143 2008-06-01	KEG RIVER QQ
0052 772144 2008-06-01	KEG RIVER RR
0052 772145 2008-06-01	KEG RIVER SS
0052 772146 2008-06-01	KEG RIVER TT
0052 772147 2008-06-01	KEG RIVER UU
0052 772148 2008-06-01	KEG RIVER VV
0052 772149 2008-06-01	KEG RIVER WW
0052 772150 2011-11-01	KEG RIVER XX
0052 772151 2008-06-01	KEG RIVER YY
0052 772152 2008-06-01	KEG RIVER ZZ
0052 772201 2008-06-01	KEG RIVER AAA
0052 772202 2008-06-01	KEG RIVER BBB
0052 772203 2008-06-01	KEG RIVER CCC
0052 772204 2008-06-01	KEG RIVER DDD
0052 772205 2010-04-01	KEG RIVER EEE
0052 772206 2008-06-01	KEG RIVER FFF

**POOL DESIGNATION (cont'd)**

0052 772207	2008-06-01	KEG RIVER GGG
0052 772208	2008-06-01	KEG RIVER HHH
0052 772209	2008-06-01	KEG RIVER III
0052 772210	2010-04-01	KEG RIVER JJJ
0052 772211	2008-06-01	KEG RIVER KKK
0052 772212	2008-06-01	KEG RIVER LLL
0052 772213	2008-06-01	KEG RIVER MMM
0052 772214	2008-06-01	KEG RIVER NNN
0052 772215	2008-06-01	KEG RIVER OOO
0052 772217	2008-06-01	KEG RIVER QQQ
0052 772219	2008-06-01	KEG RIVER SSS
0052 772220	2008-06-01	KEG RIVER TTT
0052 772221	2008-06-01	KEG RIVER UUU
0052 772222	2008-06-01	KEG RIVER VVV
0052 772223	2008-06-01	KEG RIVER WWW
0052 772224	2008-06-01	KEG RIVER XXX
0052 772225	2008-06-01	KEG RIVER YYY
0052 772226	2008-06-01	KEG RIVER ZZZ
0052 772227	2008-06-01	KEG RIVER A2A
0052 772228	2008-06-01	KEG RIVER B2B
0052 772229	2013-02-01	KEG RIVER C2C
0052 772230	2008-11-01	KEG RIVER D2D
0052 772231	2009-03-01	KEG RIVER E2E
0052 772232	2009-03-01	KEG RIVER F2F
0052 772233	2009-09-01	KEG RIVER G2G

**SPACING PATTERN**

SU 2544	6 Feb 1996
SU 2544A	11 Feb 2005
SU 2544B	29 Mar 2005
SU 2544C	3 Jun 2005
SU 2544D	6 Jul 2005
SU 2544E	14 May 2007

**SUBSURFACE DISPOSAL SCHEMES**

App 10922A 16 Feb 2010  
Class II  
Apache Canada Ltd.

**COMMINGLED PRODUCTION**

MU 6955	12 Sep 2008
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**FIELD DESIGNATION**

0008 2013-05-01 AMELIA FIELD

**POOL DESIGNATION**

0008 126001 2014-04-01 BELLY RIVER A

0008 176001 2001-02-01 CARDIUM A

0008 213001 2009-11-01 BOW ISLAND A

0008 300001 2006-03-01 GLAUCONITIC A

0008 300002 2005-08-01 GLAUCONITIC B

0008 300003 2005-10-01 GLAUCONITIC C

0008 300004 2010-04-01 GLAUCONITIC D

0008 300005 2008-05-01 GLAUCONITIC E

0008 300006 2010-04-01 GLAUCONITIC F

0008 300007 2010-04-01 GLAUCONITIC G

0008 316002 2013-11-01 OSTRACOD B

0008 332001 2012-09-01 SUNBURST A

0008 332002 2011-03-01 SUNBURST B

0008 332003 2013-07-01 SUNBURST C

0008 332004 2010-04-01 SUNBURST D

0008 332005 2009-09-01 SUNBURST E

0008 332006 2009-09-01 SUNBURST F

0008 332007 2011-05-01 SUNBURST G

0008 332008 2012-10-01 SUNBURST H

0008 334001 2004-08-01 BASAL QUARTZ A

0008 334002 2009-09-01 BASAL QUARTZ B

0008 644001 2008-11-01 BANFF A

0008 649001 2012-08-01 LWR BANFF-EXSHAW-BV A

**POOL DESIGNATION (cont'd)**

0008 649002 2013-05-01 LWR BANFF-EXSHAW-BV B  
0008 649003 2013-12-01 LWR BANFF-EXSHAW-BV C

**SPACING PATTERN**

SU 4301 1 Mar 2006

**COMMINGLED PRODUCTION**

MU 4786 28 Oct 2005



**FIELD DESIGNATION**

0037 2005-12-01 AMIGO FIELD

**POOL DESIGNATION**

0037 758001 2001-03-01 SLAVE POINT A  
0037 758002 2005-03-01 SLAVE POINT B  
0037 758003 2006-05-01 SLAVE POINT C  
0037 758004 2006-04-01 SLAVE POINT D  
0037 758005 2006-04-01 SLAVE POINT E  
0037 758006 2006-04-01 SLAVE POINT F  
0037 758007 2007-06-01 SLAVE POINT G  
0037 758008 2007-06-01 SLAVE POINT H  
0037 758009 2008-08-01 SLAVE POINT I

0037 767501 2010-04-01 SULPHUR POINT A  
0037 767502 2008-06-01 SULPHUR POINT B  
0037 767503 2008-06-01 SULPHUR POINT C

0037 768501 2008-06-01 MUSKEG A  
0037 768502 2008-06-01 MUSKEG B  
0037 768503 2008-06-01 MUSKEG C  
0037 768504 2008-06-01 MUSKEG D  
0037 768505 2008-06-01 MUSKEG E  
0037 768506 2008-06-01 MUSKEG F  
0037 768507 2008-06-01 MUSKEG G  
0037 768508 2008-06-01 MUSKEG H  
0037 768509 2008-06-01 MUSKEG I  
0037 768511 2008-06-01 MUSKEG K  
0037 768512 2008-06-01 MUSKEG L  
0037 768513 2010-04-01 MUSKEG M  
0037 768514 2008-08-01 MUSKEG N  
0037 768515 2008-08-01 MUSKEG O  
0037 768516 2010-02-01 MUSKEG P  
0037 768517 2015-04-01 MUSKEG Q

0037 772101 2008-06-01 KEG RIVER A

**POOL DESIGNATION (cont'd)**

0037 772102 2008-06-01	KEG RIVER B
0037 772103 2008-06-01	KEG RIVER C
0037 772104 2008-06-01	KEG RIVER D
0037 772105 2008-06-01	KEG RIVER E
0037 772106 2010-04-01	KEG RIVER F
0037 772107 2008-06-01	KEG RIVER G
0037 772108 2008-06-01	KEG RIVER H
0037 772109 2008-06-01	KEG RIVER I
0037 772110 2008-06-01	KEG RIVER J
0037 772111 2008-06-01	KEG RIVER K
0037 772112 2008-06-01	KEG RIVER L
0037 772113 2008-06-01	KEG RIVER M
0037 772114 2008-06-01	KEG RIVER N
0037 772115 2008-06-01	KEG RIVER O
0037 772116 2008-06-01	KEG RIVER P
0037 772117 2008-06-01	KEG RIVER Q
0037 772118 2008-06-01	KEG RIVER R
0037 772119 2008-06-01	KEG RIVER S
0037 772120 2008-06-01	KEG RIVER T
0037 772121 2008-06-01	KEG RIVER U
0037 772122 2008-06-01	KEG RIVER V
0037 772123 2008-06-01	KEG RIVER W
0037 772124 2008-06-01	KEG RIVER X
0037 772125 2008-06-01	KEG RIVER Y
0037 772126 2008-06-01	KEG RIVER Z
0037 772127 2008-08-01	KEG RIVER AA
0037 772128 2013-05-01	KEG RIVER BB

**SPACING PATTERN**

SU 2201	7 Jul 1995
SU 2201A	21 Sep 2005
SU 2201B	19 Apr 2007

**MISCELLANEOUS ORDERS**

MISC 8914	6 Jun 1989
MISC 8914A	14 Jun 1989
Abandonment of wells	

**COMMINGLED PRODUCTION**

MU 4556	15 Aug 2005
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**FIELD DESIGNATION**

0057 2005-08-01 ANATOLE FIELD

**POOL DESIGNATION**

0057 126001 2005-08-01 BELLY RIVER A

0057 126002 2010-03-01 BELLY RIVER B

0057 218001 2001-02-01 VIKING A

0057 218002 2010-03-01 VIKING B

0057 646001 2003-03-01 BAKKEN A

0057 646002 2005-07-01 BAKKEN B

0057 646003 2005-02-01 BAKKEN C

0057 646004 2007-05-01 BAKKEN D

**FIELD DESIGNATION**

1337 2009-04-01            ANDERSON FIELD

**POOL DESIGNATION**

1337 166001 2012-08-01    BADHEART A

1337 176002 2001-02-01    CARDIUM B

1337 176003 2001-02-01    CARDIUM C

1337 176004 2001-02-01    CARDIUM D

1337 176005 2001-03-01    CARDIUM E

1337 176006 2001-03-01    CARDIUM F

1337 176007 2006-07-01    CARDIUM G

1337 176008 2010-04-01    CARDIUM H

1337 176009 2001-04-01    CARDIUM I

1337 176010 2007-06-01    CARDIUM J

1337 176011 2012-03-01    CARDIUM K

1337 176013 2012-12-01    CARDIUM M

1337 218001 2010-04-01    VIKING A

1337 218002 2010-04-01    VIKING B

1337 218003 2010-04-01    VIKING C

1337 232001 2010-01-01    CADOTTE A

1337 248001 2012-04-01    MANNVILLE A

1337 250001 2010-04-01    UPPER MANNVILLE A

1337 310001 2011-05-01    LOWER MANNVILLE A

1337 310002 2012-01-01    LOWER MANNVILLE B

**SPACING PATTERN**

SU 2769            15 May 1996

SU 2769A          9 Jan 1998

**FIELD DESIGNATION**

0064 2002-04-01 ANKERTON FIELD

**POOL DESIGNATION**

0064 126001 2001-02-01 BELLY RIVER A

0064 250001 2013-04-01 UPPER MANNVILLE A  
0064 250002 2005-07-01 UPPER MANNVILLE B

0064 300001 2004-01-01 GLAUCONITIC A  
0064 300002 2001-04-01 GLAUCONITIC B  
0064 300003 2012-08-01 GLAUCONITIC C

0064 336001 2001-03-01 ELLERSLIE A

**SPACING PATTERN**

SU 4111 5 Sep 2003

**FIELD DESIGNATION**

0058 2017-08-01 ANSELL FIELD

**POOL DESIGNATION**

0058 126001 2001-09-01 BELLY RIVER A  
0058 126002 2002-02-01 BELLY RIVER B  
0058 126003 2010-12-01 BELLY RIVER C  
0058 126004 2003-07-01 BELLY RIVER D  
0058 126005 2004-10-01 BELLY RIVER E  
0058 126006 2014-01-01 BELLY RIVER F  
0058 126007 2004-10-01 BELLY RIVER G  
0058 126008 2011-12-01 BELLY RIVER H  
0058 126011 2010-04-01 BELLY RIVER K  
0058 126012 2005-10-01 BELLY RIVER L  
0058 126013 2005-12-01 BELLY RIVER M  
0058 126014 2010-04-01 BELLY RIVER N  
0058 126015 2006-04-01 BELLY RIVER O  
0058 126016 2013-09-01 BELLY RIVER P  
0058 126017 2010-04-01 BELLY RIVER Q  
0058 126018 2006-12-01 BELLY RIVER R  
0058 126019 2012-03-01 BELLY RIVER S  
0058 126020 2017-07-01 BELLY RIVER T

0058 134001 2005-11-01 BASAL BELLY RIVER A

0058 176017 2014-03-01 CARDIUM Q  
0058 176018 2005-03-01 CARDIUM R  
0058 176026 2006-08-01 CARDIUM Z  
0058 176032 2011-04-01 CARDIUM FF  
0058 176039 2007-05-01 CARDIUM MM  
0058 176306 2012-05-01 CARDIUM FFF  
0058 176307 2012-12-01 CARDIUM GGG  
0058 176309 2014-03-01 CARDIUM III

0058 218001 2012-12-01 VIKING A  
0058 218002 2012-11-01 VIKING B

**POOL DESIGNATION (cont'd)**

0058 218003 2001-02-01	VIKING C
0058 218004 2011-02-01	VIKING D
0058 218006 2004-08-01	VIKING F
0058 218007 2010-04-01	VIKING G
0058 218008 2010-04-01	VIKING H
0058 218011 2012-04-01	VIKING K
0058 218015 2011-03-01	VIKING O
0058 218019 2012-05-01	VIKING S
0058 218020 2011-03-01	VIKING T
0058 218022 2014-03-01	VIKING V
0058 228001 2010-04-01	PEACE RIVER A
0058 228002 2011-12-01	PEACE RIVER B
0058 250002 2010-04-01	UPPER MANNVILLE B
0058 250003 2010-04-01	UPPER MANNVILLE C
0058 250006 2015-10-01	UPPER MANNVILLE F
0058 250007 2007-06-01	UPPER MANNVILLE G
0058 250011 2011-05-01	UPPER MANNVILLE K
0058 250017 2016-02-01	UPPER MANNVILLE Q
0058 250019 2010-04-01	UPPER MANNVILLE S
0058 250022 2012-03-01	UPPER MANNVILLE V
0058 250025 2010-04-01	UPPER MANNVILLE Y
0058 250027 2016-12-01	UPPER MANNVILLE AA
0058 250036 2010-01-01	UPPER MANNVILLE JJ
0058 250037 2012-05-01	UPPER MANNVILLE KK
0058 250039 2011-12-01	UPPER MANNVILLE MM
0058 250041 2012-08-01	UPPER MANNVILLE OO
0058 250042 2014-03-01	UPPER MANNVILLE PP
0058 250044 2013-01-01	UPPER MANNVILLE RR
0058 250045 2013-11-01	UPPER MANNVILLE SS
0058 250047 2013-07-01	UPPER MANNVILLE UU
0058 250048 2016-10-01	UPPER MANNVILLE VV
0058 250050 2014-02-01	UPPER MANNVILLE XX
0058 250052 2016-06-01	UPPER MANNVILLE ZZ
0058 250701 2015-10-01	UPPER MANNVILLE AAA
0058 250702 2015-10-01	UPPER MANNVILLE BBB
0058 250703 2014-08-01	UPPER MANNVILLE CCC

**POOL DESIGNATION (cont'd)**

0058 250705 2014-03-01	UPPER MANNVILLE EEE
0058 250707 2014-05-01	UPPER MANNVILLE GGG
0058 250708 2014-11-01	UPPER MANNVILLE HHH
0058 250710 2015-10-01	UPPER MANNVILLE JJJ
0058 250711 2015-10-01	UPPER MANNVILLE KKK
0058 250712 2015-12-01	UPPER MANNVILLE LLL
0058 250713 2015-12-01	UPPER MANNVILLE MMM
0058 250714 2015-12-01	UPPER MANNVILLE NNN
0058 250715 2016-12-01	UPPER MANNVILLE OOO
0058 266001 2012-12-01	NOTIKEWIN A
0058 266004 2010-04-01	NOTIKEWIN D
0058 266006 2010-04-01	NOTIKEWIN F
0058 266011 2010-04-01	NOTIKEWIN K
0058 271502 2010-04-01	FALHER B
0058 304002 2001-02-01	BLUESKY B
0058 304003 2005-03-01	BLUESKY C
0058 304006 2010-04-01	BLUESKY F
0058 304007 2005-10-01	BLUESKY G
0058 304010 2012-04-01	BLUESKY J
0058 304014 2010-04-01	BLUESKY N
0058 304017 2011-11-01	BLUESKY Q
0058 304022 2007-12-01	BLUESKY V
0058 304028 2010-04-01	BLUESKY BB
0058 304031 2010-04-01	BLUESKY EE
0058 304032 2012-05-01	BLUESKY FF
0058 304033 2016-06-01	BLUESKY GG
0058 304034 2012-08-01	BLUESKY HH
0058 304035 2014-03-01	BLUESKY II
0058 326003 2003-05-01	GETHING C
0058 326006 2010-04-01	GETHING F
0058 326007 2010-12-01	GETHING G
0058 326008 2010-04-01	GETHING H
0058 326009 2010-04-01	GETHING I
0058 326010 2010-04-01	GETHING J



**POOL DESIGNATION (cont'd)**

0058 326011 2011-02-01	GETHING K
0058 326013 2007-02-01	GETHING M
0058 326014 2010-04-01	GETHING N
0058 326015 2012-04-01	GETHING O
0058 326016 2007-12-01	GETHING P
0058 326017 2010-04-01	GETHING Q
0058 326018 2007-12-01	GETHING R
0058 326019 2010-08-01	GETHING S
0058 326020 2011-04-01	GETHING T
0058 326021 2011-05-01	GETHING U
0058 326022 2011-04-01	GETHING V
0058 326024 2008-09-01	GETHING X
0058 326026 2008-10-01	GETHING Z
0058 326029 2009-03-01	GETHING CC
0058 326030 2011-04-01	GETHING DD
0058 326033 2010-04-01	GETHING GG
0058 326034 2010-03-01	GETHING HH
0058 326035 2012-05-01	GETHING II
0058 326037 2012-04-01	GETHING KK
0058 326038 2012-04-01	GETHING LL
0058 326039 2016-06-01	GETHING MM
0058 326040 2012-08-01	GETHING NN
0058 326041 2012-10-01	GETHING OO
0058 326042 2014-03-01	GETHING PP
0058 326043 2014-07-01	GETHING QQ
0058 326044 2015-04-01	GETHING RR
0058 348001 2012-04-01	CADOMIN A
0058 348002 2012-04-01	CADOMIN B
0058 348004 2001-02-01	CADOMIN D
0058 348005 2001-02-01	CADOMIN E
0058 348006 2001-06-01	CADOMIN F
0058 348007 2011-07-01	CADOMIN G
0058 348009 2011-11-01	CADOMIN I
0058 348010 2005-03-01	CADOMIN J
0058 348011 2005-02-01	CADOMIN K
0058 348013 2012-11-01	CADOMIN M
0058 348018 2010-04-01	CADOMIN R

**POOL DESIGNATION (cont'd)**

0058 348020 2010-04-01	CADOMIN T
0058 348026 2012-04-01	CADOMIN Z
0058 348030 2006-02-01	CADOMIN DD
0058 348032 2014-03-01	CADOMIN FF
0058 348034 2011-11-01	CADOMIN HH
0058 348036 2011-11-01	CADOMIN JJ
0058 348037 2014-03-01	CADOMIN KK
0058 348040 2010-04-01	CADOMIN NN
0058 348043 2007-12-01	CADOMIN QQ
0058 348048 2011-05-01	CADOMIN VV
0058 348703 2010-04-01	CADOMIN CCC
0058 348711 2010-04-01	CADOMIN KKK
0058 348714 2009-11-01	CADOMIN NNN
0058 348715 2011-12-01	CADOMIN OOO
0058 348716 2011-11-01	CADOMIN PPP
0058 348720 2010-08-01	CADOMIN TTT
0058 348721 2012-05-01	CADOMIN UUU
0058 348722 2014-02-01	CADOMIN VVV
0058 348723 2012-08-01	CADOMIN WWW
0058 348724 2014-03-01	CADOMIN XXX
0058 348725 2015-04-01	CADOMIN YYY
0058 432001 2012-10-01	ROCK CREEK A
0058 432002 2014-03-01	ROCK CREEK B
0058 432003 2014-04-01	ROCK CREEK C
0058 444001 2009-11-01	NORDEGG A
0058 500001 2010-04-01	TRIASSIC A
0058 720001 2009-12-01	LEDUC A
0058 860200 2017-08-01	MFP8602 CARDIUM

**SPACING PATTERN**

SU 4241	2 Dec 2004
SU 4241A	15 Apr 2005
SU 4241B	19 Aug 2005
SU 4241C	29 Aug 2005
SU 4241D	12 Dec 2005
SU 4241E	16 Jan 2006
SU 4241F	6 Feb 2006
SU 4241G	11 Jul 2006
SU 4241H	10 Oct 2006
SU 4241I	1 Mar 2007
SU 4241J	11 Apr 2007
SU 4241K	15 May 2007
SU 4241L	25 May 2007
SU 4241M	11 Jul 2007
SU 4241N	21 Sep 2007
SU 4241O	15 Oct 2007

**COMMINGLED PRODUCTION**

MU 8818	12 Jul 2017
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**EXPERIMENTAL SCHEMES**

App 5440	2 Sep 1987
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Canadian Hunter Exploration Ltd.

**FIELD DESIGNATION**

0056 2014-11-01 ANTE CREEK NORTH FIELD

**POOL DESIGNATION**

0056 176001 2009-10-01 CARDIUM A  
0056 176002 2014-11-01 CARDIUM B

0056 192001 2017-05-01 DUNVEGAN A  
0056 192002 2014-11-01 DUNVEGAN B  
0056 192003 2014-11-01 DUNVEGAN C  
0056 192004 2014-11-01 DUNVEGAN D  
0056 192005 2014-11-01 DUNVEGAN E  
0056 192006 2014-11-01 DUNVEGAN F  
0056 192007 2014-11-01 DUNVEGAN G  
0056 192008 2014-11-01 DUNVEGAN H

0056 218001 2014-11-01 VIKING A

0056 228001 2001-02-01 PEACE RIVER A  
0056 228002 2005-06-01 PEACE RIVER B  
0056 228003 2010-04-01 PEACE RIVER C  
0056 228005 2001-02-01 PEACE RIVER E  
0056 228006 2004-07-01 PEACE RIVER F  
0056 228007 2005-06-01 PEACE RIVER G  
0056 228008 2005-06-01 PEACE RIVER H  
0056 228009 2014-11-01 PEACE RIVER I  
0056 228010 2014-11-01 PEACE RIVER J  
0056 228011 2014-11-01 PEACE RIVER K  
0056 228012 2014-11-01 PEACE RIVER L

0056 264001 2001-02-01 SPIRIT RIVER A

0056 304001 2001-02-01 BLUESKY A

0056 326001 2001-02-01 GETHING A  
0056 326002 2001-02-01 GETHING B

**POOL DESIGNATION (cont'd)**

0056 326003 2001-03-01	GETHING C
0056 326004 2009-03-01	GETHING D
0056 326005 2002-02-01	GETHING E
0056 326006 2005-02-01	GETHING F
0056 326007 2006-07-01	GETHING G
0056 326008 2007-06-01	GETHING H
0056 326009 2008-12-01	GETHING I
0056 326010 2014-11-01	GETHING J
0056 326011 2014-11-01	GETHING K
0056 326012 2014-11-01	GETHING L
0056 326013 2014-11-01	GETHING M
0056 348001 2001-02-01	CADOMIN A
0056 348002 2004-06-01	CADOMIN B
0056 348003 2005-03-01	CADOMIN C
0056 444001 2010-10-01	NORDEGG A
0056 444002 2014-11-01	NORDEGG B
0056 444003 2014-11-01	NORDEGG C
0056 444004 2014-11-01	NORDEGG D
0056 500001 2013-08-01	TRIASSIC A
0056 500002 2010-04-01	TRIASSIC B
0056 500003 2013-02-01	TRIASSIC C
0056 500005 2017-04-01	TRIASSIC E
0056 500006 2010-04-01	TRIASSIC F
0056 500008 2001-02-01	TRIASSIC H
0056 500009 2001-02-01	TRIASSIC I
0056 500010 2001-02-01	TRIASSIC J
0056 500011 2002-02-01	TRIASSIC K
0056 500012 2001-11-01	TRIASSIC L
0056 500015 2011-06-01	TRIASSIC O
0056 500016 2014-01-01	TRIASSIC P
0056 524001 2017-04-01	MONTNEY A
0056 524004 2005-02-01	MONTNEY D
0056 524005 2012-09-01	MONTNEY E
0056 524006 2014-12-01	MONTNEY F

**POOL DESIGNATION (cont'd)**

0056 524007 2014-04-01	MONTNEY G
0056 524008 2014-02-01	MONTNEY H
0056 524009 2015-01-01	MONTNEY I
0056 524010 2015-01-01	MONTNEY J
0056 524011 2017-07-01	MONTNEY K
0056 524012 2014-11-01	MONTNEY L
0056 524013 2016-12-01	MONTNEY M
0056 524014 2014-11-01	MONTNEY N
0056 524015 2014-11-01	MONTNEY O
0056 524016 2014-11-01	MONTNEY P
0056 524017 2014-11-01	MONTNEY Q
0056 524018 2014-11-01	MONTNEY R
0056 524019 2014-11-01	MONTNEY S
0056 524020 2014-11-01	MONTNEY T
0056 524021 2014-11-01	MONTNEY U
0056 524022 2015-05-01	MONTNEY V
0056 524023 2015-05-01	MONTNEY W
0056 524024 2015-12-01	MONTNEY X
0056 524025 2016-05-01	MONTNEY Y
0056 524026 2016-05-01	MONTNEY Z
0056 556001 2013-04-01	BELLOY A
0056 658001 2001-02-01	WABAMUN A
0056 704001 2008-11-01	WOODBEND A
0056 732001 2013-05-01	COOKING LAKE A
0056 744001 2014-11-01	BEAVERHILL LAKE A
0056 744002 2014-11-01	BEAVERHILL LAKE B

**SPACING PATTERN**

SU 2506      8 Jan 1996  
SU 2506A    25 Aug 1997  
SU 2506B    18 Nov 1997  
SU 2506C    10 Nov 1998  
SU 2506D    24 Aug 2005  
SU 2506E    25 Sep 2007

**COMMINGLED PRODUCTION**

MU 8814      14 Jul 2017

**ENHANCED RECOVERY SCHEMES**

App 8559G    20 Jun 2014  
Waterflood  
Triassic E  
ARC Resources Ltd.

App 12487C   19 Jun 2017  
Waterflood  
Triassic E  
Enerplus Corporation

**SUBSURFACE DISPOSAL SCHEMES**

App 9586B    17 Feb 2015  
Class II  
Canadian Natural Resources Limited

App 12189B   23 Dec 2016  
Class II  
Enerplus Corporation

App 12616A   17 Jul 2017  
Class II  
ARC Resources Ltd.

**FIELD DESIGNATION**

0060 2014-03-01 ANTELOPE FIELD

**POOL DESIGNATION**

0060 126001 2010-07-01 BELLY RIVER A

0060 218001 2010-04-01 VIKING A

0060 218002 2001-02-01 VIKING B

0060 218003 2008-04-01 VIKING C

0060 218004 2012-07-01 VIKING D

0060 218005 2005-08-01 VIKING E

0060 218006 2006-03-01 VIKING F

0060 218007 2012-08-01 VIKING G

0060 218008 2010-05-01 VIKING H

0060 218009 2012-10-01 VIKING I

0060 218010 2017-05-01 VIKING J

0060 250001 2001-02-01 UPPER MANNVILLE A

0060 250002 2009-01-01 UPPER MANNVILLE B

0060 250003 2010-04-01 UPPER MANNVILLE C

0060 250004 2011-10-01 UPPER MANNVILLE D

0060 256001 2006-01-01 COLONY A

0060 256002 2010-06-01 COLONY B

0060 256003 2001-02-01 COLONY C

0060 256004 2001-02-01 COLONY D

0060 256005 2003-07-01 COLONY E

0060 350001 2001-02-01 DETRITAL A

0060 350002 2001-02-01 DETRITAL B

0060 350003 2001-02-01 DETRITAL C

0060 350004 2007-06-01 DETRITAL D

0060 350005 2008-07-01 DETRITAL E

0060 350006 2010-04-01 DETRITAL F

0060 350007 2014-06-01 DETRITAL G



**POOL DESIGNATION (cont'd)**

0060 644001 2010-04-01	BANFF A
0060 644004 2001-02-01	BANFF D
0060 644005 2001-02-01	BANFF E
0060 644006 2001-02-01	BANFF F
0060 644007 2007-05-01	BANFF G
0060 646001 2001-02-01	BAKKEN A
0060 646002 2001-11-01	BAKKEN B
0060 646003 2001-12-01	BAKKEN C
0060 646004 2002-10-01	BAKKEN D
0060 646005 2002-10-01	BAKKEN E
0060 646006 2008-12-01	BAKKEN F
0060 646007 2002-11-01	BAKKEN G
0060 646008 2003-06-01	BAKKEN H
0060 646009 2003-09-01	BAKKEN I
0060 646011 2004-02-01	BAKKEN K
0060 646012 2005-01-01	BAKKEN L
0060 646013 2009-02-01	BAKKEN M

**FIELD DESIGNATION**

0015 2012-08-01 ANTHONY FIELD

**POOL DESIGNATION**

0015 230001 2009-04-01 PADDY A

0015 232002 2009-09-01 CADOTTE B

0015 500001 2009-04-01 TRIASSIC A

0015 500002 2013-03-01 TRIASSIC B

0015 500003 2017-08-01 TRIASSIC C

**FIELD DESIGNATION**

0016 2002-02-01            ANTLER FIELD

**POOL DESIGNATION**

0016 176001 2001-03-01    CARDIUM A  
0016 176002 2001-03-01    CARDIUM B  
0016 176003 2001-03-01    CARDIUM C  
0016 176004 2001-10-01    CARDIUM D  
0016 176005 2002-03-01    CARDIUM E  
0016 176006 2002-03-01    CARDIUM F

0016 244001 2011-07-01    BLAIRMORE A

**SPACING PATTERN**

SU 2764            15 May 1996

**FIELD DESIGNATION**

0062 2009-11-01            ARMADA FIELD

**POOL DESIGNATION**

0062 126001 2001-09-01    BELLY RIVER A  
0062 126010 2014-09-01    BELLY RIVER J

0062 158004 2005-11-01    MILK RIVER D  
0062 158005 2009-06-01    MILK RIVER E

0062 162003 2011-01-01    FIRST WHITE SPECKS C

0062 213001 2002-10-01    BOW ISLAND A  
0062 213002 2014-01-01    BOW ISLAND B  
0062 213003 2001-02-01    BOW ISLAND C  
0062 213004 2006-06-01    BOW ISLAND D  
0062 213006 2001-02-01    BOW ISLAND F  
0062 213007 2001-02-01    BOW ISLAND G  
0062 213008 2001-02-01    BOW ISLAND H  
0062 213009 2001-02-01    BOW ISLAND I  
0062 213010 2008-11-01    BOW ISLAND J  
0062 213011 2001-02-01    BOW ISLAND K  
0062 213012 2001-02-01    BOW ISLAND L  
0062 213014 2005-01-01    BOW ISLAND N  
0062 213015 2001-02-01    BOW ISLAND O  
0062 213016 2001-02-01    BOW ISLAND P  
0062 213017 2001-06-01    BOW ISLAND Q  
0062 213018 2002-01-01    BOW ISLAND R  
0062 213019 2004-05-01    BOW ISLAND S  
0062 213020 2006-05-01    BOW ISLAND T  
0062 213021 2006-07-01    BOW ISLAND U  
0062 213022 2006-07-01    BOW ISLAND V  
0062 213023 2010-04-01    BOW ISLAND W  
0062 213024 2009-01-01    BOW ISLAND X  
0062 213025 2009-08-01    BOW ISLAND Y  
0062 213026 2009-08-01    BOW ISLAND Z

**POOL DESIGNATION (cont'd)**

0062 213027 2010-01-01	BOW ISLAND AA
0062 213028 2010-04-01	BOW ISLAND BB
0062 213029 2010-04-01	BOW ISLAND CC
0062 213030 2011-05-01	BOW ISLAND DD
0062 242001 2005-02-01	BASAL COLORADO A
0062 250001 2010-12-01	UPPER MANNVILLE A
0062 250003 2010-05-01	UPPER MANNVILLE C
0062 250004 2001-02-01	UPPER MANNVILLE D
0062 250005 2001-02-01	UPPER MANNVILLE E
0062 250006 2001-02-01	UPPER MANNVILLE F
0062 250007 2001-02-01	UPPER MANNVILLE G
0062 250008 2017-02-01	UPPER MANNVILLE H
0062 250009 2001-02-01	UPPER MANNVILLE I
0062 250010 2001-02-01	UPPER MANNVILLE J
0062 250011 2001-02-01	UPPER MANNVILLE K
0062 250012 2001-02-01	UPPER MANNVILLE L
0062 250013 2001-02-01	UPPER MANNVILLE M
0062 250014 2006-05-01	UPPER MANNVILLE N
0062 250015 2001-02-01	UPPER MANNVILLE O
0062 250016 2001-08-01	UPPER MANNVILLE P
0062 250017 2001-03-01	UPPER MANNVILLE Q
0062 250018 2009-05-01	UPPER MANNVILLE R
0062 250019 2014-11-01	UPPER MANNVILLE S
0062 250020 2002-06-01	UPPER MANNVILLE T
0062 250021 2003-02-01	UPPER MANNVILLE U
0062 250022 2003-07-01	UPPER MANNVILLE V
0062 250023 2010-04-01	UPPER MANNVILLE W
0062 250024 2005-07-01	UPPER MANNVILLE X
0062 250025 2007-06-01	UPPER MANNVILLE Y
0062 250027 2007-12-01	UPPER MANNVILLE AA
0062 250028 2008-02-01	UPPER MANNVILLE BB
0062 250031 2010-04-01	UPPER MANNVILLE EE
0062 250032 2010-02-01	UPPER MANNVILLE FF
0062 250033 2010-03-01	UPPER MANNVILLE GG
0062 250034 2010-06-01	UPPER MANNVILLE HH
0062 250035 2011-09-01	UPPER MANNVILLE II

**POOL DESIGNATION (cont'd)**

0062 250036 2012-08-01	UPPER MANNVILLE JJ
0062 250037 2014-02-01	UPPER MANNVILLE KK
0062 250038 2015-08-01	UPPER MANNVILLE LL
0062 334001 2001-02-01	BASAL QUARTZ A
0062 334003 2001-02-01	BASAL QUARTZ C
0062 334004 2001-07-01	BASAL QUARTZ D
0062 334005 2001-02-01	BASAL QUARTZ E
0062 334006 2001-02-01	BASAL QUARTZ F
0062 334007 2001-02-01	BASAL QUARTZ G
0062 334008 2001-02-01	BASAL QUARTZ H
0062 334009 2001-02-01	BASAL QUARTZ I
0062 334010 2001-02-01	BASAL QUARTZ J
0062 334011 2010-04-01	BASAL QUARTZ K
0062 334012 2010-04-01	BASAL QUARTZ L
0062 334013 2007-03-01	BASAL QUARTZ M
0062 334014 2007-03-01	BASAL QUARTZ N
0062 334015 2007-07-01	BASAL QUARTZ O
0062 334016 2011-09-01	BASAL QUARTZ P
0062 334017 2011-08-01	BASAL QUARTZ Q
0062 336001 2009-08-01	ELLERSLIE A
0062 628001 2008-11-01	LIVINGSTONE A
0062 850100 2010-12-01	MFP8501 MILK RIVER
0062 850200 2011-02-01	MFP8502 MED HAT
0062 854300 2011-04-01	MFP8543 BSL BELLY RIV

**SPACING PATTERN**

**COMMINGLED PRODUCTION**

SU 4123	23 Oct 2003
SU 4123A	31 Mar 2004
SU 4123B	10 Jun 2004
SU 4123C	24 Mar 2006

MU 7559	5 Oct 2010
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**ENHANCED RECOVERY SCHEMES**

App 9916A 6 Feb 2015  
Waterflood  
Upper Mannville A  
Sphere Energy Corporation

**FIELD DESIGNATION**

0070 2008-10-01            ARMISIE FIELD

**POOL DESIGNATION**

0070 218001 2008-10-01    VIKING A

0070 244000 2010-04-01    BLAIRMORE

0070 250001 2001-03-01    UPPER MANNVILLE A

**SPACING PATTERN**

SU 2205            7 Jul 1995

**ENHANCED RECOVERY SCHEMES**

App 12447A    13 Sep 2016  
Waterflood  
Blairmore  
Penn West Petroleum Ltd.

**SUBSURFACE DISPOSAL SCHEMES**

App 7526A    18 Oct 2011  
Class II  
Penn West Petroleum Ltd.



**FIELD DESIGNATION**

0068 2010-09-01            ARMITAGE FIELD

**POOL DESIGNATION**

0068 262001 2012-04-01    GRAND RAPIDS A  
0068 262003 2012-05-01    GRAND RAPIDS C  
0068 262004 2008-01-01    GRAND RAPIDS D

0068 328001 2013-08-01    MCMURRAY A  
0068 328002 2013-07-01    MCMURRAY B  
0068 328003 2001-02-01    MCMURRAY C  
0068 328004 2013-08-01    MCMURRAY D  
0068 328005 2008-06-01    MCMURRAY E  
0068 328011 2001-03-01    MCMURRAY K  
0068 328012 2013-07-01    MCMURRAY L  
0068 328013 2013-07-01    MCMURRAY M  
0068 328014 2013-07-01    MCMURRAY N  
0068 328015 2008-06-01    MCMURRAY O  
0068 328016 2003-12-01    MCMURRAY P  
0068 328017 2003-12-01    MCMURRAY Q  
0068 328020 2004-09-01    MCMURRAY T  
0068 328021 2013-07-01    MCMURRAY U

**COMMINGLED PRODUCTION**

MU 4915            18 Nov 2005

**FIELD DESIGNATION**

0063 2001-02-01 ARNESON FIELD

**POOL DESIGNATION**

0063 218001 2001-04-01 VIKING A

0063 250001 2007-11-01 UPPER MANNVILLE A

0063 250002 2010-04-01 UPPER MANNVILLE B

0063 250003 2014-02-01 UPPER MANNVILLE C

0063 300001 2001-02-01 GLAUCONITIC A

0063 310001 2001-02-01 LOWER MANNVILLE A

0063 310002 2001-02-01 LOWER MANNVILLE B

0063 310003 2008-03-01 LOWER MANNVILLE C

0063 310004 2007-04-01 LOWER MANNVILLE D

0063 310005 2007-04-01 LOWER MANNVILLE E

0063 310006 2010-04-01 LOWER MANNVILLE F

0063 310007 2010-04-01 LOWER MANNVILLE G

0063 310008 2008-01-01 LOWER MANNVILLE H

0063 310009 2008-03-01 LOWER MANNVILLE I

0063 310010 2008-03-01 LOWER MANNVILLE J

0063 644001 2001-02-01 BANFF A

**COMMINGLED PRODUCTION**

MU 3174 31 Oct 2003

**FIELD DESIGNATION**

0069 2015-01-01           ARTLAND FIELD

**POOL DESIGNATION**

0069 202002 2014-09-01   FISH SCALE B  
0069 202003 2014-09-01   FISH SCALE C  
0069 202004 2015-01-01   FISH SCALE D

0069 211001 2004-03-01   LOWER COLORADO A  
0069 211002 2010-04-01   LOWER COLORADO B  
0069 211003 2010-04-01   LOWER COLORADO C  
0069 211004 2013-06-01   LOWER COLORADO D  
0069 211007 2015-01-01   LOWER COLORADO G  
0069 211009 2014-10-01   LOWER COLORADO I  
0069 211010 2014-10-01   LOWER COLORADO J

0069 218001 2013-07-01   VIKING A  
0069 218002 2004-11-01   VIKING B  
0069 218004 2008-09-01   VIKING D  
0069 218005 2010-09-01   VIKING E  
0069 218006 2013-06-01   VIKING F  
0069 218007 2014-09-01   VIKING G  
0069 218008 2014-09-01   VIKING H  
0069 218009 2014-09-01   VIKING I  
0069 218010 2015-01-01   VIKING J

0069 256001 2004-12-01   COLONY A

**SPACING PATTERN**

SU 4154           26 Feb 2004  
SU 4154A          28 Jul 2005  
SU 4154B          27 Mar 2006

**COMMINGLED PRODUCTION**

MU 8718          31 Mar 2015

**FIELD DESIGNATION**

0071 2009-11-01 ARVILLA FIELD

**POOL DESIGNATION**

0071 126001 2001-02-01 BELLY RIVER A  
0071 126002 2001-02-01 BELLY RIVER B  
0071 126003 2001-02-01 BELLY RIVER C  
0071 126004 2010-04-01 BELLY RIVER D

0071 218001 2010-04-01 VIKING A

0071 250001 2001-02-01 UPPER MANNVILLE A  
0071 250002 2001-02-01 UPPER MANNVILLE B  
0071 250003 2001-02-01 UPPER MANNVILLE C  
0071 250004 2011-02-01 UPPER MANNVILLE D  
0071 250005 2001-02-01 UPPER MANNVILLE E  
0071 250006 2006-10-01 UPPER MANNVILLE F

0071 336001 2001-02-01 ELLERSLIE A  
0071 336003 2001-02-01 ELLERSLIE C  
0071 336004 2001-02-01 ELLERSLIE D  
0071 336005 2002-10-01 ELLERSLIE E

0071 658001 2001-02-01 WABAMUN A  
0071 658002 2010-04-01 WABAMUN B  
0071 658003 2008-02-01 WABAMUN C

**SPACING PATTERN**

SU 2545 6 Feb 1996

**COMMINGLED PRODUCTION**

MU 6841 23 Apr 2008

**FIELD DESIGNATION**

0072 2010-04-01                      ASHMONT FIELD

**POOL DESIGNATION**

0072 218001 2001-03-01            VIKING A  
0072 218002 2001-03-01            VIKING B  
0072 218003 2001-03-01            VIKING C  
0072 218004 2002-11-01            VIKING D  
0072 218005 2005-03-01            VIKING E  
0072 218006 2009-02-01            VIKING F  
0072 218007 2009-05-01            VIKING G  
0072 218008 2009-10-01            VIKING H  
0072 218009 2010-08-01            VIKING I  
0072 218010 2010-08-01            VIKING J  
0072 218011 2010-08-01            VIKING K  
0072 218012 2011-01-01            VIKING L  
0072 218013 2010-08-01            VIKING M  
0072 218014 2011-05-01            VIKING N  
0072 218015 2011-06-01            VIKING O  
0072 218016 2011-06-01            VIKING P  
0072 218017 2011-07-01            VIKING Q  
0072 218018 2011-07-01            VIKING R

0072 250001 2001-02-01            UPPER MANNVILLE A  
0072 250002 2010-04-01            UPPER MANNVILLE B  
0072 250003 2010-04-01            UPPER MANNVILLE C  
0072 250004 2001-02-01            UPPER MANNVILLE D  
0072 250005 2001-02-01            UPPER MANNVILLE E  
0072 250006 2001-02-01            UPPER MANNVILLE F  
0072 250007 2001-02-01            UPPER MANNVILLE G  
0072 250008 2010-04-01            UPPER MANNVILLE H  
0072 250009 2004-06-01            UPPER MANNVILLE I  
0072 250010 2001-02-01            UPPER MANNVILLE J  
0072 250011 2001-02-01            UPPER MANNVILLE K  
0072 250012 2006-01-01            UPPER MANNVILLE L  
0072 250013 2001-02-01            UPPER MANNVILLE M

**POOL DESIGNATION (cont'd)**

0072 250014	2001-02-01	UPPER MANNVILLE N
0072 250015	2001-02-01	UPPER MANNVILLE O
0072 250018	2010-04-01	UPPER MANNVILLE R
0072 250019	2010-12-01	UPPER MANNVILLE S
0072 250020	2001-02-01	UPPER MANNVILLE T
0072 250021	2001-02-01	UPPER MANNVILLE U
0072 250022	2001-02-01	UPPER MANNVILLE V
0072 250023	2010-04-01	UPPER MANNVILLE W
0072 250024	2001-02-01	UPPER MANNVILLE X
0072 250025	2001-02-01	UPPER MANNVILLE Y
0072 250026	2001-02-01	UPPER MANNVILLE Z
0072 250027	2001-02-01	UPPER MANNVILLE AA
0072 250028	2001-02-01	UPPER MANNVILLE BB
0072 250029	2001-02-01	UPPER MANNVILLE CC
0072 250030	2001-03-01	UPPER MANNVILLE DD
0072 250031	2001-03-01	UPPER MANNVILLE EE
0072 250032	2001-12-01	UPPER MANNVILLE FF
0072 250033	2003-06-01	UPPER MANNVILLE GG
0072 250034	2002-11-01	UPPER MANNVILLE HH
0072 250035	2003-05-01	UPPER MANNVILLE II
0072 250036	2004-11-01	UPPER MANNVILLE JJ
0072 250037	2006-01-01	UPPER MANNVILLE KK
0072 250038	2006-02-01	UPPER MANNVILLE LL
0072 250039	2010-04-01	UPPER MANNVILLE MM
0072 250040	2010-04-01	UPPER MANNVILLE NN
0072 250041	2007-06-01	UPPER MANNVILLE OO
0072 250042	2007-06-01	UPPER MANNVILLE PP
0072 250043	2008-04-01	UPPER MANNVILLE QQ
0072 250044	2009-05-01	UPPER MANNVILLE RR
0072 250045	2010-05-01	UPPER MANNVILLE SS
0072 310001	2001-02-01	LOWER MANNVILLE A

**SPACING PATTERN**

SU 2546	6 Feb 1996
SU 2546A	25 Apr 2006
SU 2546B	3 Oct 2006

**COMMINGLED PRODUCTION**

MU 5444	4 Apr 2006
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**FIELD DESIGNATION**

0073 2008-10-01                   ASTOTIN FIELD

**POOL DESIGNATION**

0073 218002 2001-02-01       VIKING B  
0073 218004 2010-04-01       VIKING D  
0073 218005 2001-02-01       VIKING E  
0073 218006 2010-04-01       VIKING F  
0073 218007 2001-02-01       VIKING G  
0073 218008 2001-02-01       VIKING H  
0073 218009 2002-10-01       VIKING I  
0073 218010 2007-09-01       VIKING J

0073 250001 2003-09-01       UPPER MANNVILLE A  
0073 250002 2001-02-01       UPPER MANNVILLE B  
0073 250004 2003-08-01       UPPER MANNVILLE D  
0073 250005 2001-02-01       UPPER MANNVILLE E  
0073 250006 2001-02-01       UPPER MANNVILLE F  
0073 250007 2010-04-01       UPPER MANNVILLE G  
0073 250008 2001-05-01       UPPER MANNVILLE H  
0073 250009 2010-04-01       UPPER MANNVILLE I  
0073 250010 2002-06-01       UPPER MANNVILLE J  
0073 250011 2010-04-01       UPPER MANNVILLE K  
0073 250012 2010-04-01       UPPER MANNVILLE L  
0073 250013 2003-05-01       UPPER MANNVILLE M  
0073 250014 2006-11-01       UPPER MANNVILLE N  
0073 250016 2004-05-01       UPPER MANNVILLE P  
0073 250017 2010-04-01       UPPER MANNVILLE Q  
0073 250018 2004-07-01       UPPER MANNVILLE R  
0073 250019 2004-12-01       UPPER MANNVILLE S  
0073 250020 2004-12-01       UPPER MANNVILLE T  
0073 250021 2005-04-01       UPPER MANNVILLE U  
0073 250022 2005-05-01       UPPER MANNVILLE V  
0073 250023 2005-11-01       UPPER MANNVILLE W  
0073 250024 2005-10-01       UPPER MANNVILLE X  
0073 250025 2005-11-01       UPPER MANNVILLE Y

**POOL DESIGNATION (cont'd)**

0073 250026 2006-01-01 UPPER MANNVILLE Z  
0073 250027 2006-03-01 UPPER MANNVILLE AA  
0073 250028 2006-03-01 UPPER MANNVILLE BB  
0073 250029 2006-04-01 UPPER MANNVILLE CC  
0073 250030 2010-04-01 UPPER MANNVILLE DD  
0073 250031 2006-10-01 UPPER MANNVILLE EE  
0073 250032 2006-08-01 UPPER MANNVILLE FF  
0073 250033 2006-09-01 UPPER MANNVILLE GG  
0073 250034 2006-09-01 UPPER MANNVILLE HH  
0073 250035 2006-09-01 UPPER MANNVILLE II  
0073 250036 2012-04-01 UPPER MANNVILLE JJ  
0073 250037 2006-10-01 UPPER MANNVILLE KK  
0073 250038 2006-12-01 UPPER MANNVILLE LL  
0073 250039 2007-06-01 UPPER MANNVILLE MM  
0073 250040 2007-06-01 UPPER MANNVILLE NN  
0073 250041 2007-09-01 UPPER MANNVILLE OO  
0073 250042 2007-10-01 UPPER MANNVILLE PP  
0073 250043 2008-01-01 UPPER MANNVILLE QQ  
0073 250044 2008-01-01 UPPER MANNVILLE RR  
0073 250045 2011-05-01 UPPER MANNVILLE SS

0073 310001 2001-02-01 LOWER MANNVILLE A  
0073 310002 2006-07-01 LOWER MANNVILLE B  
0073 310003 2006-12-01 LOWER MANNVILLE C  
0073 310004 2008-04-01 LOWER MANNVILLE D  
0073 310005 2008-10-01 LOWER MANNVILLE E  
0073 310006 2013-04-01 LOWER MANNVILLE F

**SPACING PATTERN**

SU 3037 8 Jun 2001  
SU 3037A 10 Jan 2002  
SU 3037B 23 Oct 2002  
SU 3037C 18 Jul 2003

**SUBSURFACE DISPOSAL SCHEMES**

App 10176B 23 Oct 2015  
Class II  
Rifle Shot Oil Corp.

**COMMINGLED PRODUCTION**

MU 5988 13 Sep 2006



**FIELD DESIGNATION**

0075 2007-11-01                   ATHABASCA FIELD

**POOL DESIGNATION**

0075 218001 2002-04-01       VIKING A  
0075 218002 2010-04-01       VIKING B

0075 250001 2001-02-01       UPPER MANNVILLE A  
0075 250002 2004-02-01       UPPER MANNVILLE B  
0075 250003 2010-04-01       UPPER MANNVILLE C

0075 262000 2001-02-01       GRAND RAPIDS  
0075 262002 2002-11-01       GRAND RAPIDS B  
0075 262004 2001-02-01       GRAND RAPIDS D  
0075 262005 2001-02-01       GRAND RAPIDS E  
0075 262006 2001-02-01       GRAND RAPIDS F  
0075 262008 2011-05-01       GRAND RAPIDS H  
0075 262009 2001-02-01       GRAND RAPIDS I  
0075 262010 2001-02-01       GRAND RAPIDS J  
0075 262011 2001-02-01       GRAND RAPIDS K  
0075 262012 2001-02-01       GRAND RAPIDS L  
0075 262013 2001-02-01       GRAND RAPIDS M  
0075 262014 2001-02-01       GRAND RAPIDS N  
0075 262015 2001-02-01       GRAND RAPIDS O  
0075 262016 2001-02-01       GRAND RAPIDS P  
0075 262017 2010-04-01       GRAND RAPIDS Q  
0075 262018 2001-02-01       GRAND RAPIDS R  
0075 262019 2010-04-01       GRAND RAPIDS S  
0075 262020 2001-02-01       GRAND RAPIDS T  
0075 262021 2001-02-01       GRAND RAPIDS U  
0075 262022 2013-02-01       GRAND RAPIDS V  
0075 262023 2001-02-01       GRAND RAPIDS W  
0075 262024 2001-02-01       GRAND RAPIDS X  
0075 262025 2001-03-01       GRAND RAPIDS Y  
0075 262026 2001-03-01       GRAND RAPIDS Z  
0075 262027 2002-01-01       GRAND RAPIDS AA

**POOL DESIGNATION (cont'd)**

0075 262028 2006-05-01 GRAND RAPIDS BB  
0075 262029 2002-06-01 GRAND RAPIDS CC  
0075 262030 2002-11-01 GRAND RAPIDS DD  
0075 262031 2010-04-01 GRAND RAPIDS EE  
0075 262032 2010-04-01 GRAND RAPIDS FF  
0075 262033 2002-11-01 GRAND RAPIDS GG  
0075 262034 2002-11-01 GRAND RAPIDS HH  
0075 262035 2002-11-01 GRAND RAPIDS II  
0075 262036 2008-03-01 GRAND RAPIDS JJ  
0075 262037 2010-04-01 GRAND RAPIDS KK  
0075 262038 2008-06-01 GRAND RAPIDS LL  
0075 262039 2009-09-01 GRAND RAPIDS MM

0075 306001 2001-02-01 WABISKAW A  
0075 306002 2001-02-01 WABISKAW B

0075 328001 2001-02-01 MCMURRAY A  
0075 328002 2001-02-01 MCMURRAY B  
0075 328003 2001-02-01 MCMURRAY C  
0075 328004 2010-04-01 MCMURRAY D  
0075 328005 2007-12-01 MCMURRAY E  
0075 328006 2008-05-01 MCMURRAY F  
0075 328007 2011-02-01 MCMURRAY G

0075 658001 2010-04-01 WABAMUN A  
0075 658002 2001-02-01 WABAMUN B  
0075 658003 2001-02-01 WABAMUN C  
0075 658004 2001-02-01 WABAMUN D  
0075 658005 2001-02-01 WABAMUN E  
0075 658006 2001-02-01 WABAMUN F  
0075 658007 2002-11-01 WABAMUN G

**SPACING PATTERN**

SU 2553 6 Feb 1996

**COMMINGLED PRODUCTION**

MU 2785 22 Nov 2002

**FIELD DESIGNATION**

0076 2008-01-01                   ATHABASCA EAST FIELD

**POOL DESIGNATION**

0076 160001 2004-06-01       COLORADO A

0076 218001 2001-02-01       VIKING A  
0076 218002 2001-02-01       VIKING B  
0076 218003 2016-11-01       VIKING C  
0076 218004 2001-04-01       VIKING D

0076 250001 2001-02-01       UPPER MANNVILLE A  
0076 250002 2010-04-01       UPPER MANNVILLE B  
0076 250004 2001-02-01       UPPER MANNVILLE D  
0076 250005 2001-02-01       UPPER MANNVILLE E  
0076 250006 2001-03-01       UPPER MANNVILLE F  
0076 250007 2001-02-01       UPPER MANNVILLE G  
0076 250008 2001-11-01       UPPER MANNVILLE H  
0076 250009 2001-02-01       UPPER MANNVILLE I  
0076 250010 2001-02-01       UPPER MANNVILLE J  
0076 250011 2001-02-01       UPPER MANNVILLE K  
0076 250012 2001-02-01       UPPER MANNVILLE L  
0076 250013 2001-02-01       UPPER MANNVILLE M  
0076 250014 2001-02-01       UPPER MANNVILLE N  
0076 250015 2001-02-01       UPPER MANNVILLE O  
0076 250016 2001-02-01       UPPER MANNVILLE P  
0076 250017 2001-02-01       UPPER MANNVILLE Q  
0076 250018 2001-02-01       UPPER MANNVILLE R  
0076 250019 2001-02-01       UPPER MANNVILLE S  
0076 250021 2001-02-01       UPPER MANNVILLE U  
0076 250022 2001-02-01       UPPER MANNVILLE V  
0076 250023 2001-02-01       UPPER MANNVILLE W  
0076 250024 2001-02-01       UPPER MANNVILLE X  
0076 250025 2010-04-01       UPPER MANNVILLE Y  
0076 250026 2001-02-01       UPPER MANNVILLE Z  
0076 250027 2001-02-01       UPPER MANNVILLE AA

**POOL DESIGNATION (cont'd)**

0076 250028 2001-02-01	UPPER MANNVILLE BB
0076 250029 2001-02-01	UPPER MANNVILLE CC
0076 250030 2001-02-01	UPPER MANNVILLE DD
0076 250031 2001-02-01	UPPER MANNVILLE EE
0076 250033 2001-02-01	UPPER MANNVILLE GG
0076 250034 2001-02-01	UPPER MANNVILLE HH
0076 250035 2001-02-01	UPPER MANNVILLE II
0076 250036 2001-02-01	UPPER MANNVILLE JJ
0076 250037 2010-04-01	UPPER MANNVILLE KK
0076 250038 2008-01-01	UPPER MANNVILLE LL
0076 250039 2001-09-01	UPPER MANNVILLE MM
0076 250040 2001-03-01	UPPER MANNVILLE NN
0076 250041 2001-03-01	UPPER MANNVILLE OO
0076 250042 2001-04-01	UPPER MANNVILLE PP
0076 250043 2001-06-01	UPPER MANNVILLE QQ
0076 250044 2001-11-01	UPPER MANNVILLE RR
0076 250045 2002-12-01	UPPER MANNVILLE SS
0076 250046 2004-01-01	UPPER MANNVILLE TT
0076 250047 2004-09-01	UPPER MANNVILLE UU
0076 250048 2005-05-01	UPPER MANNVILLE VV
0076 250049 2005-11-01	UPPER MANNVILLE WW
0076 250050 2007-07-01	UPPER MANNVILLE XX
0076 250051 2007-07-01	UPPER MANNVILLE YY
0076 250052 2007-08-01	UPPER MANNVILLE ZZ
0076 250701 2008-01-01	UPPER MANNVILLE AAA
0076 250702 2008-01-01	UPPER MANNVILLE BBB
0076 250703 2008-01-01	UPPER MANNVILLE CCC
0076 300001 2001-02-01	GLAUCONITIC A
0076 300003 2001-02-01	GLAUCONITIC C
0076 300004 2001-02-01	GLAUCONITIC D
0076 300005 2001-11-01	GLAUCONITIC E
0076 300006 2001-02-01	GLAUCONITIC F
0076 300007 2009-09-01	GLAUCONITIC G
0076 300008 2001-04-01	GLAUCONITIC H
0076 300009 2007-03-01	GLAUCONITIC I
0076 300010 2009-09-01	GLAUCONITIC J
0076 300011 2009-09-01	GLAUCONITIC K

**POOL DESIGNATION (cont'd)**

0076 300012 2010-10-01      GLAUCONITIC L  
0076 300601 2001-02-01      GLAUCONITIC-WABAMUN A  
0076 300701 2010-04-01      GLAUC-L MANN-WAB A  
0076 310002 2001-02-01      LOWER MANNVILLE B  
0076 310003 2001-02-01      LOWER MANNVILLE C  
0076 310004 2007-11-01      LOWER MANNVILLE D  
0076 658004 2009-09-01      WABAMUN D  
0076 658005 2008-03-01      WABAMUN E  
0076 658006 2009-09-01      WABAMUN F

**SPACING PATTERN**

SU 3098      28 Mar 2002  
SU 3098A      18 Jun 2002

**COMMINGLED PRODUCTION**

MU 7331      29 Sep 2009

**SUBSURFACE DISPOSAL SCHEMES**

App 7278A      17 Sep 2012  
Class II  
Husky Oil Operations Limited

App 8338      15 May 1998  
Class II  
Canadian Natural Resources Limited

**FIELD DESIGNATION**

1317 2007-12-01                      ATIKAMIK FIELD

**POOL DESIGNATION**

1317 658001 2007-12-01              WABAMUN A

1317 772101 2008-06-01              KEG RIVER A

**FIELD DESIGNATION**

0080 2012-03-01 ATIM FIELD

**POOL DESIGNATION**

0080 126001 2001-02-01 BELLY RIVER A

0080 218001 2001-02-01 VIKING A

0080 218002 2001-02-01 VIKING B

0080 218003 2009-10-01 VIKING C

0080 250001 2001-03-01 UPPER MANNVILLE A

0080 250002 2001-03-01 UPPER MANNVILLE B

0080 250004 2001-03-01 UPPER MANNVILLE D

0080 250005 2001-03-01 UPPER MANNVILLE E

0080 250006 2003-05-01 UPPER MANNVILLE F

0080 250007 2006-12-01 UPPER MANNVILLE G

0080 250008 2007-09-01 UPPER MANNVILLE H

0080 250009 2009-01-01 UPPER MANNVILLE I

0080 250010 2012-03-01 UPPER MANNVILLE J

0080 316001 2001-02-01 OSTRACOD A

0080 316002 2002-03-01 OSTRACOD B

0080 320001 2001-02-01 BASAL MANNVILLE A

0080 320002 2001-02-01 BASAL MANNVILLE B

0080 320003 2001-02-01 BASAL MANNVILLE C

0080 320004 2001-02-01 BASAL MANNVILLE D

0080 320005 2001-02-01 BASAL MANNVILLE E

0080 320006 2001-02-01 BASAL MANNVILLE F

0080 320007 2001-03-01 BASAL MANNVILLE G

0080 320008 2003-04-01 BASAL MANNVILLE H

0080 320009 2005-05-01 BASAL MANNVILLE I

0080 320010 2010-04-01 BASAL MANNVILLE J

0080 320011 2007-08-01 BASAL MANNVILLE K

0080 320012 2007-08-01 BASAL MANNVILLE L

**POOL DESIGNATION (cont'd)**

0080 658001 2001-02-01 WABAMUN A  
0080 658002 2008-10-01 WABAMUN B

**SPACING PATTERN**

SU 2558 8 Feb 1996  
SU 2558A 2 Feb 1999  
SU 2558B 26 Apr 2002  
SU 2558C 22 Dec 2003

**COMMINGLED PRODUCTION**

MU 6271 26 Nov 2006



**FIELD DESIGNATION**

0085 2014-12-01 ATLEE-BUFFALO FIELD

**POOL DESIGNATION**

0085 126001 2001-02-01 BELLY RIVER A  
0085 126002 2001-02-01 BELLY RIVER B  
0085 126004 2001-02-01 BELLY RIVER D  
0085 126007 2002-03-01 BELLY RIVER G  
0085 126008 2010-12-01 BELLY RIVER H  
0085 126009 2015-06-01 BELLY RIVER I  
0085 126012 2001-02-01 BELLY RIVER L  
0085 126013 2001-02-01 BELLY RIVER M  
0085 126014 2001-10-01 BELLY RIVER N  
0085 126015 2001-10-01 BELLY RIVER O  
0085 126016 2002-04-01 BELLY RIVER P  
0085 126017 2010-04-01 BELLY RIVER Q  
0085 126018 2005-03-01 BELLY RIVER R  
0085 126020 2010-04-01 BELLY RIVER T  
0085 126021 2013-04-01 BELLY RIVER U  
0085 126026 2014-12-01 BELLY RIVER Z  
0085 126027 2014-12-01 BELLY RIVER AA  
0085 126028 2014-12-01 BELLY RIVER BB  
0085 126029 2014-12-01 BELLY RIVER CC  
0085 126030 2014-12-01 BELLY RIVER DD  
0085 126031 2014-12-01 BELLY RIVER EE  
0085 126032 2014-12-01 BELLY RIVER FF  
0085 126033 2014-12-01 BELLY RIVER GG  
0085 126034 2014-12-01 BELLY RIVER HH  
0085 126035 2014-12-01 BELLY RIVER II  
0085 126036 2014-12-01 BELLY RIVER JJ  
0085 126037 2014-12-01 BELLY RIVER KK  
0085 126038 2014-12-01 BELLY RIVER LL

0085 132001 2010-04-01 FOREMOST A

0085 134001 2010-04-01 BASAL BELLY RIVER A

**POOL DESIGNATION (cont'd)**

0085 134002 2005-04-01	BASAL BELLY RIVER B
0085 134003 2005-04-01	BASAL BELLY RIVER C
0085 134004 2012-02-01	BASAL BELLY RIVER D
0085 134005 2014-12-01	BASAL BELLY RIVER E
0085 136001 2009-07-01	VICTORIA A
0085 136002 2014-12-01	VICTORIA B
0085 160001 2006-12-01	COLORADO A
0085 160002 2010-04-01	COLORADO B
0085 160003 2010-04-01	COLORADO C
0085 160004 2010-04-01	COLORADO D
0085 160005 2010-04-01	COLORADO E
0085 160006 2010-06-01	COLORADO F
0085 160007 2010-12-01	COLORADO G
0085 162001 2010-04-01	FIRST WHITE SPECKS A
0085 162002 2010-12-01	FIRST WHITE SPECKS B
0085 162003 2010-12-01	FIRST WHITE SPECKS C
0085 162004 2010-12-01	FIRST WHITE SPECKS D
0085 162005 2010-12-01	FIRST WHITE SPECKS E
0085 162006 2010-12-01	FIRST WHITE SPECKS F
0085 162007 2010-12-01	FIRST WHITE SPECKS G
0085 164007 2004-04-01	MEDICINE HAT G
0085 186002 2006-12-01	SECOND WHITE SPECKS B
0085 186009 2008-09-01	SECOND WHITE SPECKS I
0085 186010 2010-12-01	SECOND WHITE SPECKS J
0085 202001 2010-05-01	FISH SCALE A
0085 202002 2010-04-01	FISH SCALE B
0085 202003 2008-08-01	FISH SCALE C
0085 202004 2010-04-01	FISH SCALE D
0085 202005 2008-09-01	FISH SCALE E
0085 202006 2010-04-01	FISH SCALE F
0085 218002 2012-04-01	VIKING B

**POOL DESIGNATION (cont'd)**

0085 218003 2001-02-01	VIKING C
0085 218004 2001-02-01	VIKING D
0085 218005 2001-02-01	VIKING E
0085 218006 2010-04-01	VIKING F
0085 218007 2012-04-01	VIKING G
0085 218008 2010-04-01	VIKING H
0085 218009 2001-02-01	VIKING I
0085 218010 2010-04-01	VIKING J
0085 218011 2001-02-01	VIKING K
0085 218012 2001-02-01	VIKING L
0085 218013 2001-04-01	VIKING M
0085 218014 2001-02-01	VIKING N
0085 218015 2001-02-01	VIKING O
0085 218016 2001-02-01	VIKING P
0085 218017 2001-02-01	VIKING Q
0085 218018 2001-02-01	VIKING R
0085 218019 2001-02-01	VIKING S
0085 218020 2001-03-01	VIKING T
0085 218021 2001-03-01	VIKING U
0085 218022 2001-12-01	VIKING V
0085 218023 2003-02-01	VIKING W
0085 218024 2006-11-01	VIKING X
0085 218025 2014-12-01	VIKING Y
0085 218026 2014-12-01	VIKING Z
0085 218027 2014-12-01	VIKING AA
0085 218028 2014-12-01	VIKING BB
0085 242001 2012-04-01	BASAL COLORADO A
0085 242002 2001-02-01	BASAL COLORADO B
0085 242003 2001-02-01	BASAL COLORADO C
0085 242004 2008-01-01	BASAL COLORADO D
0085 242005 2001-09-01	BASAL COLORADO E
0085 242006 2010-04-01	BASAL COLORADO F
0085 250001 2002-07-01	UPPER MANNVILLE A
0085 250005 2008-06-01	UPPER MANNVILLE E
0085 250006 2011-11-01	UPPER MANNVILLE F
0085 250007 2010-04-01	UPPER MANNVILLE G

**POOL DESIGNATION (cont'd)**

0085 250008	2001-02-01	UPPER MANNVILLE H
0085 250009	2001-02-01	UPPER MANNVILLE I
0085 250010	2013-02-01	UPPER MANNVILLE J
0085 250011	2001-02-01	UPPER MANNVILLE K
0085 250014	2004-10-01	UPPER MANNVILLE N
0085 250015	2007-09-01	UPPER MANNVILLE O
0085 250017	2001-02-01	UPPER MANNVILLE Q
0085 250019	2001-02-01	UPPER MANNVILLE S
0085 250021	2001-02-01	UPPER MANNVILLE U
0085 250022	2001-02-01	UPPER MANNVILLE V
0085 250023	2001-02-01	UPPER MANNVILLE W
0085 250024	2001-02-01	UPPER MANNVILLE X
0085 250025	2010-04-01	UPPER MANNVILLE Y
0085 250026	2001-02-01	UPPER MANNVILLE Z
0085 250027	2001-02-01	UPPER MANNVILLE AA
0085 250028	2012-12-01	UPPER MANNVILLE BB
0085 250029	2001-02-01	UPPER MANNVILLE CC
0085 250030	2013-02-01	UPPER MANNVILLE DD
0085 250031	2010-04-01	UPPER MANNVILLE EE
0085 250032	2003-11-01	UPPER MANNVILLE FF
0085 250033	2001-02-01	UPPER MANNVILLE GG
0085 250034	2001-02-01	UPPER MANNVILLE HH
0085 250035	2001-02-01	UPPER MANNVILLE II
0085 250036	2010-12-01	UPPER MANNVILLE JJ
0085 250037	2001-02-01	UPPER MANNVILLE KK
0085 250038	2007-08-01	UPPER MANNVILLE LL
0085 250039	2001-11-01	UPPER MANNVILLE MM
0085 250040	2001-11-01	UPPER MANNVILLE NN
0085 250041	2002-10-01	UPPER MANNVILLE OO
0085 250042	2002-11-01	UPPER MANNVILLE PP
0085 250043	2002-12-01	UPPER MANNVILLE QQ
0085 250044	2003-02-01	UPPER MANNVILLE RR
0085 250046	2003-08-01	UPPER MANNVILLE TT
0085 250047	2003-08-01	UPPER MANNVILLE UU
0085 250048	2003-08-01	UPPER MANNVILLE VV
0085 250049	2003-11-01	UPPER MANNVILLE WW
0085 250050	2005-07-01	UPPER MANNVILLE XX
0085 250051	2005-10-01	UPPER MANNVILLE YY

**POOL DESIGNATION (cont'd)**

0085 250052 2006-01-01	UPPER MANNVILLE ZZ
0085 250701 2006-03-01	UPPER MANNVILLE AAA
0085 250702 2006-04-01	UPPER MANNVILLE BBB
0085 250703 2010-11-01	UPPER MANNVILLE CCC
0085 250704 2006-08-01	UPPER MANNVILLE DDD
0085 250705 2006-08-01	UPPER MANNVILLE EEE
0085 250706 2007-03-01	UPPER MANNVILLE FFF
0085 250707 2007-05-01	UPPER MANNVILLE GGG
0085 250709 2010-04-01	UPPER MANNVILLE III
0085 250710 2009-04-01	UPPER MANNVILLE JJJ
0085 250711 2010-01-01	UPPER MANNVILLE KKK
0085 250713 2010-01-01	UPPER MANNVILLE MMM
0085 250714 2010-02-01	UPPER MANNVILLE NNN
0085 250715 2010-02-01	UPPER MANNVILLE OOO
0085 250716 2010-06-01	UPPER MANNVILLE PPP
0085 250717 2010-02-01	UPPER MANNVILLE QQQ
0085 250718 2010-03-01	UPPER MANNVILLE RRR
0085 250719 2010-03-01	UPPER MANNVILLE SSS
0085 250720 2010-05-01	UPPER MANNVILLE TTT
0085 250721 2010-06-01	UPPER MANNVILLE UUU
0085 250722 2011-08-01	UPPER MANNVILLE VVV
0085 250723 2014-12-01	UPPER MANNVILLE WWW
0085 250724 2014-12-01	UPPER MANNVILLE XXX
0085 250725 2014-12-01	UPPER MANNVILLE YYY
0085 250726 2014-12-01	UPPER MANNVILLE ZZZ
0085 250727 2014-12-01	UPPER MANNVILLE A2A
0085 250728 2014-12-01	UPPER MANNVILLE B2B
0085 250729 2014-12-01	UPPER MANNVILLE C2C
0085 250730 2014-12-01	UPPER MANNVILLE D2D
0085 250731 2014-12-01	UPPER MANNVILLE E2E
0085 250732 2014-12-01	UPPER MANNVILLE F2F
0085 300001 2001-02-01	GLAUCONITIC A
0085 300002 2001-02-01	GLAUCONITIC B
0085 300004 2001-02-01	GLAUCONITIC D
0085 300005 2001-02-01	GLAUCONITIC E
0085 300006 2001-02-01	GLAUCONITIC F
0085 300007 2010-04-01	GLAUCONITIC G

**POOL DESIGNATION (cont'd)**

0085 300008 2010-04-01	GLAUCONITIC H
0085 300009 2001-02-01	GLAUCONITIC I
0085 300010 2001-02-01	GLAUCONITIC J
0085 300011 2001-02-01	GLAUCONITIC K
0085 300012 2013-10-01	GLAUCONITIC L
0085 300013 2001-02-01	GLAUCONITIC M
0085 300016 2014-04-01	GLAUCONITIC P
0085 300017 2001-04-01	GLAUCONITIC Q
0085 300018 2001-03-01	GLAUCONITIC R
0085 300019 2002-08-01	GLAUCONITIC S
0085 300020 2004-02-01	GLAUCONITIC T
0085 300022 2004-08-01	GLAUCONITIC V
0085 300024 2006-05-01	GLAUCONITIC X
0085 300025 2006-06-01	GLAUCONITIC Y
0085 300026 2007-06-01	GLAUCONITIC Z
0085 300027 2013-05-01	GLAUCONITIC AA
0085 300028 2013-05-01	GLAUCONITIC BB
0085 300029 2014-12-01	GLAUCONITIC CC
0085 300030 2014-12-01	GLAUCONITIC DD
0085 300031 2014-12-01	GLAUCONITIC EE
0085 300032 2014-12-01	GLAUCONITIC FF
0085 316001 2001-12-01	OSTRACOD A
0085 316002 2002-09-01	OSTRACOD B
0085 320001 2001-02-01	BASAL MANNVILLE A
0085 320002 2001-07-01	BASAL MANNVILLE B
0085 320004 2001-02-01	BASAL MANNVILLE D
0085 320005 2001-02-01	BASAL MANNVILLE E
0085 320006 2006-02-01	BASAL MANNVILLE F
0085 320007 2001-02-01	BASAL MANNVILLE G
0085 320008 2001-02-01	BASAL MANNVILLE H
0085 320009 2001-02-01	BASAL MANNVILLE I
0085 320010 2001-02-01	BASAL MANNVILLE J
0085 320011 2002-02-01	BASAL MANNVILLE K
0085 320012 2010-07-01	BASAL MANNVILLE L
0085 320013 2011-12-01	BASAL MANNVILLE M
0085 320014 2013-05-01	BASAL MANNVILLE N

**POOL DESIGNATION (cont'd)**

0085 350001	2001-09-01	DETRITAL A
0085 350005	2014-12-01	DETRITAL E
0085 350006	2014-12-01	DETRITAL F
0085 350007	2016-10-01	DETRITAL G
0085 350008	2014-12-01	DETRITAL H
0085 644001	2001-02-01	BANFF A
0085 850100	2011-11-01	MFP8501 MILK RIVER
0085 850200	2011-11-01	MFP8502 MED HAT
0085 850500	2010-04-01	MFP8505 2WS

**SPACING PATTERN**

SU 4133	28 Nov 2003
SU 4133A	11 Mar 2004
SU 4133B	12 May 2004
SU 4133C	9 Jul 2004
SU 4133D	23 Jul 2004
SU 4133E	16 Aug 2004
SU 4133F	17 Sep 2004
SU 4133G	9 Apr 2005
SU 4133H	17 Jun 2005
SU 4133I	19 Jan 2006
SU 4133J	3 Mar 2006
SU 4133K	21 Apr 2006
SU 4133L	10 Apr 2007
SU 4133M	14 Aug 2007

**COMMINGLED PRODUCTION**

MU 7576	27 Oct 2010
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**ENHANCED RECOVERY SCHEMES**

App 9322F	5 Feb 2016
Waterflood	
Glauconitic H	
Imaginea Energy Corp.	
App 12456C	28 Jun 2017
Waterflood	
Upper Mannville F	
Hemisphere Energy Corporation	
App 12458	23 Oct 2015
Waterflood	
Hemisphere Energy Corporation	
App 12638	26 Jun 2017
Waterflood	
Upper Mannville F	
Hemisphere Energy Corporation	

**SUBSURFACE DISPOSAL SCHEMES**

App 9159A 24 Feb 2015  
Class II  
EOG Resources Canada Inc.

App 9377D 29 Jun 2016  
Class II  
Imaginea Energy Corp.

App 9767 2 Sep 2004

App 9767A 6 Nov 2008

App 9767B 16 Dec 2009  
Class Ib  
Cancen Oil Processors Inc.

App 10013C 15 Aug 2016  
Class II  
SanLing Energy Ltd.

App 11482C 23 Feb 2017  
Class II  
Scollard Energy Ltd.



**FIELD DESIGNATION**

0087 2007-11-01                      ATMORE FIELD

**POOL DESIGNATION**

0087 262001 2001-02-01              GRAND RAPIDS A  
0087 262002 2010-04-01              GRAND RAPIDS B  
0087 262003 2010-04-01              GRAND RAPIDS C  
0087 262004 2003-04-01              GRAND RAPIDS D  
0087 262005 2011-04-01              GRAND RAPIDS E  
0087 262006 2010-04-01              GRAND RAPIDS F  
0087 262007 2001-02-01              GRAND RAPIDS G  
0087 262008 2001-02-01              GRAND RAPIDS H  
0087 262009 2011-02-01              GRAND RAPIDS I  
0087 262010 2001-02-01              GRAND RAPIDS J  
0087 262011 2001-02-01              GRAND RAPIDS K  
0087 262012 2001-02-01              GRAND RAPIDS L  
0087 262013 2001-02-01              GRAND RAPIDS M  
0087 262014 2001-02-01              GRAND RAPIDS N  
0087 262015 2001-02-01              GRAND RAPIDS O  
0087 262016 2010-04-01              GRAND RAPIDS P  
0087 262017 2010-04-01              GRAND RAPIDS Q  
0087 262018 2004-08-01              GRAND RAPIDS R  
0087 262019 2001-02-01              GRAND RAPIDS S  
0087 262020 2001-02-01              GRAND RAPIDS T  
0087 262021 2001-02-01              GRAND RAPIDS U  
0087 262022 2001-02-01              GRAND RAPIDS V  
0087 262023 2003-09-01              GRAND RAPIDS W  
0087 262024 2001-02-01              GRAND RAPIDS X  
0087 262025 2001-02-01              GRAND RAPIDS Y  
0087 262026 2001-02-01              GRAND RAPIDS Z  
0087 262027 2001-02-01              GRAND RAPIDS AA  
0087 262028 2001-02-01              GRAND RAPIDS BB  
0087 262029 2010-04-01              GRAND RAPIDS CC  
0087 262030 2001-02-01              GRAND RAPIDS DD  
0087 262031 2001-07-01              GRAND RAPIDS EE  
0087 262032 2001-02-01              GRAND RAPIDS FF

**POOL DESIGNATION (cont'd)**

0087 262033 2001-02-01	GRAND RAPIDS GG
0087 262034 2003-05-01	GRAND RAPIDS HH
0087 262035 2003-11-01	GRAND RAPIDS II
0087 262036 2001-02-01	GRAND RAPIDS JJ
0087 262037 2001-02-01	GRAND RAPIDS KK
0087 262038 2001-02-01	GRAND RAPIDS LL
0087 262039 2001-07-01	GRAND RAPIDS MM
0087 262040 2001-02-01	GRAND RAPIDS NN
0087 262041 2001-02-01	GRAND RAPIDS OO
0087 262042 2010-04-01	GRAND RAPIDS PP
0087 262043 2004-08-01	GRAND RAPIDS QQ
0087 262044 2011-03-01	GRAND RAPIDS RR
0087 262045 2010-04-01	GRAND RAPIDS SS
0087 262046 2001-02-01	GRAND RAPIDS TT
0087 262047 2001-03-01	GRAND RAPIDS UU
0087 262048 2001-04-01	GRAND RAPIDS VV
0087 262049 2001-03-01	GRAND RAPIDS WW
0087 262050 2003-07-01	GRAND RAPIDS XX
0087 262051 2002-02-01	GRAND RAPIDS YY
0087 262052 2003-04-01	GRAND RAPIDS ZZ
0087 262501 2003-02-01	GRAND RAPIDS AAA
0087 262502 2003-03-01	GRAND RAPIDS BBB
0087 262503 2004-08-01	GRAND RAPIDS CCC
0087 262504 2006-08-01	GRAND RAPIDS DDD
0087 262505 2007-01-01	GRAND RAPIDS EEE
0087 262506 2007-03-01	GRAND RAPIDS FFF
0087 262507 2007-06-01	GRAND RAPIDS GGG
0087 262508 2007-07-01	GRAND RAPIDS HHH
0087 262509 2007-07-01	GRAND RAPIDS III
0087 262510 2007-07-01	GRAND RAPIDS JJJ
0087 262511 2007-07-01	GRAND RAPIDS KKK
0087 262512 2007-08-01	GRAND RAPIDS LLL
0087 262513 2007-10-01	GRAND RAPIDS MMM
0087 262514 2007-10-01	GRAND RAPIDS NNN
0087 262515 2007-10-01	GRAND RAPIDS OOO
0087 262516 2008-04-01	GRAND RAPIDS PPP
0087 262517 2008-05-01	GRAND RAPIDS QQQ
0087 262518 2008-10-01	GRAND RAPIDS RRR

**POOL DESIGNATION (cont'd)**

0087 262519 2009-08-01	GRAND RAPIDS SSS
0087 262520 2010-01-01	GRAND RAPIDS TTT
0087 262521 2011-02-01	GRAND RAPIDS UUU
0087 262522 2011-03-01	GRAND RAPIDS VVV
0087 270001 2004-08-01	WASECA A
0087 270002 2001-02-01	WASECA B
0087 270003 2007-06-01	WASECA C
0087 270004 2007-06-01	WASECA D
0087 270005 2007-08-01	WASECA E
0087 276001 2001-02-01	SPARKY A
0087 276002 2001-02-01	SPARKY B
0087 276003 2007-07-01	SPARKY C
0087 276004 2010-06-01	SPARKY D
0087 276005 2011-04-01	SPARKY E
0087 280001 2001-02-01	CLEARWATER A
0087 280002 2001-02-01	CLEARWATER B
0087 280003 2006-04-01	CLEARWATER C
0087 280004 2006-04-01	CLEARWATER D
0087 280005 2011-01-01	CLEARWATER E
0087 306001 2001-02-01	WABISKAW A
0087 306002 2010-04-01	WABISKAW B
0087 306003 2001-02-01	WABISKAW C
0087 306004 2001-03-01	WABISKAW D
0087 306005 2001-02-01	WABISKAW E
0087 306006 2001-08-01	WABISKAW F
0087 306007 2004-06-01	WABISKAW G
0087 306008 2006-07-01	WABISKAW H
0087 306009 2007-01-01	WABISKAW I
0087 328001 2012-04-01	MCMURRAY A
0087 328002 2010-04-01	MCMURRAY B
0087 328003 2013-07-01	MCMURRAY C
0087 328004 2001-02-01	MCMURRAY D
0087 328005 2007-11-01	MCMURRAY E

**POOL DESIGNATION (cont'd)**

0087 328006 2001-04-01	MCMURRAY F
0087 328007 2001-03-01	MCMURRAY G
0087 328008 2003-04-01	MCMURRAY H
0087 328009 2010-05-01	MCMURRAY I
0087 328010 2011-10-01	MCMURRAY J
0087 328501 2001-12-01	MCMURRAY-NISKU A
0087 350001 2001-02-01	DETRITAL A
0087 696001 2010-04-01	NISKU A
0087 696002 2001-02-01	NISKU B
0087 696003 2010-04-01	NISKU C
0087 696004 2006-06-01	NISKU D
0087 696005 2010-04-01	NISKU E
0087 696006 2011-03-01	NISKU F
0087 696007 2001-07-01	NISKU G
0087 696008 2001-07-01	NISKU H
0087 696009 2001-02-01	NISKU I
0087 696010 2001-02-01	NISKU J
0087 696012 2001-02-01	NISKU L
0087 696013 2001-08-01	NISKU M
0087 696014 2008-08-01	NISKU N

**SPACING PATTERN**

SU 2556	7 Feb 1996
SU 2556A	19 Sep 1997
SU 2556B	3 Jun 1998

**SUBSURFACE DISPOSAL SCHEMES**

App 12469A 16 Feb 2017  
Class Ib & II  
White Swan Environmental Ltd.

**COMMINGLED PRODUCTION**

MU 6351	19 Dec 2006
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