

**FIELD DESIGNATION**

0916 2007-12-01                      UKALTA FIELD

**POOL DESIGNATION**

0916 218001 2012-02-01            VIKING A  
0916 218002 2001-02-01            VIKING B  
0916 218003 2001-02-01            VIKING C  
0916 218004 2001-02-01            VIKING D  
0916 218005 2001-03-01            VIKING E  
0916 218006 2011-05-01            VIKING F

0916 250001 2010-01-01            UPPER MANNVILLE A  
0916 250002 2001-02-01            UPPER MANNVILLE B  
0916 250003 2010-04-01            UPPER MANNVILLE C  
0916 250004 2010-04-01            UPPER MANNVILLE D  
0916 250005 2011-02-01            UPPER MANNVILLE E  
0916 250006 2001-02-01            UPPER MANNVILLE F  
0916 250007 2001-02-01            UPPER MANNVILLE G  
0916 250008 2001-02-01            UPPER MANNVILLE H  
0916 250009 2001-02-01            UPPER MANNVILLE I  
0916 250010 2006-04-01            UPPER MANNVILLE J  
0916 250012 2004-08-01            UPPER MANNVILLE L  
0916 250013 2001-02-01            UPPER MANNVILLE M  
0916 250014 2001-02-01            UPPER MANNVILLE N  
0916 250015 2004-08-01            UPPER MANNVILLE O  
0916 250016 2001-02-01            UPPER MANNVILLE P  
0916 250017 2001-02-01            UPPER MANNVILLE Q  
0916 250018 2001-02-01            UPPER MANNVILLE R  
0916 250019 2001-02-01            UPPER MANNVILLE S  
0916 250020 2001-02-01            UPPER MANNVILLE T  
0916 250021 2002-10-01            UPPER MANNVILLE U  
0916 250022 2002-02-01            UPPER MANNVILLE V  
0916 250023 2002-04-01            UPPER MANNVILLE W  
0916 250024 2002-04-01            UPPER MANNVILLE X  
0916 250025 2007-05-01            UPPER MANNVILLE Y  
0916 250026 2002-10-01            UPPER MANNVILLE Z

**POOL DESIGNATION (cont'd)**

0916 250027 2003-10-01	UPPER MANNVILLE AA
0916 250028 2010-04-01	UPPER MANNVILLE BB
0916 250029 2004-06-01	UPPER MANNVILLE CC
0916 250030 2004-09-01	UPPER MANNVILLE DD
0916 250031 2004-11-01	UPPER MANNVILLE EE
0916 250032 2005-01-01	UPPER MANNVILLE FF
0916 250033 2005-11-01	UPPER MANNVILLE GG
0916 250034 2005-05-01	UPPER MANNVILLE HH
0916 250035 2011-02-01	UPPER MANNVILLE II
0916 250036 2005-11-01	UPPER MANNVILLE JJ
0916 250037 2005-12-01	UPPER MANNVILLE KK
0916 250038 2006-01-01	UPPER MANNVILLE LL
0916 250039 2006-01-01	UPPER MANNVILLE MM
0916 250040 2006-01-01	UPPER MANNVILLE NN
0916 250041 2006-03-01	UPPER MANNVILLE OO
0916 250042 2006-05-01	UPPER MANNVILLE PP
0916 250043 2006-05-01	UPPER MANNVILLE QQ
0916 250044 2010-04-01	UPPER MANNVILLE RR
0916 250045 2007-12-01	UPPER MANNVILLE SS
0916 250046 2007-12-01	UPPER MANNVILLE TT
0916 250047 2007-12-01	UPPER MANNVILLE UU
0916 250048 2007-12-01	UPPER MANNVILLE VV
0916 250049 2007-12-01	UPPER MANNVILLE WW
0916 250050 2008-04-01	UPPER MANNVILLE XX
0916 250051 2008-01-01	UPPER MANNVILLE YY
0916 250052 2010-04-01	UPPER MANNVILLE ZZ
0916 250701 2008-02-01	UPPER MANNVILLE AAA
0916 250703 2008-03-01	UPPER MANNVILLE CCC
0916 250704 2008-03-01	UPPER MANNVILLE DDD
0916 250705 2008-03-01	UPPER MANNVILLE EEE
0916 250706 2008-03-01	UPPER MANNVILLE FFF
0916 250707 2008-03-01	UPPER MANNVILLE GGG
0916 250708 2008-12-01	UPPER MANNVILLE HHH
0916 250709 2008-12-01	UPPER MANNVILLE III
0916 250710 2008-05-01	UPPER MANNVILLE JJJ
0916 250711 2008-08-01	UPPER MANNVILLE KKK
0916 250712 2008-08-01	UPPER MANNVILLE LLL
0916 250713 2009-03-01	UPPER MANNVILLE MMM

**POOL DESIGNATION (cont'd)**

0916 250714 2010-04-01	UPPER MANNVILLE NNN
0916 250715 2011-01-01	UPPER MANNVILLE OOO
0916 250716 2011-01-01	UPPER MANNVILLE PPP
0916 250717 2011-12-01	UPPER MANNVILLE QQQ
0916 256005 2001-02-01	COLONY E
0916 256006 2001-02-01	COLONY F
0916 256007 2001-02-01	COLONY G
0916 256008 2001-02-01	COLONY H
0916 256009 2001-02-01	COLONY I
0916 256010 2001-02-01	COLONY J
0916 256011 2001-02-01	COLONY K
0916 256013 2010-04-01	COLONY M
0916 256014 2010-04-01	COLONY N
0916 256015 2003-04-01	COLONY O
0916 256016 2001-02-01	COLONY P
0916 256017 2001-02-01	COLONY Q
0916 256018 2001-02-01	COLONY R
0916 256019 2011-02-01	COLONY S
0916 256020 2001-02-01	COLONY T
0916 256021 2001-02-01	COLONY U
0916 256022 2001-02-01	COLONY V
0916 256023 2001-11-01	COLONY W
0916 256024 2001-09-01	COLONY X
0916 256025 2002-03-01	COLONY Y
0916 256026 2002-04-01	COLONY Z
0916 256027 2010-04-01	COLONY AA
0916 256028 2003-06-01	COLONY BB
0916 256029 2010-04-01	COLONY CC
0916 256030 2005-11-01	COLONY DD
0916 256031 2006-02-01	COLONY EE
0916 256032 2006-08-01	COLONY FF
0916 256033 2007-12-01	COLONY GG
0916 256034 2007-12-01	COLONY HH
0916 256035 2007-12-01	COLONY II
0916 256036 2008-04-01	COLONY JJ
0916 256037 2008-06-01	COLONY KK
0916 256038 2010-04-01	COLONY LL

**POOL DESIGNATION (cont'd)**

0916 256039 2009-08-01	COLONY MM
0916 256040 2010-04-01	COLONY NN
0916 256041 2012-01-01	COLONY OO
0916 256042 2011-03-01	COLONY PP
0916 256043 2011-12-01	COLONY QQ
0916 262001 2001-02-01	GRAND RAPIDS A
0916 276001 2001-02-01	SPARKY A
0916 276002 2007-01-01	SPARKY B
0916 276003 2001-02-01	SPARKY C
0916 276004 2001-02-01	SPARKY D
0916 276006 2001-02-01	SPARKY F
0916 276007 2001-02-01	SPARKY G
0916 276008 2001-02-01	SPARKY H
0916 276009 2001-02-01	SPARKY I
0916 276010 2005-05-01	SPARKY J
0916 276011 2001-02-01	SPARKY K
0916 276012 2001-02-01	SPARKY L
0916 276013 2001-02-01	SPARKY M
0916 276014 2005-05-01	SPARKY N
0916 276015 2005-07-01	SPARKY O
0916 276016 2006-01-01	SPARKY P
0916 276017 2006-03-01	SPARKY Q
0916 276018 2006-07-01	SPARKY R
0916 276019 2006-07-01	SPARKY S
0916 276020 2006-07-01	SPARKY T
0916 276021 2007-12-01	SPARKY U
0916 276022 2007-12-01	SPARKY V
0916 276023 2007-12-01	SPARKY W
0916 276024 2007-12-01	SPARKY X
0916 276025 2010-04-01	SPARKY Y
0916 276026 2008-07-01	SPARKY Z
0916 276027 2010-04-01	SPARKY AA
0916 276028 2010-04-01	SPARKY BB
0916 276029 2010-04-01	SPARKY CC
0916 276030 2010-04-01	SPARKY DD
0916 276031 2010-04-01	SPARKY EE

**POOL DESIGNATION (cont'd)**

0916 276032 2010-04-01	SPARKY FF
0916 276033 2010-01-01	SPARKY GG
0916 276034 2010-06-01	SPARKY HH
0916 276035 2011-03-01	SPARKY II
0916 276036 2011-05-01	SPARKY JJ
0916 276037 2011-12-01	SPARKY KK
0916 286001 2011-04-01	GENERAL PETROLEUM A
0916 300002 2001-02-01	GLAUCONITIC B
0916 300003 2001-02-01	GLAUCONITIC C
0916 300004 2008-05-01	GLAUCONITIC D
0916 300007 2001-02-01	GLAUCONITIC G
0916 300010 2001-10-01	GLAUCONITIC J
0916 300012 2010-04-01	GLAUCONITIC L
0916 300013 2010-04-01	GLAUCONITIC M
0916 300014 2001-02-01	GLAUCONITIC N
0916 300015 2001-02-01	GLAUCONITIC O
0916 300016 2001-02-01	GLAUCONITIC P
0916 300017 2001-02-01	GLAUCONITIC Q
0916 300018 2006-08-01	GLAUCONITIC R
0916 300019 2010-04-01	GLAUCONITIC S
0916 300020 2001-02-01	GLAUCONITIC T
0916 300021 2001-02-01	GLAUCONITIC U
0916 300022 2001-02-01	GLAUCONITIC V
0916 300023 2001-02-01	GLAUCONITIC W
0916 300024 2001-02-01	GLAUCONITIC X
0916 300025 2001-02-01	GLAUCONITIC Y
0916 300026 2003-10-01	GLAUCONITIC Z
0916 300027 2004-04-01	GLAUCONITIC AA
0916 300028 2004-05-01	GLAUCONITIC BB
0916 300029 2004-05-01	GLAUCONITIC CC
0916 300030 2010-04-01	GLAUCONITIC DD
0916 300031 2010-04-01	GLAUCONITIC EE
0916 300032 2005-11-01	GLAUCONITIC FF
0916 300033 2005-05-01	GLAUCONITIC GG
0916 300034 2005-05-01	GLAUCONITIC HH
0916 300035 2005-09-01	GLAUCONITIC II

**POOL DESIGNATION (cont'd)**

0916 300036 2005-12-01	GLAUCONITIC JJ
0916 300037 2006-01-01	GLAUCONITIC KK
0916 300038 2008-05-01	GLAUCONITIC LL
0916 300039 2006-07-01	GLAUCONITIC MM
0916 300040 2006-09-01	GLAUCONITIC NN
0916 300041 2006-09-01	GLAUCONITIC OO
0916 300042 2010-04-01	GLAUCONITIC PP
0916 300043 2007-03-01	GLAUCONITIC QQ
0916 300044 2007-08-01	GLAUCONITIC RR
0916 300045 2007-11-01	GLAUCONITIC SS
0916 300046 2007-11-01	GLAUCONITIC TT
0916 300047 2007-12-01	GLAUCONITIC UU
0916 300048 2007-12-01	GLAUCONITIC VV
0916 300049 2007-12-01	GLAUCONITIC WW
0916 300050 2007-12-01	GLAUCONITIC XX
0916 300051 2007-12-01	GLAUCONITIC YY
0916 300052 2007-12-01	GLAUCONITIC ZZ
0916 300901 2008-04-01	GLAUCONITIC AAA
0916 300902 2008-07-01	GLAUCONITIC BBB
0916 300903 2008-07-01	GLAUCONITIC CCC
0916 300904 2008-07-01	GLAUCONITIC DDD
0916 300905 2008-12-01	GLAUCONITIC EEE
0916 300906 2008-07-01	GLAUCONITIC FFF
0916 300907 2008-07-01	GLAUCONITIC GGG
0916 300908 2008-07-01	GLAUCONITIC HHH
0916 300909 2010-04-01	GLAUCONITIC III
0916 300910 2010-04-01	GLAUCONITIC JJJ
0916 300911 2010-01-01	GLAUCONITIC KKK
0916 300912 2010-01-01	GLAUCONITIC LLL
0916 300913 2010-04-01	GLAUCONITIC MMM
0916 300914 2010-04-01	GLAUCONITIC NNN
0916 300915 2010-06-01	GLAUCONITIC OOO
0916 300916 2012-02-01	GLAUCONITIC PPP
0916 310002 2001-02-01	LOWER MANNVILLE B
0916 310005 2006-10-01	LOWER MANNVILLE E
0916 310006 2010-01-01	LOWER MANNVILLE F

**POOL DESIGNATION (cont'd)**

0916 658001 2008-07-01 WABAMUN A  
0916 659001 2010-04-01 WABAMUN-GRAMINIA A  
0916 696001 2001-02-01 NISKU A  
0916 696002 2001-02-01 NISKU B  
0916 852500 2010-04-01 MFP8525 COLONY

**SPACING PATTERN**

SU 2739 9 May 1996  
SU 2739A 3 Feb 2006

**COMMINGLED PRODUCTION**

MU 6946 22 Jul 2008

**SUBSURFACE DISPOSAL SCHEMES**

App 8091 30 Jan 1997  
Class II  
Archer Resources Ltd.

App 8310C 13 Jan 2010  
Class II  
Perpetual Energy Operation Corp.

**COMPULSORY POOLING**

P 308A 13 Jun 2007  
Section 33-056-16W4  
All zones - Gas  
Paramount Energy Operating Corp.

**COMPULSORY POOLING (cont'd)**

P 339 20 Nov 2007  
Section 13-056-18W4M  
Sparky Member - Gas  
Celtic Exploration Ltd.

**FIELD DESIGNATION**

0922 2009-12-01                      UNWIN FIELD

**POOL DESIGNATION**

0922 202002 2009-09-01          FISH SCALE B  
0922 202003 2009-12-01          FISH SCALE C

0922 211001 2004-10-01          LOWER COLORADO A  
0922 211002 2009-02-01          LOWER COLORADO B  
0922 211003 2010-04-01          LOWER COLORADO C  
0922 211004 2009-12-01          LOWER COLORADO D  
0922 211005 2010-04-01          LOWER COLORADO E  
0922 211007 2009-07-01          LOWER COLORADO G

0922 218001 2010-09-01          VIKING A  
0922 218005 2010-05-01          VIKING E  
0922 218006 2010-06-01          VIKING F

**SPACING PATTERN**

SU 4155            26 Feb 2004  
SU 4155A          28 Jul 2005  
SU 4155B          22 Feb 2006

**COMMINGLED PRODUCTION**

MU 7888          31 May 2011

**FIELD DESIGNATION**

0917 2009-12-01                      UTIKUMA LAKE FIELD

**POOL DESIGNATION**

0917 264001 2006-07-01      SPIRIT RIVER A  
0917 264002 2007-10-01      SPIRIT RIVER B  
0917 264003 2007-10-01      SPIRIT RIVER C  
0917 264004 2007-10-01      SPIRIT RIVER D  
0917 264005 2008-02-01      SPIRIT RIVER E  
0917 264006 2010-04-01      SPIRIT RIVER F  
0917 264007 2008-03-01      SPIRIT RIVER G  
0917 264008 2008-07-01      SPIRIT RIVER H

0917 758001 2001-02-01      SLAVE POINT A  
0917 758002 2001-02-01      SLAVE POINT B  
0917 758003 2006-02-01      SLAVE POINT C  
0917 758004 2001-02-01      SLAVE POINT D  
0917 758005 2001-02-01      SLAVE POINT E  
0917 758006 2001-02-01      SLAVE POINT F  
0917 758007 2001-02-01      SLAVE POINT G  
0917 758008 2001-02-01      SLAVE POINT H  
0917 758009 2001-02-01      SLAVE POINT I  
0917 758010 2001-02-01      SLAVE POINT J  
0917 758011 2001-02-01      SLAVE POINT K  
0917 758012 2001-02-01      SLAVE POINT L  
0917 758013 2002-03-01      SLAVE POINT M

0917 765504 2010-04-01      GILWOOD D  
0917 765505 2008-06-01      GILWOOD E  
0917 765506 2010-04-01      GILWOOD F

0917 773501 2011-01-01      KEG RIVER SAND A  
0917 773508 2010-04-01      KEG RIVER SAND H  
0917 773509 2008-05-01      KEG RIVER SAND I  
0917 773513 2008-05-01      KEG RIVER SAND M  
0917 773514 2010-04-01      KEG RIVER SAND N

**POOL DESIGNATION (cont'd)**

0917 773515 2008-05-01	KEG RIVER SAND O
0917 773516 2008-05-01	KEG RIVER SAND P
0917 773518 2008-05-01	KEG RIVER SAND R
0917 773519 2008-05-01	KEG RIVER SAND S
0917 773520 2008-05-01	KEG RIVER SAND T
0917 773521 2008-05-01	KEG RIVER SAND U
0917 773522 2008-05-01	KEG RIVER SAND V
0917 773527 2010-04-01	KEG RIVER SAND AA
0917 773530 2010-04-01	KEG RIVER SAND DD
0917 773531 2010-04-01	KEG RIVER SAND EE
0917 773534 2008-05-01	KEG RIVER SAND HH
0917 773535 2008-05-01	KEG RIVER SAND II
0917 773536 2008-05-01	KEG RIVER SAND JJ
0917 773537 2008-05-01	KEG RIVER SAND KK
0917 773539 2010-04-01	KEG RIVER SAND MM
0917 773541 2008-05-01	KEG RIVER SAND OO
0917 773545 2008-05-01	KEG RIVER SAND SS
0917 773546 2008-05-01	KEG RIVER SAND TT
0917 773547 2008-05-01	KEG RIVER SAND UU
0917 773548 2008-05-01	KEG RIVER SAND VV
0917 773549 2008-05-01	KEG RIVER SAND WW
0917 773550 2008-05-01	KEG RIVER SAND XX
0917 773551 2008-05-01	KEG RIVER SAND YY
0917 773552 2008-05-01	KEG RIVER SAND ZZ
0917 773602 2010-04-01	KEG RIVER SAND BBB
0917 773603 2008-05-01	KEG RIVER SAND CCC
0917 773605 2010-04-01	KEG RIVER SAND EEE
0917 773606 2008-05-01	KEG RIVER SAND FFF
0917 773607 2008-05-01	KEG RIVER SAND GGG
0917 773608 2008-05-01	KEG RIVER SAND HHH
0917 773609 2008-05-01	KEG RIVER SAND III
0917 773612 2008-05-01	KEG RIVER SAND LLL
0917 773613 2008-05-01	KEG RIVER SAND MMM
0917 773614 2010-01-01	KEG RIVER SAND NNN

**SPACING PATTERN**

SU 4066      26 Feb 2003

**MISCELLANEOUS ORDERS**

MISC 95081 25 May 1995  
MISC 95081A 19 Sep 2000  
Min. operating pressure  
Keg River Sandstone A, M & N

**ENHANCED RECOVERY SCHEMES**

App 4407B 12 Jul 2005  
Waterflood  
Gilwood D  
Vermilion Resources Ltd.

App 6003C 11 Feb 2011  
Waterflood  
Keg River Sandstone A  
Penn West Petroleum Ltd.

App 7837D 9 Feb 2007  
Waterflood  
Keg River Sandstone N  
Celtic Exploration Ltd.

App 8098C 6 Oct 2008  
Waterflood  
Keg River Sand EEE  
Vermilion Resources Ltd.

App 8099D 6 Oct 2008  
Waterflood  
Keg River Sand BBB  
Vermilion Resources Ltd.

App 9948 7 Jul 2004  
Waterflood  
Keg River Sand U, DD, MM, YY  
Vermilion Resources Ltd.

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

App 10841A 12 Jun 2007  
Waterflood  
Keg River Sand M  
Vermilion Resources Ltd.

App 11092 3 Nov 2008  
Waterflood  
Keg River Sand A  
Vermilion Resources Ltd.

**SUBSURFACE DISPOSAL SCHEMES**

App 5177 26 Oct 1987  
Class II  
Newalta Corporation

App 10958C 15 Aug 2011  
Class II  
Penn West Petroleum Ltd.

App 10977A 3 Nov 2008  
Class II  
Vermilion Resources Ltd.

App 11159B 12 Mar 2009  
Class II  
Alka Resources Ltd.