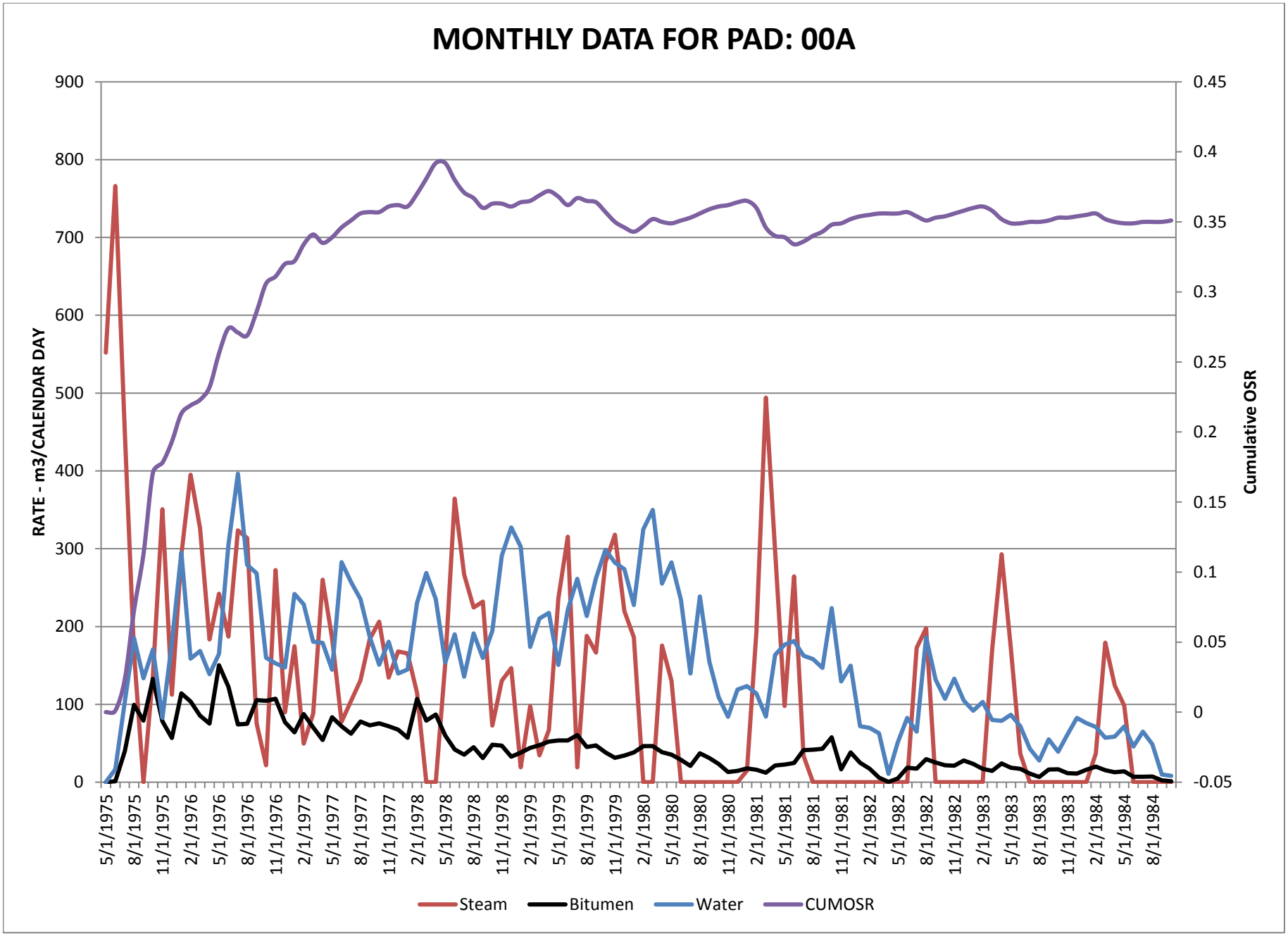
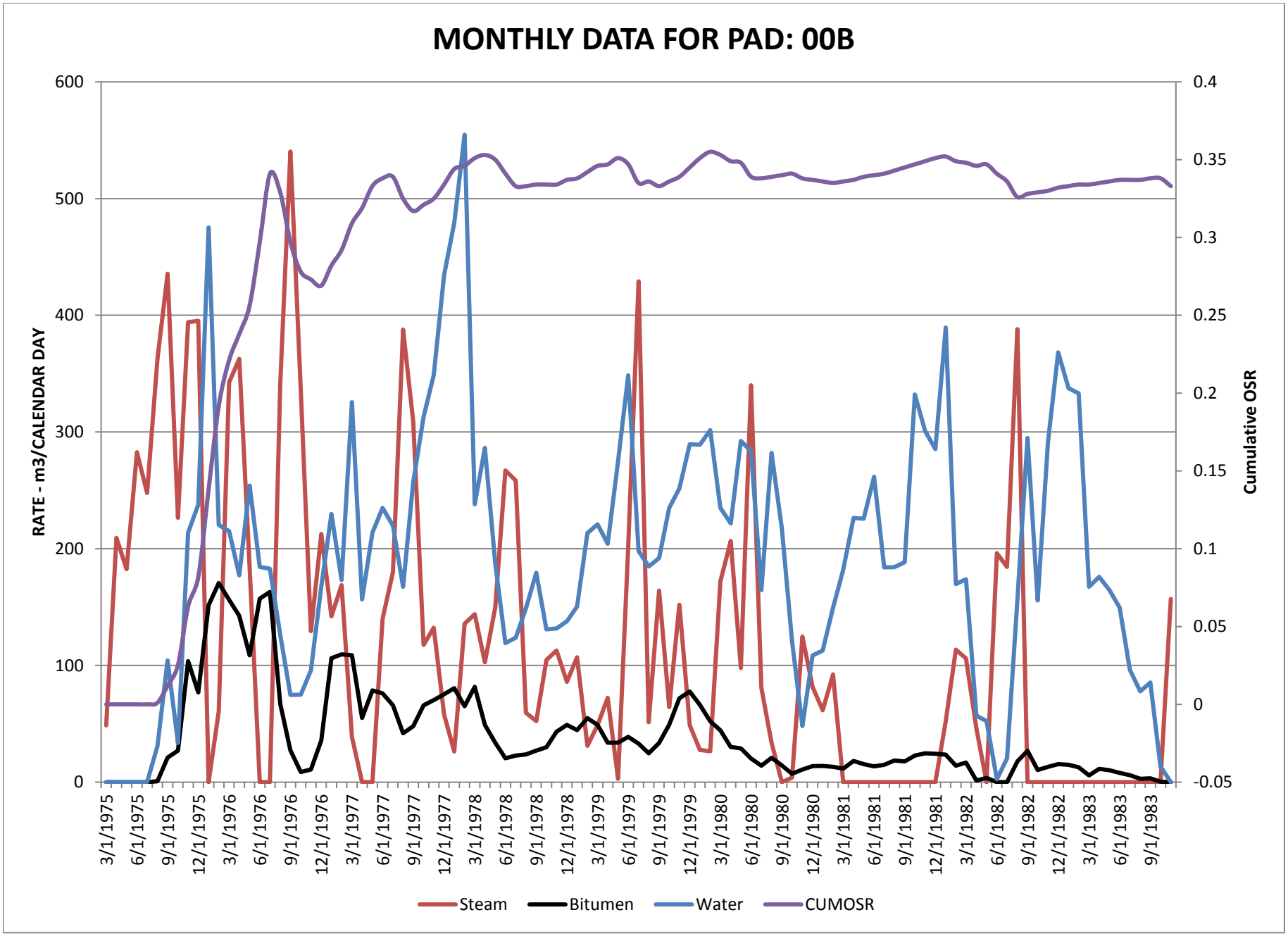
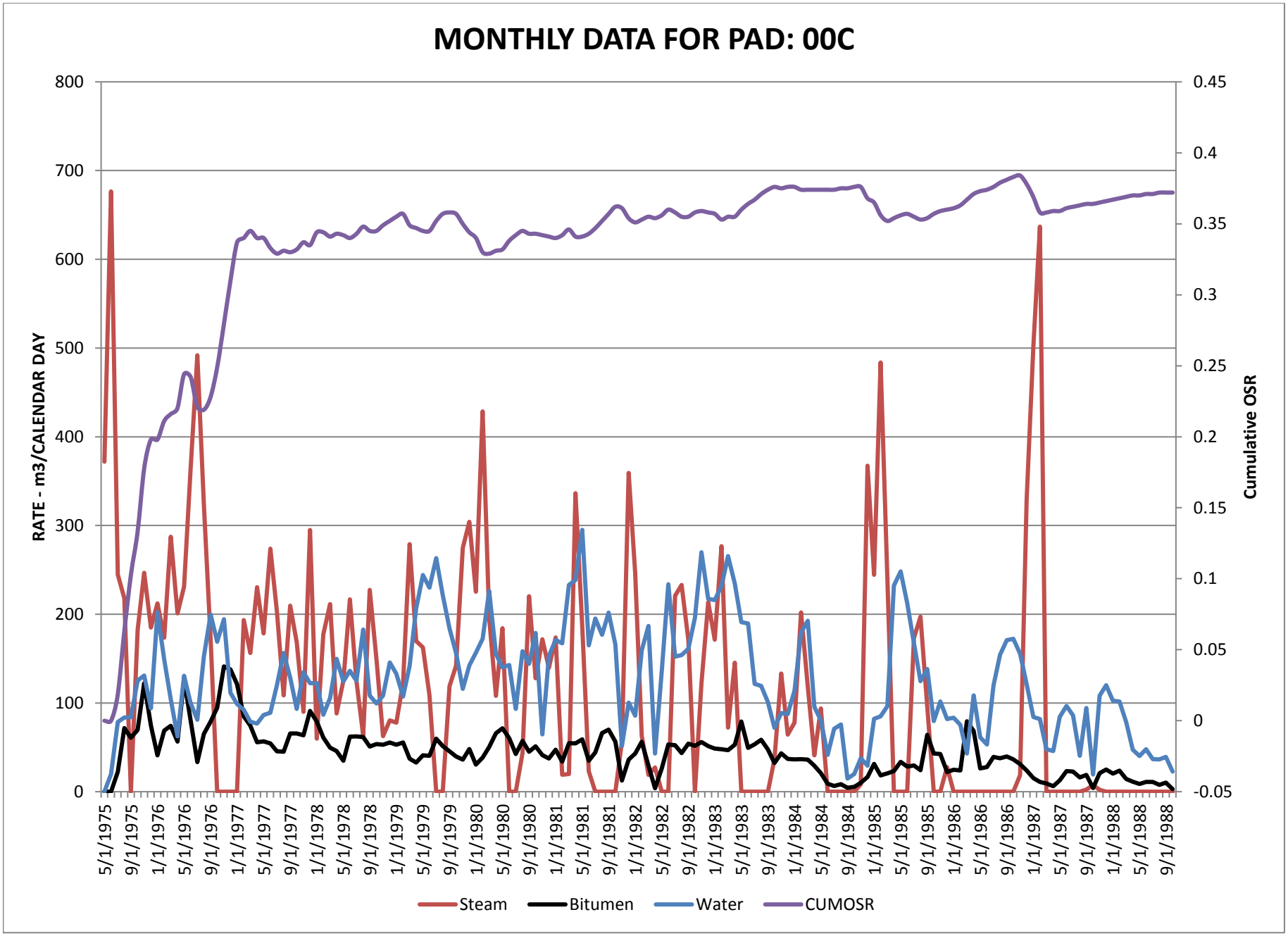
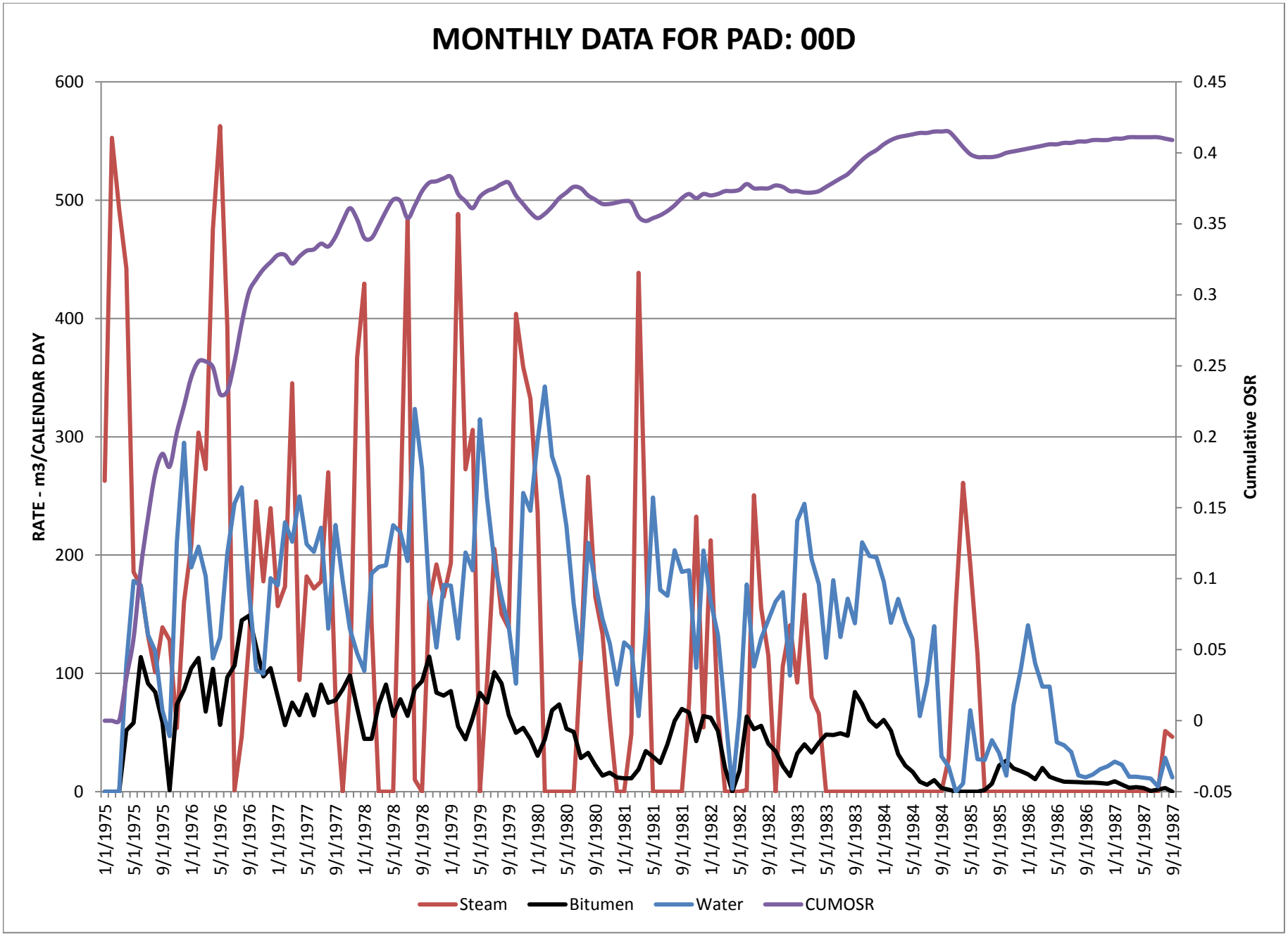
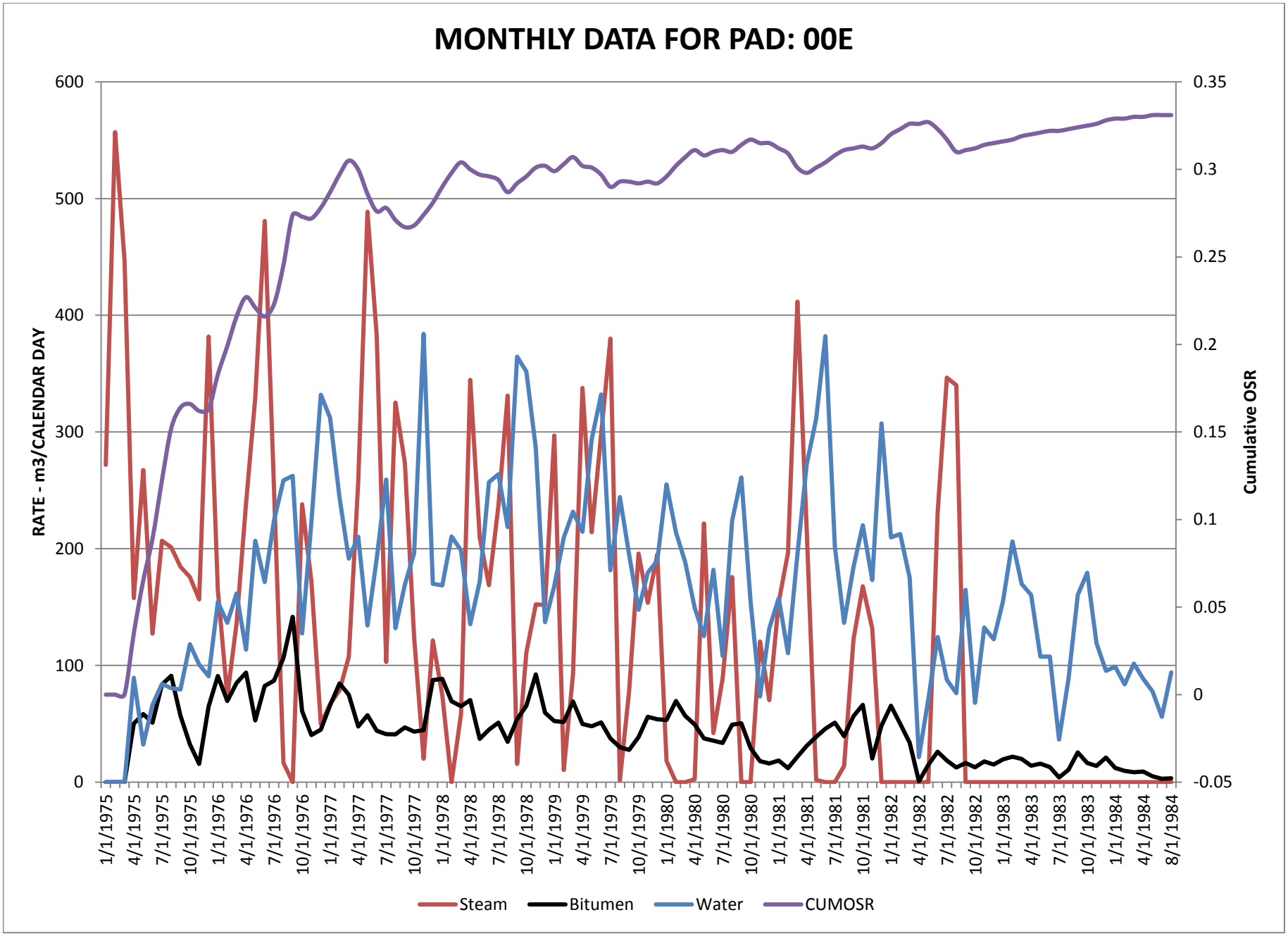
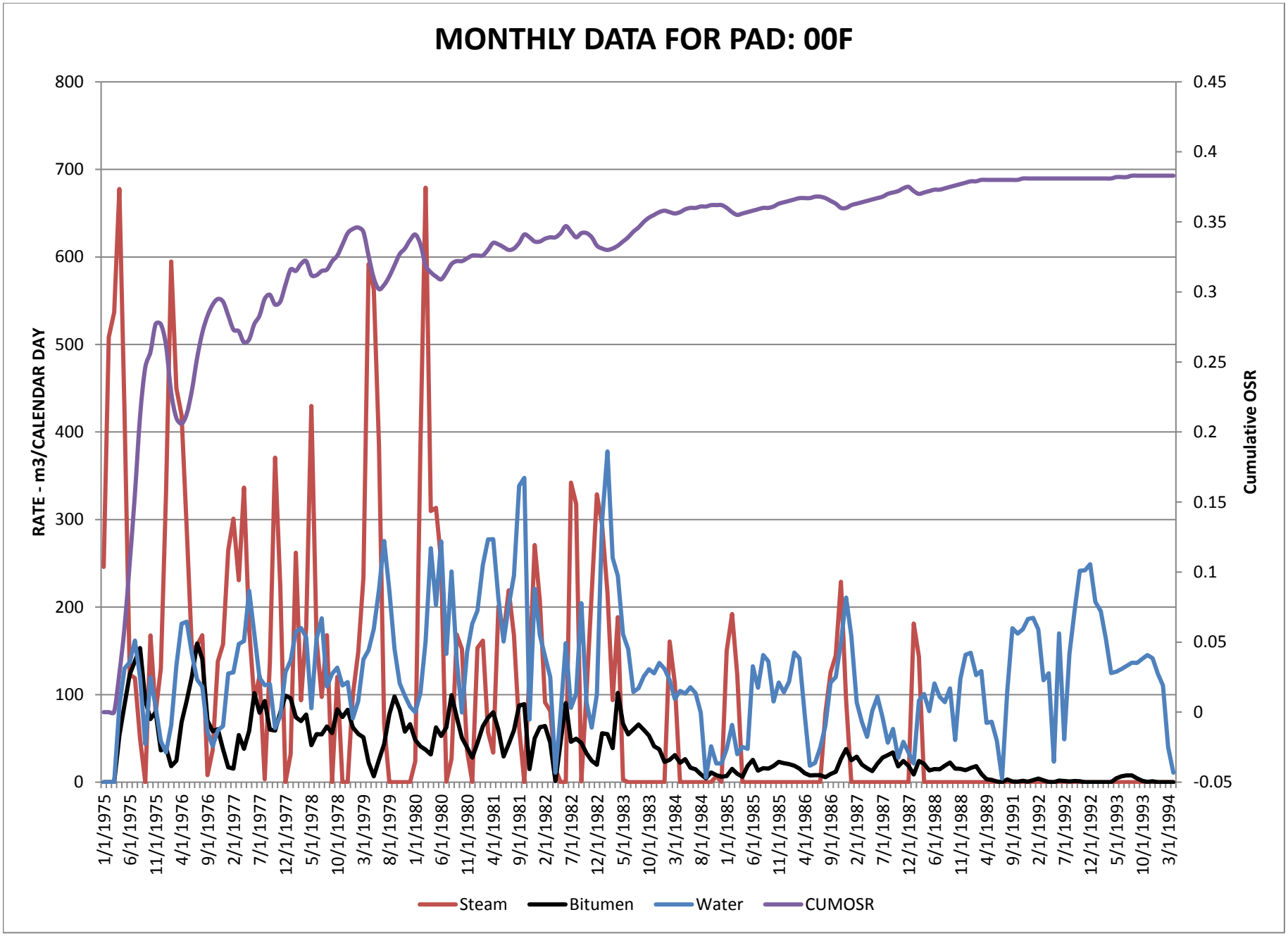

MONTHLY DATA FOR PAD: 00A
RATE - m3/CALENDAR DAY
Cumulative OSR
900
800
700
600
500
400
300
200
100
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1975
8/1/1975
11/1/1975
2/1/1976
5/1/1976
8/1/1976
11/1/1976
2/1/1977
5/1/1977
8/1/1977
11/1/1977
2/1/1978
5/1/1978
8/1/1978
11/1/1978
2/1/1979
5/1/1979
8/1/1979
11/1/1979
2/1/1980
5/1/1980
8/1/1980
11/1/1980
2/1/1981
5/1/1981
8/1/1981
11/1/1981
2/1/1982
5/1/1982
8/1/1982
11/1/1982
2/1/1983
5/1/1983
8/1/1983
11/1/1983
2/1/1984
5/1/1984
8/1/1984
Steam
Bitumen
Water
CUMOSR

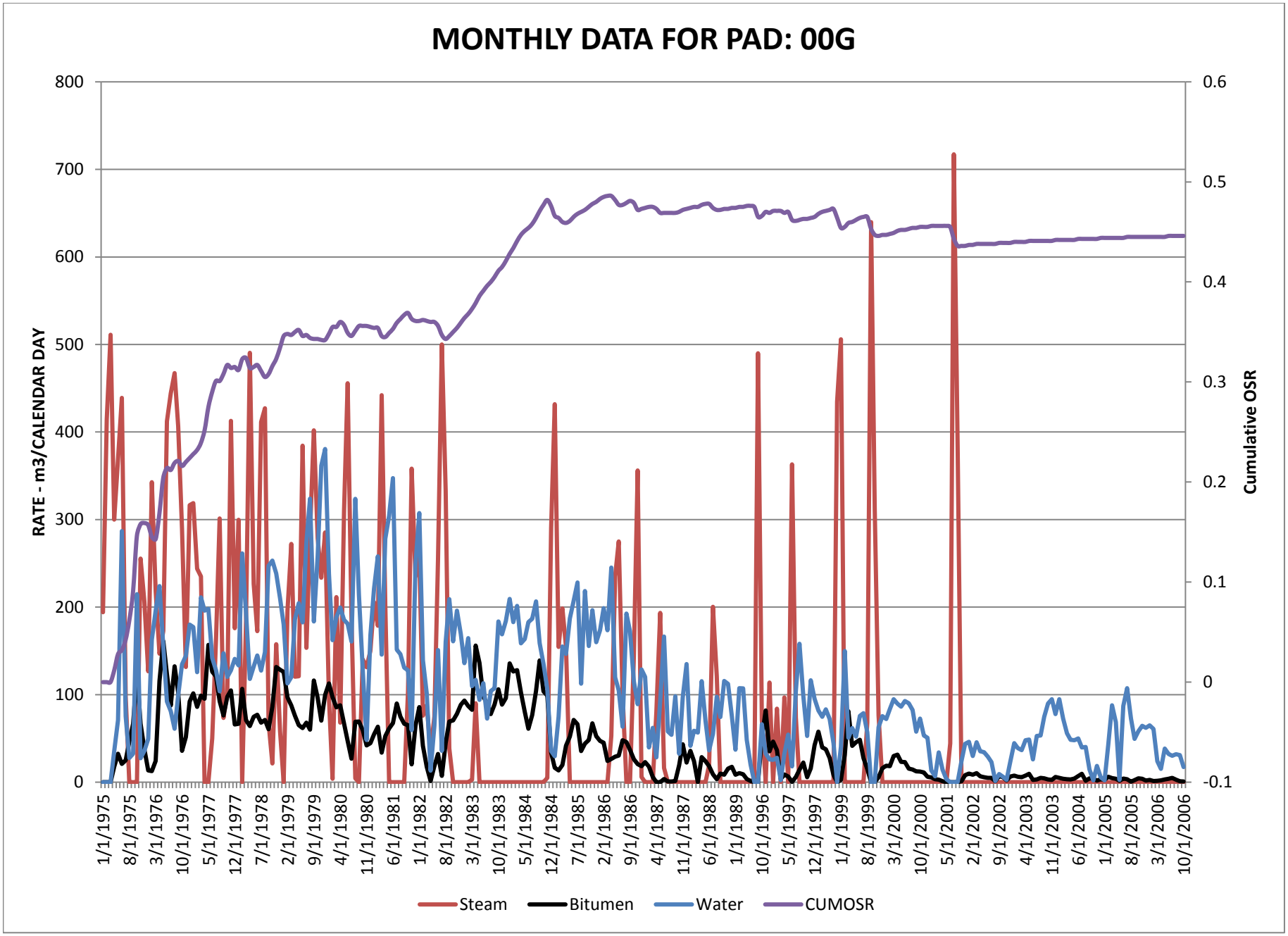

MONTHLY DATA FOR PAD: 00B
RATE - m3/CALENDAR DAY
Cumulative OSR
600
500
400
300
200
100
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/1975
6/1/1975
9/1/1975
12/1/1975
3/1/1976
6/1/1976
9/1/1976
12/1/1976
3/1/1977
6/1/1977
9/1/1977
12/1/1977
3/1/1978
6/1/1978
9/1/1978
12/1/1978
3/1/1979
6/1/1979
9/1/1979
12/1/1979
3/1/1980
6/1/1980
9/1/1980
12/1/1980
3/1/1981
6/1/1981
9/1/1981
12/1/1981
3/1/1982
6/1/1982
9/1/1982
12/1/1982
3/1/1983
6/1/1983
9/1/1983
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00C
RATE - m3/CALENDAR DAY
Cumulative OSR
800
700
600
500
400
300
200
100
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1975
9/1/1975
1/1/1976
5/1/1976
9/1/1976
1/1/1977
5/1/1977
9/1/1977
1/1/1978
5/1/1978
9/1/1978
1/1/1979
5/1/1979
9/1/1979
1/1/1980
5/1/1980
9/1/1980
1/1/1981
5/1/1981
9/1/1981
1/1/1982
5/1/1982
9/1/1982
1/1/1983
5/1/1983
9/1/1983
1/1/1984
5/1/1984
9/1/1984
1/1/1985
5/1/1985
9/1/1985
1/1/1986
5/1/1986
9/1/1986
1/1/1987
5/1/1987
9/1/1987
1/1/1988
5/1/1988
9/1/1988
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00D
RATE - m3/CALENDAR DAY
Cumulative OSR
600
500
400
300
200
100
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
1/1/1975
5/1/1975
9/1/1975
1/1/1976
5/1/1976
9/1/1976
1/1/1977
5/1/1977
9/1/1977
1/1/1978
5/1/1978
9/1/1978
1/1/1979
5/1/1979
9/1/1979
1/1/1980
5/1/1980
9/1/1980
1/1/1981
5/1/1981
9/1/1981
1/1/1982
5/1/1982
9/1/1982
1/1/1983
5/1/1983
9/1/1983
1/1/1984
5/1/1984
9/1/1984
5/1/1985
9/1/1985
1/1/1986
5/1/1986
9/1/1986
1/1/1987
5/1/1987
9/1/1987
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00E
RATE - m3/CALENDAR DAY
Cumulative OSR
600
500
400
300
200
100
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
1/1/1975
4/1/1975
7/1/1975
10/1/1975
1/1/1976
4/1/1976
7/1/1976
10/1/1976
1/1/1977
4/1/1977
7/1/1977
10/1/1977
1/1/1978
4/1/1978
7/1/1978
10/1/1978
1/1/1979
4/1/1979
7/1/1979
10/1/1979
1/1/1980
4/1/1980
7/1/1980
10/1/1980
1/1/1981
4/1/1981
7/1/1981
10/1/1981
1/1/1982
4/1/1982
7/1/1982
10/1/1982
1/1/1983
4/1/1983
7/1/1983
10/1/1983
1/1/1984
4/1/1984
8/1/1984
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00F
RATE - m3/CALENDAR DAY
Cumulative OSR
800
700
600
500
400
300
200
100
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
1/1/1975
6/1/1975
11/1/1975
4/1/1976
9/1/1976
2/1/1977
7/1/1977
12/1/1977
5/1/1978
10/1/1978
3/1/1979
8/1/1979
1/1/1980
6/1/1980
11/1/1980
4/1/1981
9/1/1981
2/1/1982
7/1/1982
12/1/1982
5/1/1983
10/1/1983
3/1/1984
8/1/1984
1/1/1985
6/1/1985
11/1/1985
4/1/1986
9/1/1986
2/1/1987
7/1/1987
12/1/1987
6/1/1988
11/1/1988
4/1/1989
9/1/1991
2/1/1992
7/1/1992
12/1/1992
5/1/1993
10/1/1993
3/1/1994
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00G
RATE - m3/CALENDAR DAY
Cumulative OSR
800
700
600
500
400
300
200
100
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
1/1/1975
8/1/1975
3/1/1976
10/1/1976
5/1/1977
12/1/1977
7/1/1978
2/1/1979
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4/1/1980
11/1/1980
6/1/1981
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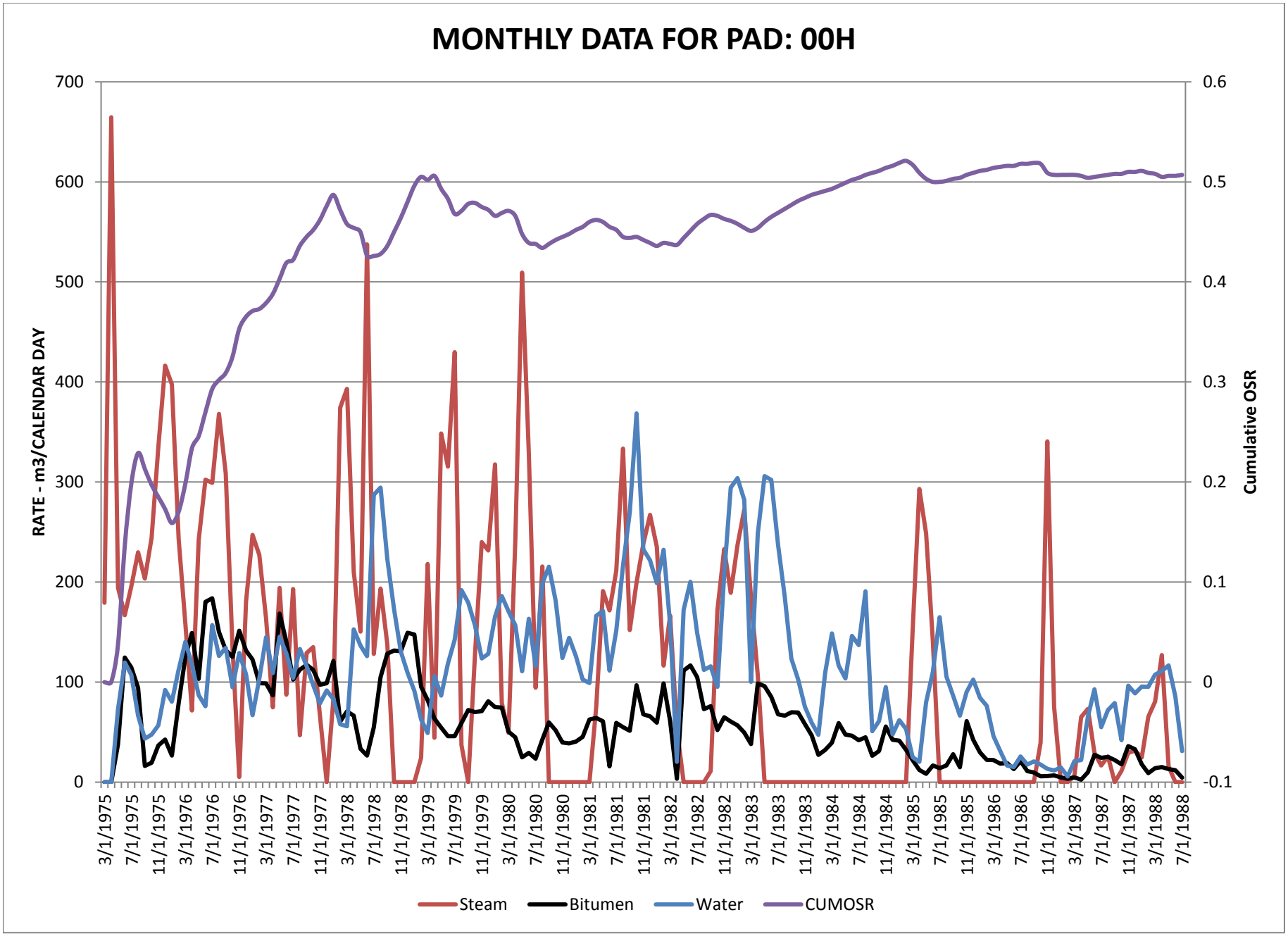
3/1/1983
10/1/1983
5/1/1984
12/1/1984
7/1/1985
2/1/1986
9/1/1986
4/1/1987
11/1/1987
6/1/1988
1/1/1989
10/1/1996
5/1/1997
12/1/1997
1/1/1999
8/1/1999
3/1/2000
10/1/2000
5/1/2001
2/1/2002
9/1/2002
4/1/2003
11/1/2003
6/1/2004
1/1/2005
8/1/2005
3/1/2006
10/1/2006
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00H
RATE - m3/CALENDAR DAY
Cumulative OSR
700
600
500
400
300
200
100
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
3/1/1975
7/1/1975
11/1/1975
3/1/1976
7/1/1976
11/1/1976
3/1/1977
7/1/1977
11/1/1977
3/1/1978
7/1/1978
11/1/1978
3/1/1979
7/1/1979
11/1/1979
3/1/1980
7/1/1980
11/1/1980
3/1/1981
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11/1/1981
3/1/1982
7/1/1982
11/1/1982
3/1/1983
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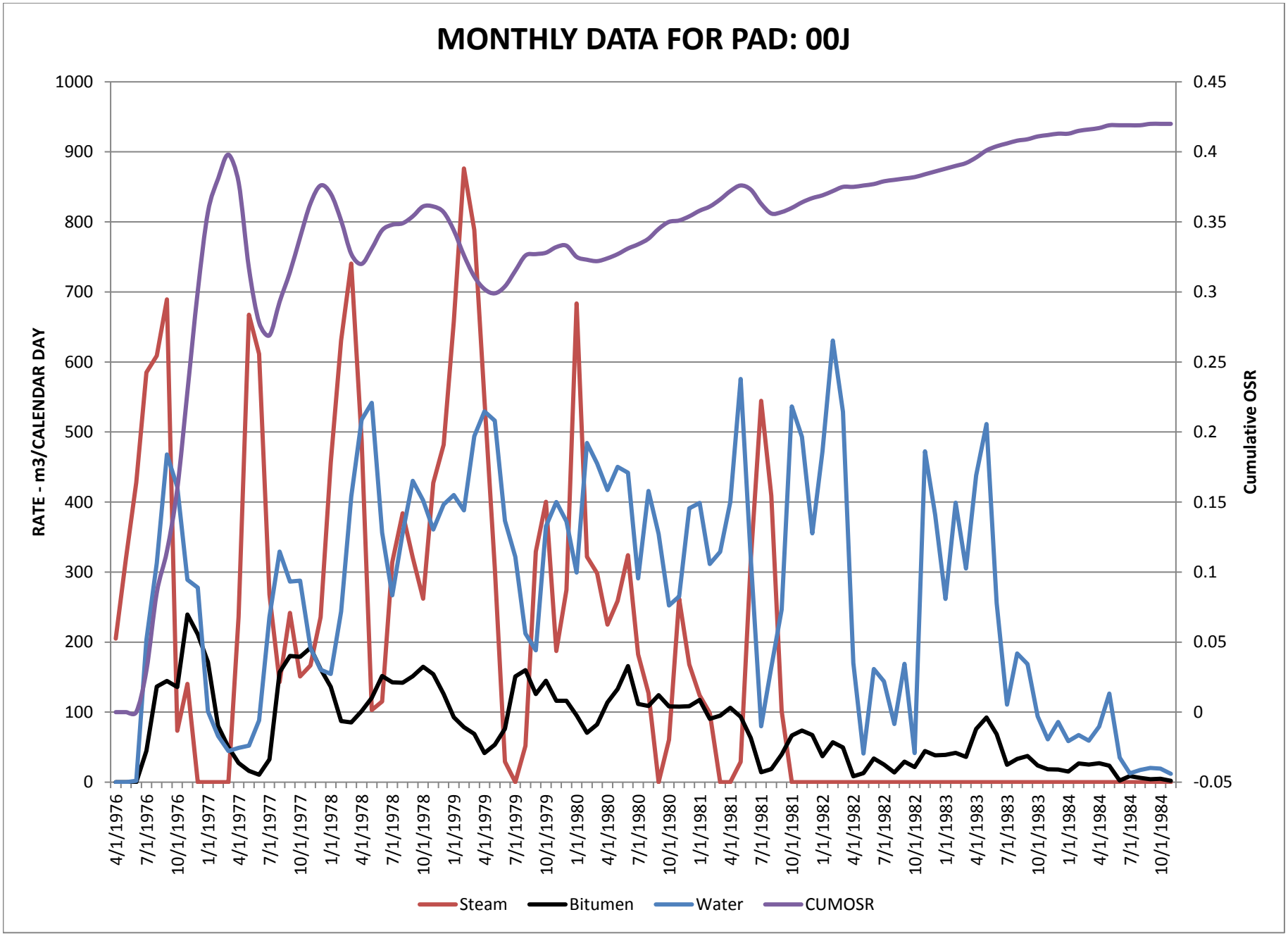
11/1/1983
3/1/1984
7/1/1984
11/1/1984
3/1/1985
7/1/1985
11/1/1985
3/1/1986
7/1/1986
11/1/1986
3/1/1987
7/1/1987
11/1/1987
3/1/1988
7/1/1988
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00J
RATE - m3/CALENDAR DAY
Cumulative OSR
1000
900
800
700
600
500
400
300
200
100
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/1976
7/1/1976
10/1/1976
1/1/1977
4/1/1977
7/1/1977
10/1/1977
1/1/1978
4/1/1978
7/1/1978
10/1/1978
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7/1/1979
10/1/1979
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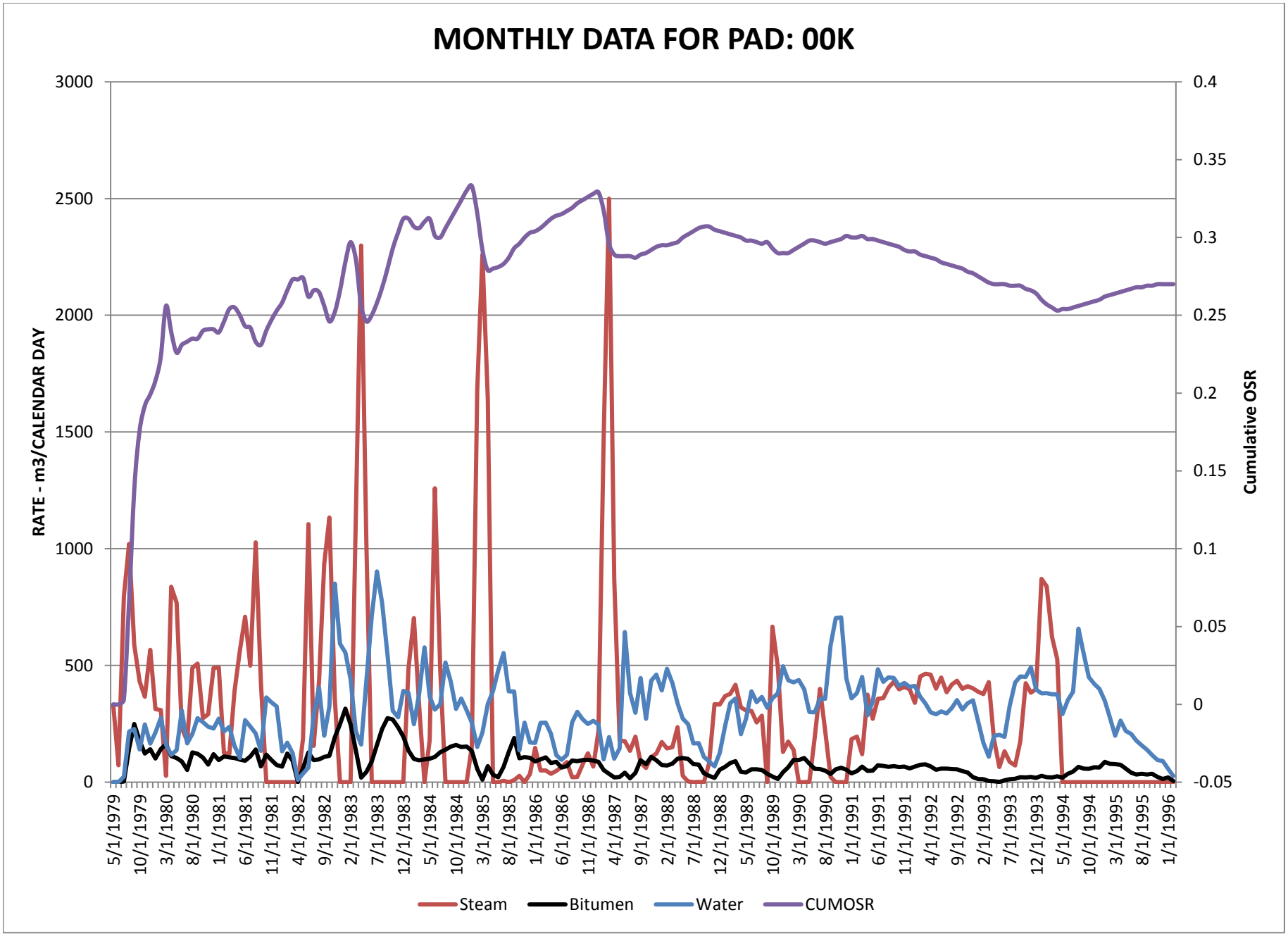
7/1/1980
10/1/1980
1/1/1981
4/1/1981
7/1/1981
10/1/1981
1/1/1982
4/1/1982
7/1/1982
10/1/1982
1/1/1983
4/1/1983
7/1/1983
10/1/1983
1/1/1984
4/1/1984
7/1/1984
10/1/1984
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00K
RATE - m3/CALENDAR DAY
Cumulative OSR
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1979
10/1/1979
3/1/1980
8/1/1980
1/1/1981
6/1/1981
11/1/1981
4/1/1982
9/1/1982
2/1/1983
7/1/1983
12/1/1983
5/1/1984
10/1/1984
3/1/1985
8/1/1985
1/1/1986
6/1/1986
11/1/1986
4/1/1987
9/1/1987
2/1/1988
7/1/1988
12/1/1988
5/1/1989
10/1/1989
3/1/1990
8/1/1990
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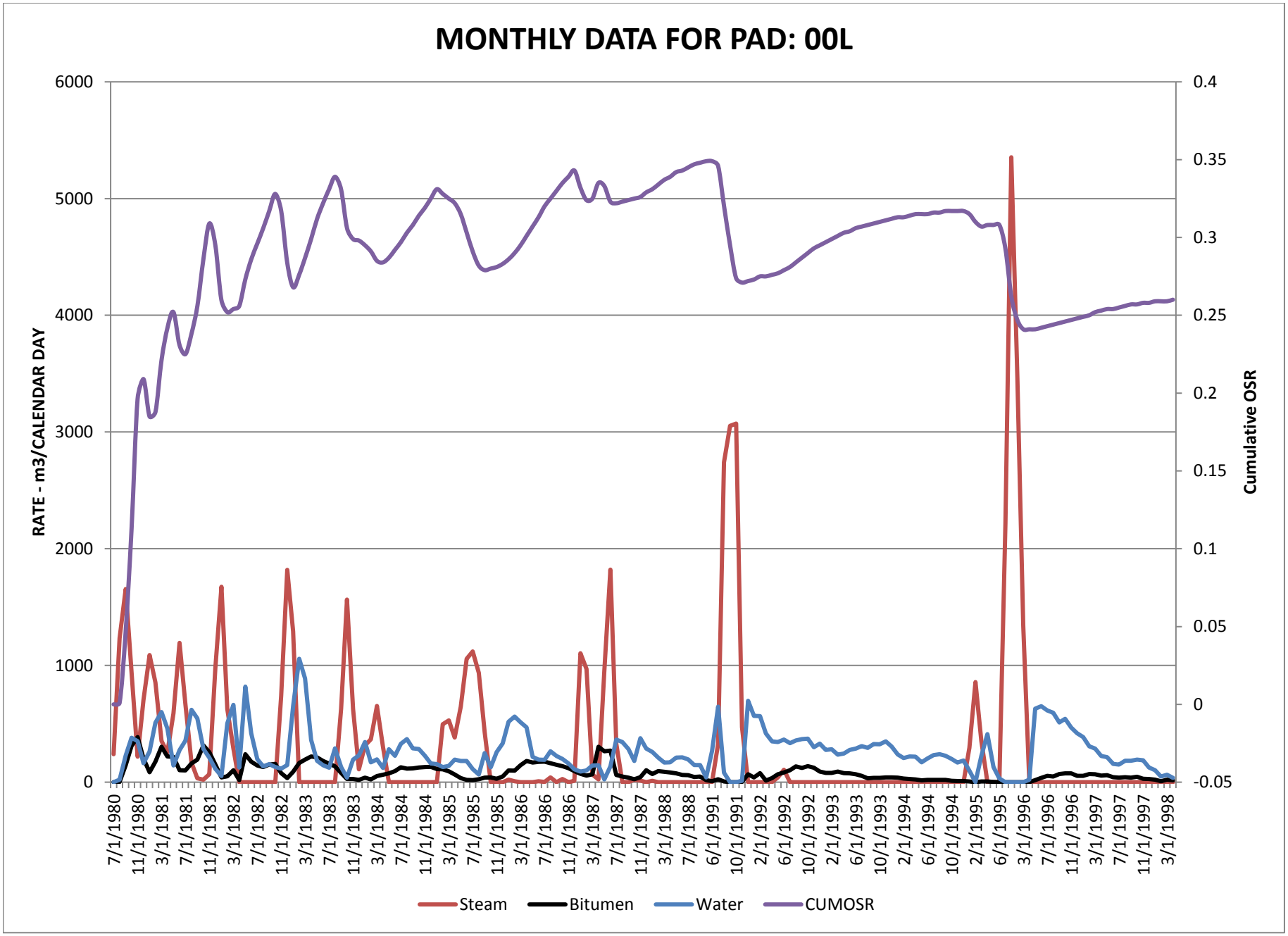
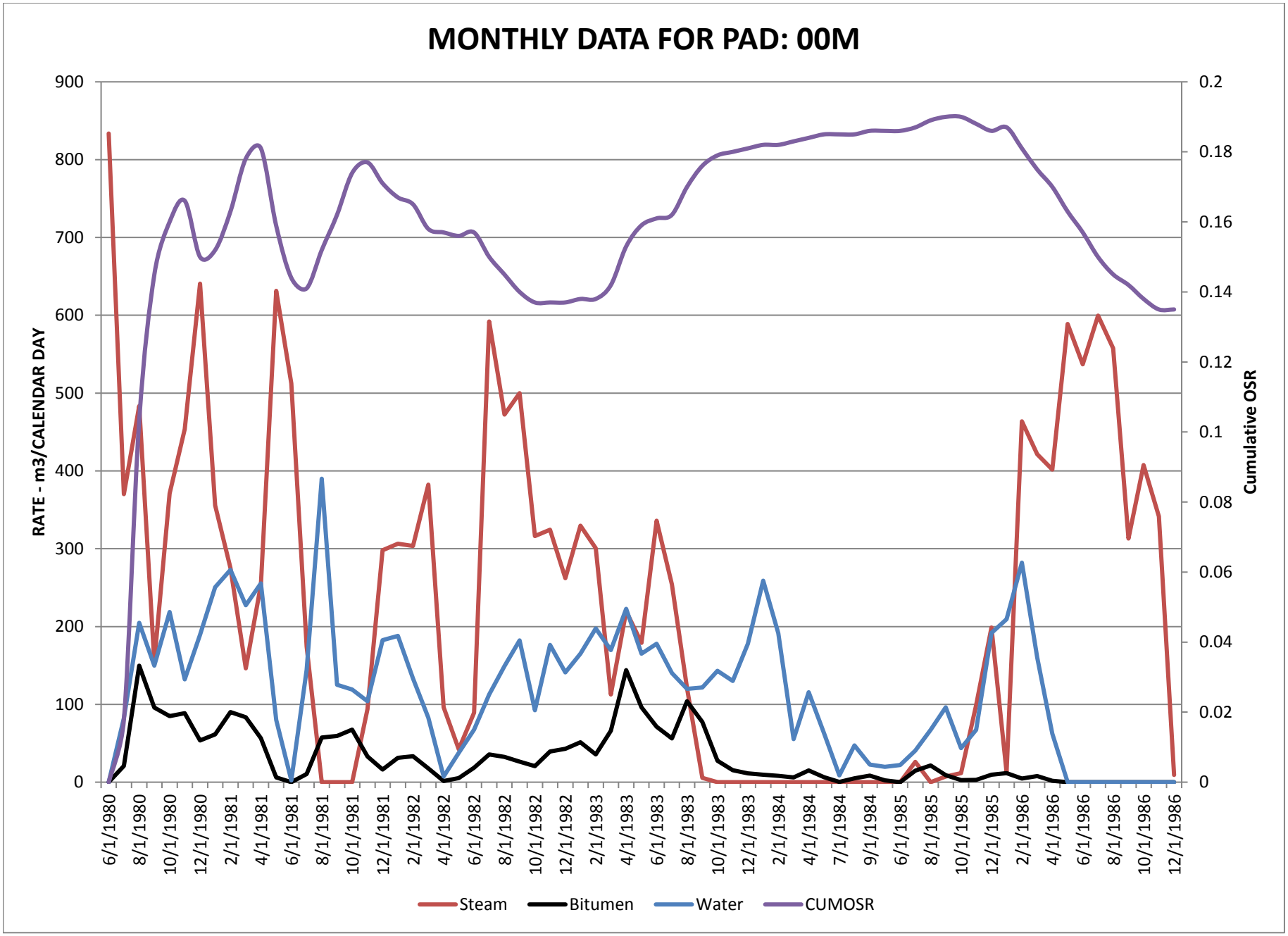
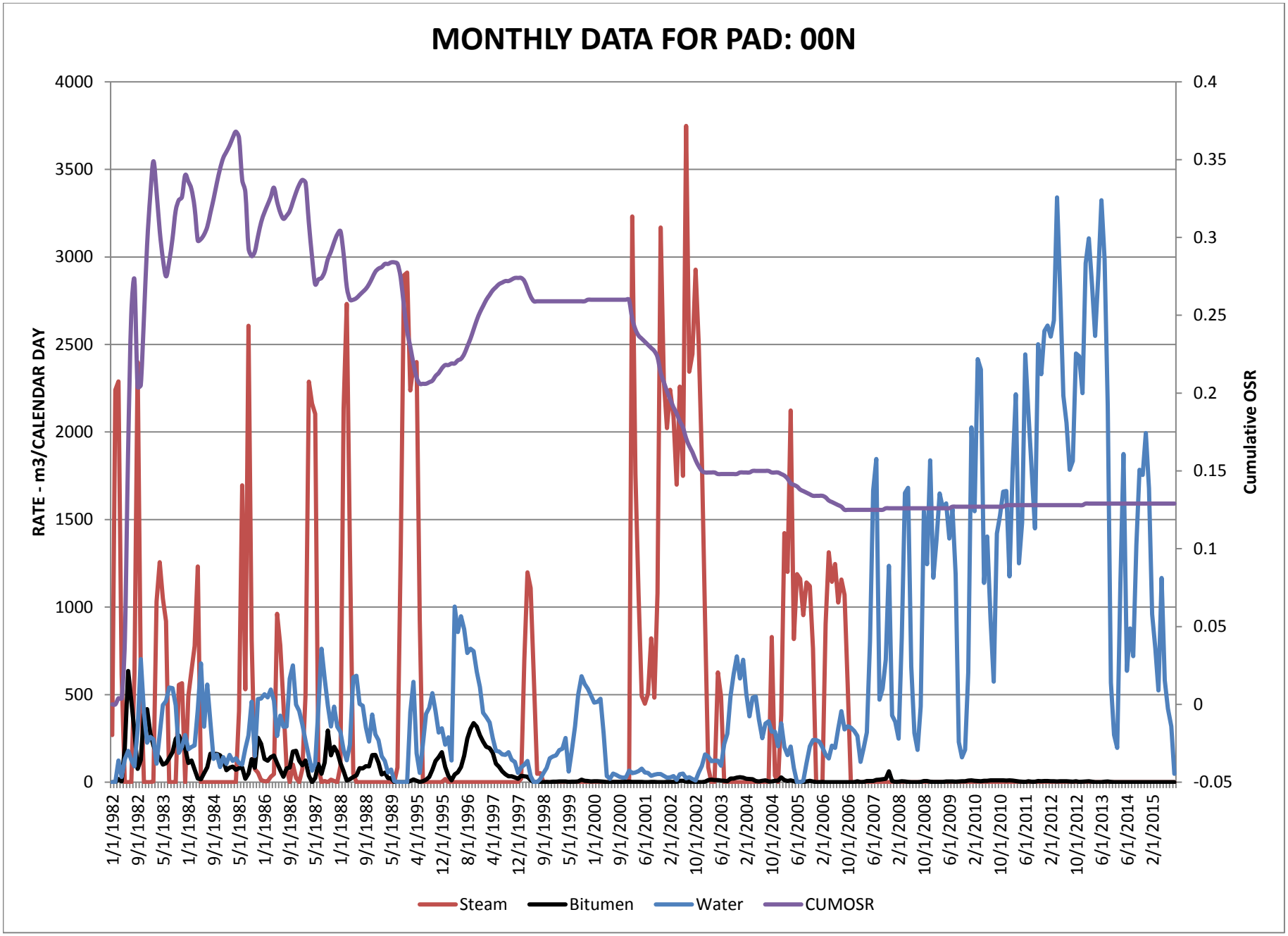
6/1/1991
11/1/1991
4/1/1992
9/1/1992
2/1/1993
7/1/1993
12/1/1993
5/1/1994
10/1/1994
3/1/1995
8/1/1995
1/1/1996
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00L
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
7/1/1980
11/1/1980
3/1/1981
7/1/1981
11/1/1981
3/1/1982
7/1/1982
11/1/1982
3/1/1983
7/1/1983
11/1/1983
3/1/1984
7/1/1984
11/1/1984
3/1/1985
7/1/1985
11/1/1985
3/1/1986
7/1/1986
11/1/1986
3/1/1987
7/1/1987
11/1/1987
3/1/1988
7/1/1988
6/1/1991
10/1/1991
2/1/1992
6/1/1992
10/1/1992
2/1/1993
6/1/1993
10/1/1993
2/1/1994
6/1/1994
10/1/1994
2/1/1995
6/1/1995
3/1/1996
7/1/1996
11/1/1996
3/1/1997
7/1/1997
11/1/1997
3/1/1998
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00M
RATE - m3/CALENDAR DAY
Cumulative OSR
900
800
700
600
500
400
300
200
100
0
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6/1/1980
8/1/1980
10/1/1980
12/1/1980
2/1/1981
4/1/1981
6/1/1981
8/1/1981
10/1/1981
12/1/1981
2/1/1982
4/1/1982
6/1/1982
8/1/1982
10/1/1982
12/1/1982
2/1/1983
4/1/1983
6/1/1983
8/1/1983
10/1/1983
12/1/1983
2/1/1984
4/1/1984
7/1/1984
9/1/1984
6/1/1985
8/1/1985
10/1/1985
12/1/1985
2/1/1986
4/1/1986
6/1/1986
8/1/1986
10/1/1986
12/1/1986
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00N
RATE - m3/CALENDAR DAY
Cumulative OSR
4000
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
1/1/1982
9/1/1982
5/1/1983
1/1/1984
9/1/1984
5/1/1985
1/1/1986
9/1/1986
5/1/1987
1/1/1988
9/1/1988
5/1/1989
4/1/1995
12/1/1995
8/1/1996
4/1/1997
12/1/1997
9/1/1998
5/1/1999
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9/1/2000
6/1/2001
2/1/2002
10/1/2002
6/1/2003
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6/1/2005
2/1/2006
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6/1/2007
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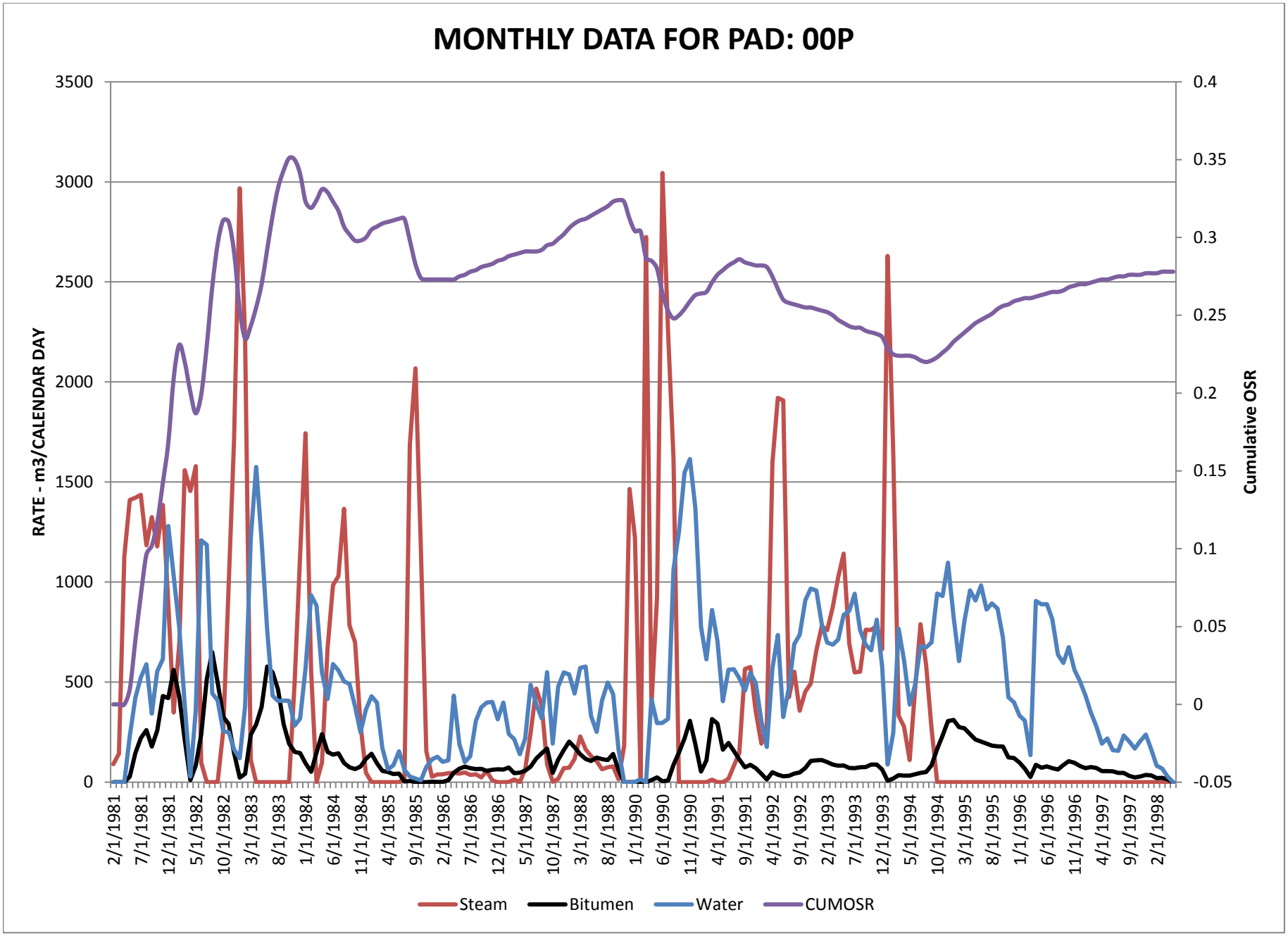
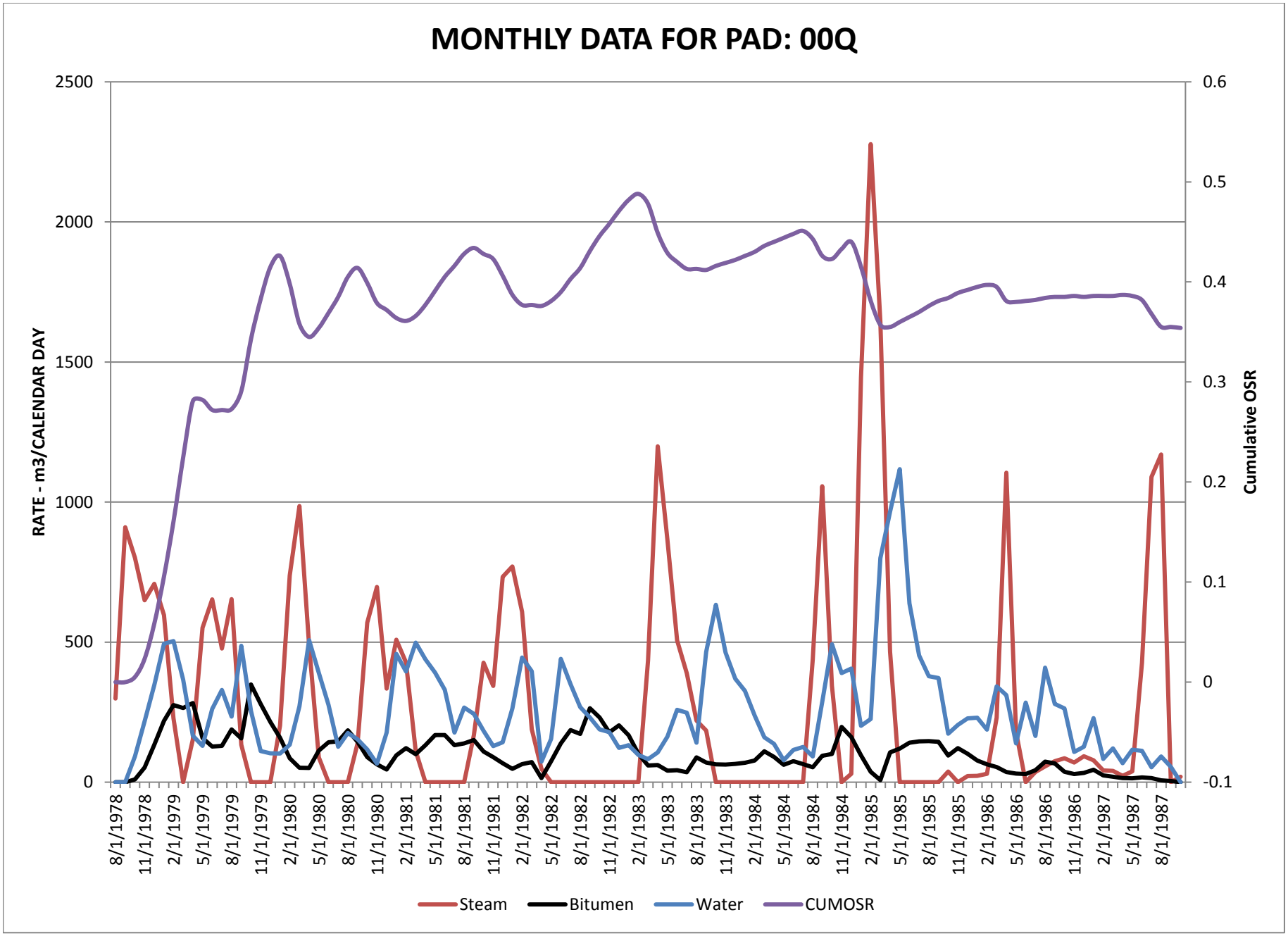
6/1/2009
2/1/2010
10/1/2010
6/1/2011
2/1/2012
10/1/2012
6/1/2013
6/1/2014
2/1/2015
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00P
RATE - m3/CALENDAR DAY
Cumulative OSR
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
2/1/1981
7/1/1981
12/1/1981
5/1/1982
10/1/1982
3/1/1983
8/1/1983
1/1/1984
6/1/1984
11/1/1984
4/1/1985
9/1/1985
2/1/1986
7/1/1986
12/1/1986
5/1/1987
10/1/1987
3/1/1988
8/1/1988
1/1/1990
6/1/1990
11/1/1990
4/1/1991
9/1/1991
4/1/1992
9/1/1992
2/1/1993
7/1/1993
12/1/1993
5/1/1994
10/1/1994
3/1/1995
8/1/1995
1/1/1996
6/1/1996
11/1/1996
4/1/1997
9/1/1997
2/1/1998
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00Q
RATE - m3/CALENDAR DAY
Cumulative OSR
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
8/1/1978
11/1/1978
2/1/1979
5/1/1979
8/1/1979
11/1/1979
2/1/1980
5/1/1980
8/1/1980
11/1/1980
2/1/1981
5/1/1981
8/1/1981
11/1/1981
2/1/1982
5/1/1982
8/1/1982
11/1/1982
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8/1/1983
11/1/1983
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8/1/1984
11/1/1984
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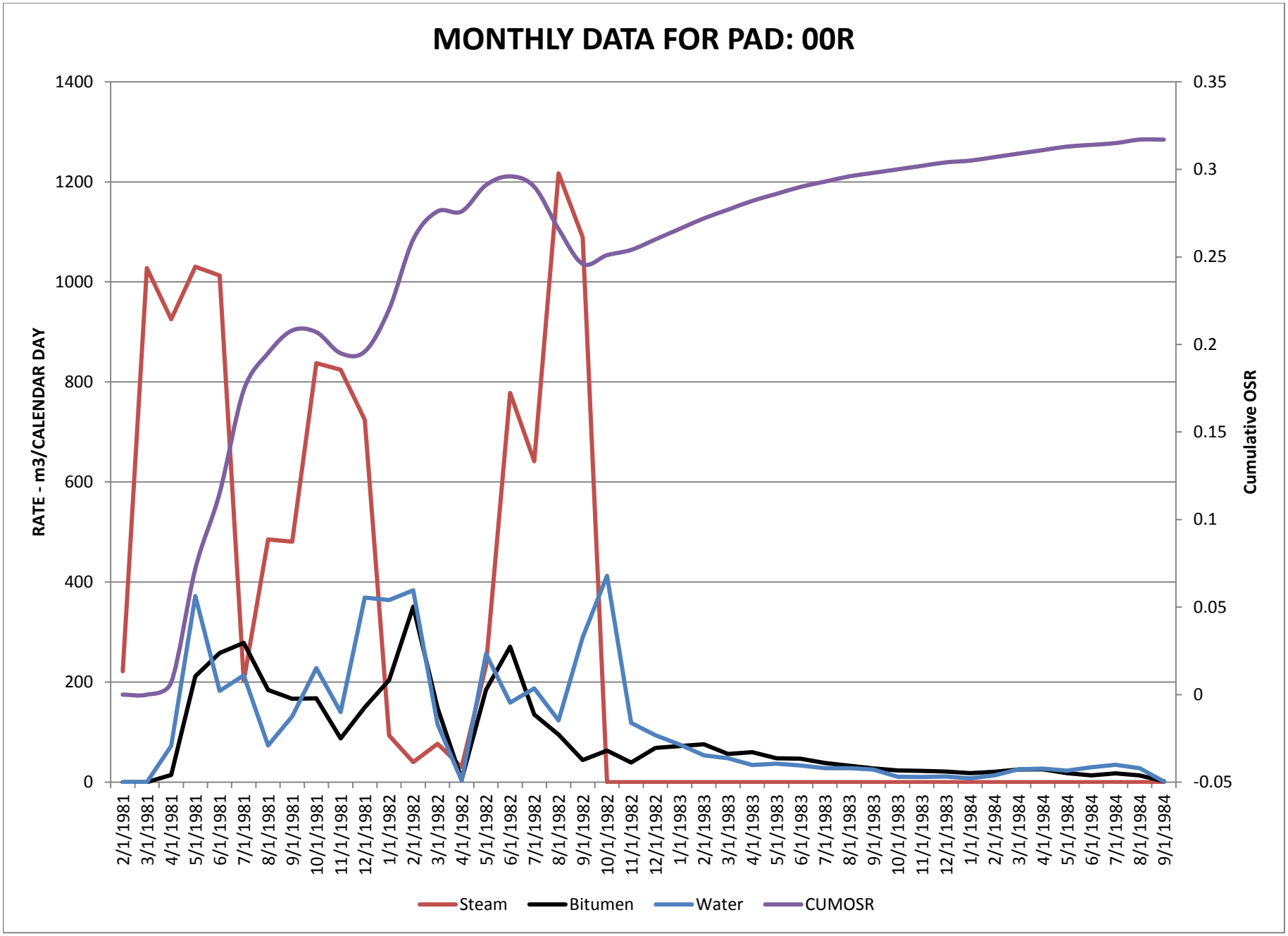
5/1/1985
8/1/1985
11/1/1985
2/1/1986
5/1/1986
8/1/1986
11/1/1986
2/1/1987
5/1/1987
8/1/1987
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00R
RATE - m3/CALENDAR DAY
Cumulative OSR
1400
1200
1000
800
600
400
200
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
2/1/1981
3/1/1981
4/1/1981
5/1/1981
6/1/1981
7/1/1981
8/1/1981
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4/1/1982
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7/1/1982
8/1/1982
9/1/1982
10/1/1982
11/1/1982
12/1/1982
1/1/1983
2/1/1983
3/1/1983
4/1/1983
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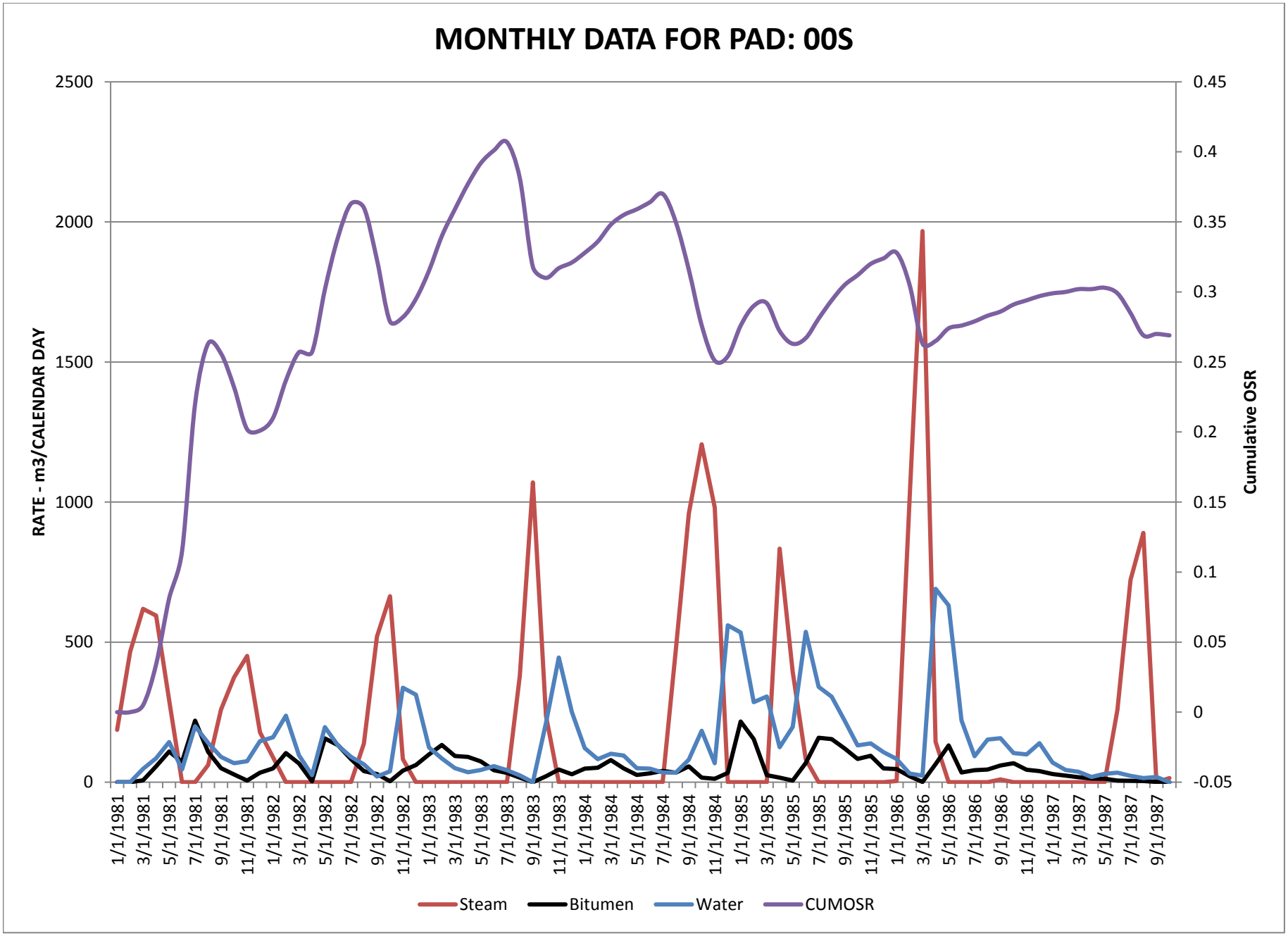
7/1/1983
8/1/1983
9/1/1983
10/1/1983
11/1/1983
12/1/1983
1/1/1984
2/1/1984
3/1/1984
4/1/1984
5/1/1984
6/1/1984
7/1/1984
8/1/1984
9/1/1984
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00S
RATE - m3/CALENDAR DAY
Cumulative OSR
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
1/1/1981
3/1/1981
5/1/1981
7/1/1981
9/1/1981
11/1/1981
1/1/1982
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11/1/1982
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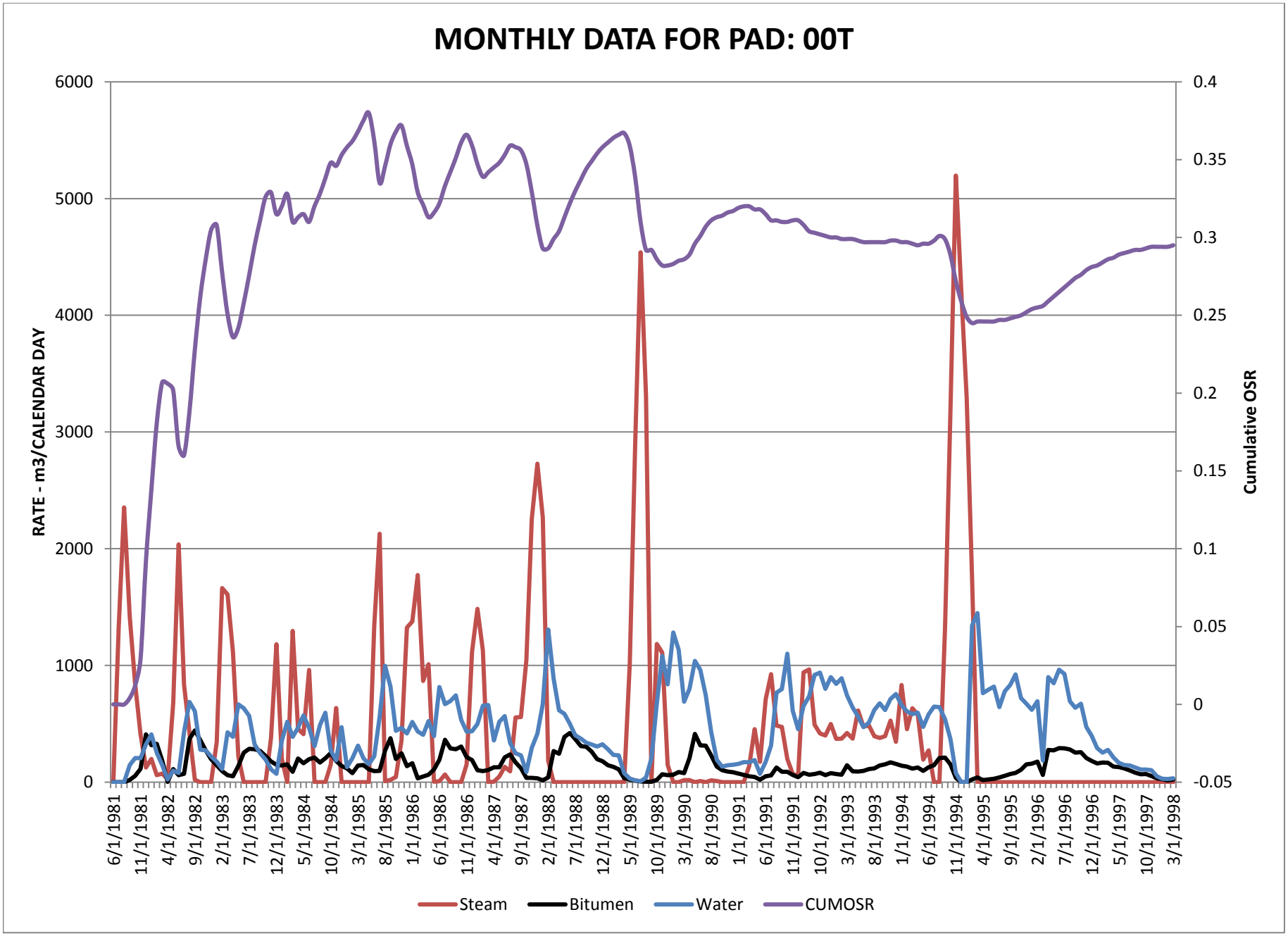
3/1/1984
5/1/1984
7/1/1984
9/1/1984
11/1/1984
1/1/1985
3/1/1985
5/1/1985
7/1/1985
9/1/1985
11/1/1985
1/1/1986
3/1/1986
5/1/1986
7/1/1986
9/1/1986
11/1/1986
1/1/1987
3/1/1987
5/1/1987
7/1/1987
9/1/1987
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00T
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/1981
11/1/1981
4/1/1982
9/1/1982
2/1/1983
7/1/1983
12/1/1983
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3/1/1985
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11/1/1986
4/1/1987
9/1/1987
2/1/1988
7/1/1988
12/1/1988
5/1/1989
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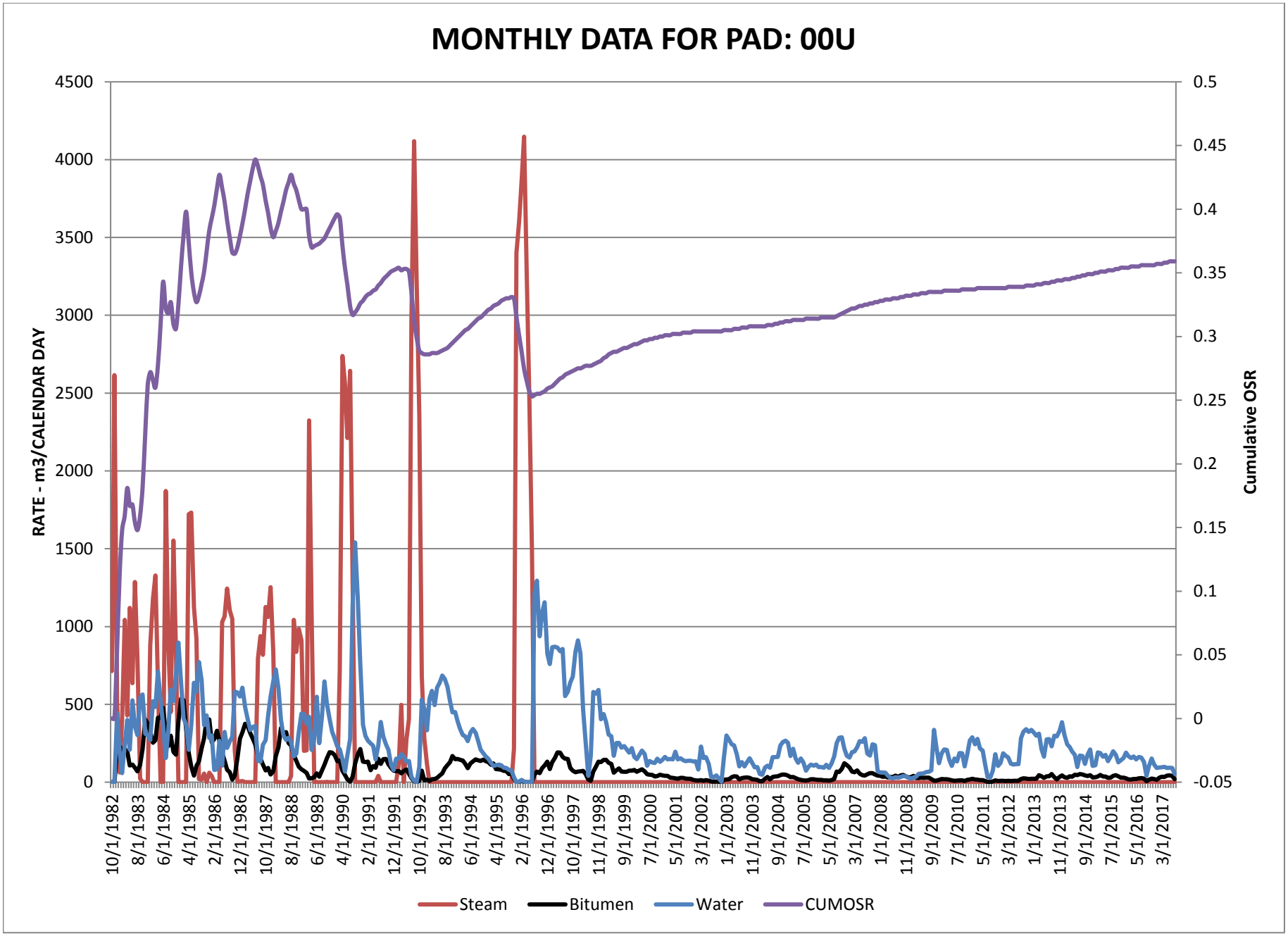
3/1/1990
8/1/1990
1/1/1991
6/1/1991
11/1/1991
10/1/1992
3/1/1993
8/1/1993
1/1/1994
6/1/1994
11/1/1994
4/1/1995
9/1/1995
2/1/1996
7/1/1996
12/1/1996
5/1/1997
10/1/1997
3/1/1998
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00U
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/1982
8/1/1983
6/1/1984
4/1/1985
2/1/1986
12/1/1986
10/1/1987
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4/1/1990
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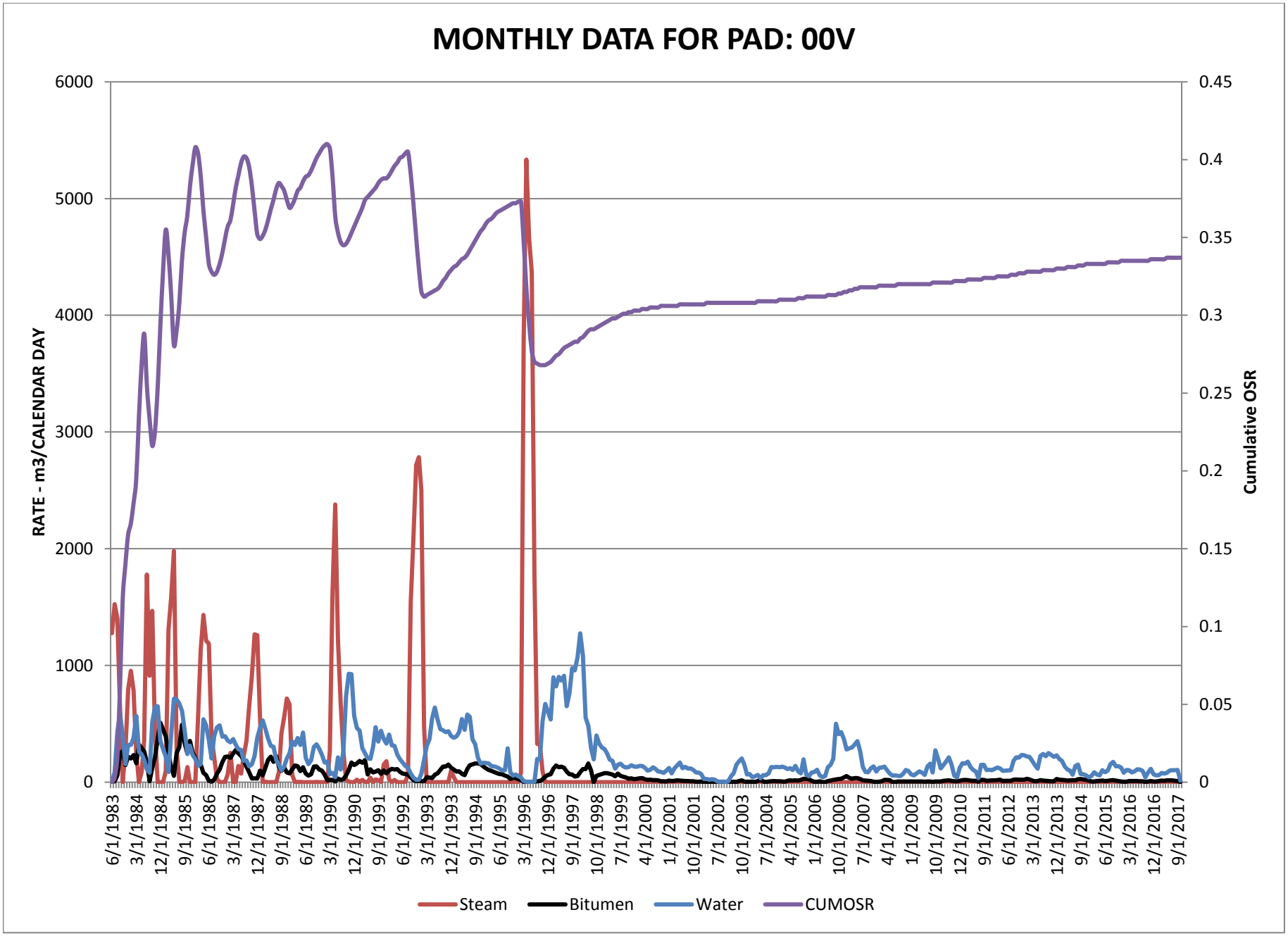
3/1/2002
1/1/2003
11/1/2003
9/1/2004
7/1/2005
5/1/2006
3/1/2007
1/1/2008
11/1/2008
9/1/2009
7/1/2010
5/1/2011
3/1/2012
1/1/2013
11/1/2013
9/1/2014
7/1/2015
5/1/2016
3/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00V
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/1/1983
3/1/1984
12/1/1984
9/1/1985
6/1/1986
3/1/1987
12/1/1987
9/1/1988
6/1/1989
3/1/1990
12/1/1990
9/1/1991
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12/1/1993
9/1/1994
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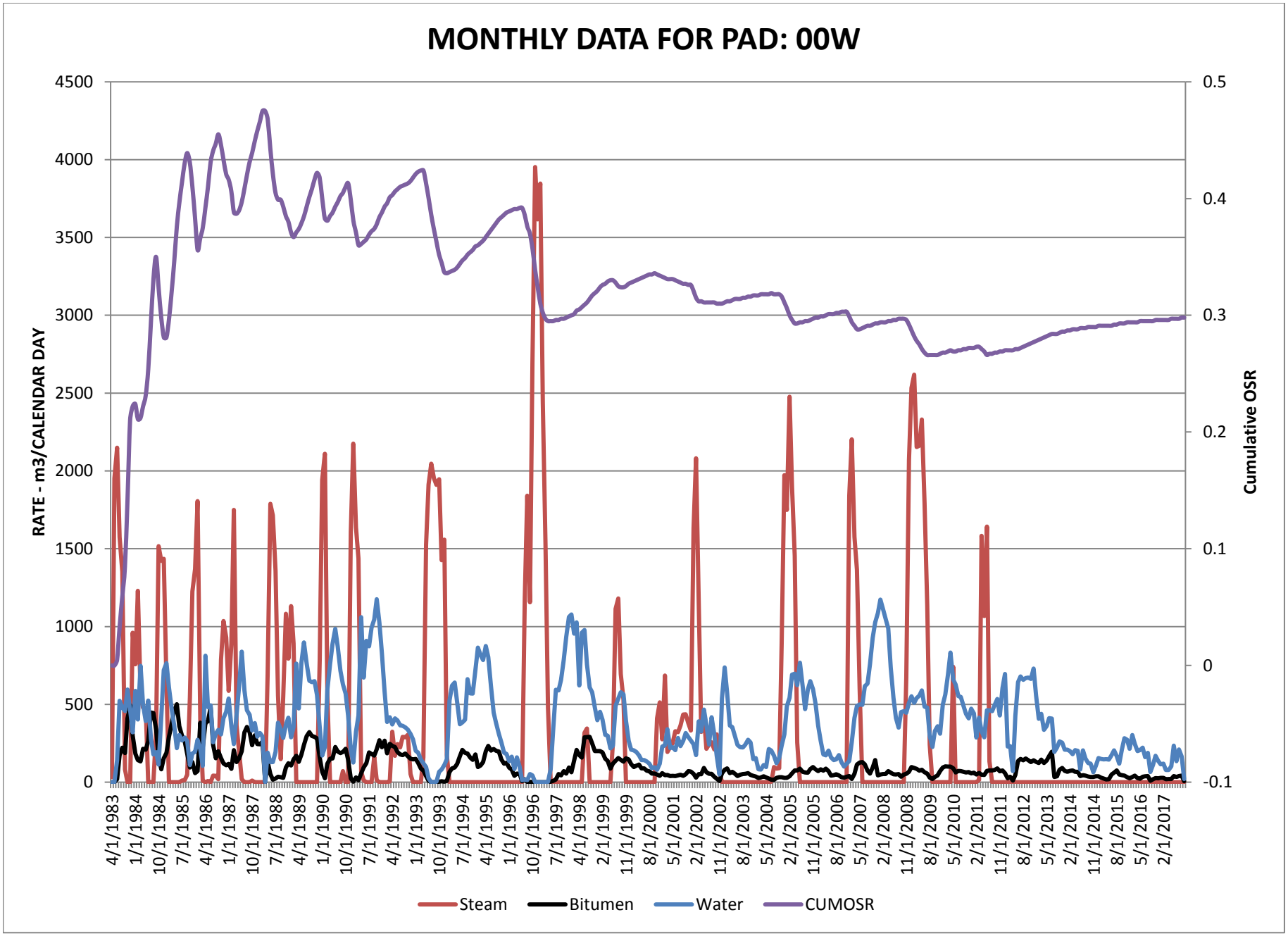
9/1/1997
10/1/1998
7/1/1999
4/1/2000
1/1/2001
10/1/2001
7/1/2002
10/1/2003
7/1/2004
4/1/2005
1/1/2006
10/1/2006
7/1/2007
4/1/2008
1/1/2009
10/1/2009
12/1/2010
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00W
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.5
0.4
0.3
0.2
0.1
0
-0.1
4/1/1983
1/1/1984
10/1/1984
7/1/1985
4/1/1986
1/1/1987
10/1/1987
7/1/1988
4/1/1989
1/1/1990
10/1/1990
7/1/1991
4/1/1992
1/1/1993
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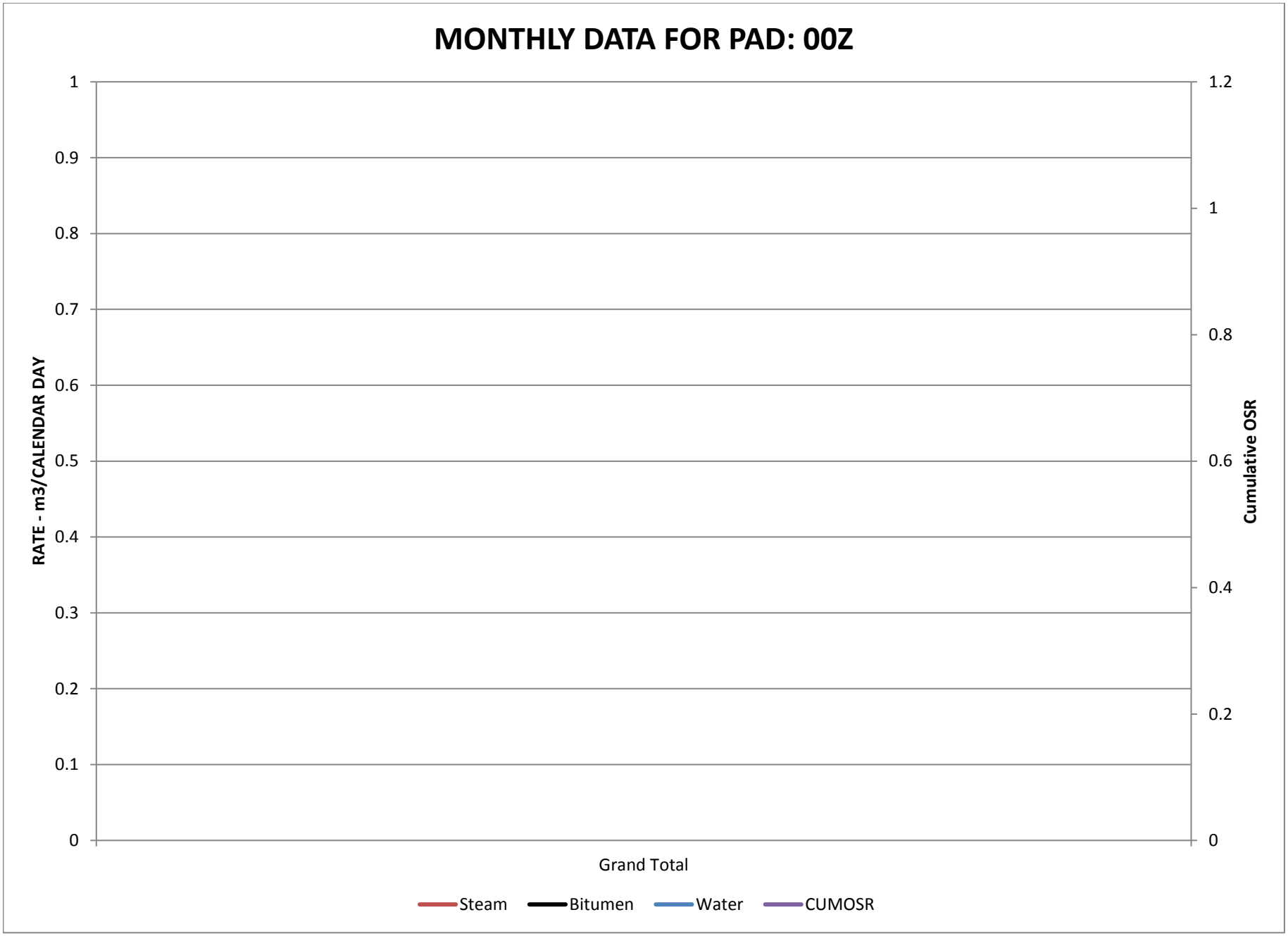
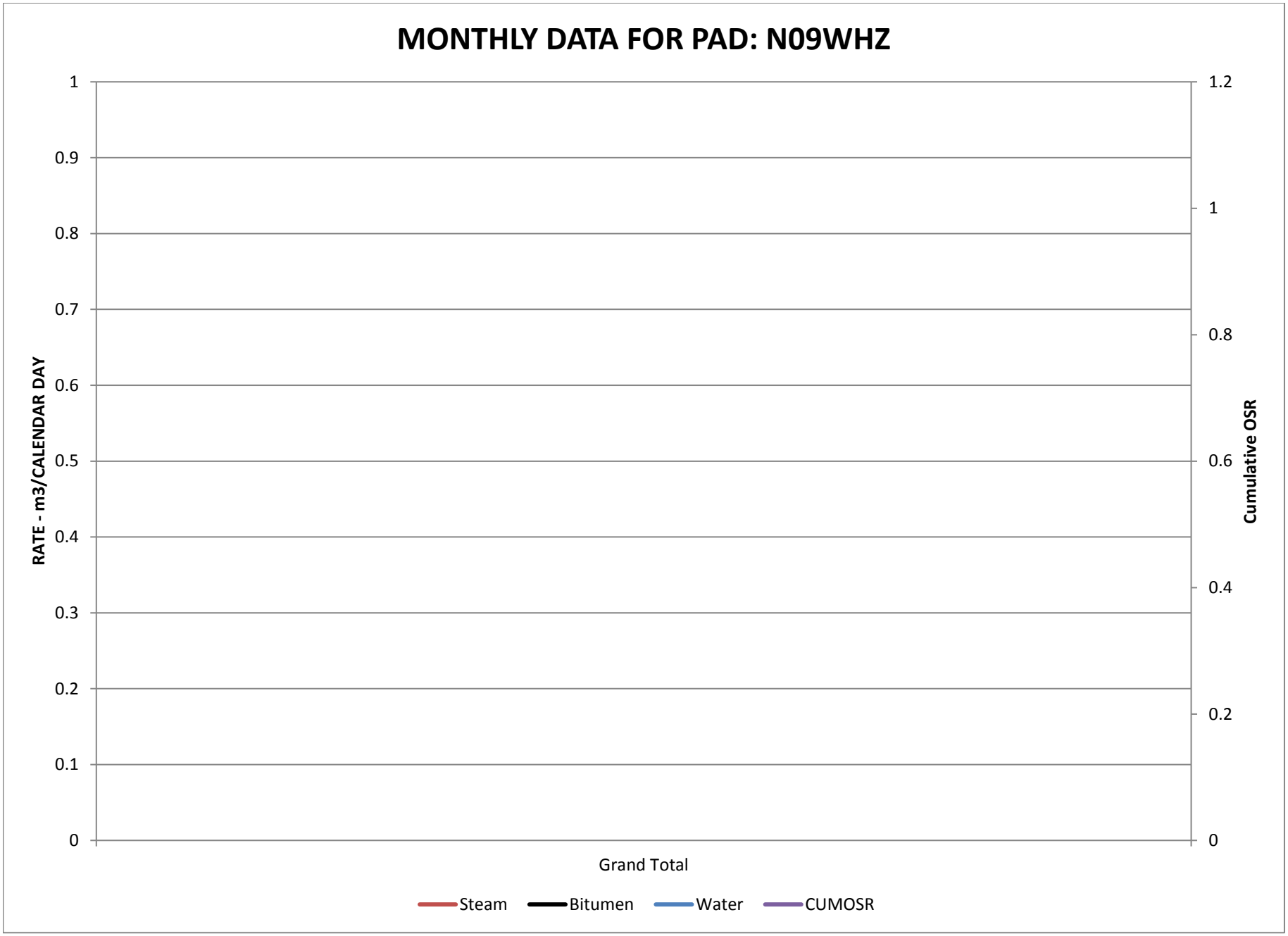
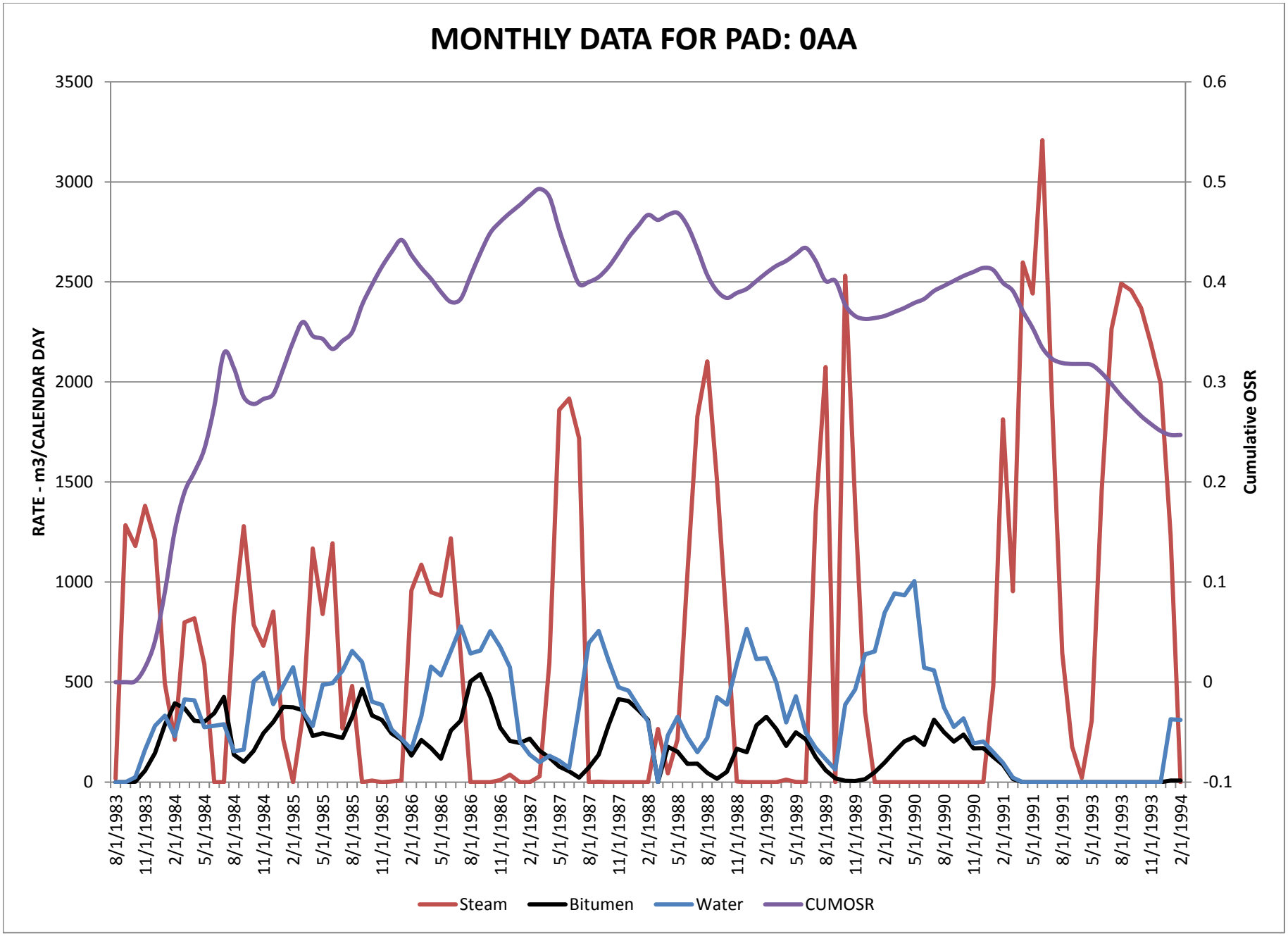
7/1/1994
4/1/1995
1/1/1996
10/1/1996
7/1/1997
4/1/1998
2/1/1999
11/1/1999
8/1/2000
5/1/2001
2/1/2002
11/1/2002
8/1/2003
5/1/2004
2/1/2005
11/1/2005
8/1/2006
5/1/2007
2/1/2008
11/1/2008
8/1/2009
5/1/2010
2/1/2011
11/1/2011
8/1/2012
5/1/2013
2/1/2014
11/1/2014
8/1/2015
5/1/2016
2/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 00Z
RATE - m3/CALENDAR DAY
Cumulative OSR
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1.2
1
0.8
0.6
0.4
0.2
0
Grand Total
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N09WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1.2
1
0.8
0.6
0.4
0.2
0
Grand Total
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0AA
RATE - m3/CALENDAR DAY
Cumulative OSR
3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
8/1/1983
11/1/1983
2/1/1984
5/1/1984
8/1/1984
11/1/1984
2/1/1985
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11/1/1985
2/1/1986
5/1/1986
8/1/1986
11/1/1986
2/1/1987
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11/1/1987
2/1/1988
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2/1/1989
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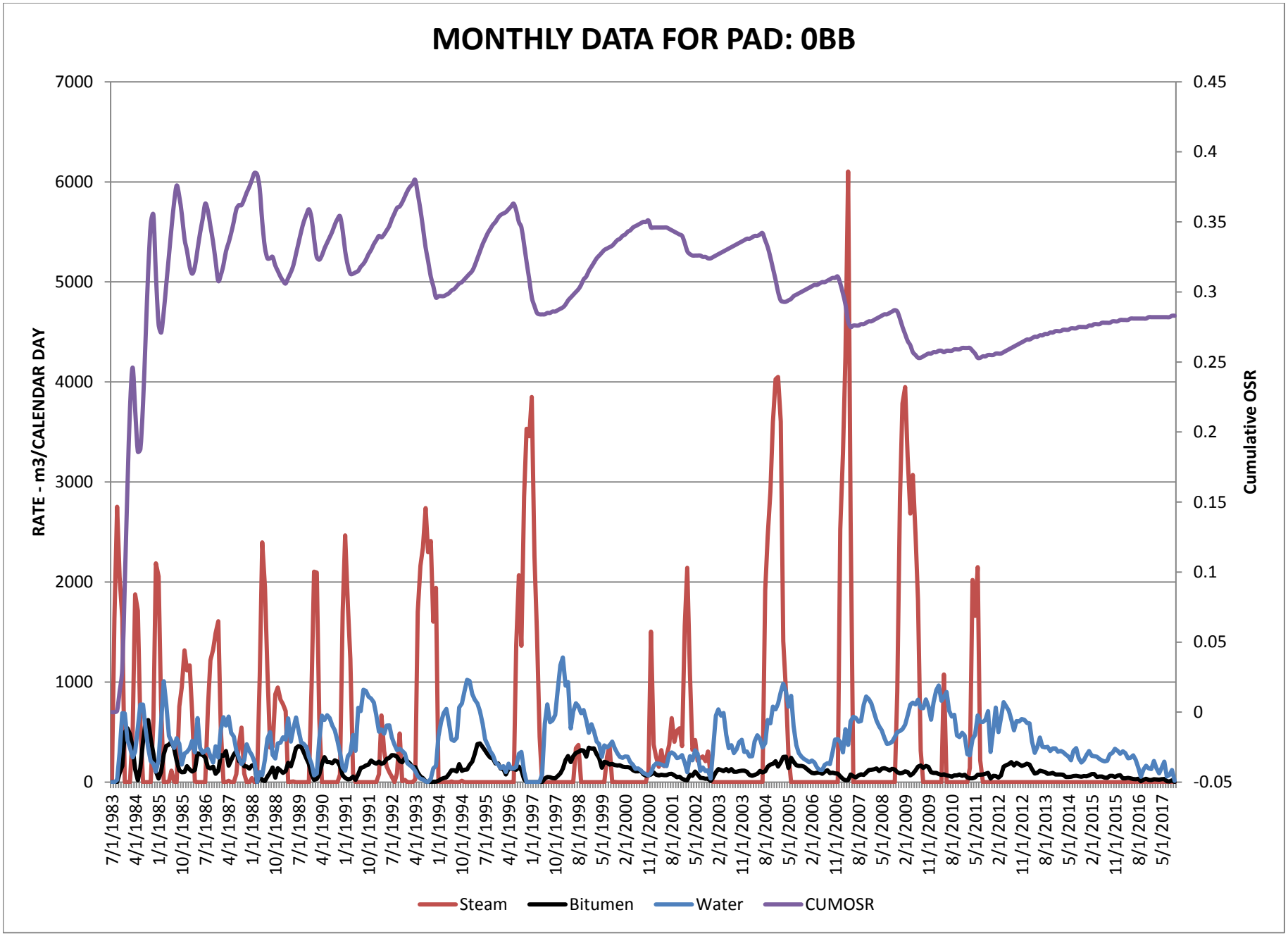
11/1/1989
2/1/1990
5/1/1990
8/1/1990
11/1/1990
2/1/1991
5/1/1991
8/1/1991
5/1/1993
8/1/1993
11/1/1993
2/1/1994
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0BB
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
7/1/1983
4/1/1984
1/1/1985
10/1/1985
7/1/1986
4/1/1987
1/1/1988
10/1/1988
7/1/1989
4/1/1990
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4/1/1993
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11/1/2000
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5/1/2002
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11/1/2003
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8/1/2007
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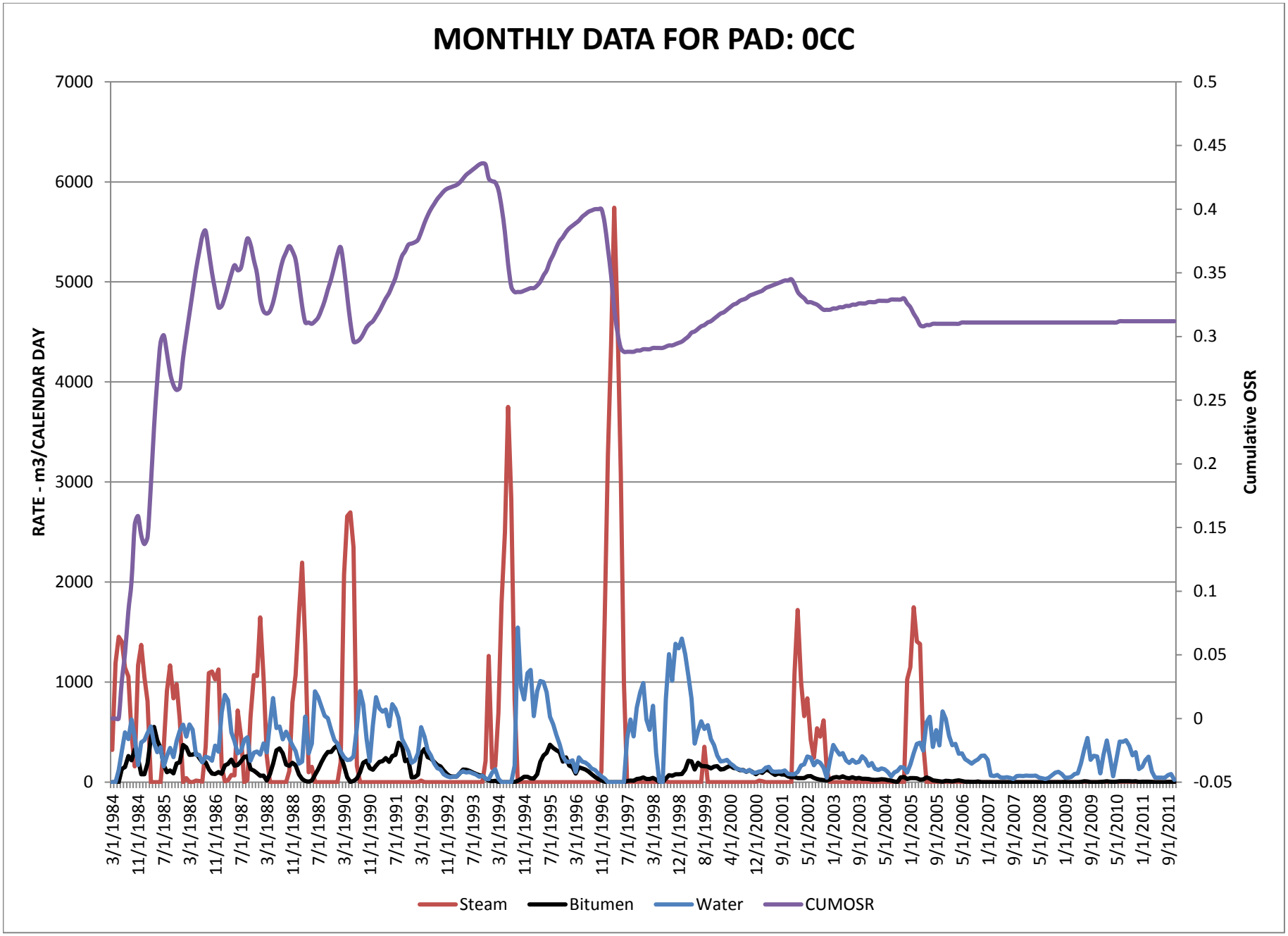
11/1/2009
8/1/2010
5/1/2011
2/1/2012
11/1/2012
8/1/2013
5/1/2014
2/1/2015
11/1/2015
8/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0CC
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/1984
11/1/1984
7/1/1985
3/1/1986
11/1/1986
7/1/1987
3/1/1988
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7/1/1989
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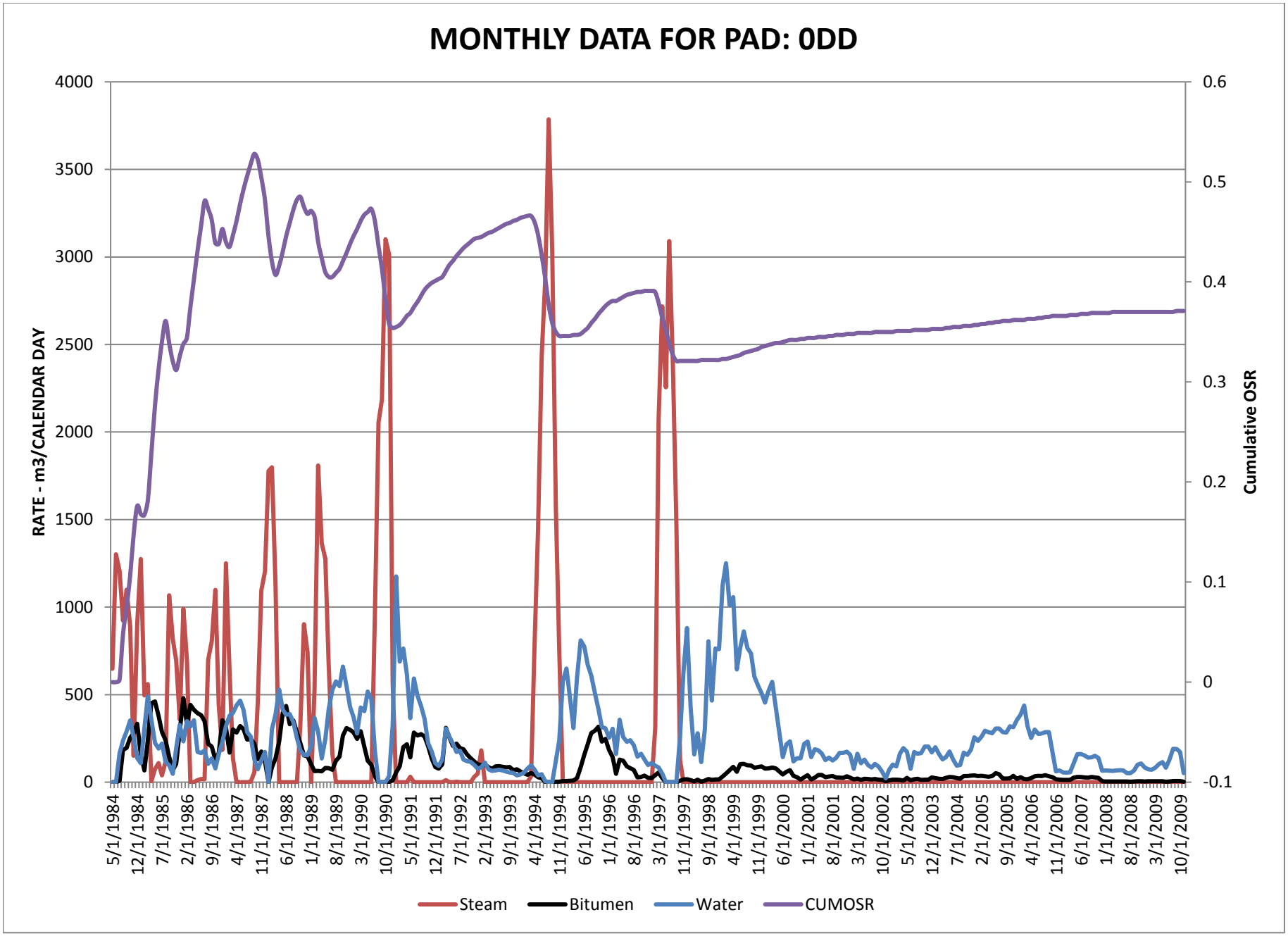
7/1/1993
3/1/1994
11/1/1994
7/1/1995
3/1/1996
11/1/1996
7/1/1997
3/1/1998
12/1/1998
8/1/1999
4/1/2000
12/1/2000
9/1/2001
5/1/2002
1/1/2003
9/1/2003
5/1/2004
1/1/2005
9/1/2005
5/1/2006
1/1/2007
9/1/2007
5/1/2008
1/1/2009
9/1/2009
5/1/2010
1/1/2011
9/1/2011
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0DD
RATE - m3/CALENDAR DAY
Cumulative OSR
4000
3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
5/1/1984
12/1/1984
7/1/1985
2/1/1986
9/1/1986
4/1/1987
11/1/1987
6/1/1988
1/1/1989
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11/1/1997
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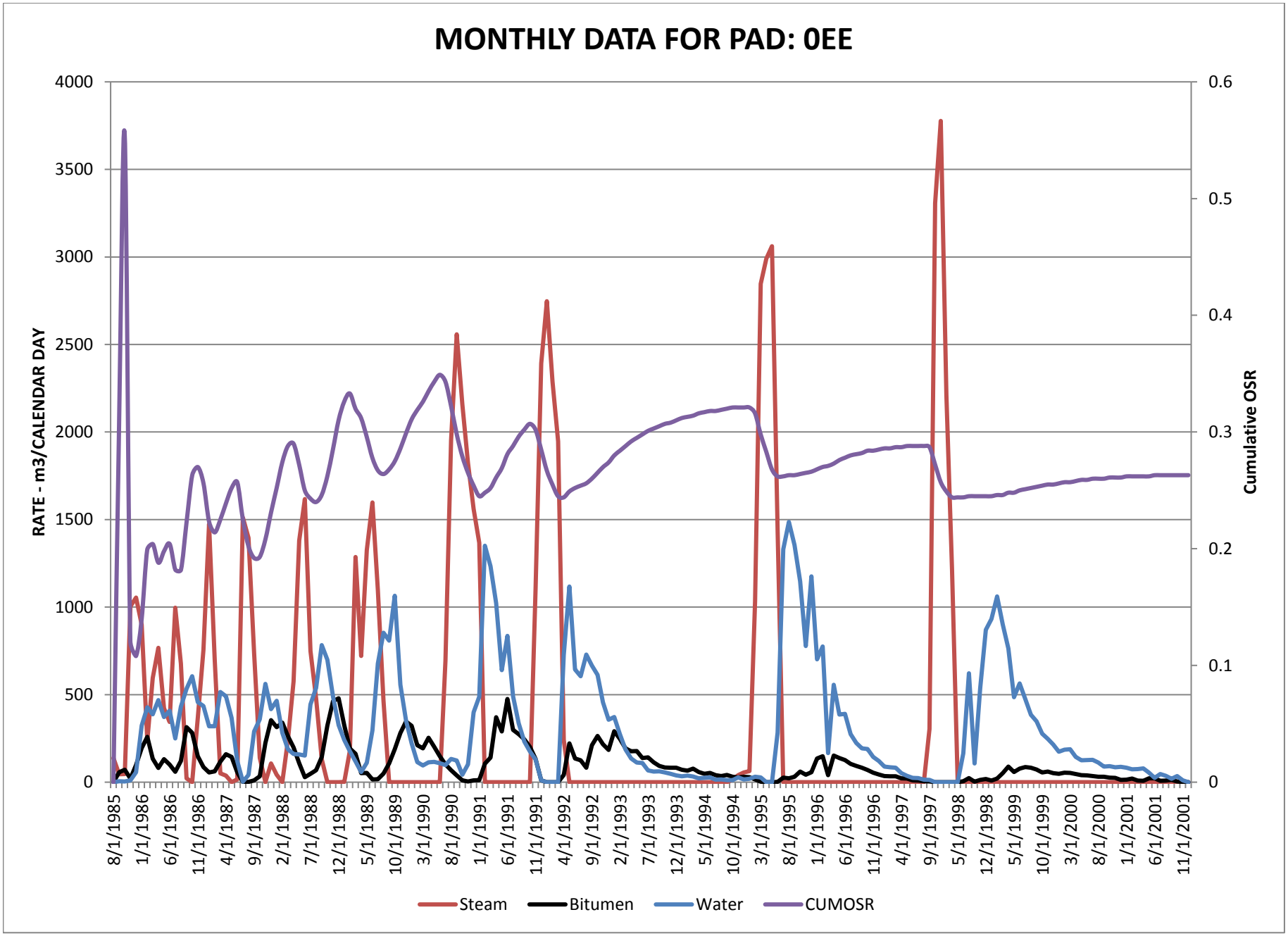
2/1/2005
9/1/2005
4/1/2006
11/1/2006
6/1/2007
1/1/2008
8/1/2008
3/1/2009
10/1/2009
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0EE
RATE - m3/CALENDAR DAY
Cumulative OSR
4000
3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
8/1/1985
1/1/1986
6/1/1986
11/1/1986
4/1/1987
9/1/1987
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12/1/1998
5/1/1999
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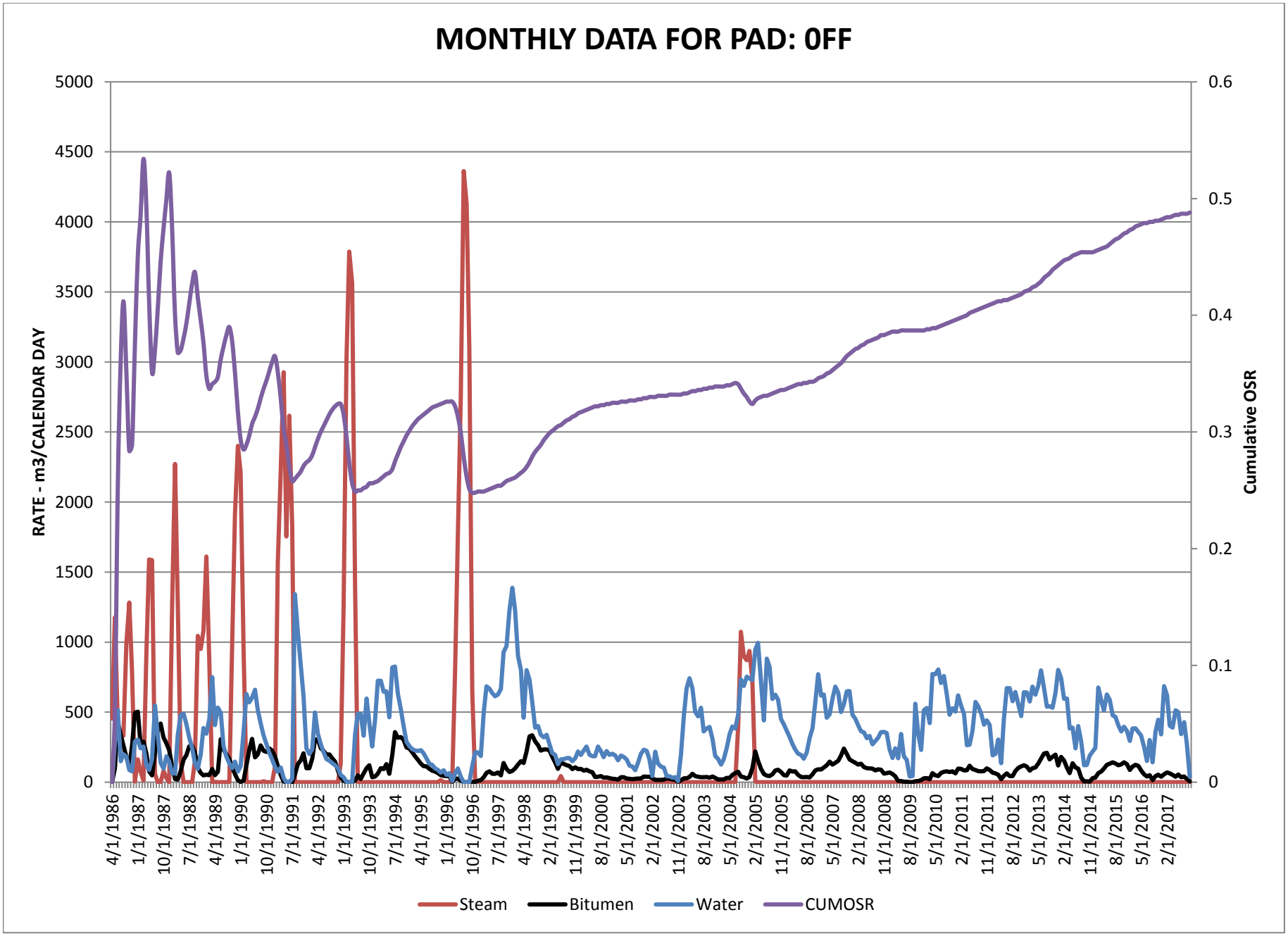
8/1/2000
1/1/2001
6/1/2001
11/1/2001
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0FF
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
4/1/1986
1/1/1987
10/1/1987
7/1/1988
4/1/1989
1/1/1990
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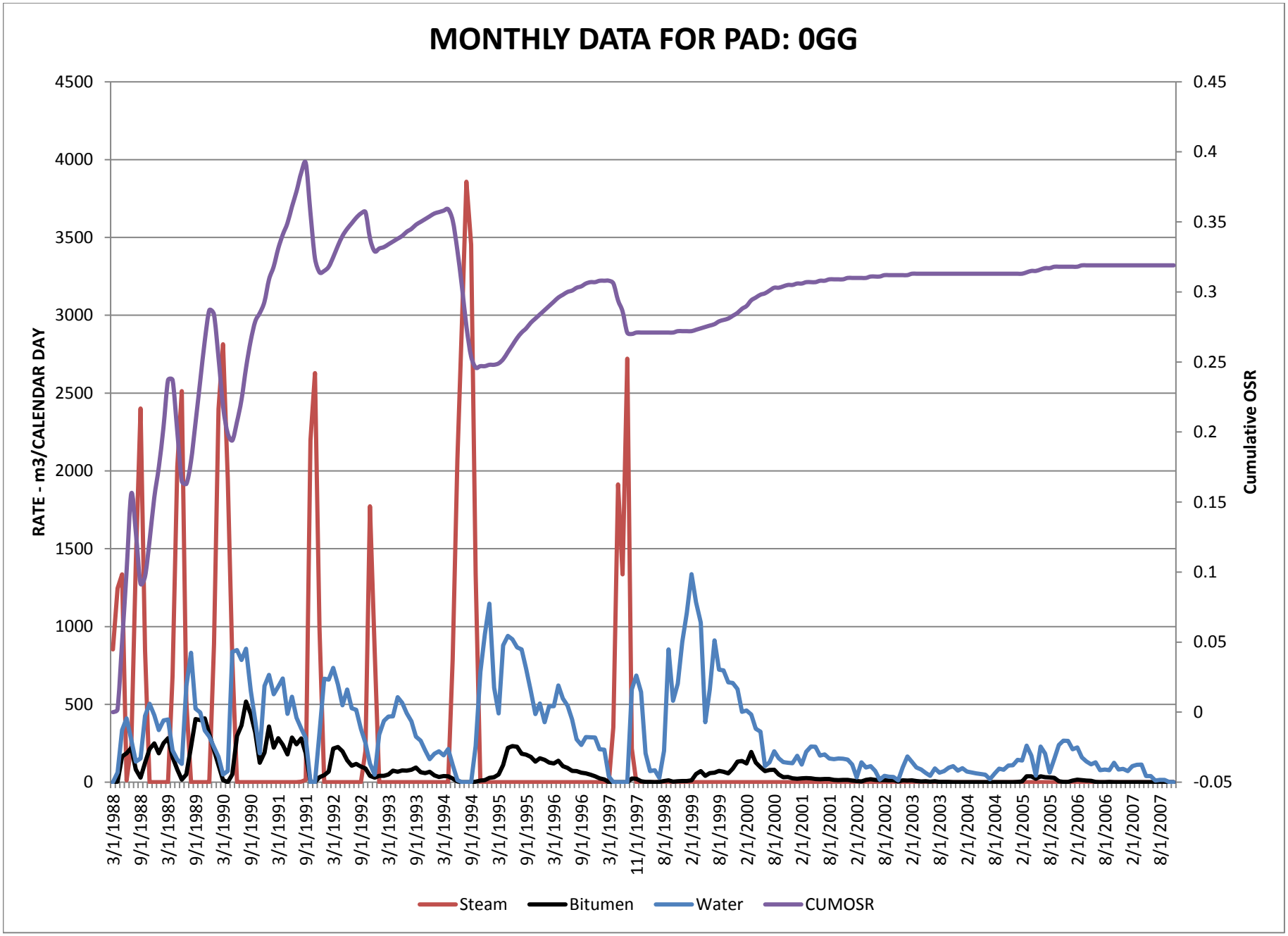
2/1/2011
11/1/2011
8/1/2012
5/1/2013
2/1/2014
11/1/2014
8/1/2015
5/1/2016
2/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0GG
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/1988
9/1/1988
3/1/1989
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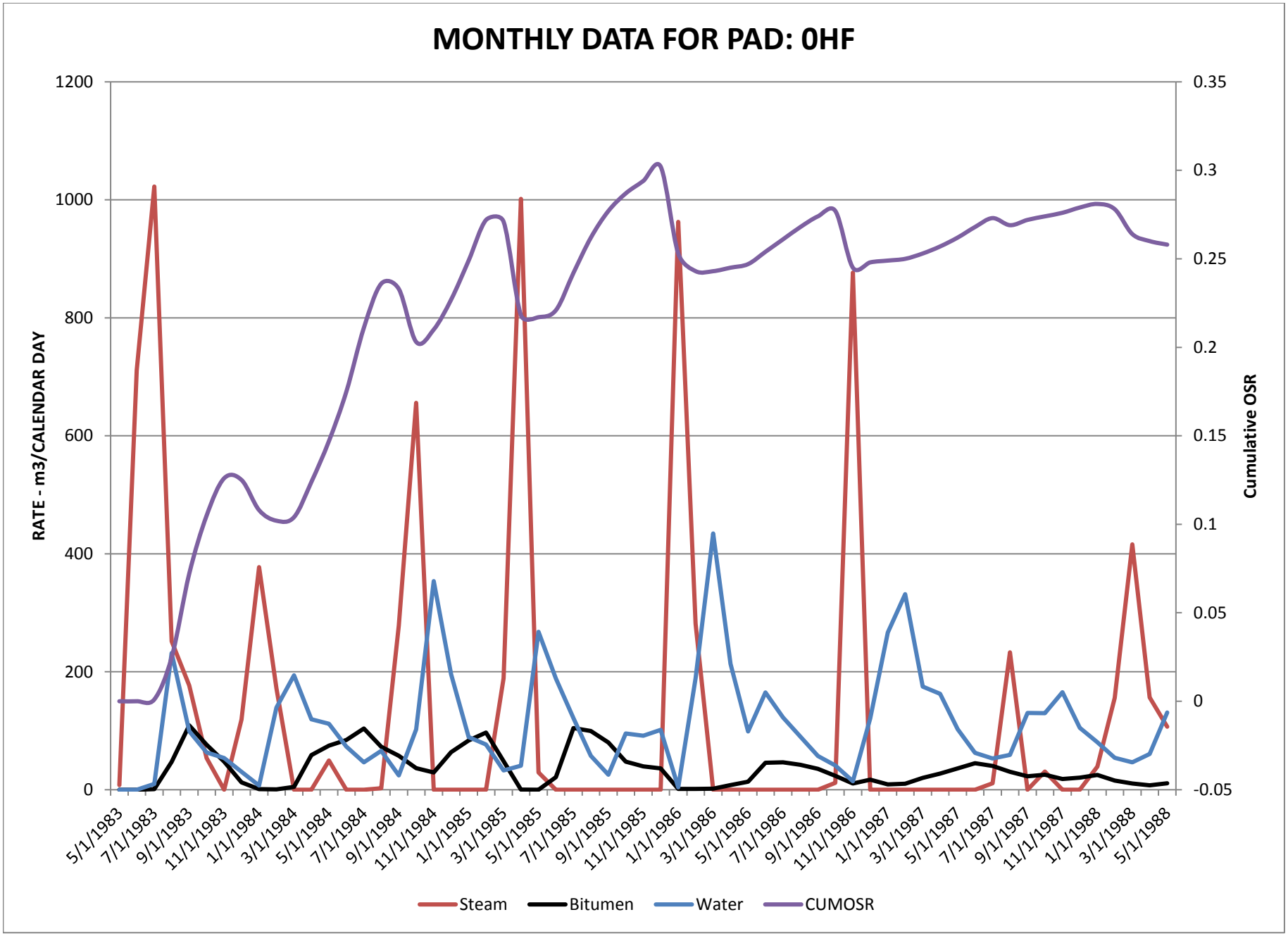
8/1/2003
2/1/2004
8/1/2004
2/1/2005
8/1/2005
2/1/2006
8/1/2006
2/1/2007
8/1/2007
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0HF
RATE - m3/CALENDAR DAY
Cumulative OSR
1200
1000
800
600
400
200
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1983
7/1/1983
9/1/1983
11/1/1983
1/1/1984
3/1/1984
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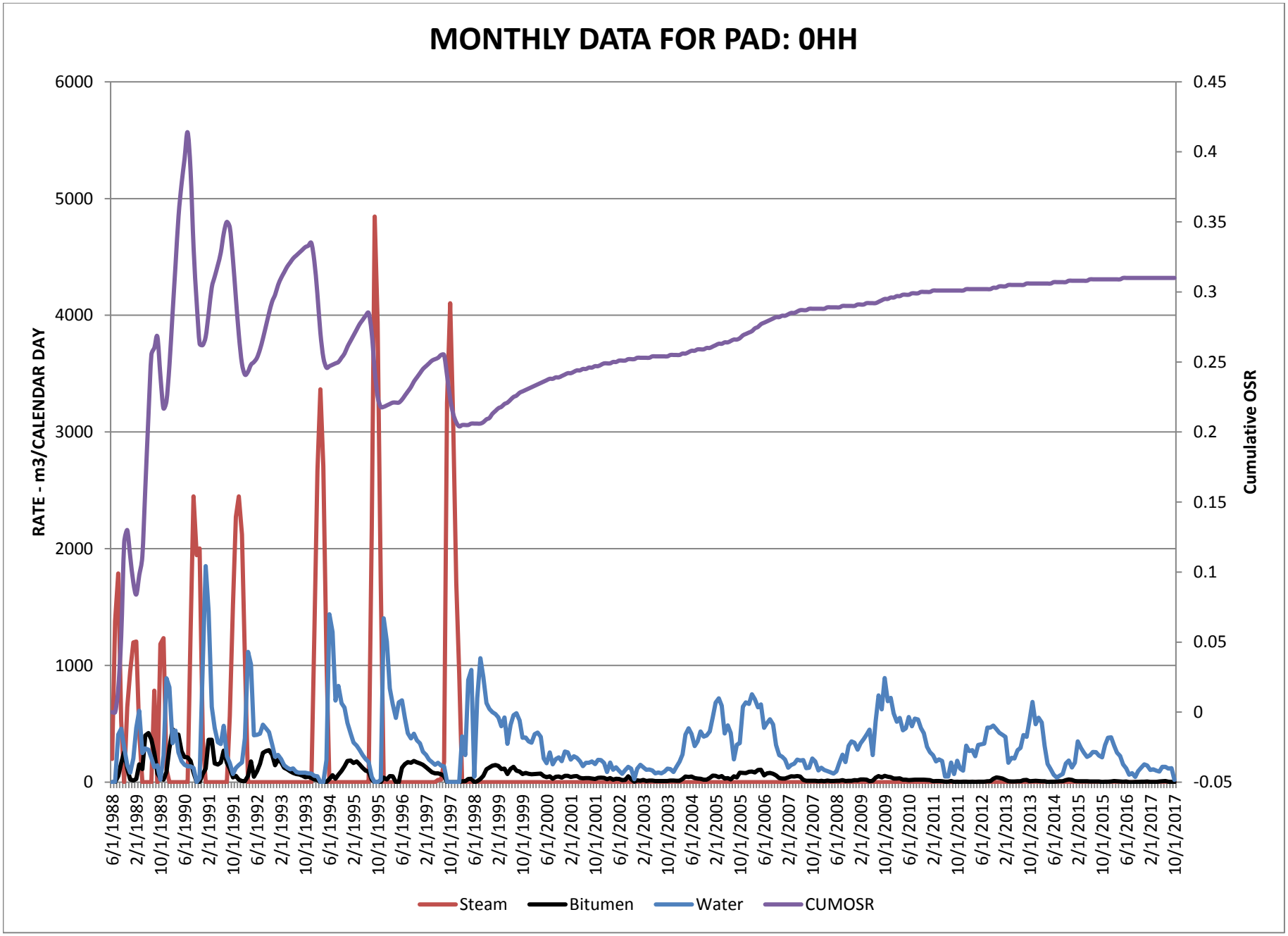
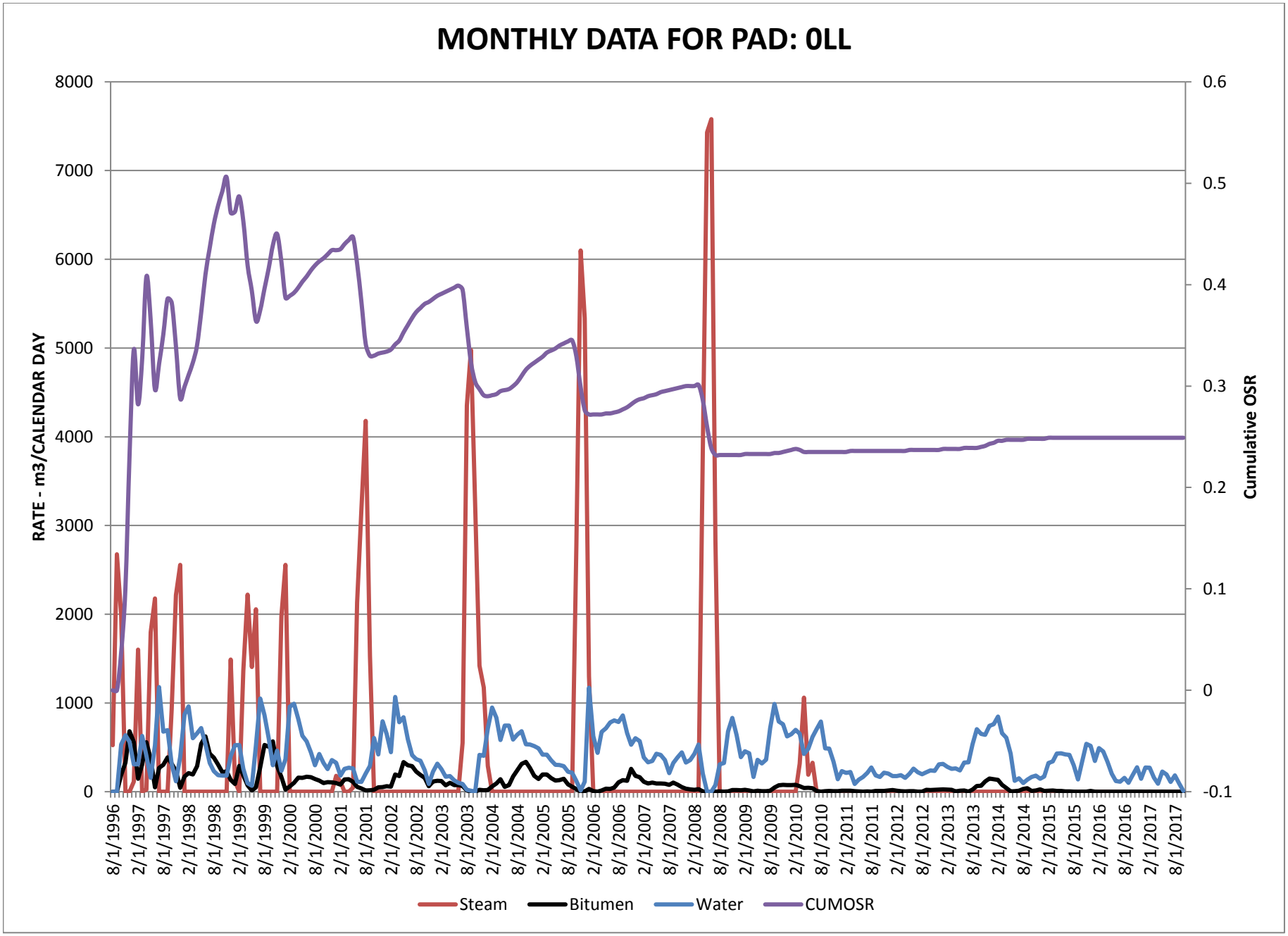
7/1/1985
9/1/1985
11/1/1985
1/1/1986
3/1/1986
5/1/1986
7/1/1986
9/1/1986
11/1/1986
1/1/1987
3/1/1987
5/1/1987
7/1/1987
9/1/1987
11/1/1987
1/1/1988
3/1/1988
5/1/1988
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0HH
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/1988
2/1/1989
10/1/1989
6/1/1990
2/1/1991
10/1/1991
6/1/1992
2/1/1993
10/1/1993
6/1/1994
2/1/1995
10/1/1995
6/1/1996
2/1/1997
10/1/1997
6/1/1998
2/1/1999
10/1/1999
6/1/2000
2/1/2001
10/1/2001
6/1/2002
2/1/2003
10/1/2003
6/1/2004
2/1/2005
10/1/2005
6/1/2006
2/1/2007
10/1/2007
6/1/2008
2/1/2009
10/1/2009
6/1/2010
2/1/2011
10/1/2011
6/1/2012
2/1/2013
10/1/2013
6/1/2014
2/1/2015
10/1/2015
6/1/2016
2/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0LL
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
8/1/1996
2/1/1997
8/1/1997
2/1/1998
8/1/1998
2/1/1999
8/1/1999
2/1/2000
8/1/2000
2/1/2001
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8/1/2002
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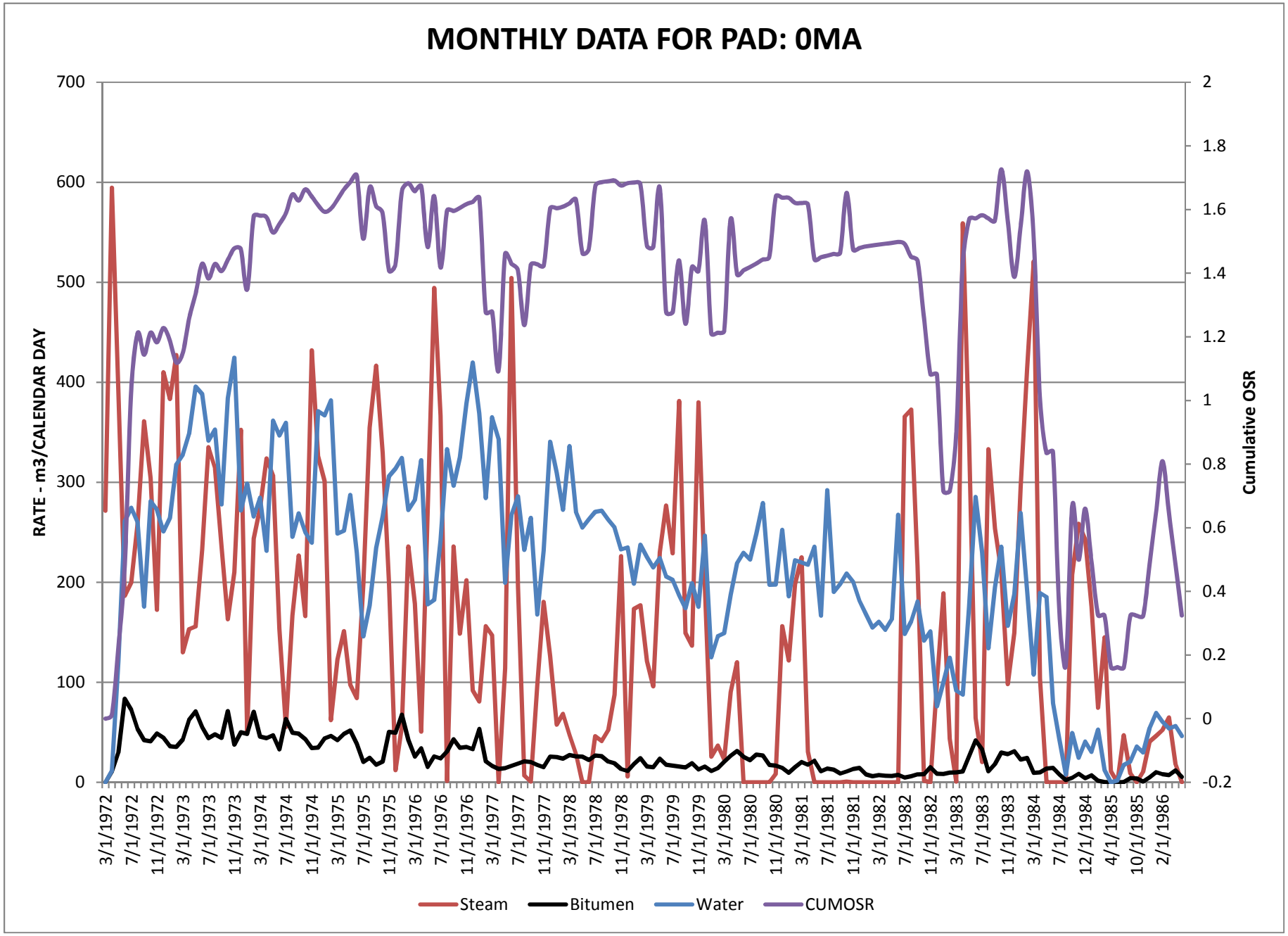
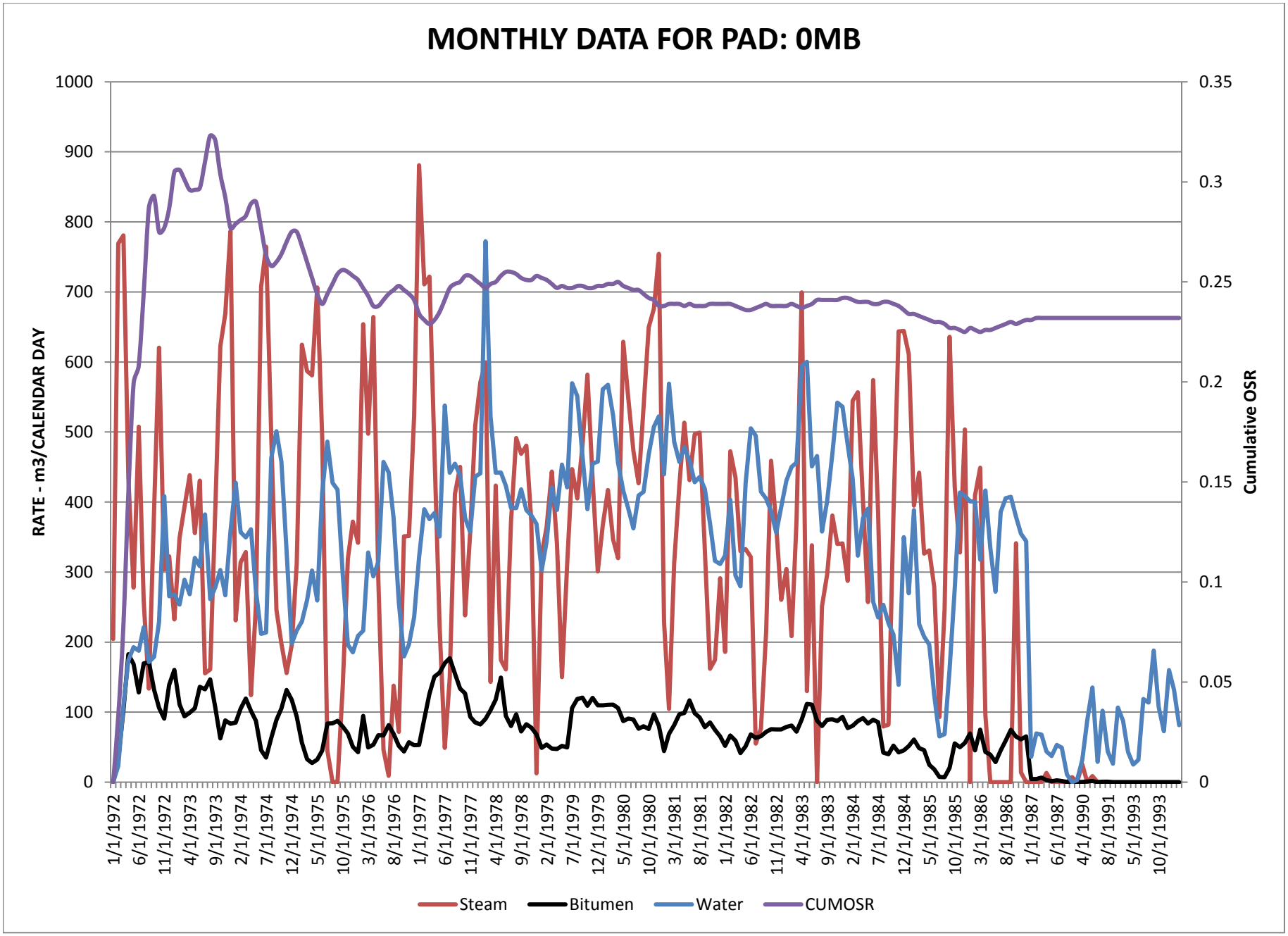
8/1/2003
2/1/2004
8/1/2004
2/1/2005
8/1/2005
2/1/2006
8/1/2006
2/1/2007
8/1/2007
2/1/2008
8/1/2008
2/1/2009
8/1/2009
2/1/2010
8/1/2010
2/1/2011
8/1/2011
2/1/2012
8/1/2012
2/1/2013
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0MA
RATE - m3/CALENDAR DAY
Cumulative OSR
700
600
500
400
300
200
100
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
3/1/1972
7/1/1972
11/1/1972
3/1/1973
7/1/1973
11/1/1973
3/1/1974
7/1/1974
11/1/1974
3/1/1975
7/1/1975
11/1/1975
3/1/1976
7/1/1976
11/1/1976
3/1/1977
7/1/1977
11/1/1977
3/1/1978
7/1/1978
11/1/1978
3/1/1979
7/1/1979
11/1/1979
3/1/1980
7/1/1980
11/1/1980
3/1/1981
7/1/1981
11/1/1981
3/1/1982
7/1/1982
11/1/1982
3/1/1983
7/1/1983
11/1/1983
3/1/1984
7/1/1984
12/1/1984
4/1/1985
10/1/1985
2/1/1986
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0MB
RATE - m3/CALENDAR DAY
Cumulative OSR
1000
900
800
700
600
500
400
300
200
100
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/1972
6/1/1972
11/1/1972
4/1/1973
9/1/1973
2/1/1974
7/1/1974
12/1/1974
5/1/1975
10/1/1975
3/1/1976
8/1/1976
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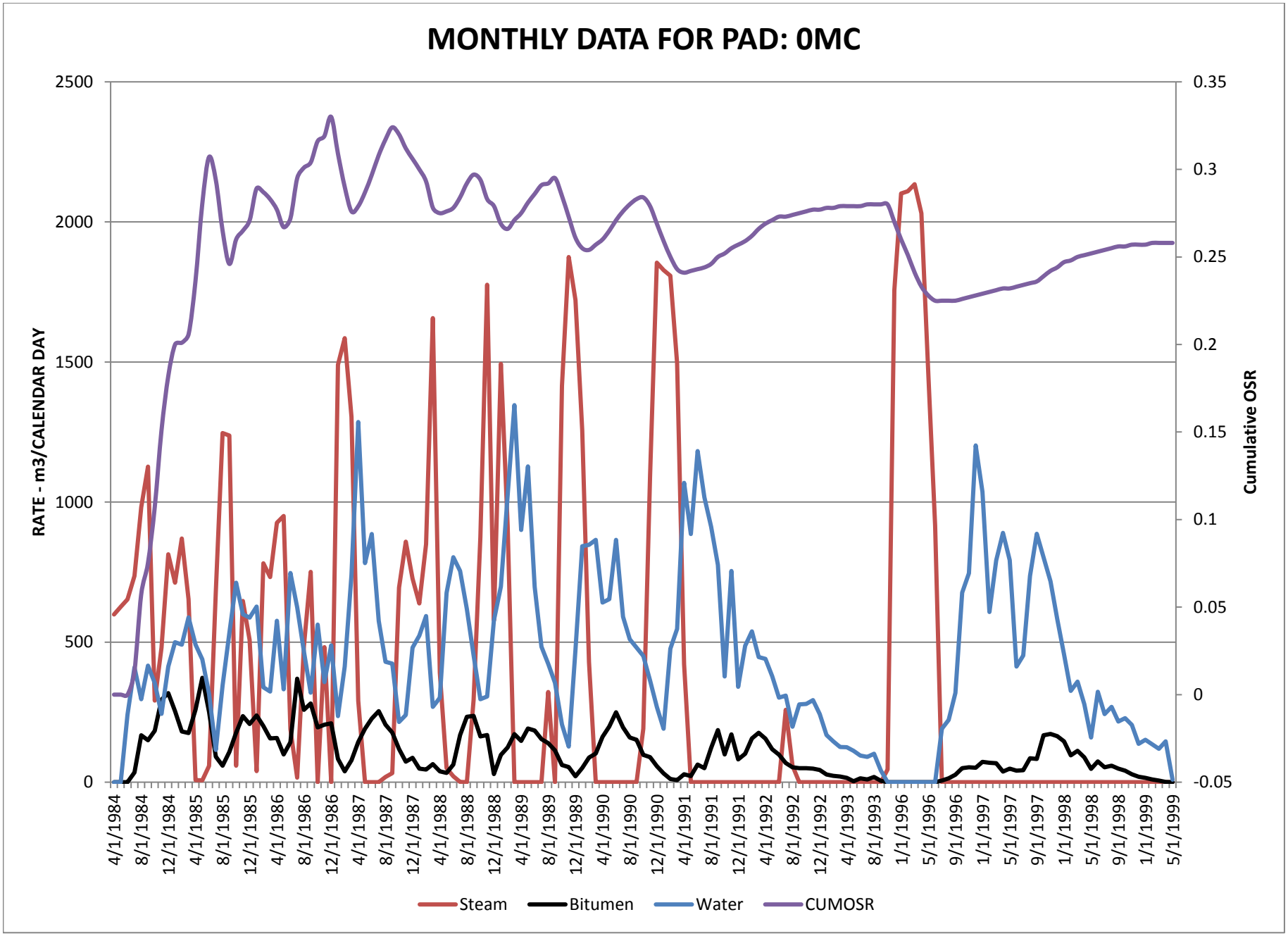
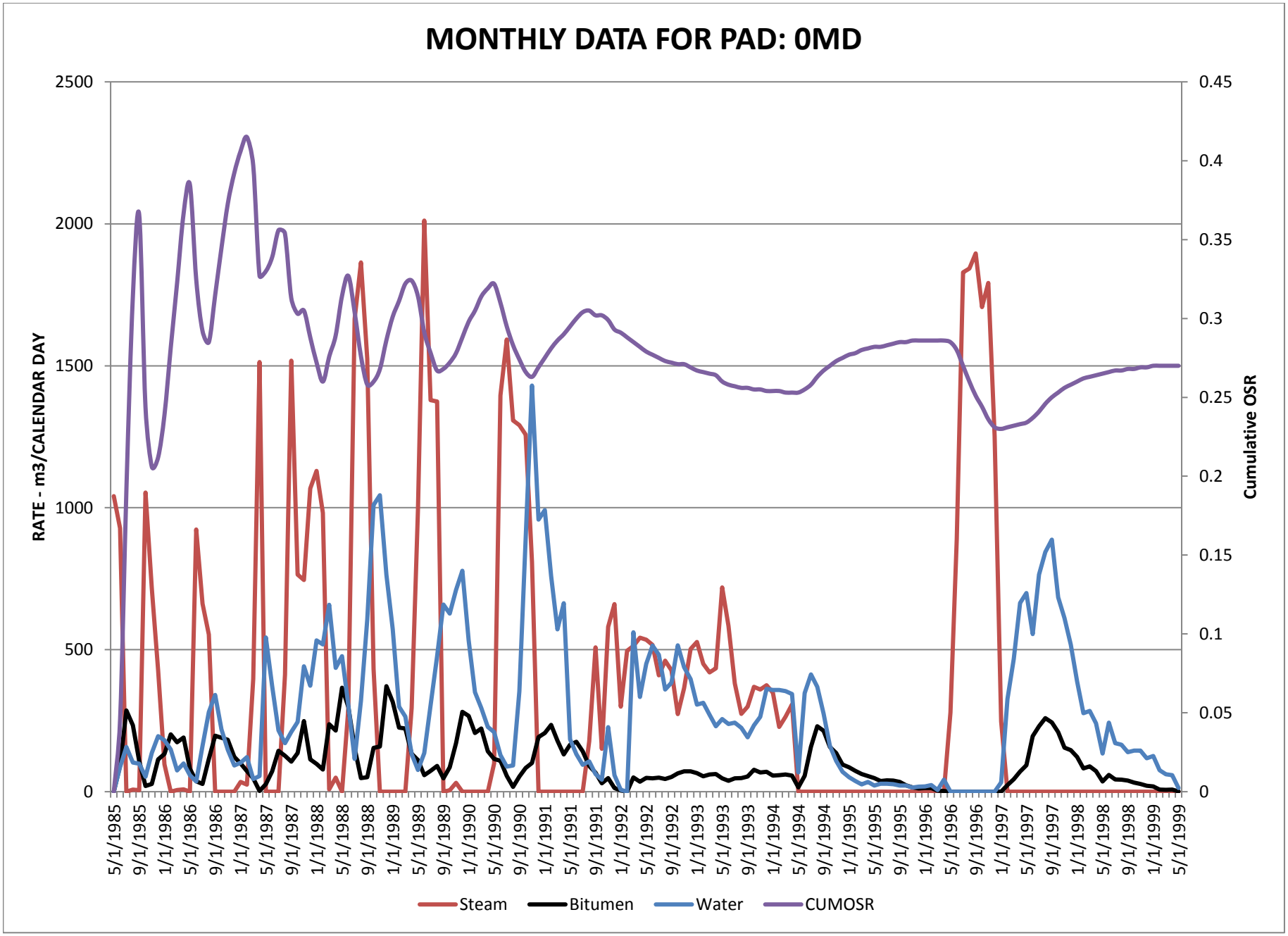
6/1/1977
11/1/1977
4/1/1978
9/1/1978
2/1/1979
7/1/1979
12/1/1979
5/1/1980
10/1/1980
3/1/1981
8/1/1981
1/1/1982
6/1/1982
11/1/1982
4/1/1983
9/1/1983
2/1/1984
7/1/1984
12/1/1984
5/1/1985
10/1/1985
3/1/1986
8/1/1986
1/1/1987
6/1/1987
4/1/1990
8/1/1991
5/1/1993
10/1/1993
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0MC
RATE - m3/CALENDAR DAY
Cumulative OSR
2500
2000
1500
1000
500
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/1984
8/1/1984
12/1/1984
4/1/1985
8/1/1985
12/1/1985
4/1/1986
8/1/1986
12/1/1986
4/1/1987
8/1/1987
12/1/1987
4/1/1988
8/1/1988
12/1/1988
4/1/1989
8/1/1989
12/1/1989
4/1/1990
8/1/1990
12/1/1990
4/1/1991
8/1/1991
12/1/1991
4/1/1992
8/1/1992
12/1/1992
4/1/1993
8/1/1993
1/1/1996
5/1/1996
9/1/1996
1/1/1997
5/1/1997
9/1/1997
1/1/1998
5/1/1998
9/1/1998
1/1/1999
5/1/1999
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0MD
RATE - m3/CALENDAR DAY
Cumulative OSR
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/1985
9/1/1985
1/1/1986
5/1/1986
9/1/1986
1/1/1987
5/1/1987
9/1/1987
1/1/1988
5/1/1988
9/1/1988
1/1/1989
5/1/1989
9/1/1989
1/1/1990
5/1/1990
9/1/1990
1/1/1991
5/1/1991
9/1/1991
1/1/1992
5/1/1992
9/1/1992
1/1/1993
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9/1/1993
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9/1/1994
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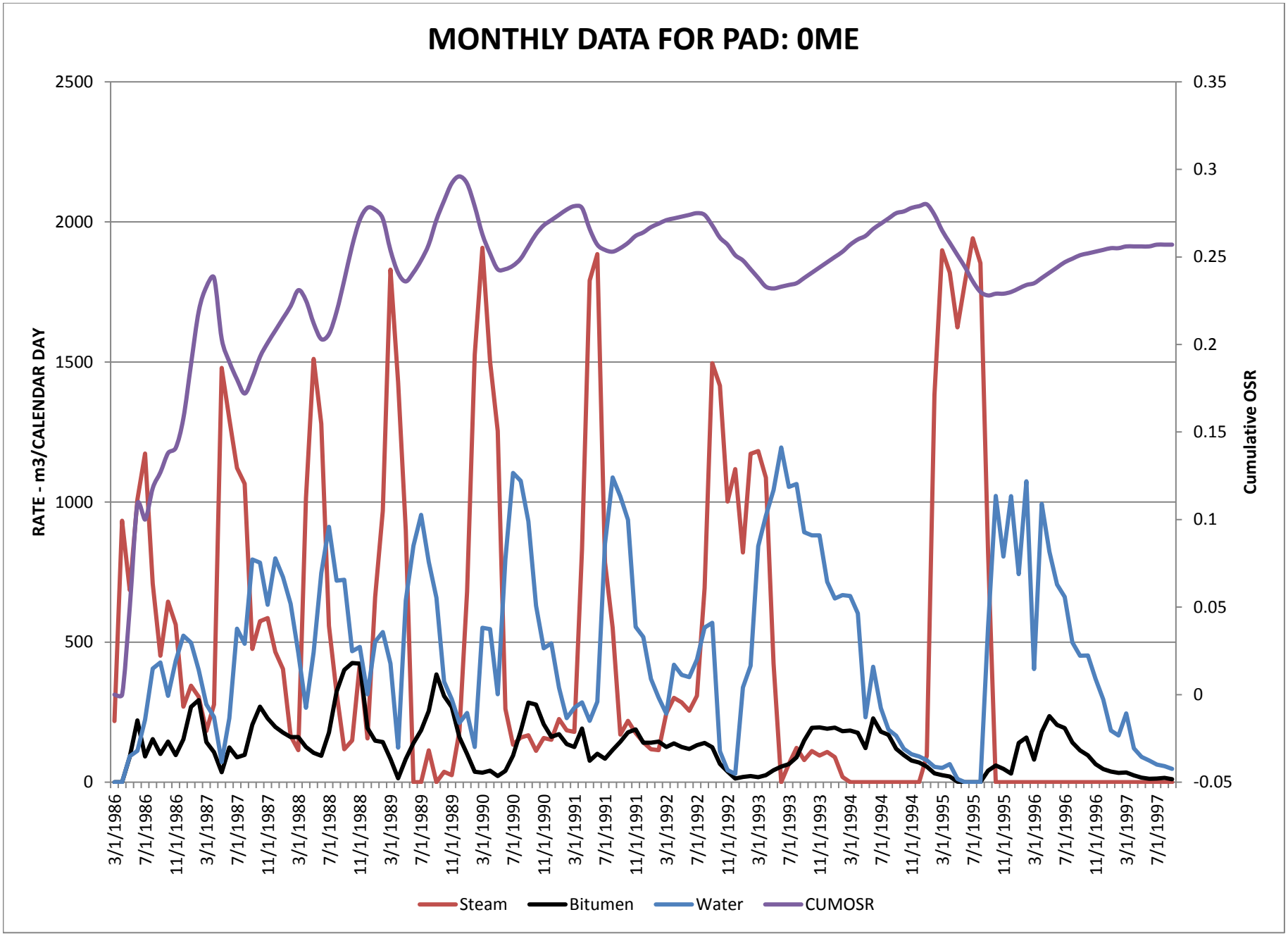
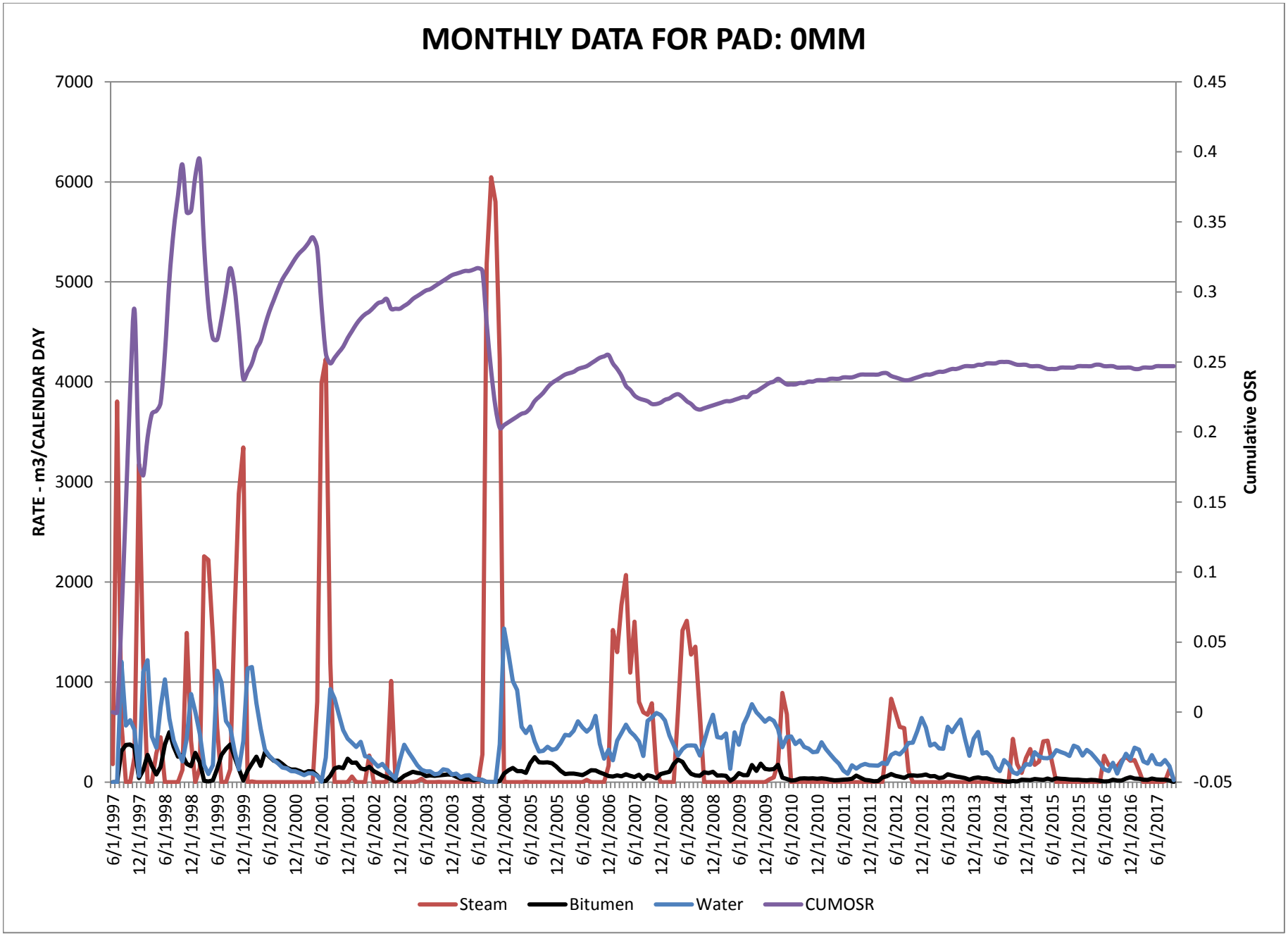
9/1/1995
1/1/1996
5/1/1996
9/1/1996
1/1/1997
5/1/1997
9/1/1997
1/1/1998
5/1/1998
9/1/1998
1/1/1999
5/1/1999
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0ME
RATE - m3/CALENDAR DAY
Cumulative OSR
2500
2000
1500
1000
500
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/1986
7/1/1986
11/1/1986
3/1/1987
7/1/1987
11/1/1987
3/1/1988
7/1/1988
11/1/1988
3/1/1989
7/1/1989
11/1/1989
3/1/1990
7/1/1990
11/1/1990
3/1/1991
7/1/1991
11/1/1991
3/1/1992
7/1/1992
11/1/1992
3/1/1993
7/1/1993
11/1/1993
3/1/1994
7/1/1994
11/1/1994
3/1/1995
7/1/1995
11/1/1995
3/1/1996
7/1/1996
11/1/1996
3/1/1997
7/1/1997
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0MM
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/1997
12/1/1997
6/1/1998
12/1/1998
6/1/1999
12/1/1999
6/1/2000
12/1/2000
6/1/2001
12/1/2001
6/1/2002
12/1/2002
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12/1/2003
6/1/2004
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6/1/2005
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12/1/2007
6/1/2008
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12/1/2009
6/1/2010
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6/1/2011
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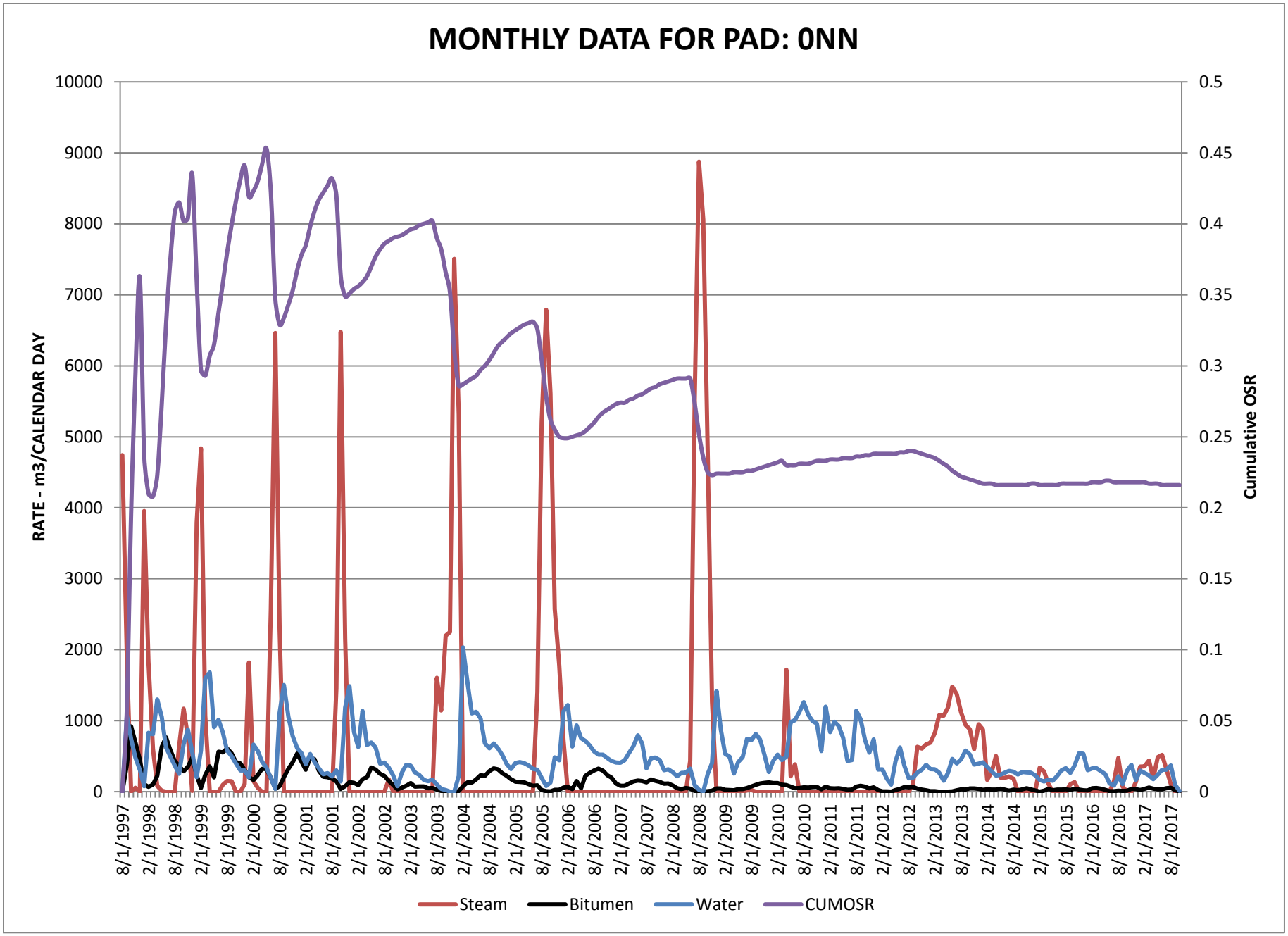
6/1/2012
12/1/2012
6/1/2013
12/1/2013
6/1/2014
12/1/2014
6/1/2015
12/1/2015
6/1/2016
12/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: 0NN
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
8/1/1997
2/1/1998
8/1/1998
2/1/1999
8/1/1999
2/1/2000
8/1/2000
2/1/2001
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2/1/2002
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2/1/2005
8/1/2005
2/1/2006
8/1/2006
2/1/2007
8/1/2007
2/1/2008
8/1/2008
2/1/2009
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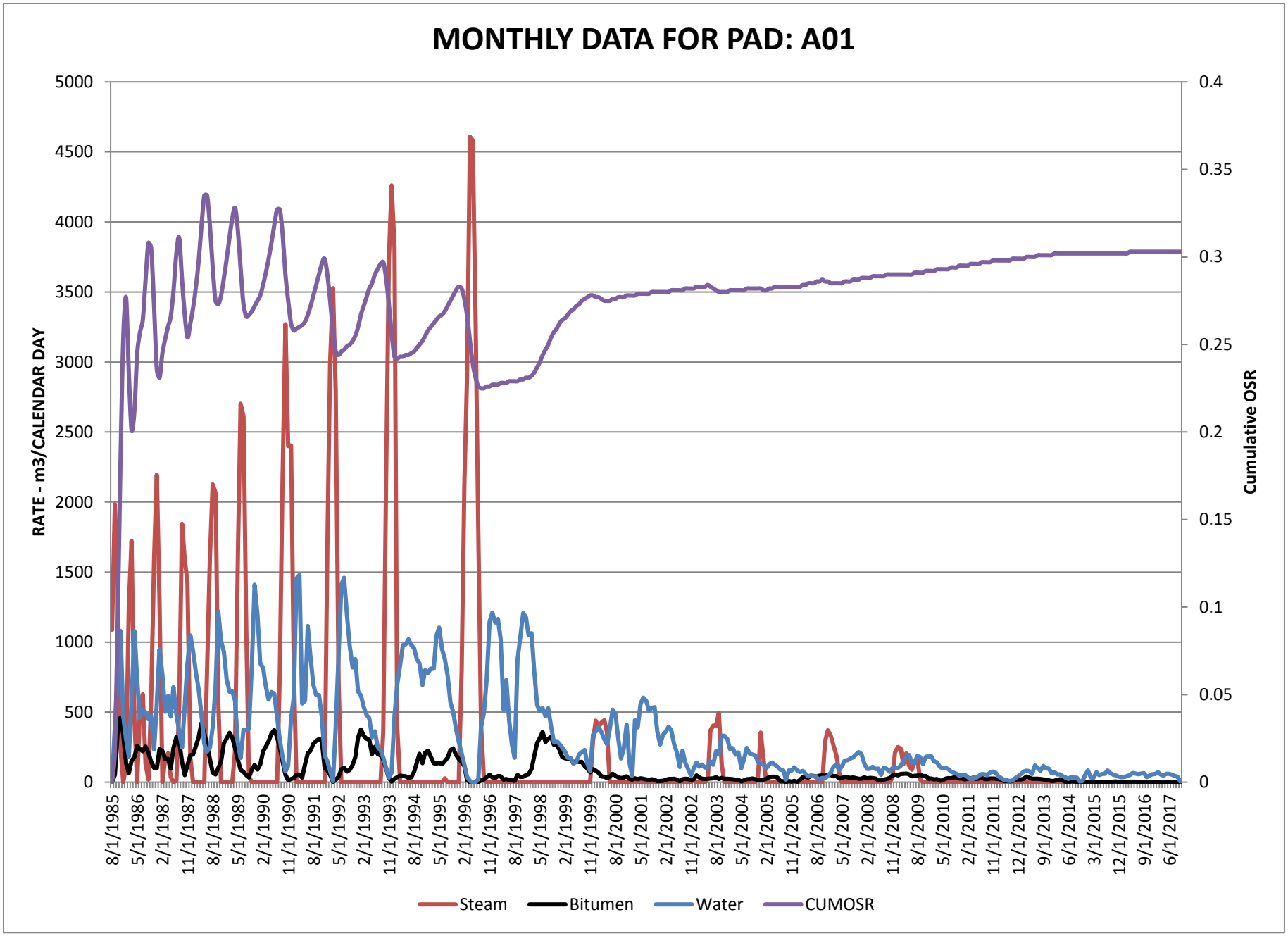
2/1/2010
8/1/2010
2/1/2011
8/1/2011
2/1/2012
8/1/2012
2/1/2013
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: A01
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
8/1/1985
5/1/1986
2/1/1987
11/1/1987
8/1/1988
5/1/1989
2/1/1990
11/1/1990
8/1/1991
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2/1/1993
11/1/1993
8/1/1994
5/1/1995
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11/1/1996
8/1/1997
5/1/1998
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11/1/1999
8/1/2000
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8/1/2003
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11/1/2005
8/1/2006
5/1/2007
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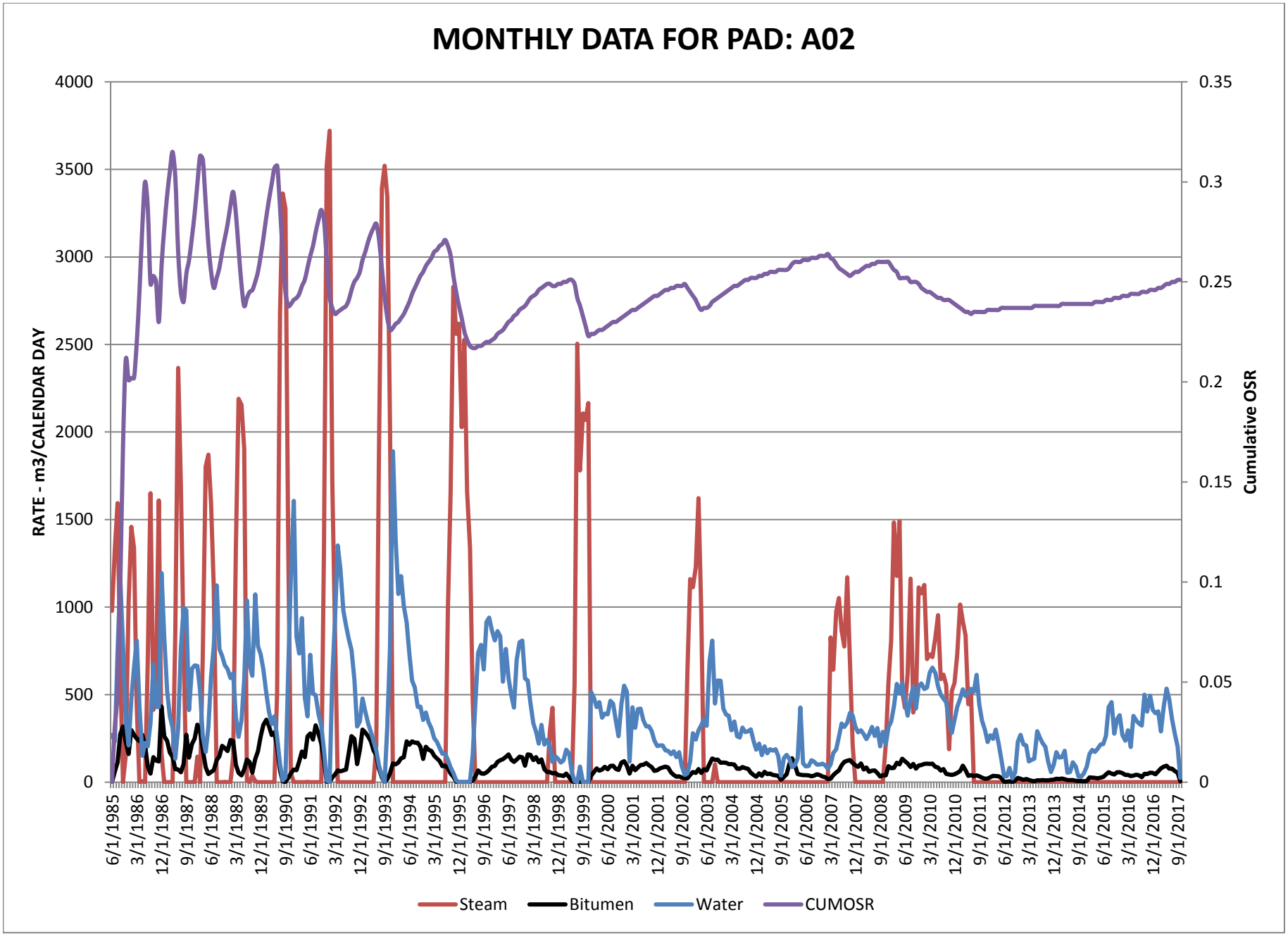
11/1/2008
8/1/2009
5/1/2010
2/1/2011
11/1/2011
12/1/2012
9/1/2013
6/1/2014
3/1/2015
12/1/2015
9/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: A02
RATE - m3/CALENDAR DAY
Cumulative OSR
4000
3500
3000
2500
2000
1500
1000
500
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/1/1985
3/1/1986
12/1/1986
9/1/1987
6/1/1988
3/1/1989
12/1/1989
9/1/1990
6/1/1991
3/1/1992
12/1/1992
9/1/1993
6/1/1994
3/1/1995
12/1/1995
9/1/1996
6/1/1997
3/1/1998
12/1/1998
9/1/1999
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3/1/2001
12/1/2001
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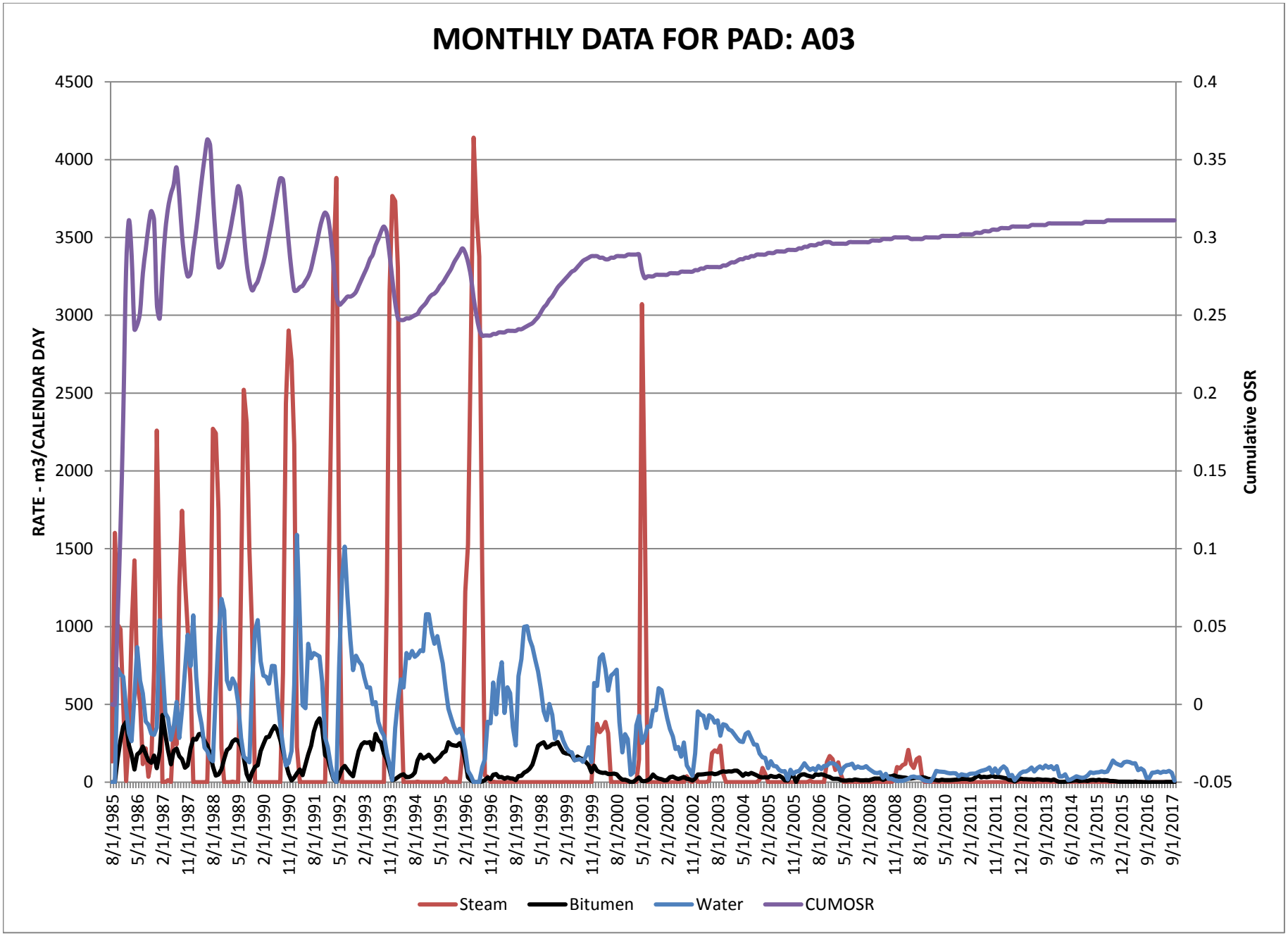
6/1/2003
3/1/2004
12/1/2004
9/1/2005
6/1/2006
3/1/2007
12/1/2007
9/1/2008
6/1/2009
3/1/2010
12/1/2010
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: A03
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
8/1/1985
5/1/1986
2/1/1987
11/1/1987
8/1/1988
5/1/1989
2/1/1990
11/1/1990
8/1/1991
5/1/1992
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11/1/1993
8/1/1994
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2/1/2002
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8/1/2003
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8/1/2006
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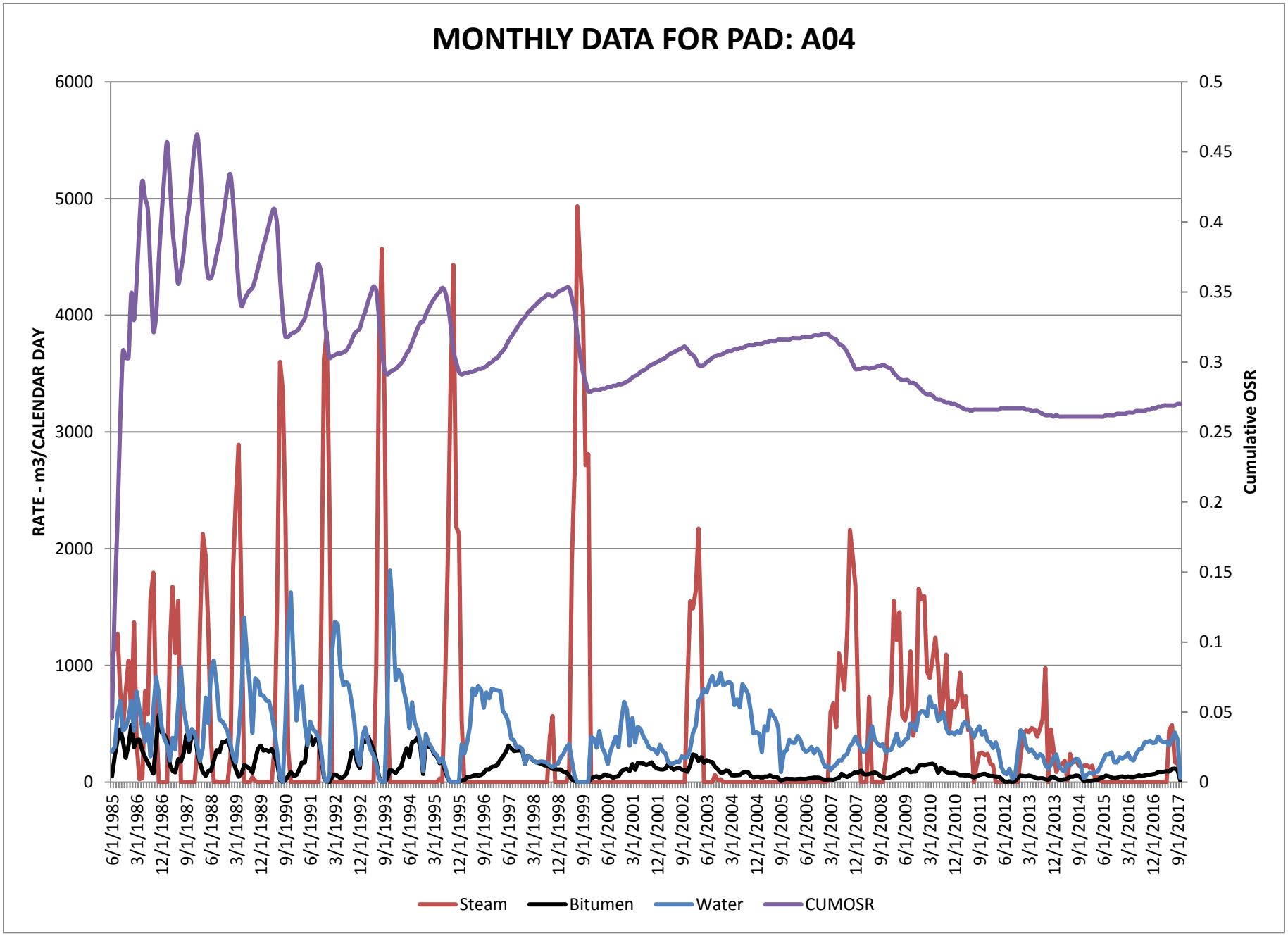
2/1/2008
11/1/2008
8/1/2009
5/1/2010
2/1/2011
11/1/2011
12/1/2012
9/1/2013
6/1/2014
3/1/2015
12/1/2015
9/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: A04
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/1/1985
3/1/1986
12/1/1986
9/1/1987
6/1/1988
3/1/1989
12/1/1989
9/1/1990
6/1/1991
3/1/1992
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9/1/1993
6/1/1994
3/1/1995
12/1/1995
9/1/1996
6/1/1997
3/1/1998
12/1/1998
9/1/1999
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3/1/2001
12/1/2001
9/1/2002
6/1/2003
3/1/2004
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9/1/2005
6/1/2006
3/1/2007
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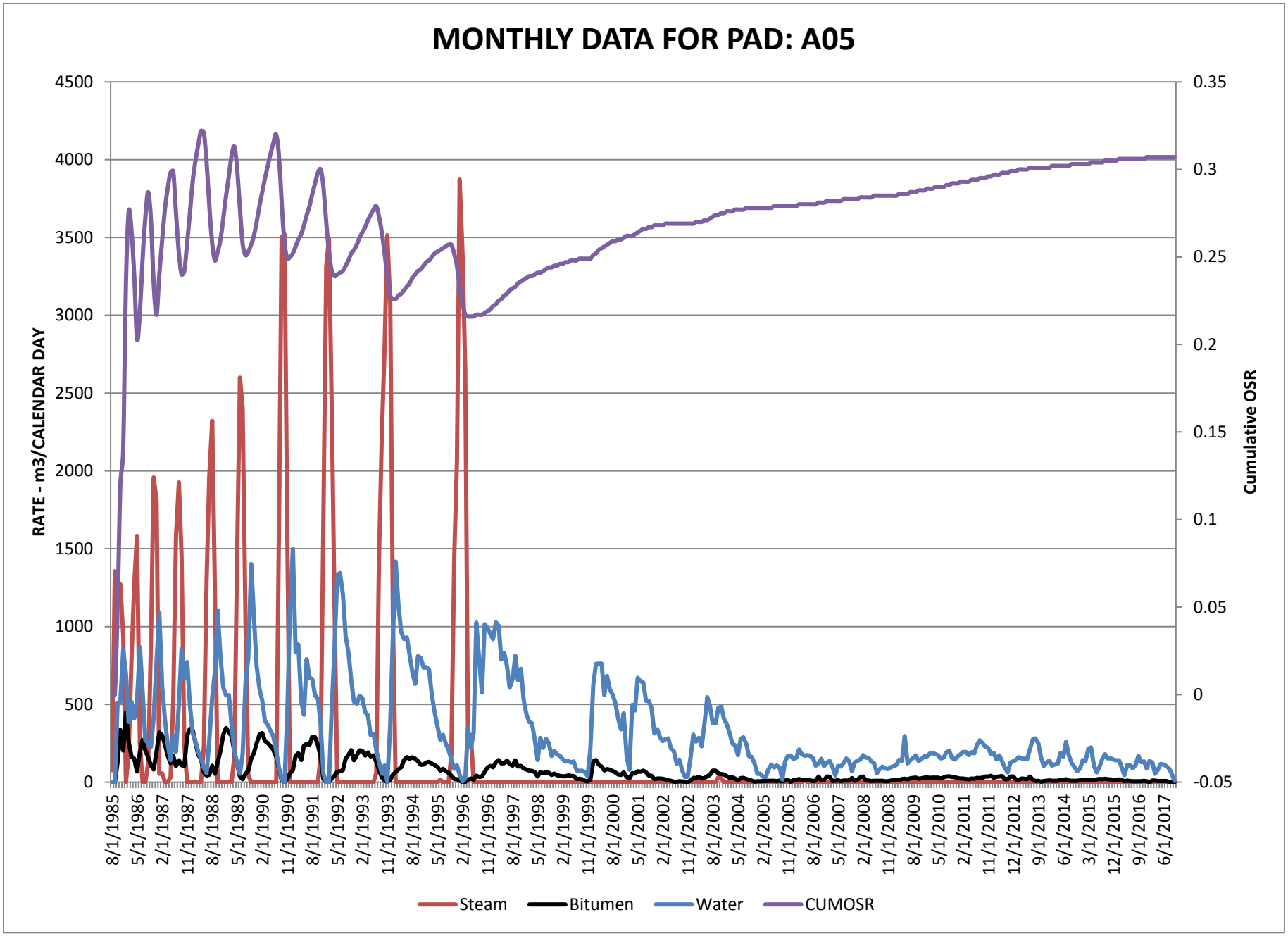
9/1/2008
6/1/2009
3/1/2010
12/1/2010
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: A05
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
8/1/1985
5/1/1986
2/1/1987
11/1/1987
8/1/1988
5/1/1989
2/1/1990
11/1/1990
8/1/1991
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11/1/1993
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11/1/1999
8/1/2000
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2/1/2002
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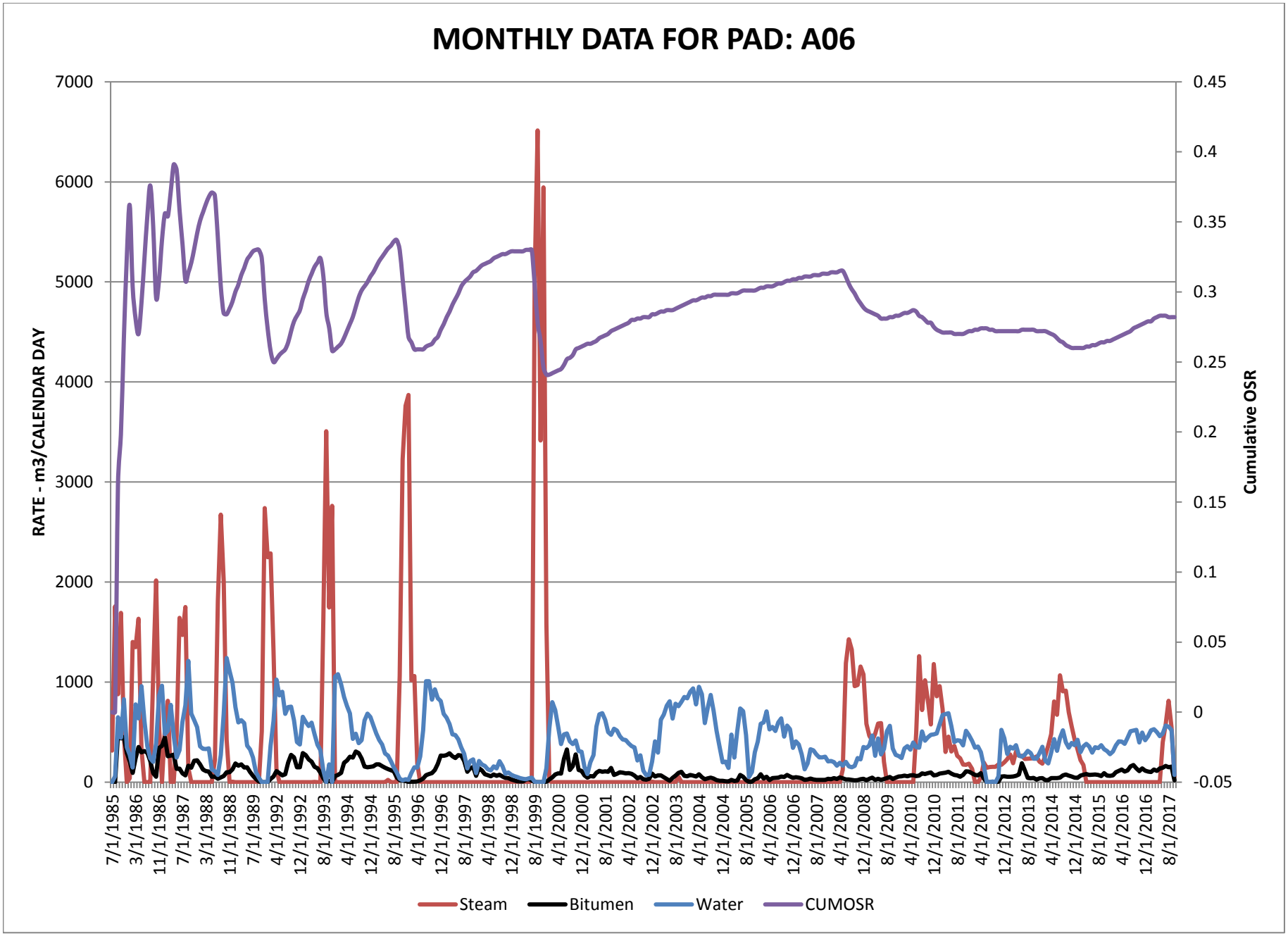
2/1/2005
11/1/2005
8/1/2006
5/1/2007
2/1/2008
11/1/2008
8/1/2009
5/1/2010
2/1/2011
11/1/2011
12/1/2012
9/1/2013
6/1/2014
3/1/2015
12/1/2015
9/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: A06
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
7/1/1985
3/1/1986
11/1/1986
7/1/1987
3/1/1988
11/1/1988
7/1/1989
4/1/1992
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12/1/2012
8/1/2013
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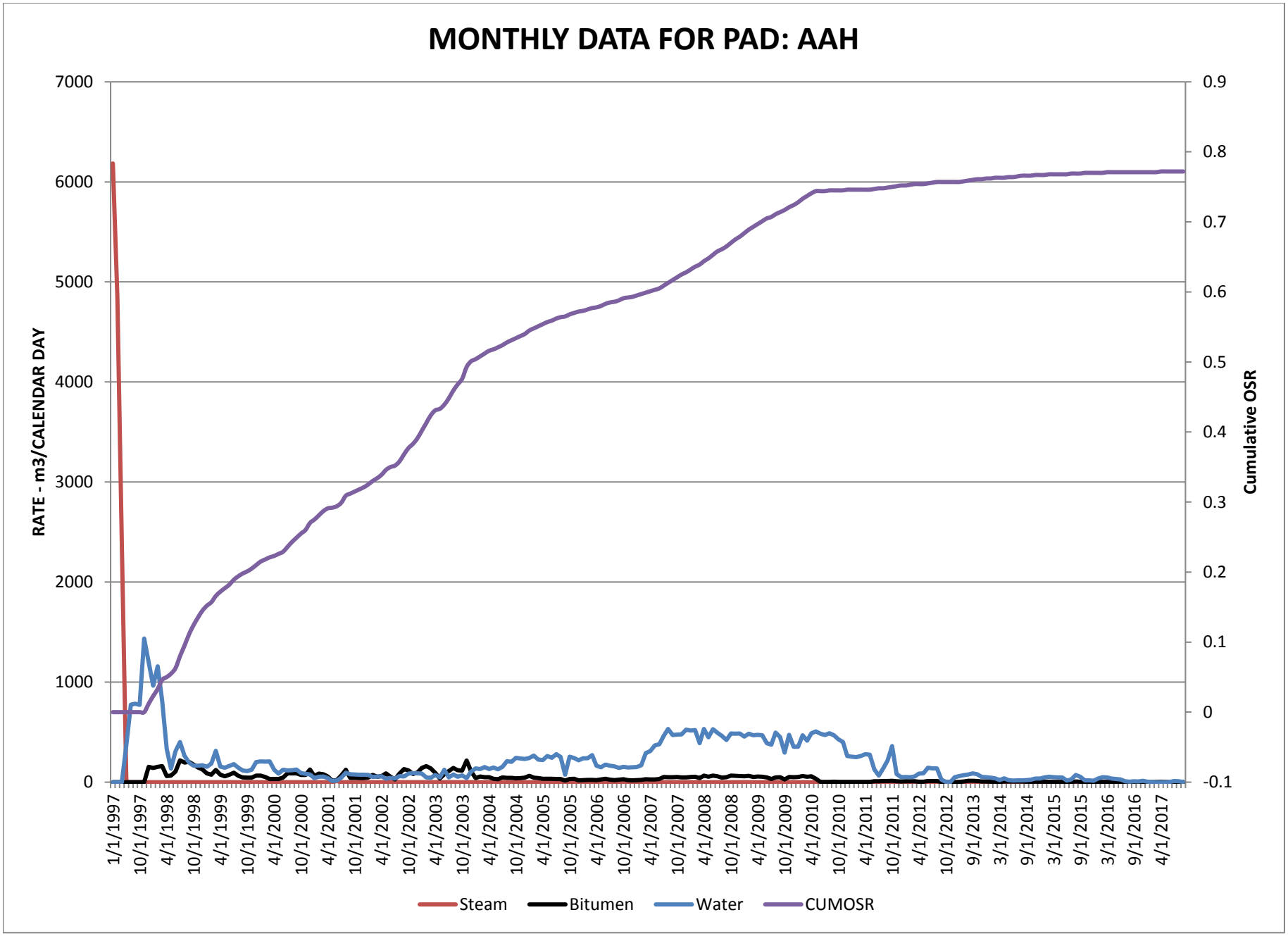
8/1/2015
4/1/2016
12/1/2016
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: AAH
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
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1/1/1997
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9/1/2013
3/1/2014
9/1/2014
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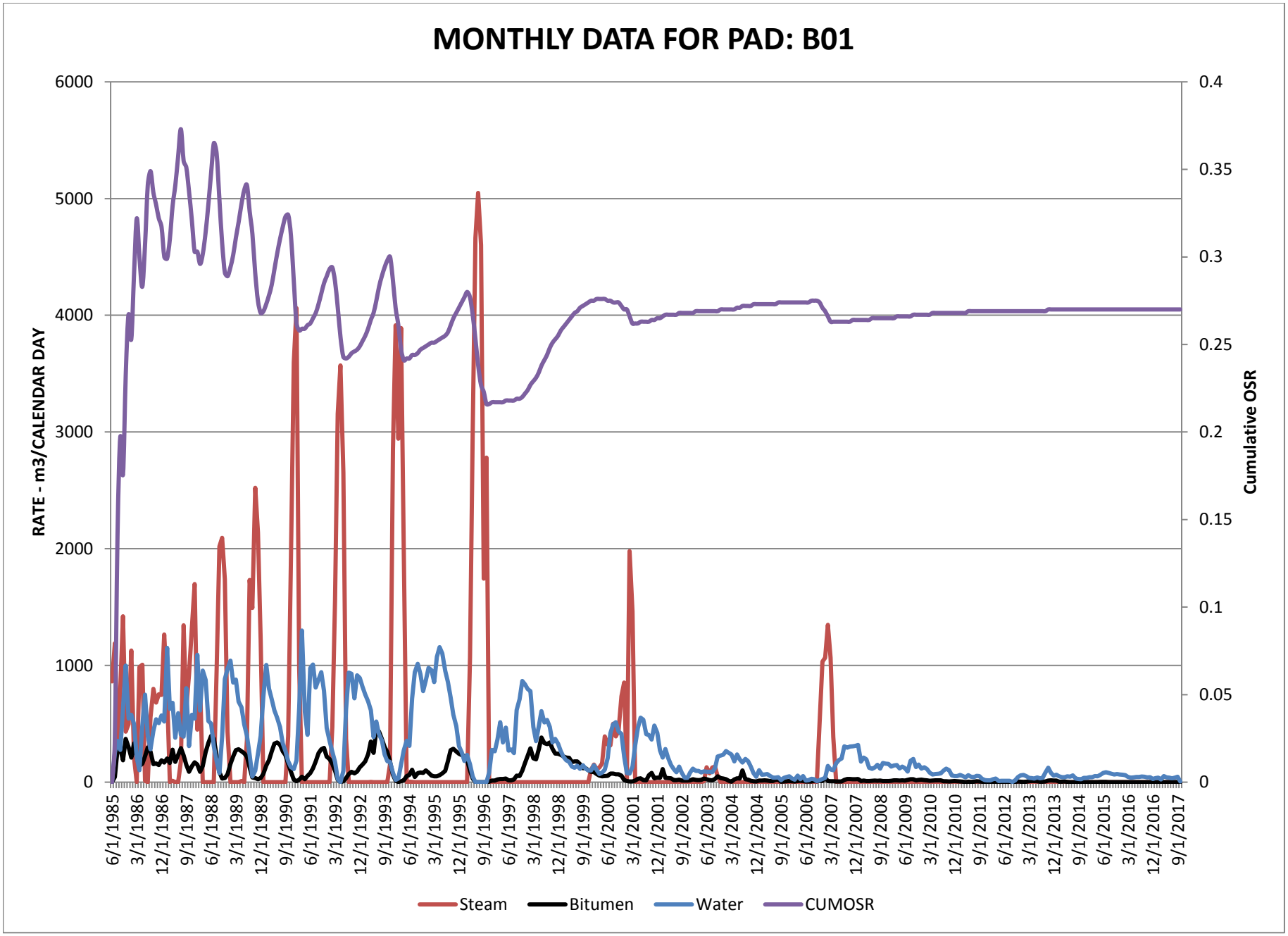
9/1/2015
3/1/2016
9/1/2016
4/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: B01
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/1/1985
3/1/1986
12/1/1986
9/1/1987
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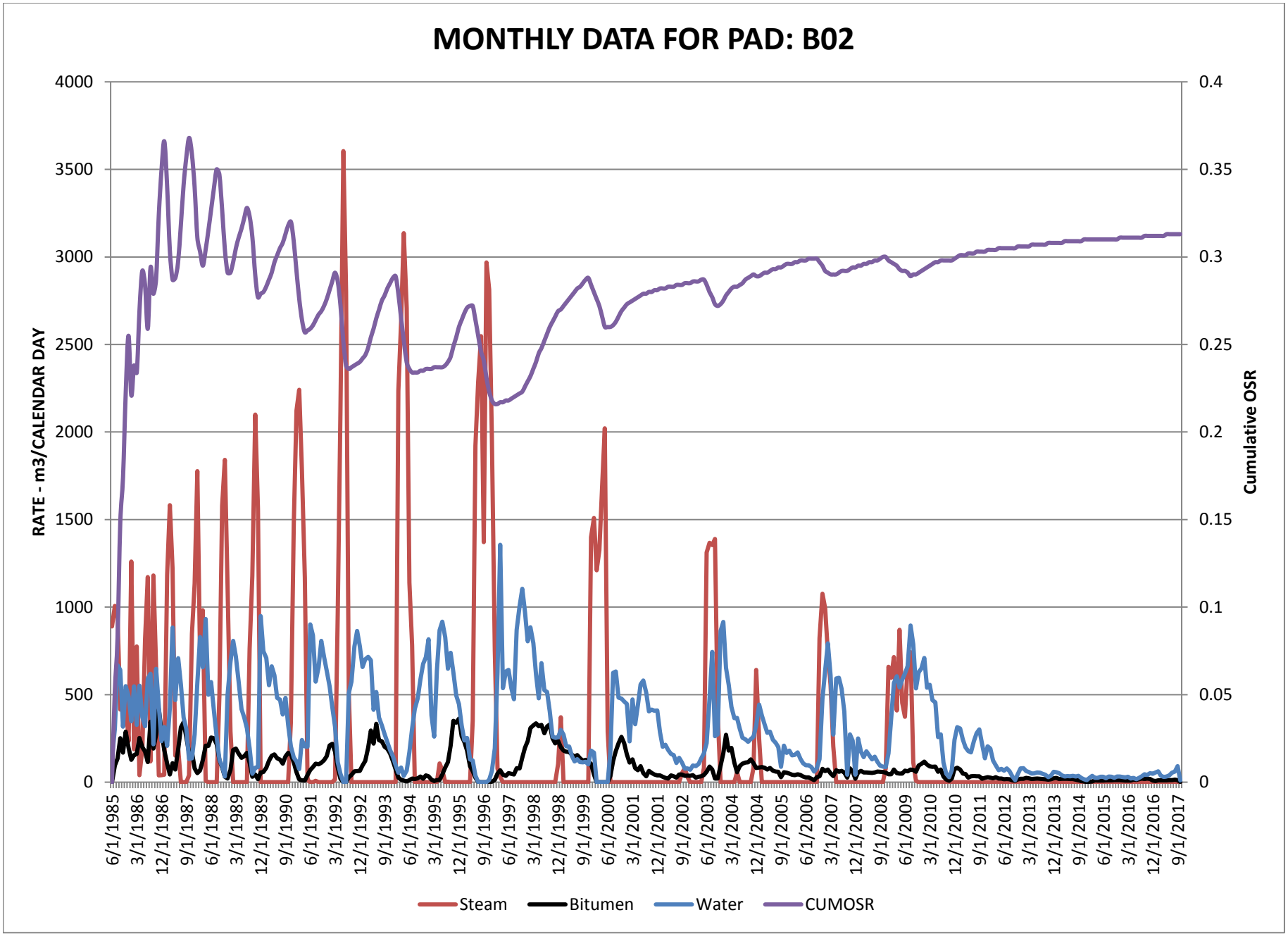
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: B02
RATE - m3/CALENDAR DAY
Cumulative OSR
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3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/1/1985
3/1/1986
12/1/1986
9/1/1987
6/1/1988
3/1/1989
12/1/1989
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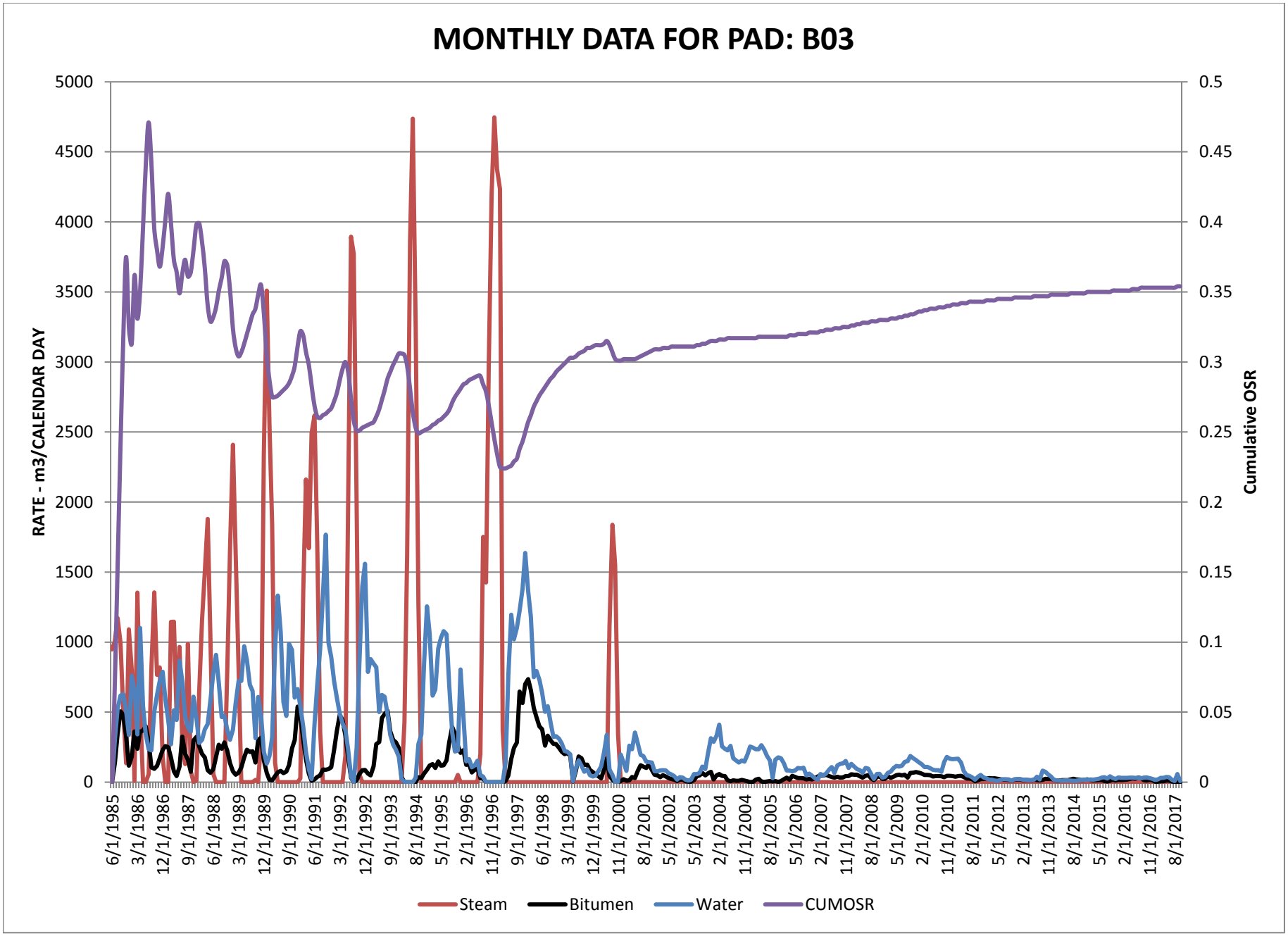
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: B03
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/1/1985
3/1/1986
12/1/1986
9/1/1987
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12/1/1989
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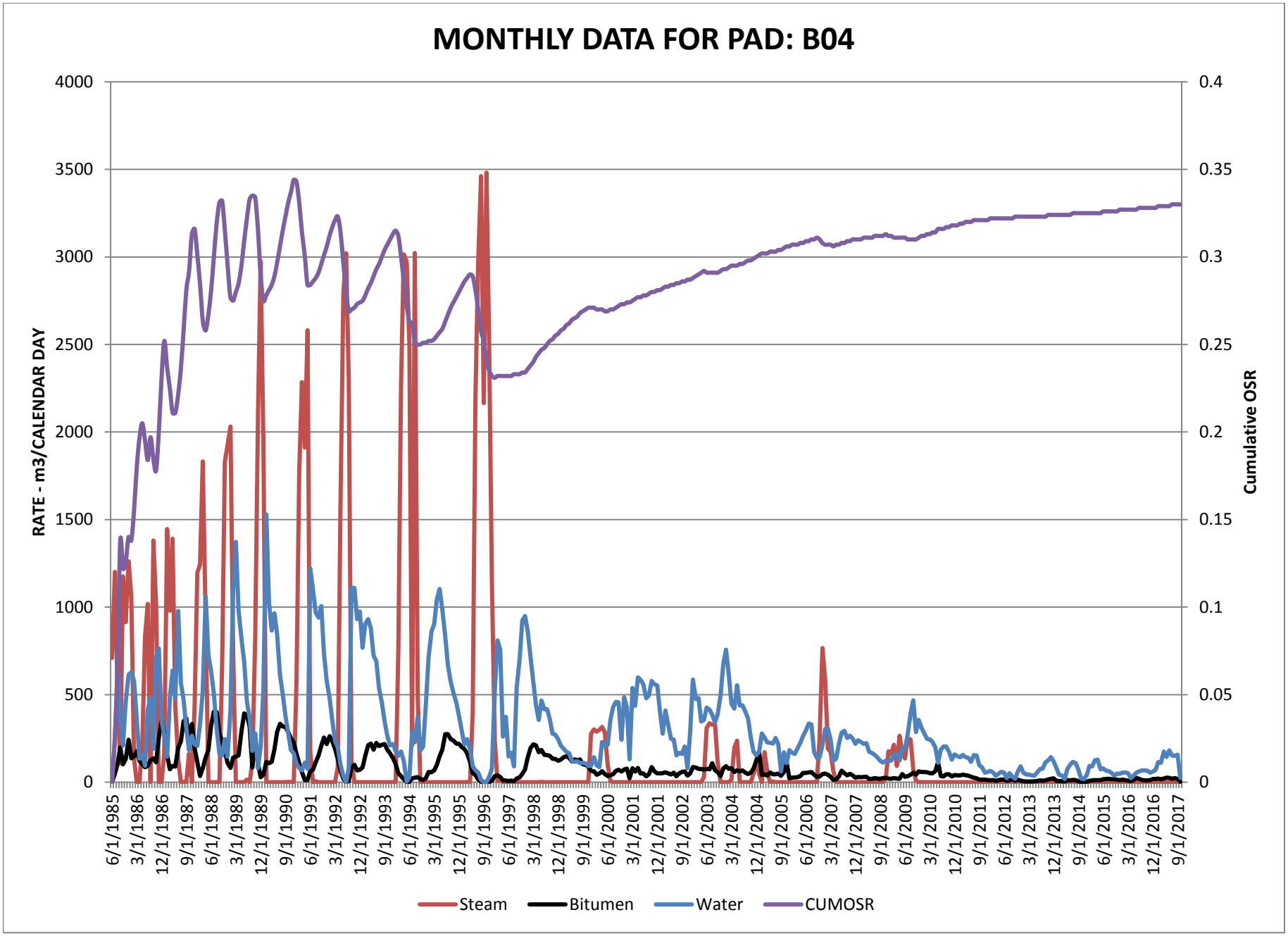
8/1/2011
5/1/2012
2/1/2013
11/1/2013
8/1/2014
5/1/2015
2/1/2016
11/1/2016
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: B04
RATE - m3/CALENDAR DAY
Cumulative OSR
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3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/1/1985
3/1/1986
12/1/1986
9/1/1987
6/1/1988
3/1/1989
12/1/1989
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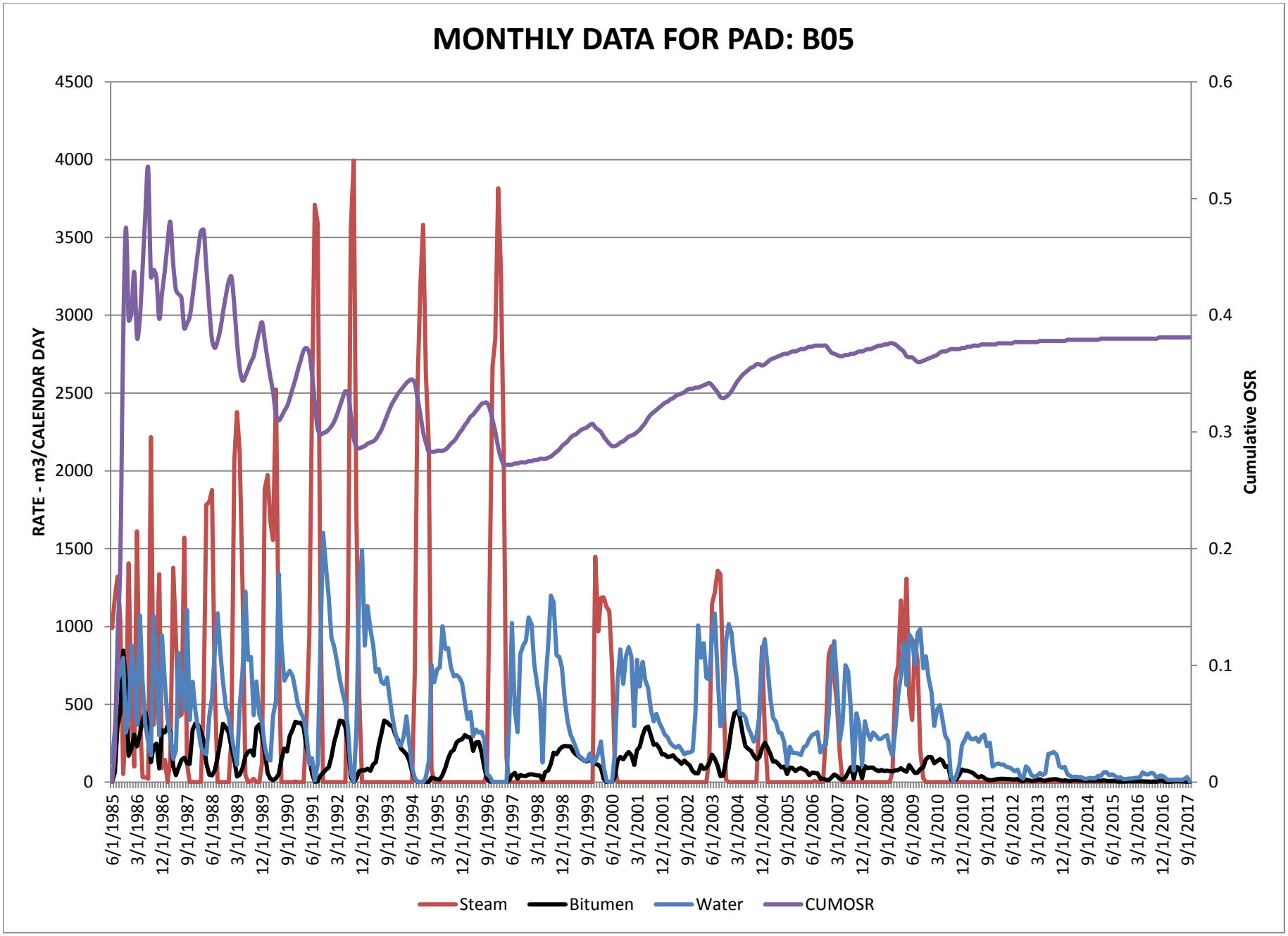
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: B05
RATE - m3/CALENDAR DAY
Cumulative OSR
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3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
6/1/1985
3/1/1986
12/1/1986
9/1/1987
6/1/1988
3/1/1989
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3/1/2013
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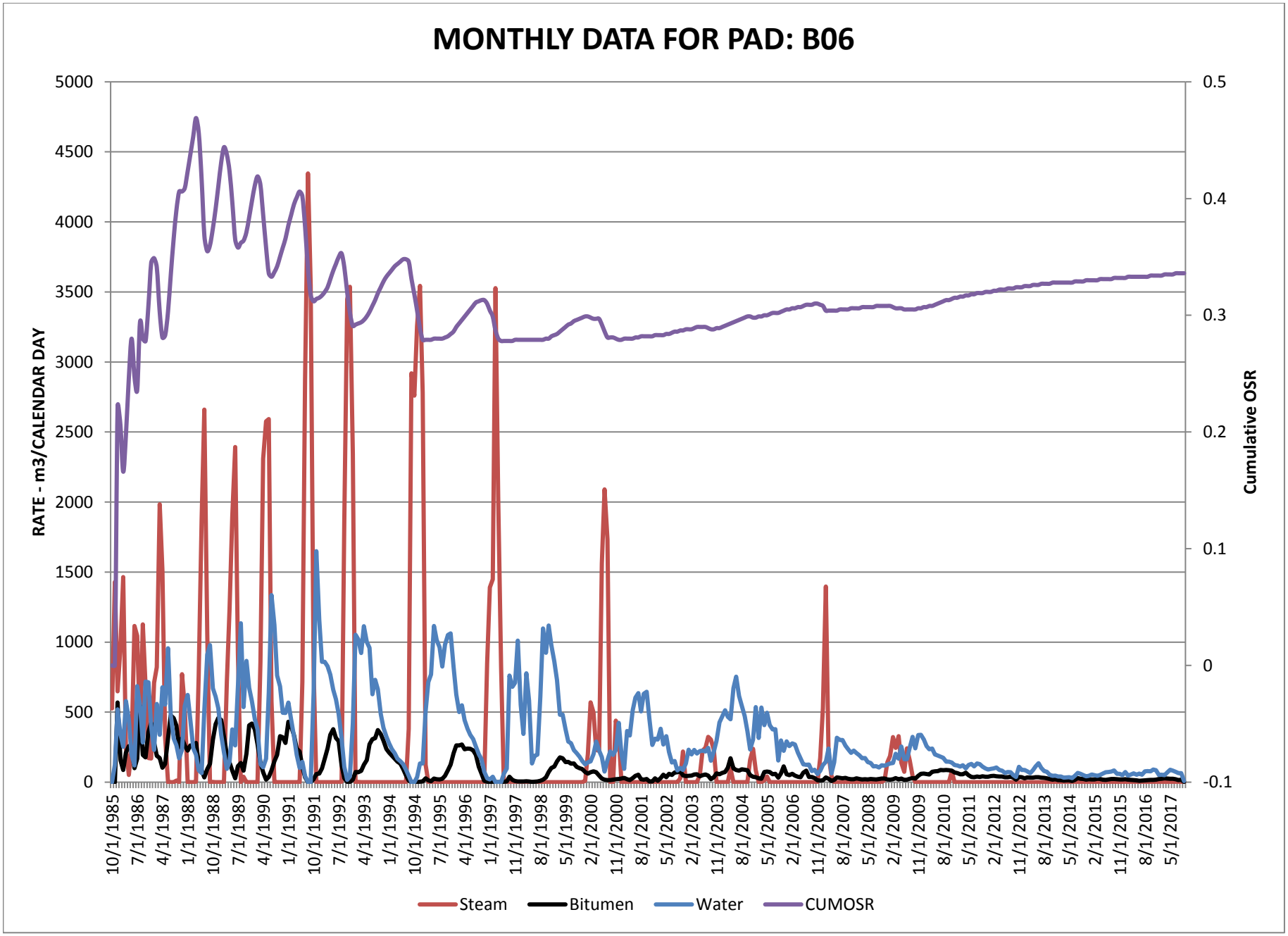
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: B06
RATE - m3/CALENDAR DAY
Cumulative OSR
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4000
3500
3000
2500
2000
1500
1000
500
0
0.5
0.4
0.3
0.2
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0
-0.1
10/1/1985
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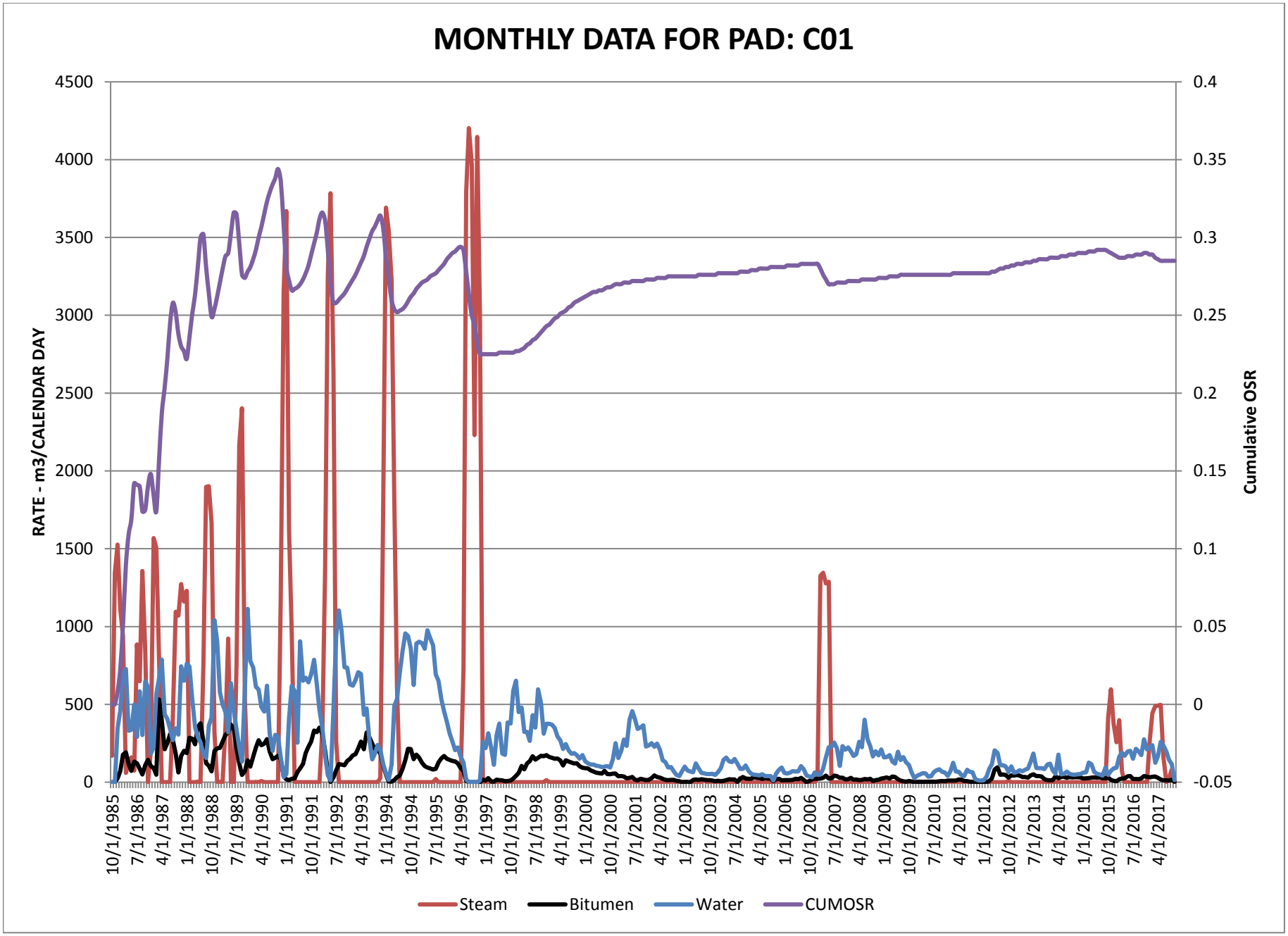
2/1/2012
11/1/2012
8/1/2013
5/1/2014
2/1/2015
11/1/2015
8/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: C01
RATE - m3/CALENDAR DAY
Cumulative OSR
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3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/1985
7/1/1986
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1/1/1988
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4/1/1990
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1/1/2012
10/1/2012
7/1/2013
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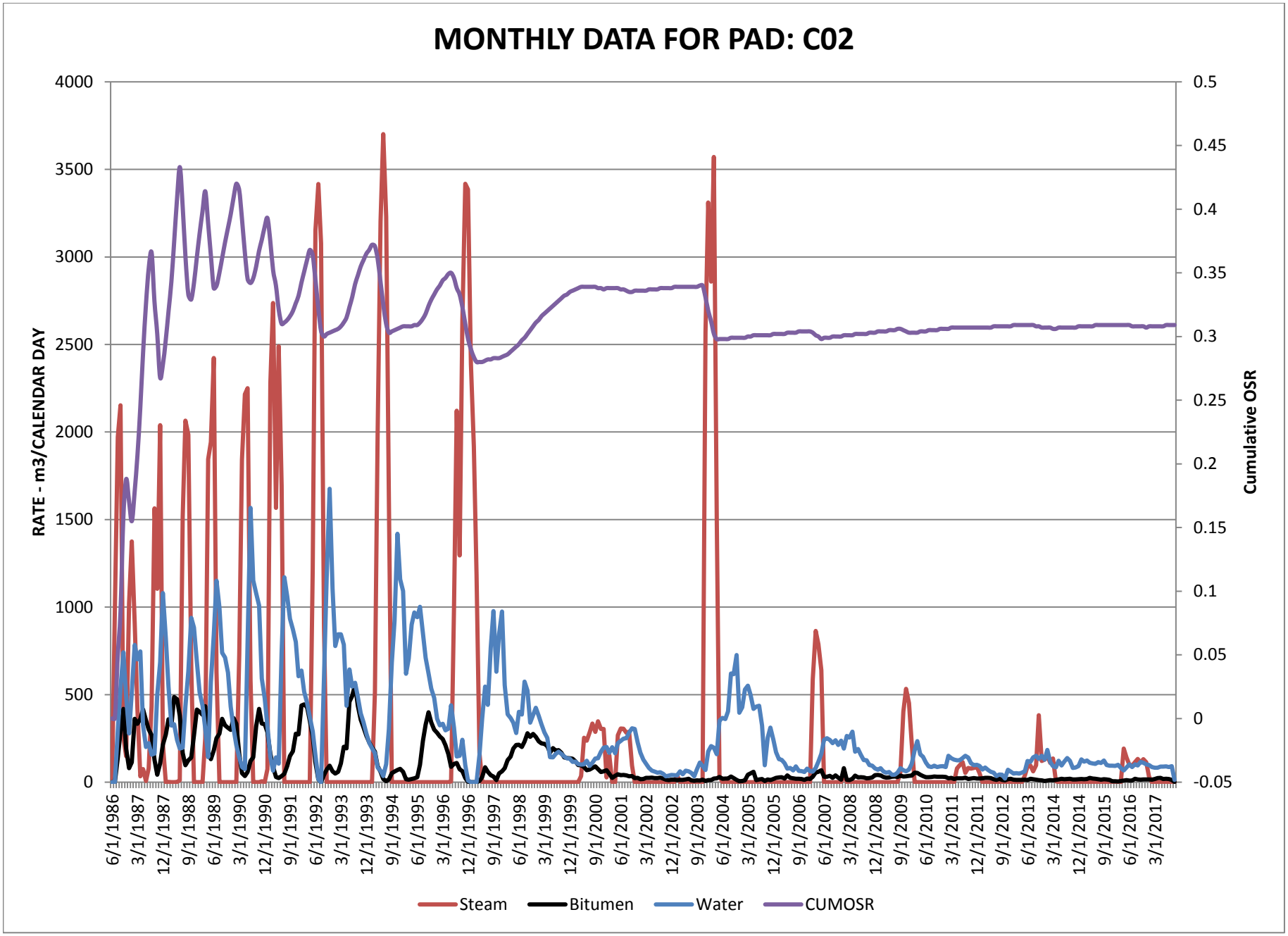
1/1/2015
10/1/2015
7/1/2016
4/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: C02
RATE - m3/CALENDAR DAY
Cumulative OSR
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3000
2500
2000
1500
1000
500
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/1986
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12/1/2011
9/1/2012
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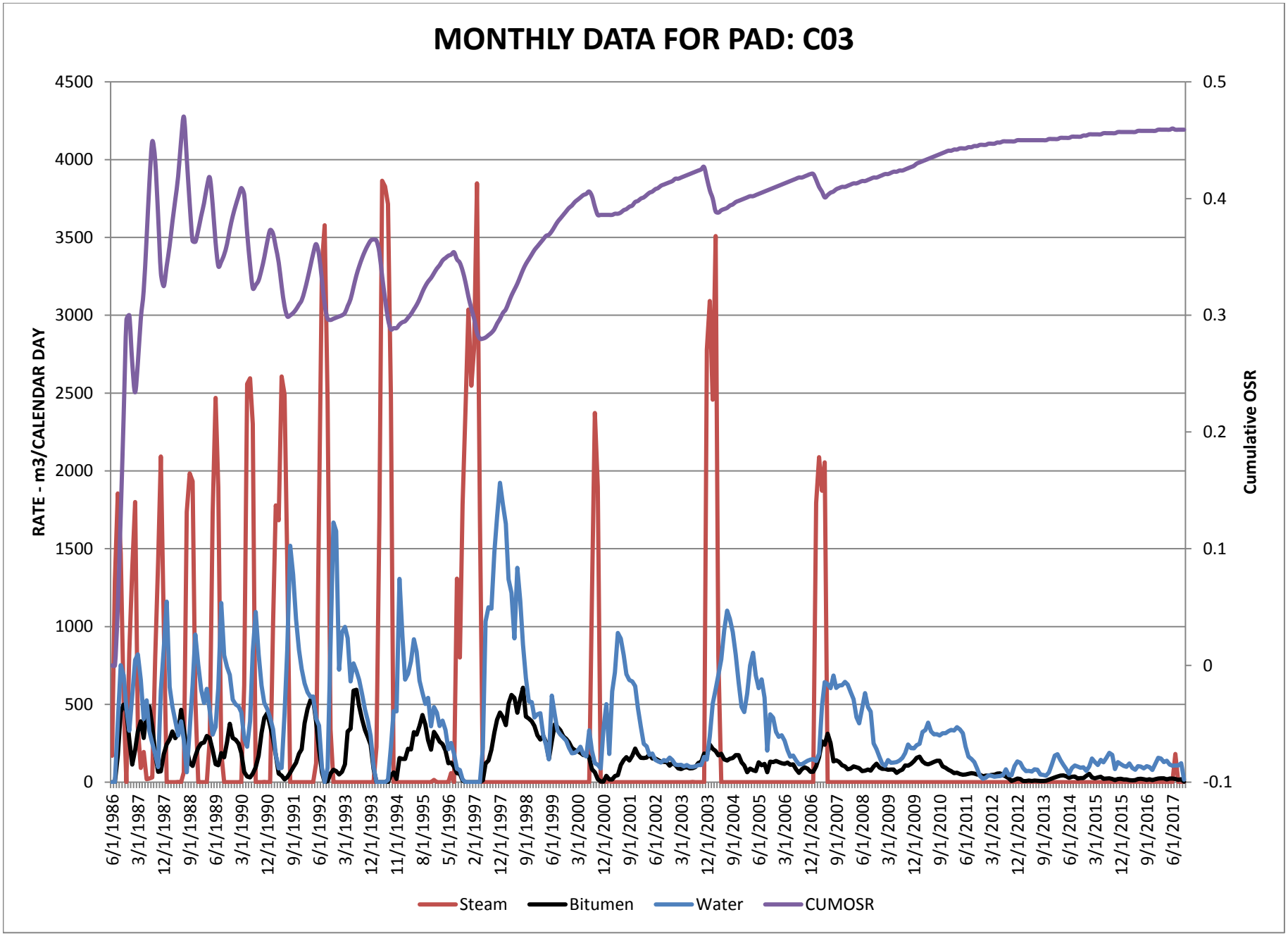
3/1/2014
12/1/2014
9/1/2015
6/1/2016
3/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: C03
RATE - m3/CALENDAR DAY
Cumulative OSR
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3500
3000
2500
2000
1500
1000
500
0
0.5
0.4
0.3
0.2
0.1
0
-0.1
6/1/1986
3/1/1987
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3/1/2012
12/1/2012
9/1/2013
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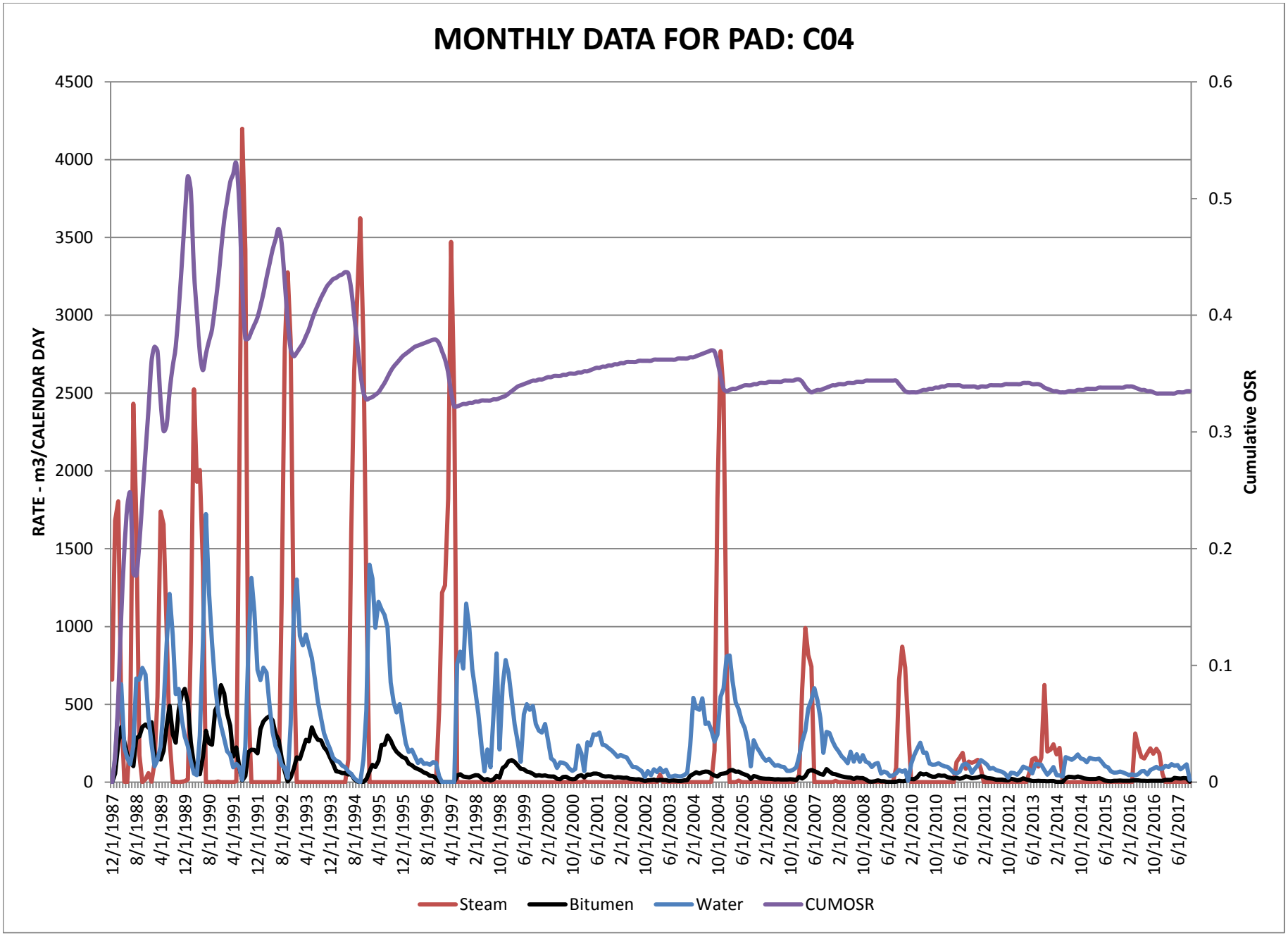
9/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: C04
RATE - m3/CALENDAR DAY
Cumulative OSR
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3500
3000
2500
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1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
12/1/1987
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12/1/1989
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6/1/2013
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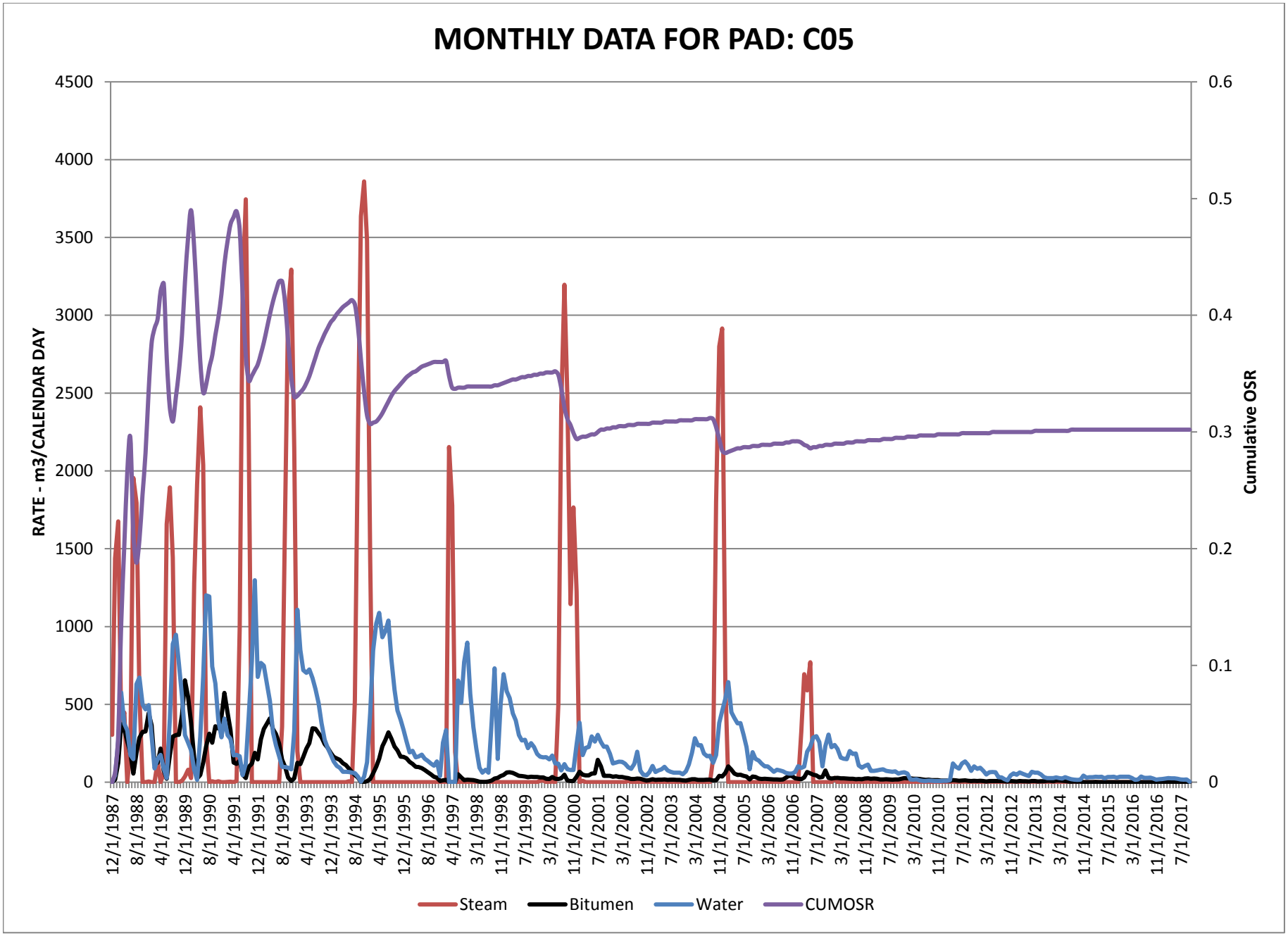
10/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: C05
RATE - m3/CALENDAR DAY
Cumulative OSR
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3500
3000
2500
2000
1500
1000
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0
0.6
0.5
0.4
0.3
0.2
0.1
0
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11/1/2012
7/1/2013
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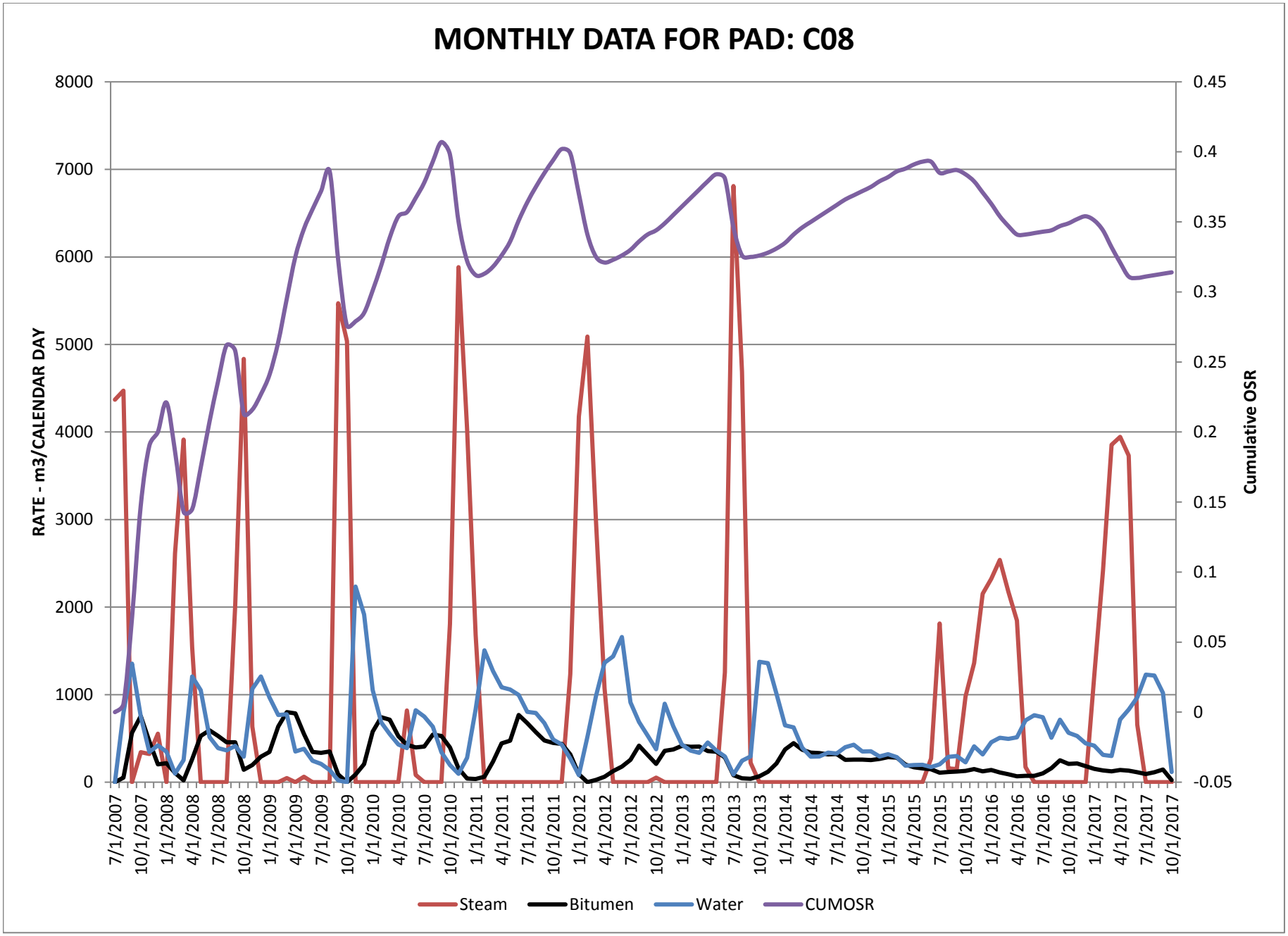
11/1/2014
7/1/2015
3/1/2016
11/1/2016
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: C08
RATE - m3/CALENDAR DAY
Cumulative OSR
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7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
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0.05
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1/1/2008
4/1/2008
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4/1/2016
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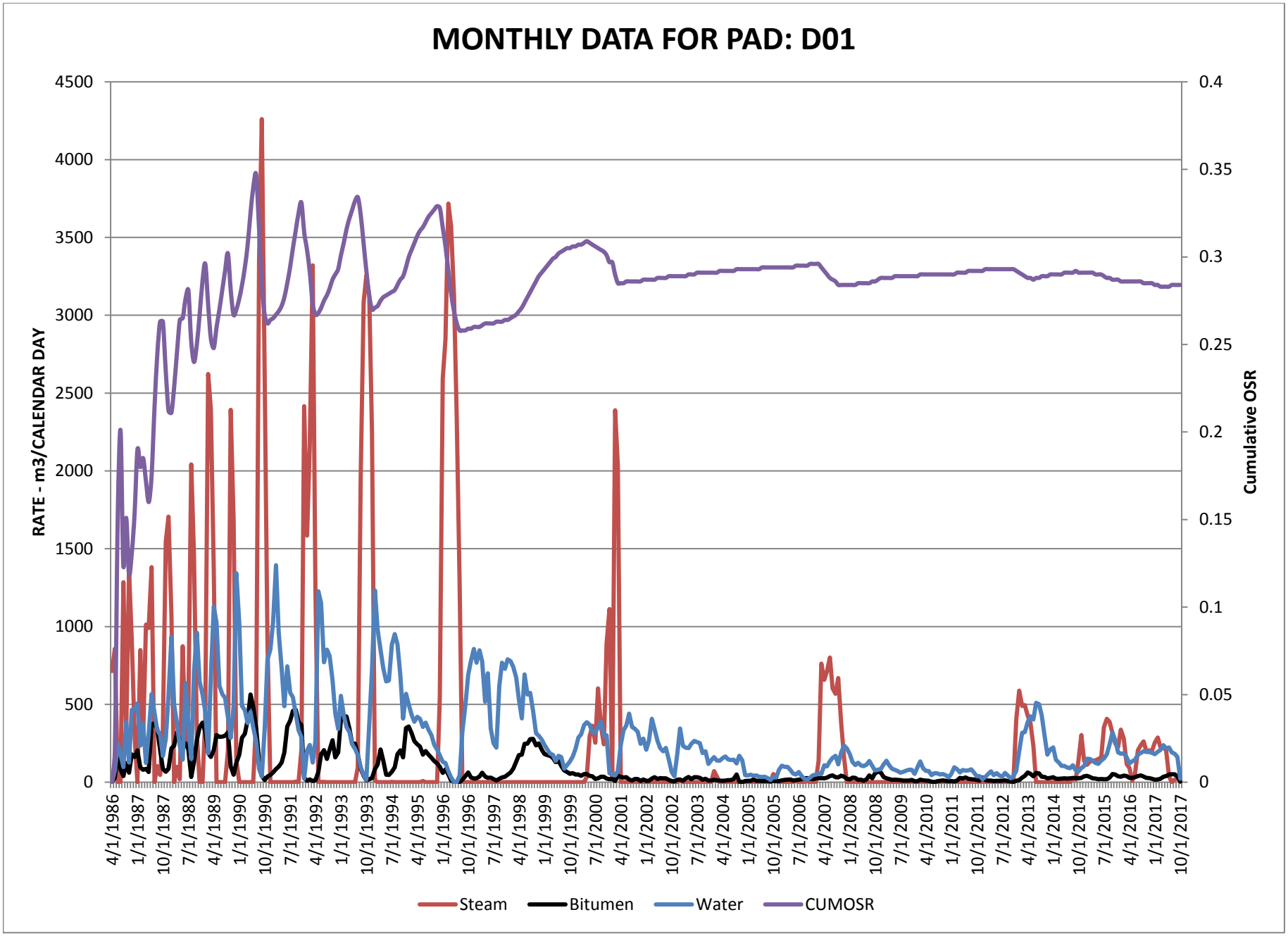
1/1/2017
4/1/2017
7/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D01
RATE - m3/CALENDAR DAY
Cumulative OSR
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3500
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2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
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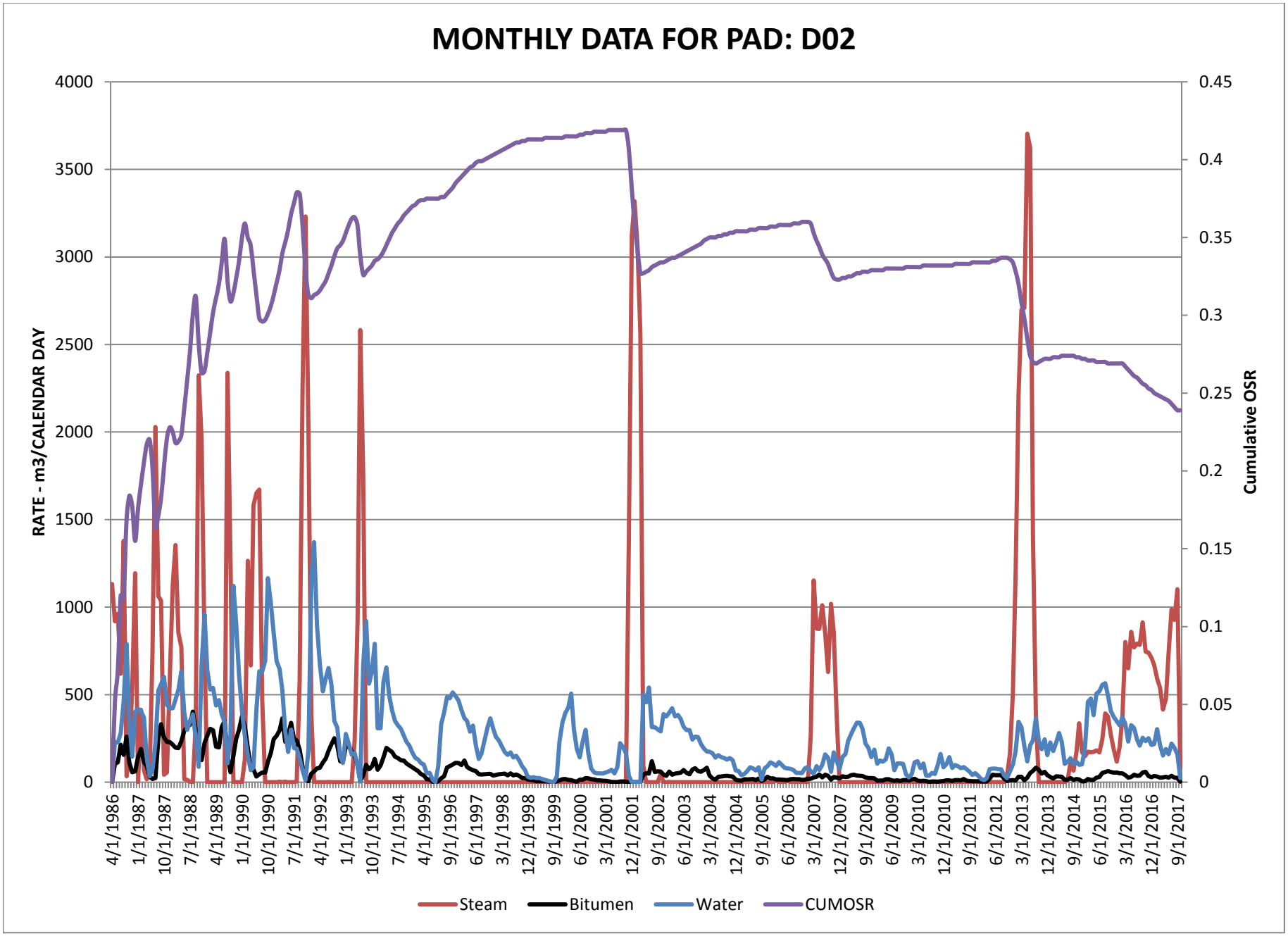
10/1/2014
7/1/2015
4/1/2016
1/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D02
RATE - m3/CALENDAR DAY
Cumulative OSR
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3000
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
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1/1/1990
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9/1/2002
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6/1/2009
3/1/2010
12/1/2010
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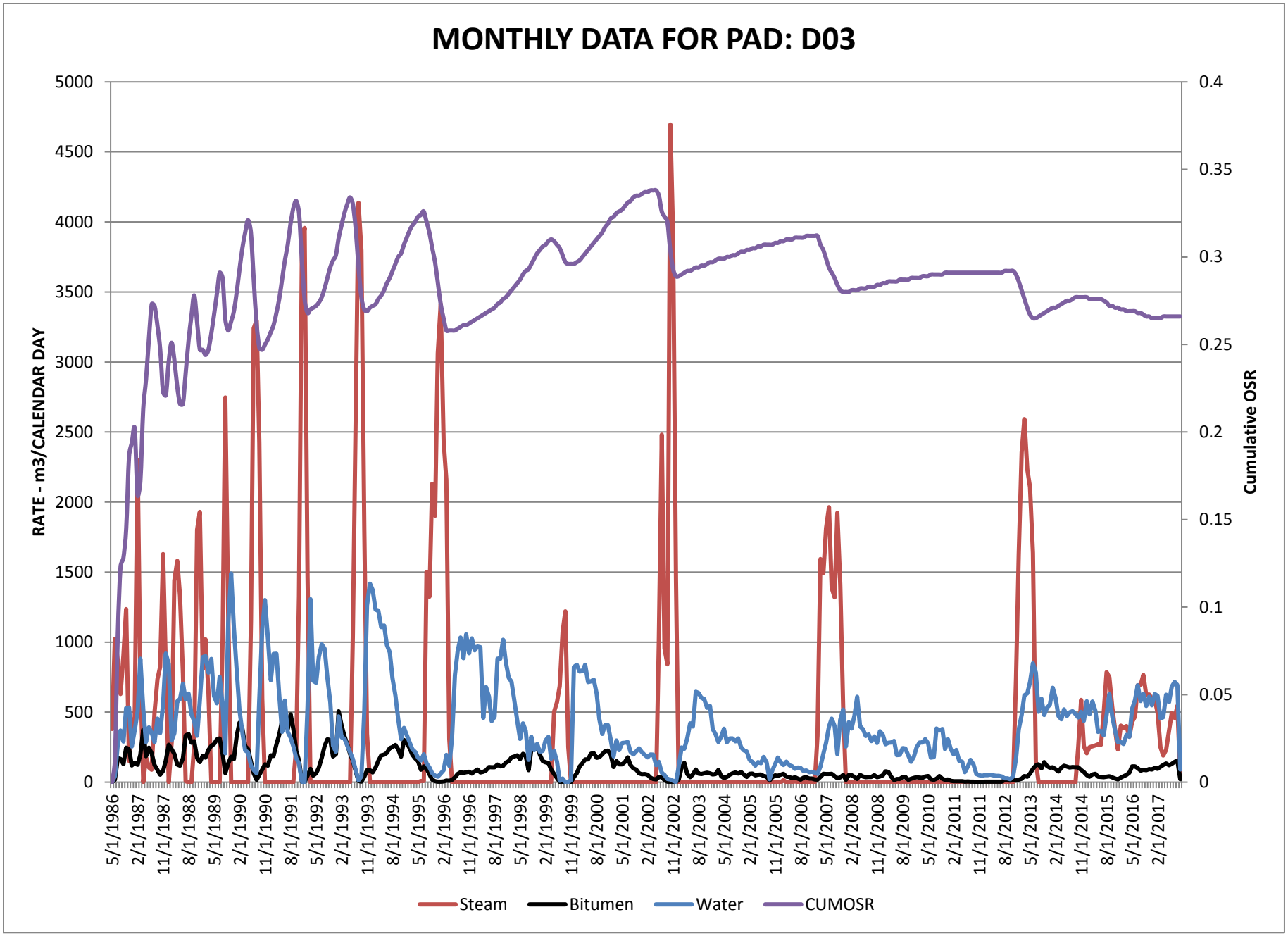
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D03
RATE - m3/CALENDAR DAY
Cumulative OSR
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4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/1986
2/1/1987
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8/1/1988
5/1/1989
2/1/1990
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8/1/2006
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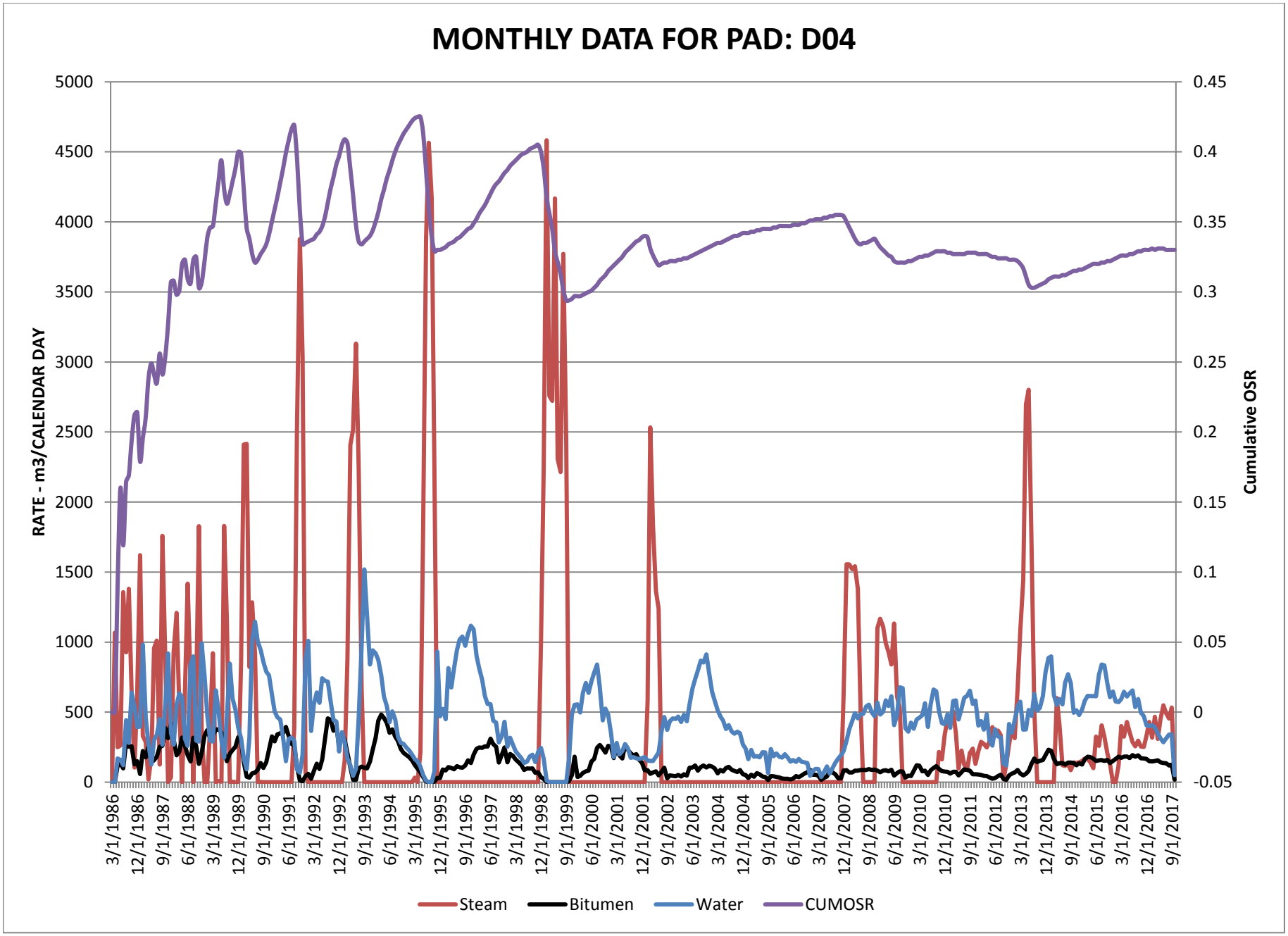
2/1/2008
11/1/2008
8/1/2009
5/1/2010
2/1/2011
11/1/2011
8/1/2012
5/1/2013
2/1/2014
11/1/2014
8/1/2015
5/1/2016
2/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D04
RATE - m3/CALENDAR DAY
Cumulative OSR
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4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/1986
12/1/1986
9/1/1987
6/1/1988
3/1/1989
12/1/1989
9/1/1990
6/1/1991
3/1/1992
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9/1/1993
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9/1/1996
6/1/1997
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9/1/1999
6/1/2000
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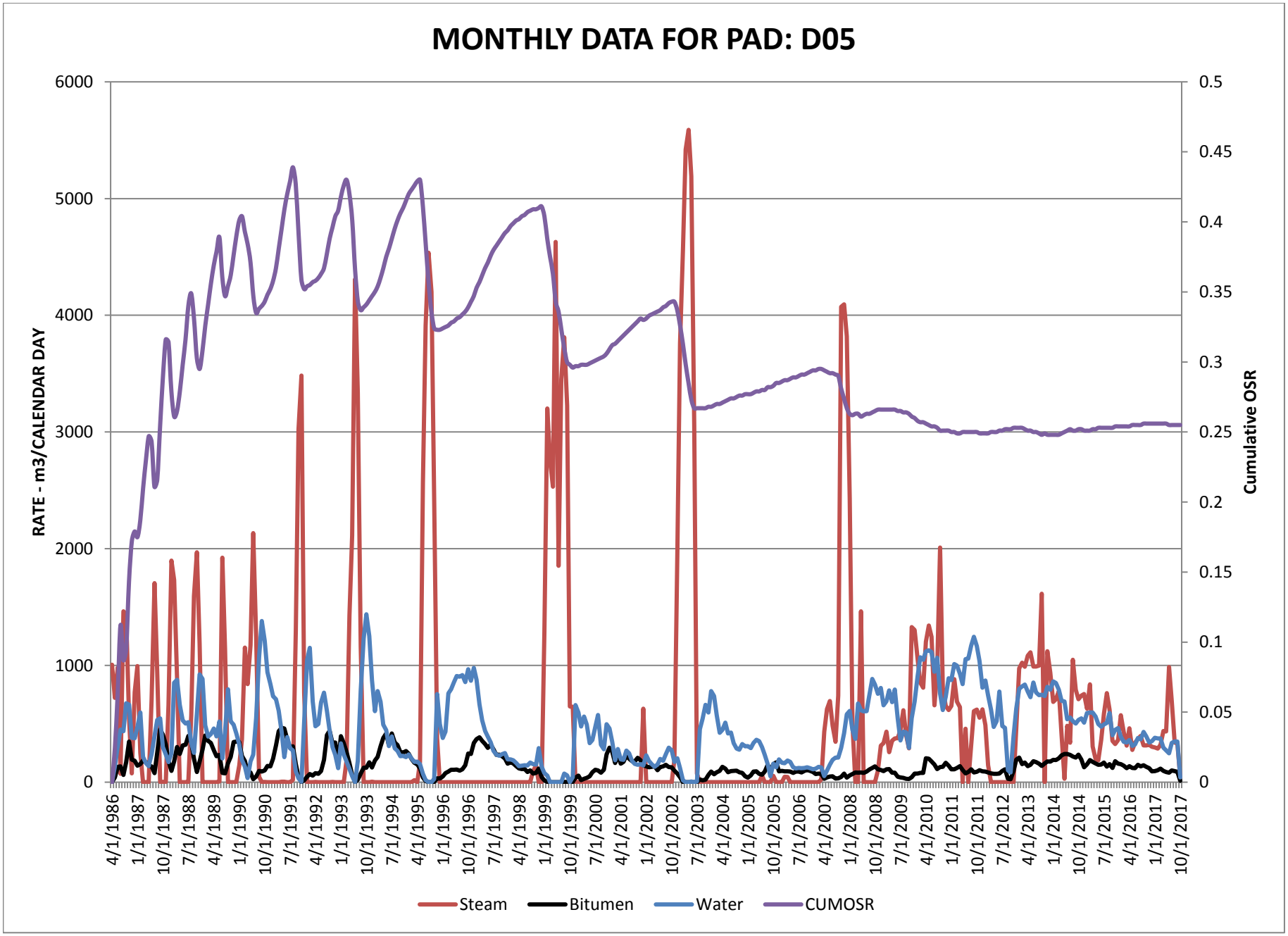
12/1/2001
9/1/2002
6/1/2003
3/1/2004
12/1/2004
9/1/2005
6/1/2006
3/1/2007
12/1/2007
9/1/2008
6/1/2009
3/1/2010
12/1/2010
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D05
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4/1/1986
1/1/1987
10/1/1987
7/1/1988
4/1/1989
1/1/1990
10/1/1990
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7/1/1994
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7/1/1997
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7/1/2000
4/1/2001
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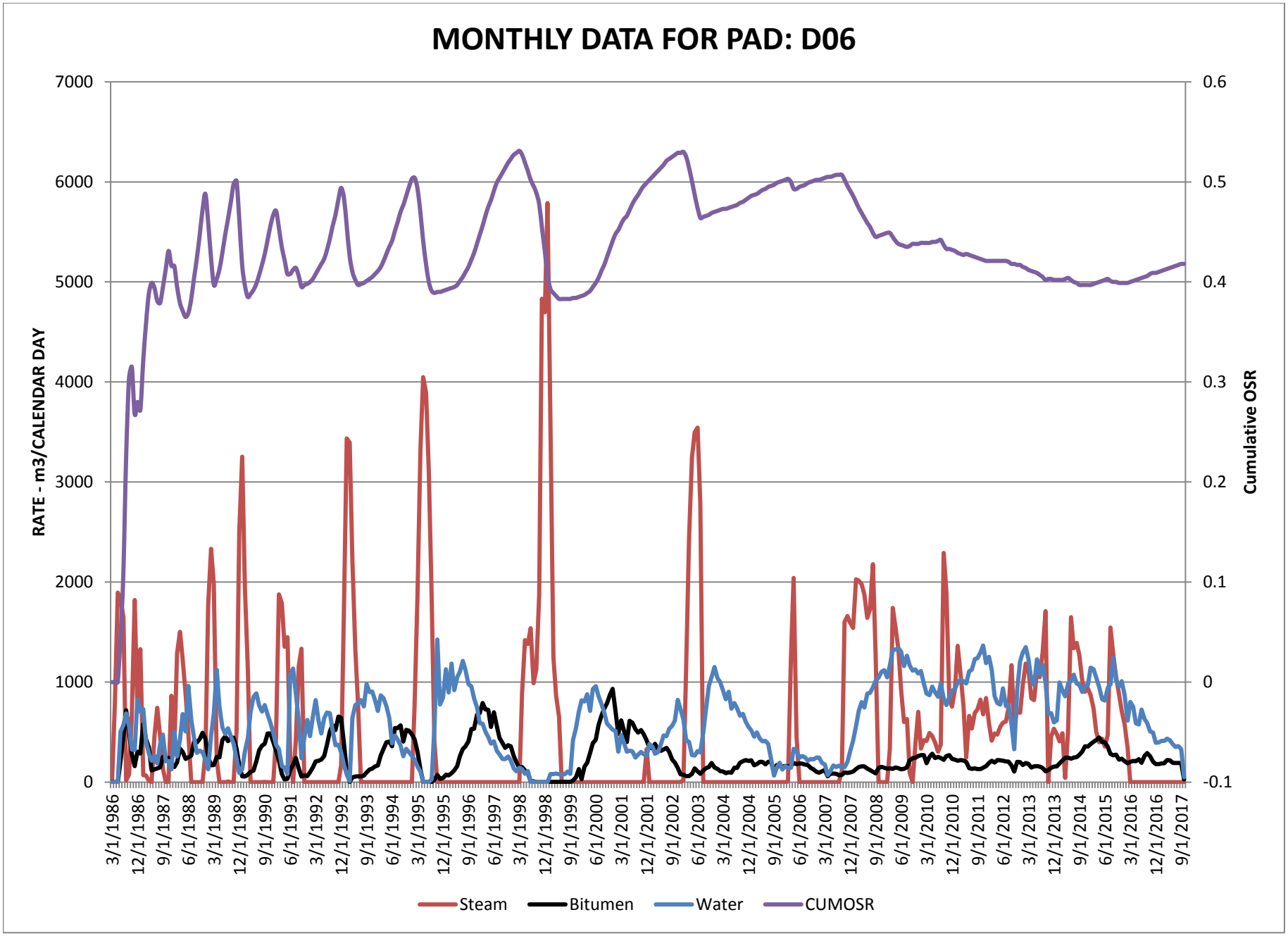
10/1/2002
7/1/2003
4/1/2004
1/1/2005
10/1/2005
7/1/2006
4/1/2007
1/1/2008
10/1/2008
7/1/2009
4/1/2010
1/1/2011
10/1/2011
7/1/2012
4/1/2013
1/1/2014
10/1/2014
7/1/2015
4/1/2016
1/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D06
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
3/1/1986
12/1/1986
9/1/1987
6/1/1988
3/1/1989
12/1/1989
9/1/1990
6/1/1991
3/1/1992
12/1/1992
9/1/1993
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12/1/1995
9/1/1996
6/1/1997
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12/1/2001
9/1/2002
6/1/2003
3/1/2004
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9/1/2005
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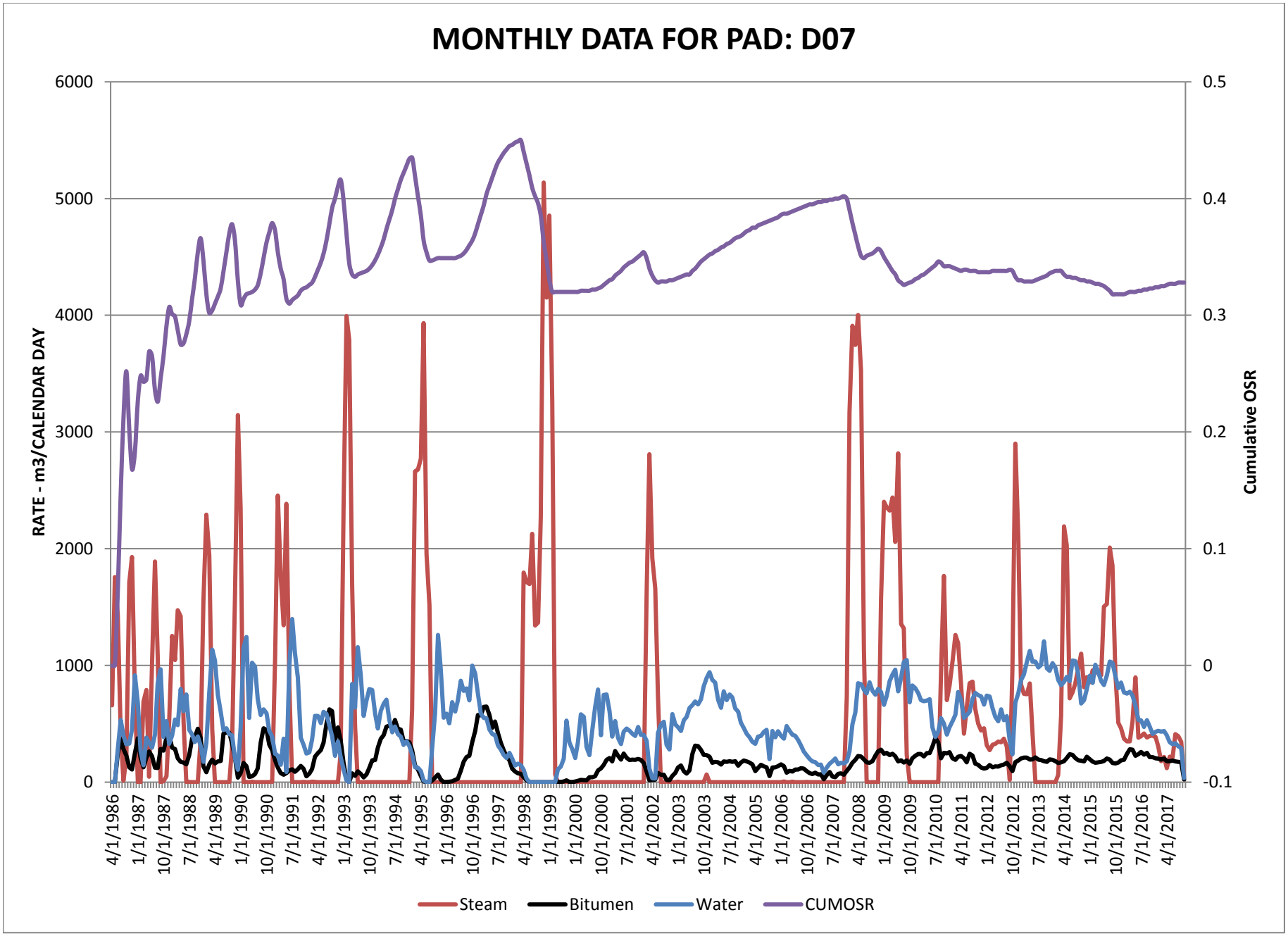
12/1/2007
9/1/2008
6/1/2009
3/1/2010
12/1/2010
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D07
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.5
0.4
0.3
0.2
0.1
0
-0.1
4/1/1986
1/1/1987
10/1/1987
7/1/1988
4/1/1989
1/1/1990
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7/1/1991
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7/1/1997
4/1/1998
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7/1/2001
4/1/2002
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7/1/2004
4/1/2005
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7/1/2007
4/1/2008
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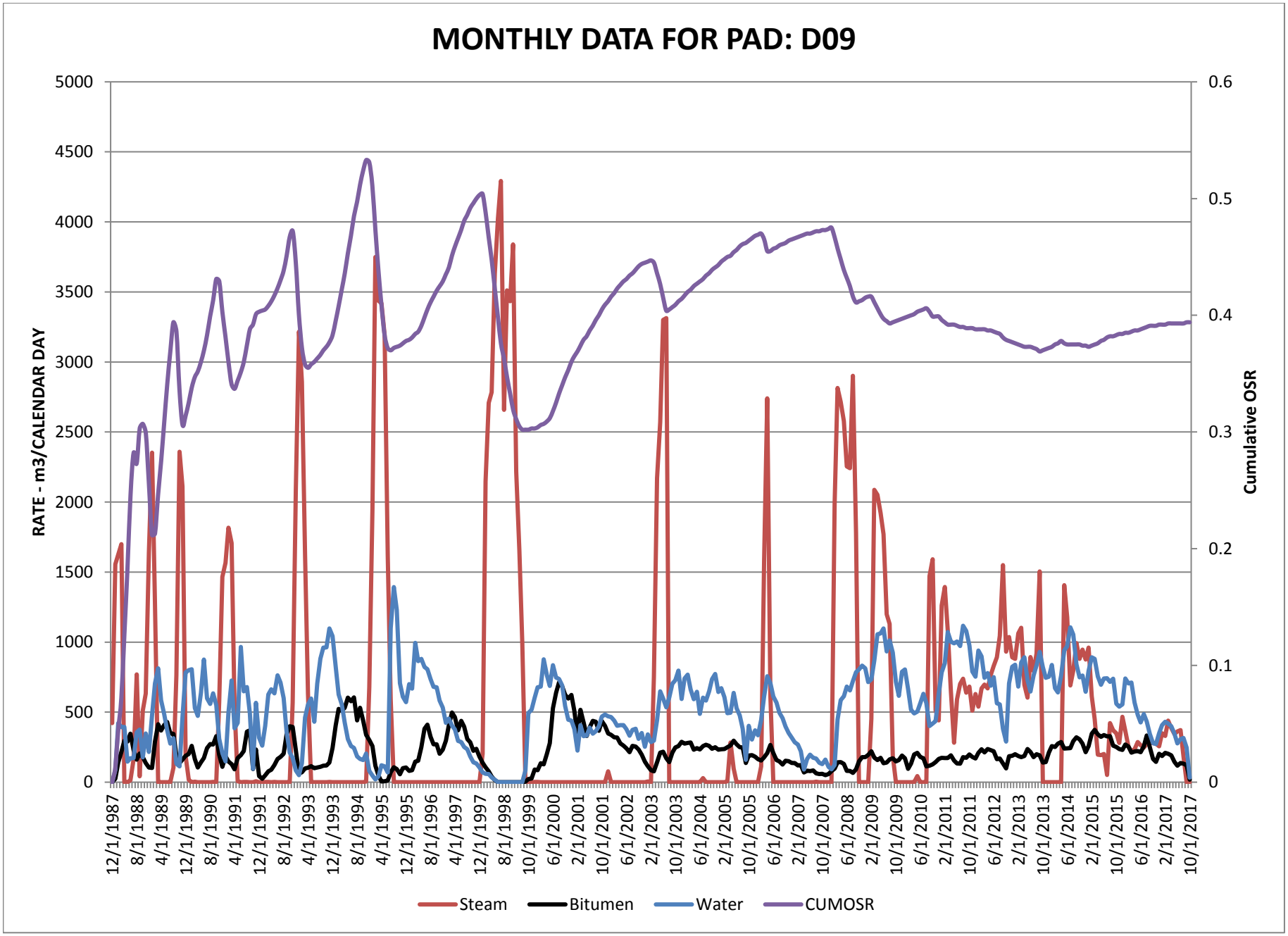
7/1/2010
4/1/2011
1/1/2012
10/1/2012
7/1/2013
4/1/2014
1/1/2015
10/1/2015
7/1/2016
4/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D09
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
12/1/1987
8/1/1988
4/1/1989
12/1/1989
8/1/1990
4/1/1991
12/1/1991
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8/1/1996
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6/1/2008
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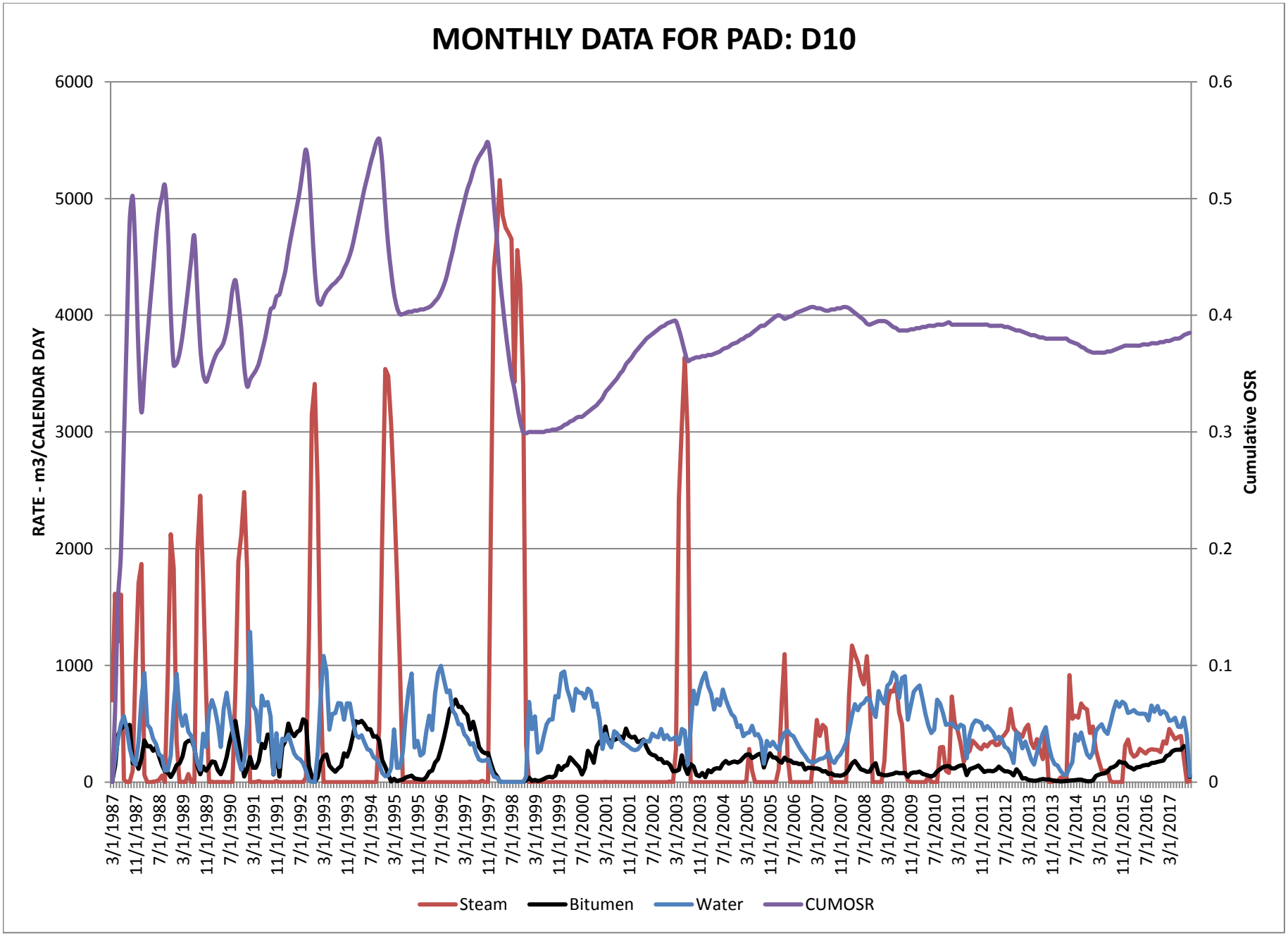
6/1/2012
2/1/2013
10/1/2013
6/1/2014
2/1/2015
10/1/2015
6/1/2016
2/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D10
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
3/1/1987
11/1/1987
7/1/1988
3/1/1989
11/1/1989
7/1/1990
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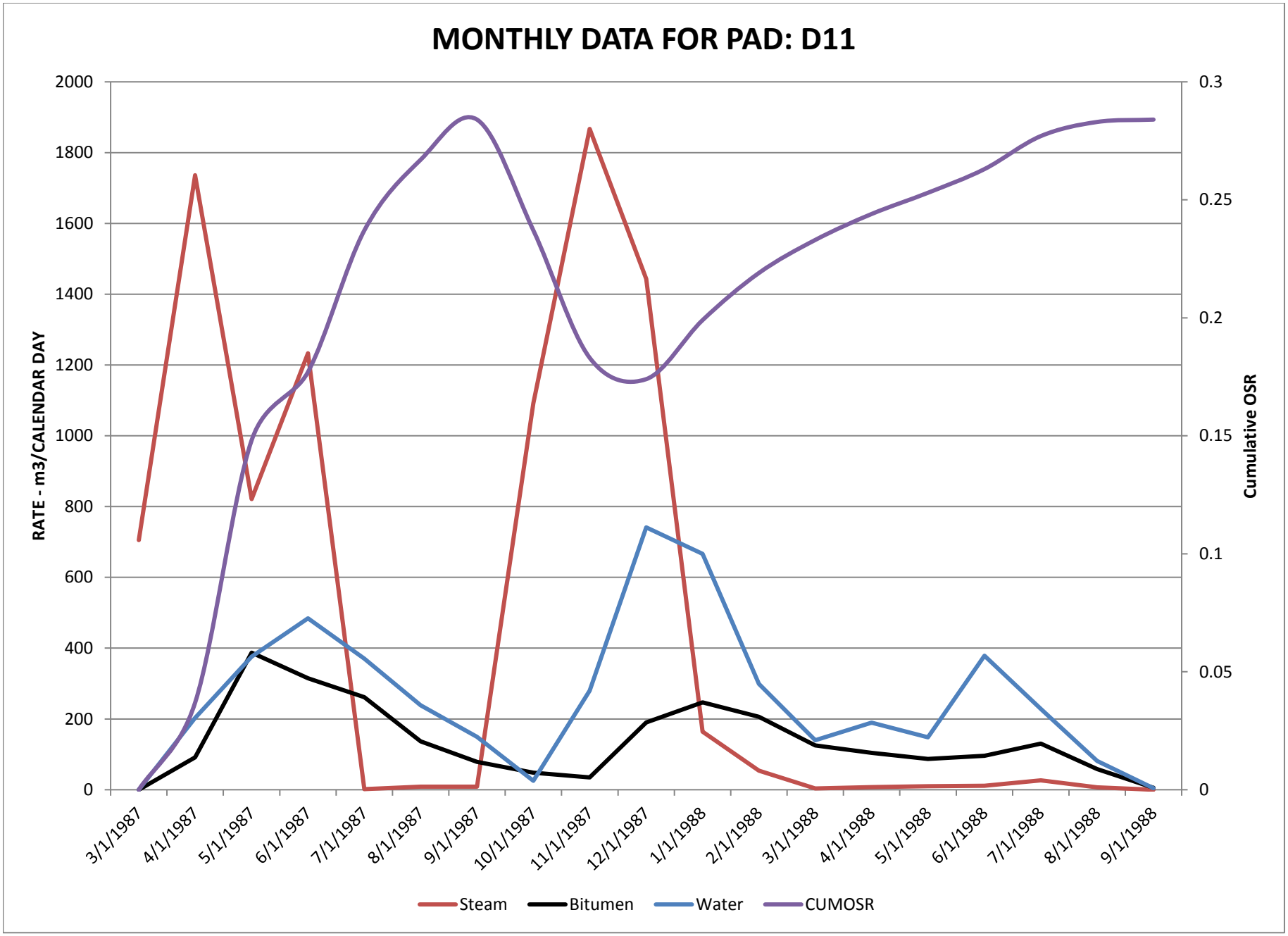
11/1/2011
7/1/2012
3/1/2013
11/1/2013
7/1/2014
3/1/2015
11/1/2015
7/1/2016
3/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D11
RATE - m3/CALENDAR DAY
Cumulative OSR
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/1987
4/1/1987
5/1/1987
6/1/1987
7/1/1987
8/1/1987
9/1/1987
10/1/1987
11/1/1987
12/1/1987
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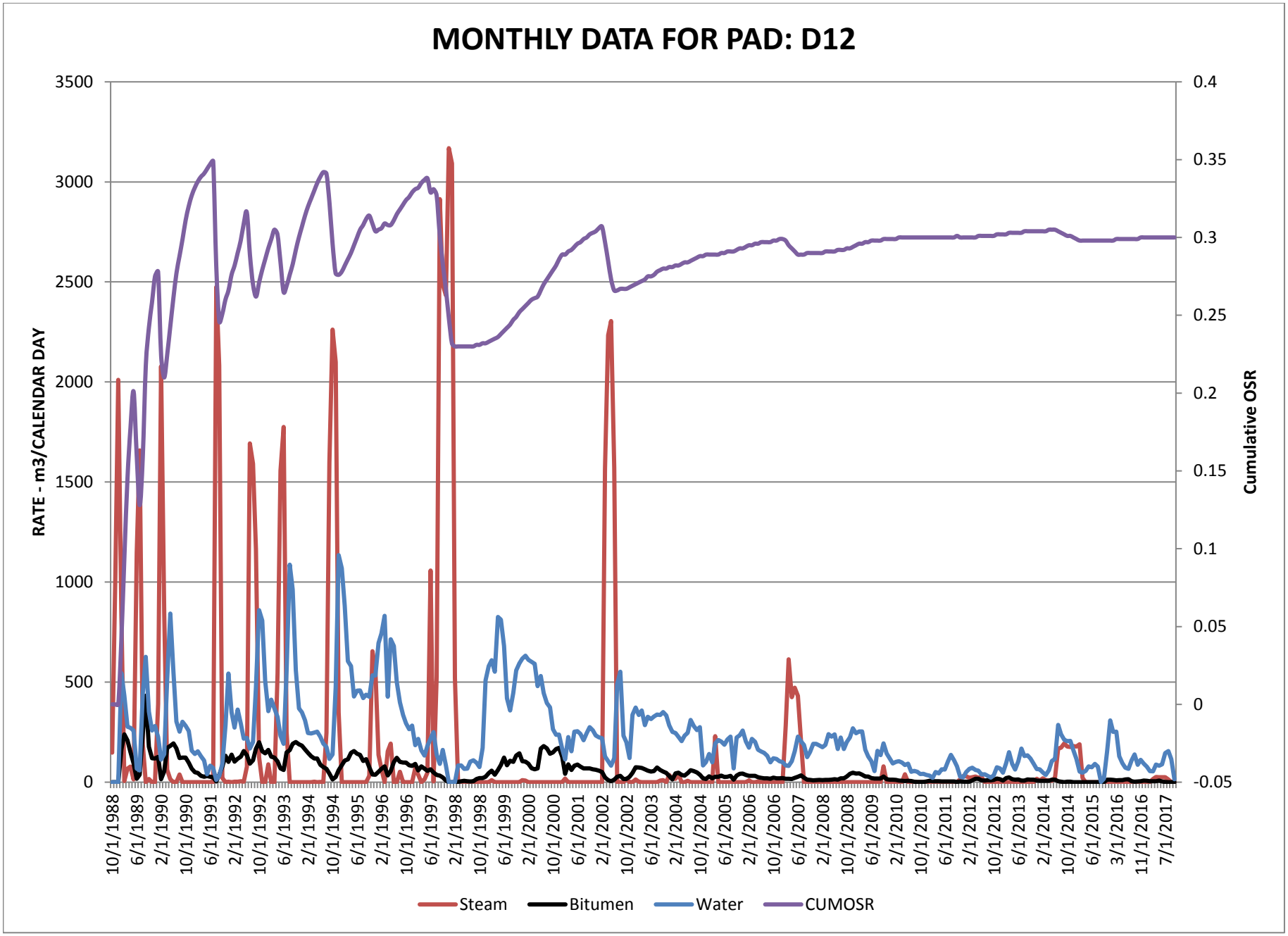
2/1/1988
3/1/1988
4/1/1988
5/1/1988
6/1/1988
7/1/1988
8/1/1988
9/1/1988
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D12
RATE - m3/CALENDAR DAY
Cumulative OSR
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3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/1988
6/1/1989
2/1/1990
10/1/1990
6/1/1991
2/1/1992
10/1/1992
6/1/1993
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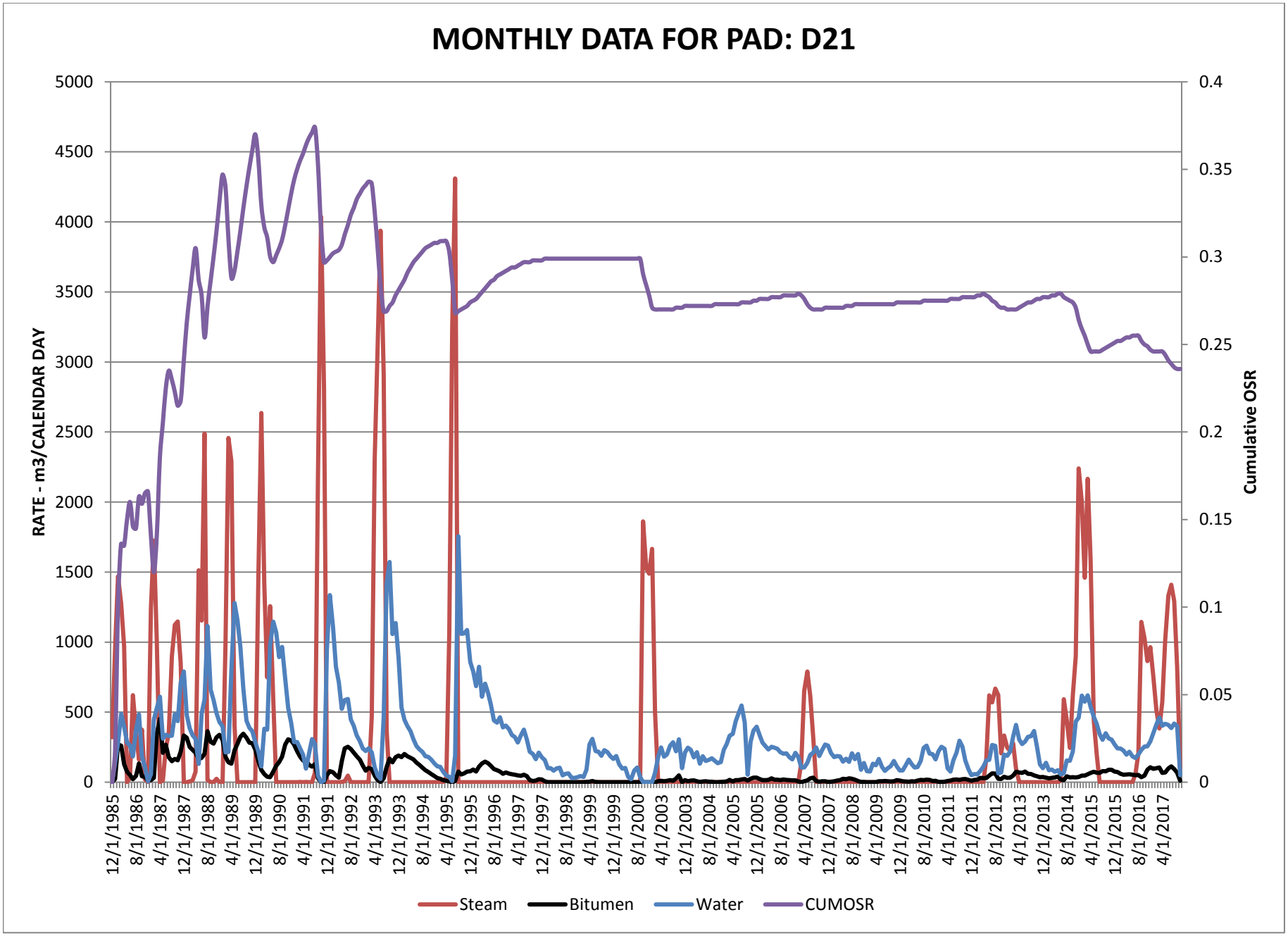
10/1/2012
6/1/2013
2/1/2014
10/1/2014
6/1/2015
3/1/2016
11/1/2016
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D21
RATE - m3/CALENDAR DAY
Cumulative OSR
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4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12/1/1985
8/1/1986
4/1/1987
12/1/1987
8/1/1988
4/1/1989
12/1/1989
8/1/1990
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12/1/1991
8/1/1992
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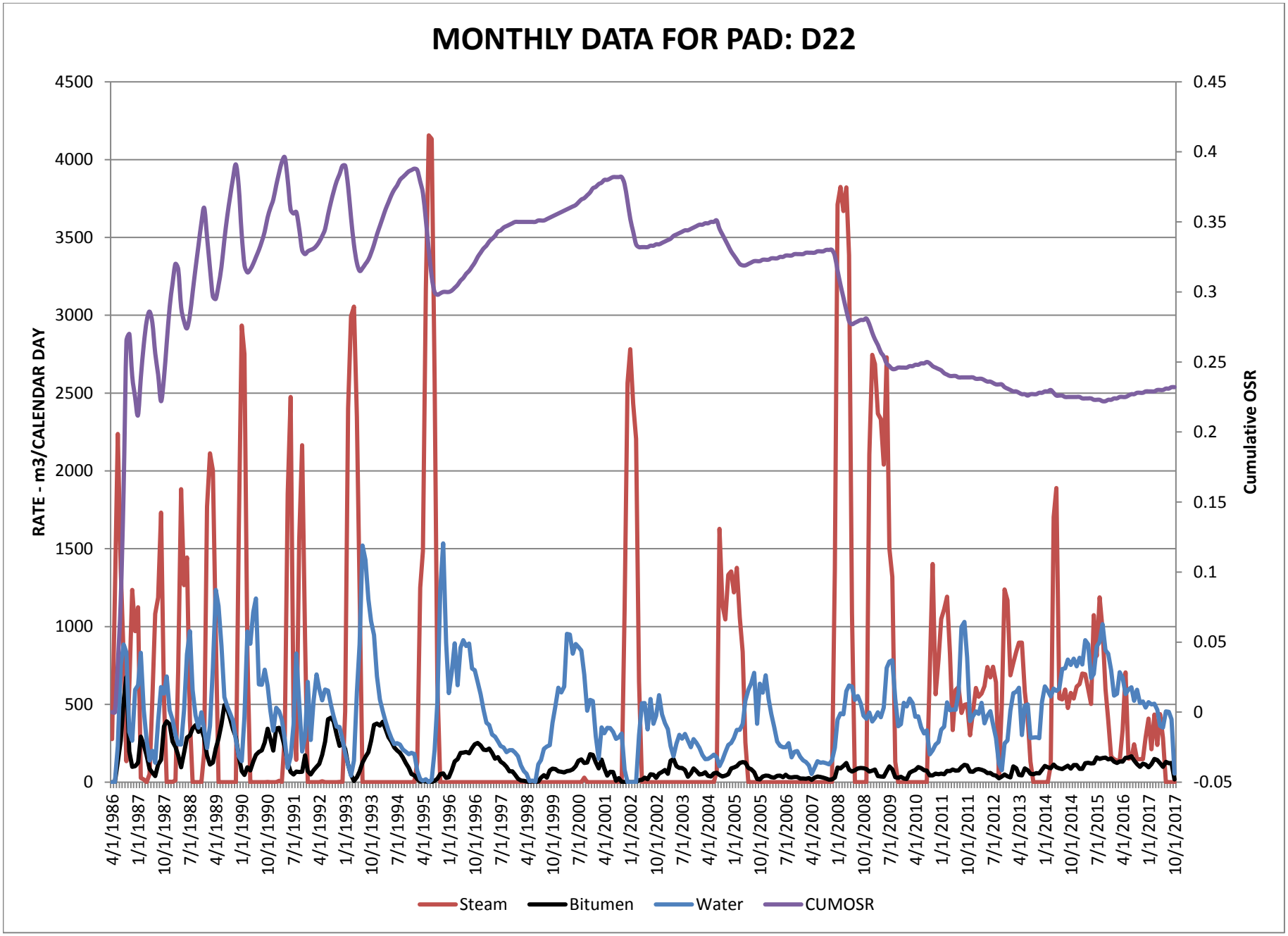
12/1/2011
8/1/2012
4/1/2013
12/1/2013
8/1/2014
4/1/2015
12/1/2015
8/1/2016
4/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D22
RATE - m3/CALENDAR DAY
Cumulative OSR
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4000
3500
3000
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/1986
1/1/1987
10/1/1987
7/1/1988
4/1/1989
1/1/1990
10/1/1990
7/1/1991
4/1/1992
1/1/1993
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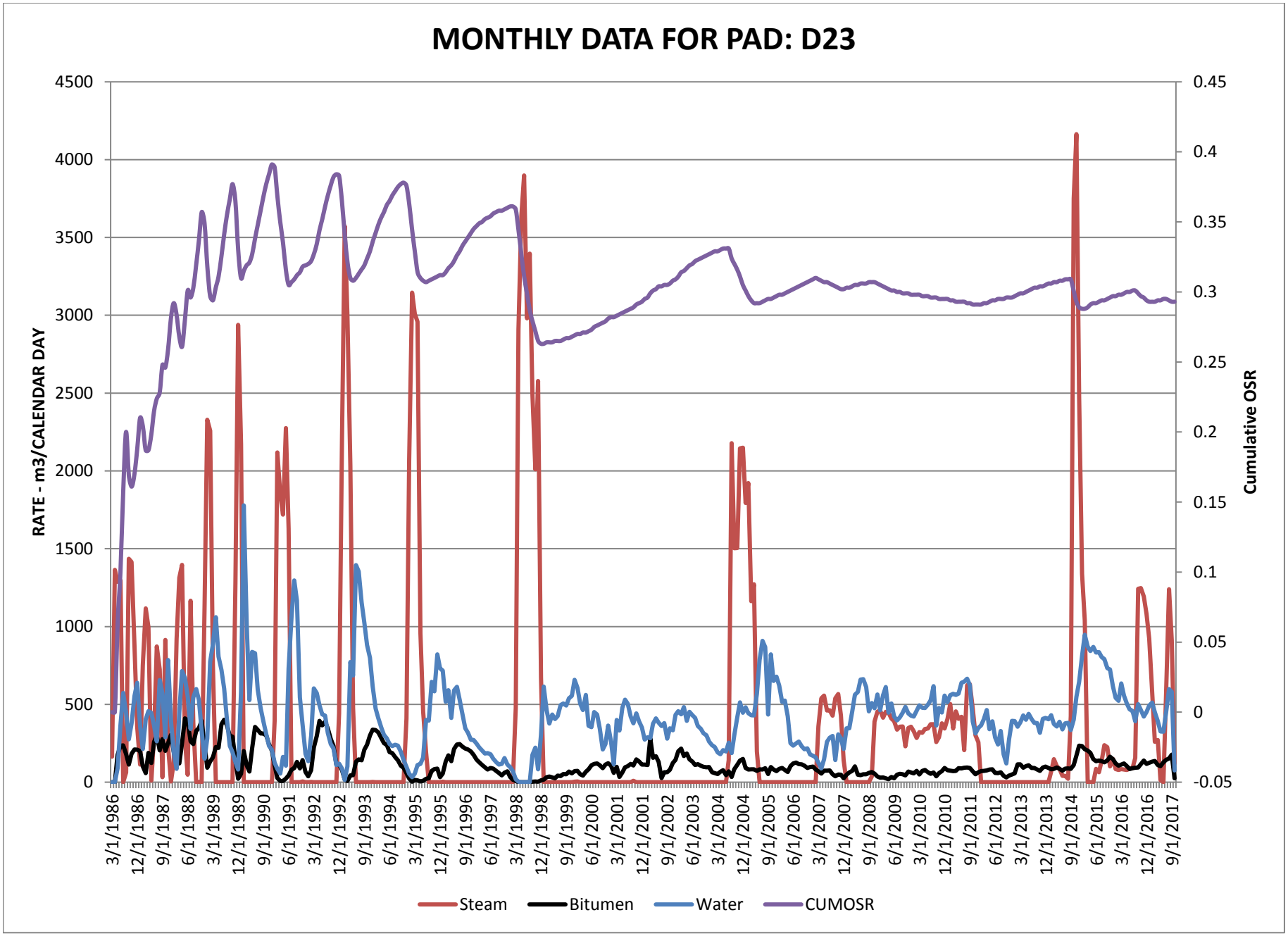
7/1/2012
4/1/2013
1/1/2014
10/1/2014
7/1/2015
4/1/2016
1/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D23
RATE - m3/CALENDAR DAY
Cumulative OSR
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3500
3000
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/1986
12/1/1986
9/1/1987
6/1/1988
3/1/1989
12/1/1989
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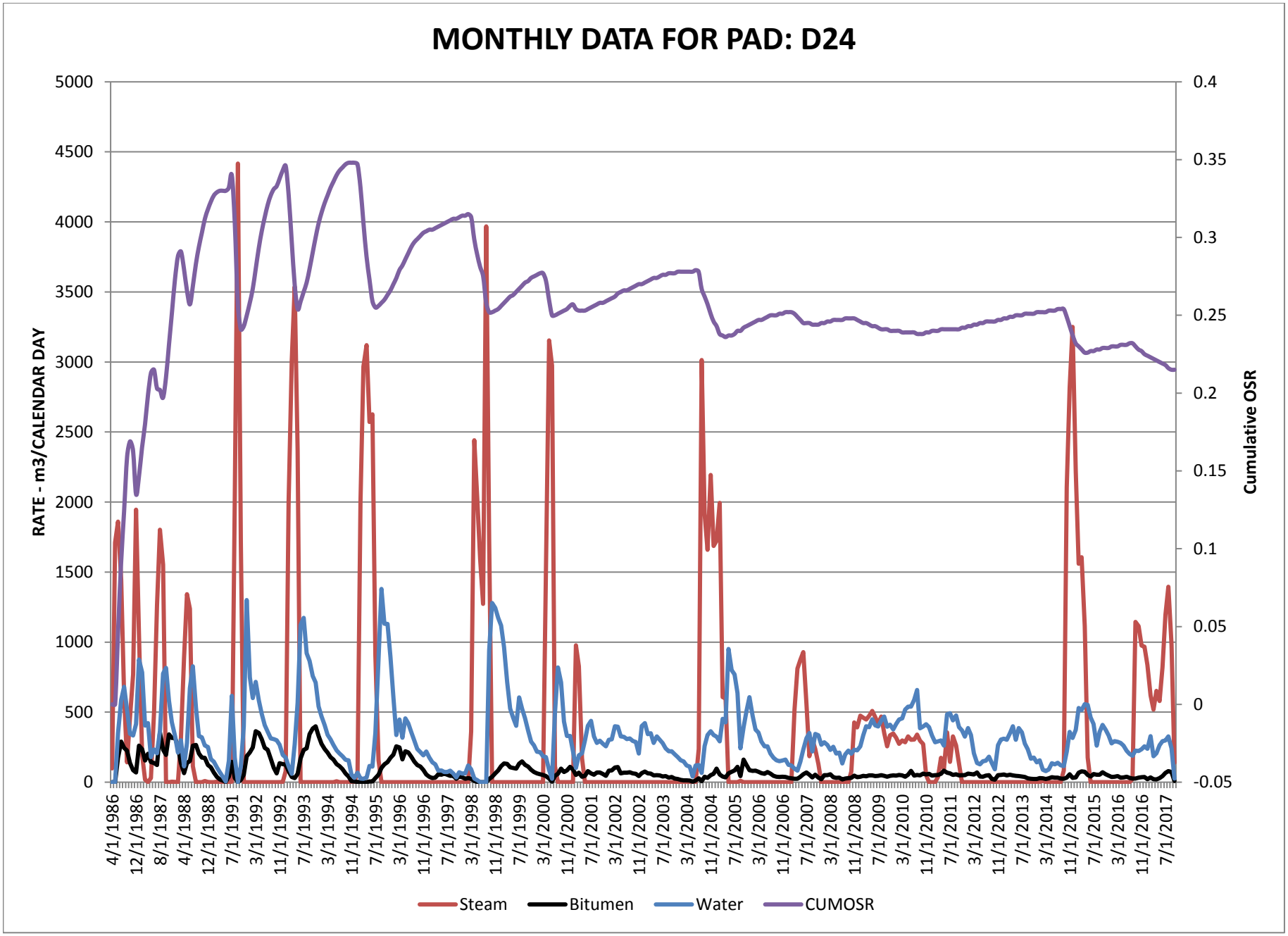
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D24
RATE - m3/CALENDAR DAY
Cumulative OSR
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4500
4000
3500
3000
2500
2000
1500
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500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/1986
12/1/1986
8/1/1987
4/1/1988
12/1/1988
7/1/1991
3/1/1992
11/1/1992
7/1/1993
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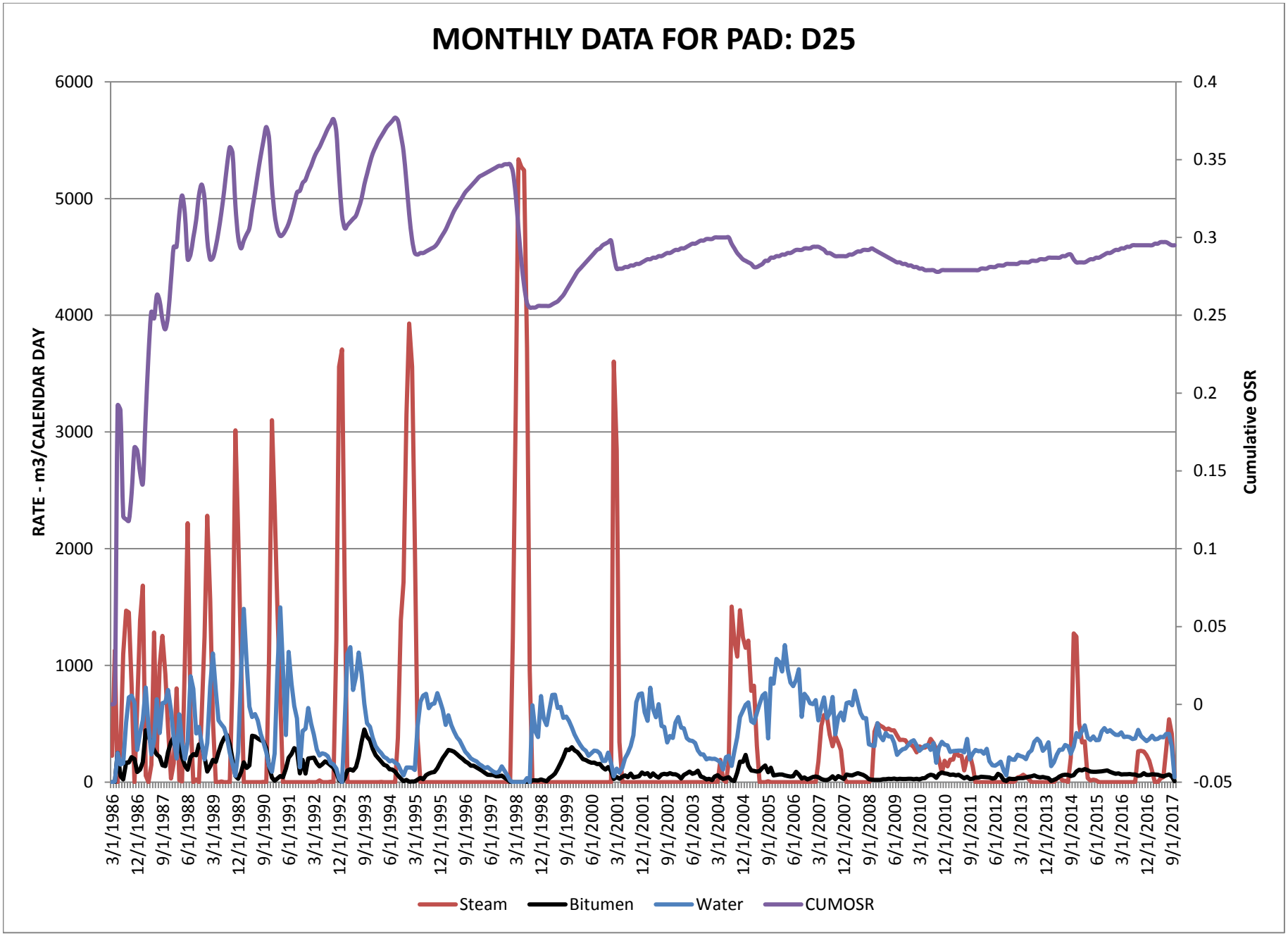
3/1/2012
11/1/2012
7/1/2013
3/1/2014
11/1/2014
7/1/2015
3/1/2016
11/1/2016
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D25
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/1986
12/1/1986
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12/1/1992
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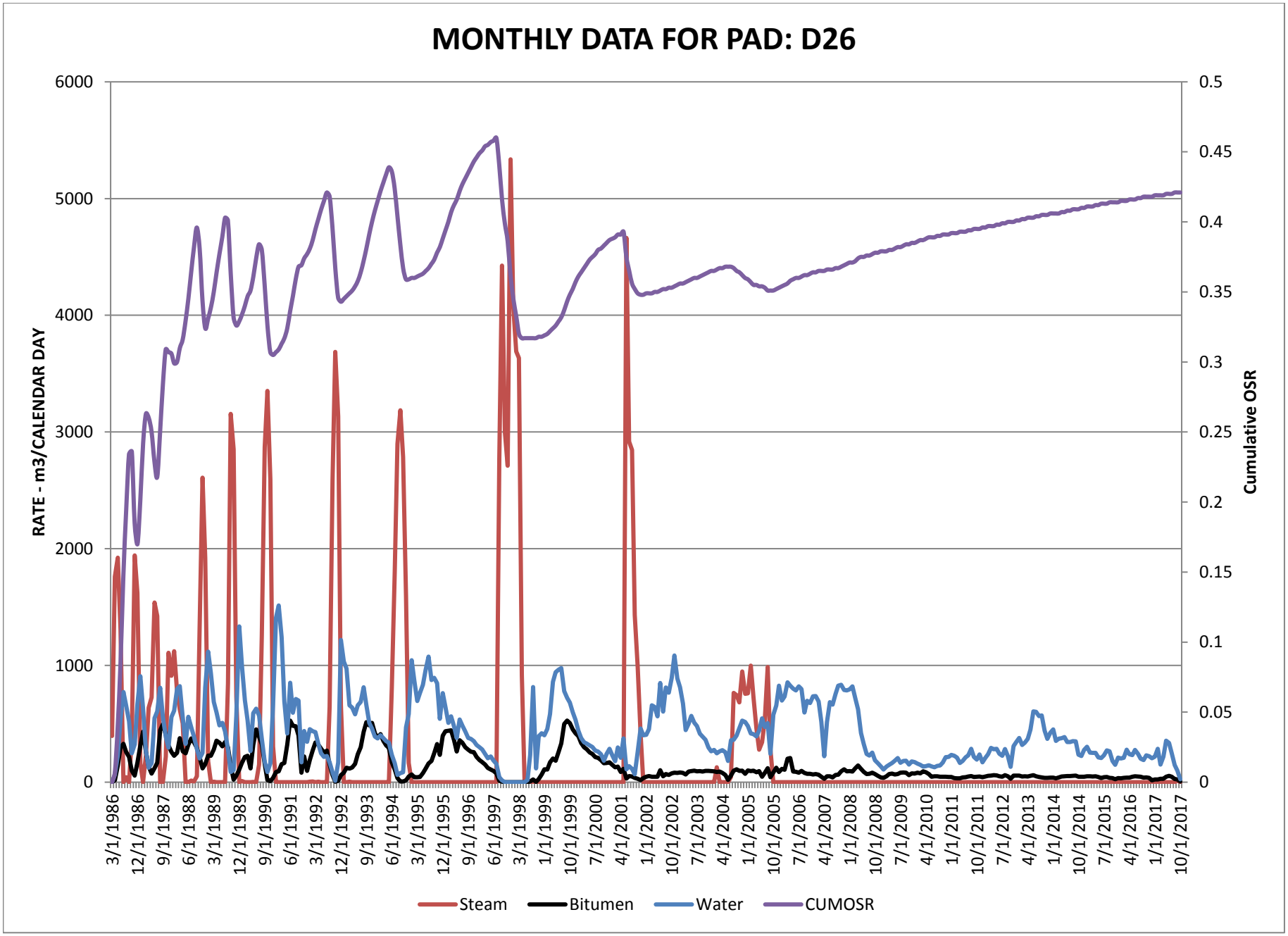
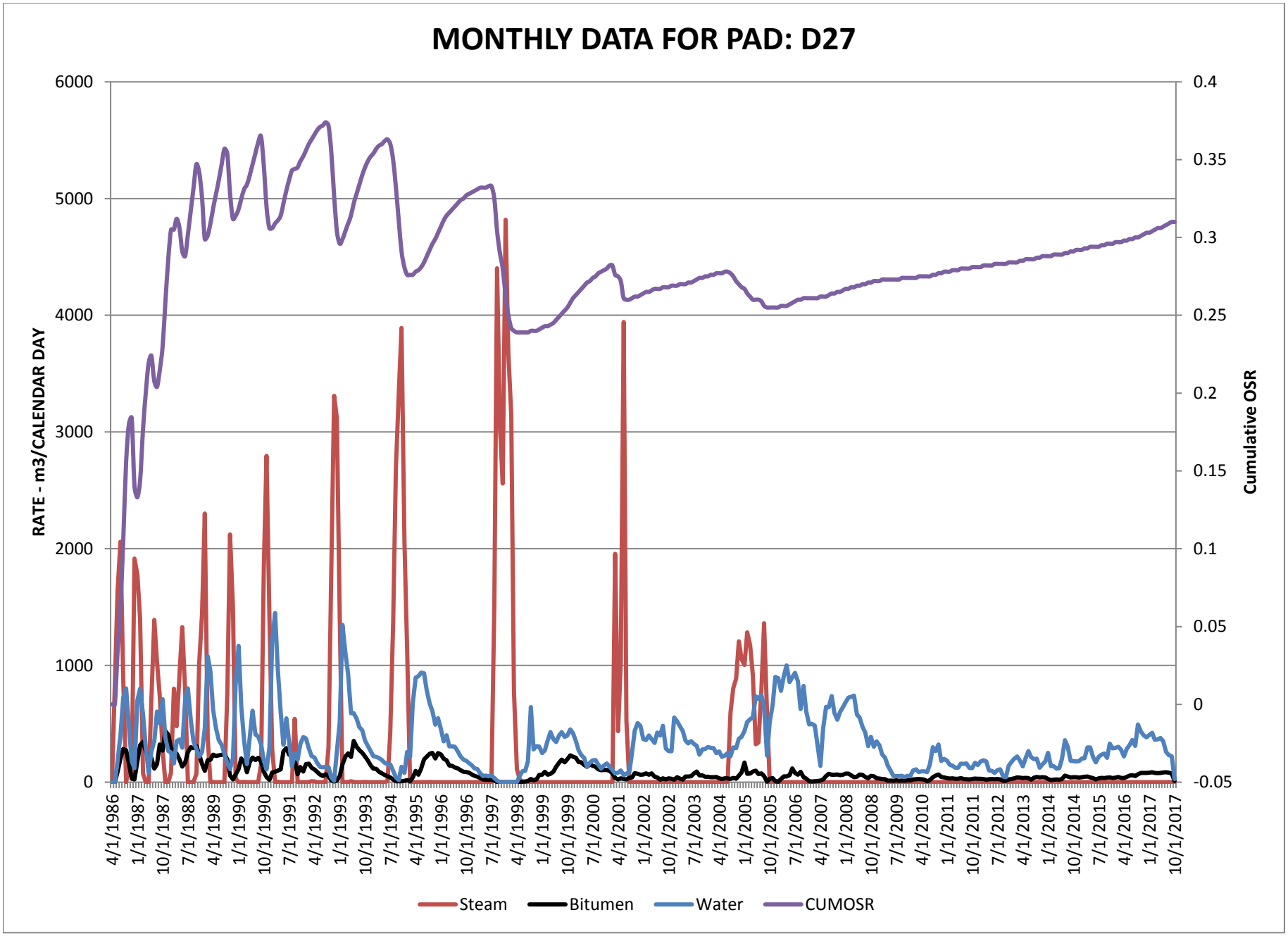
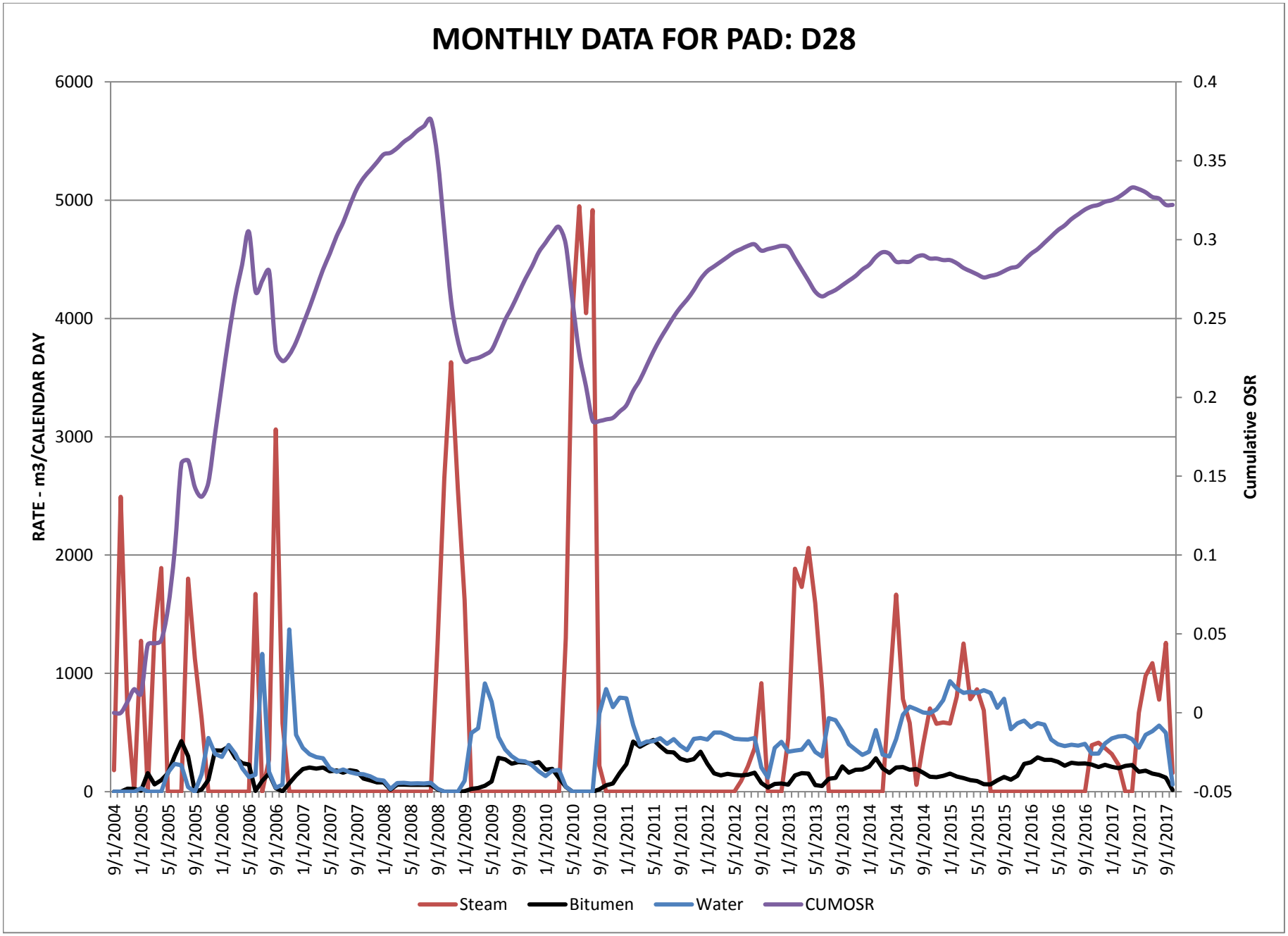
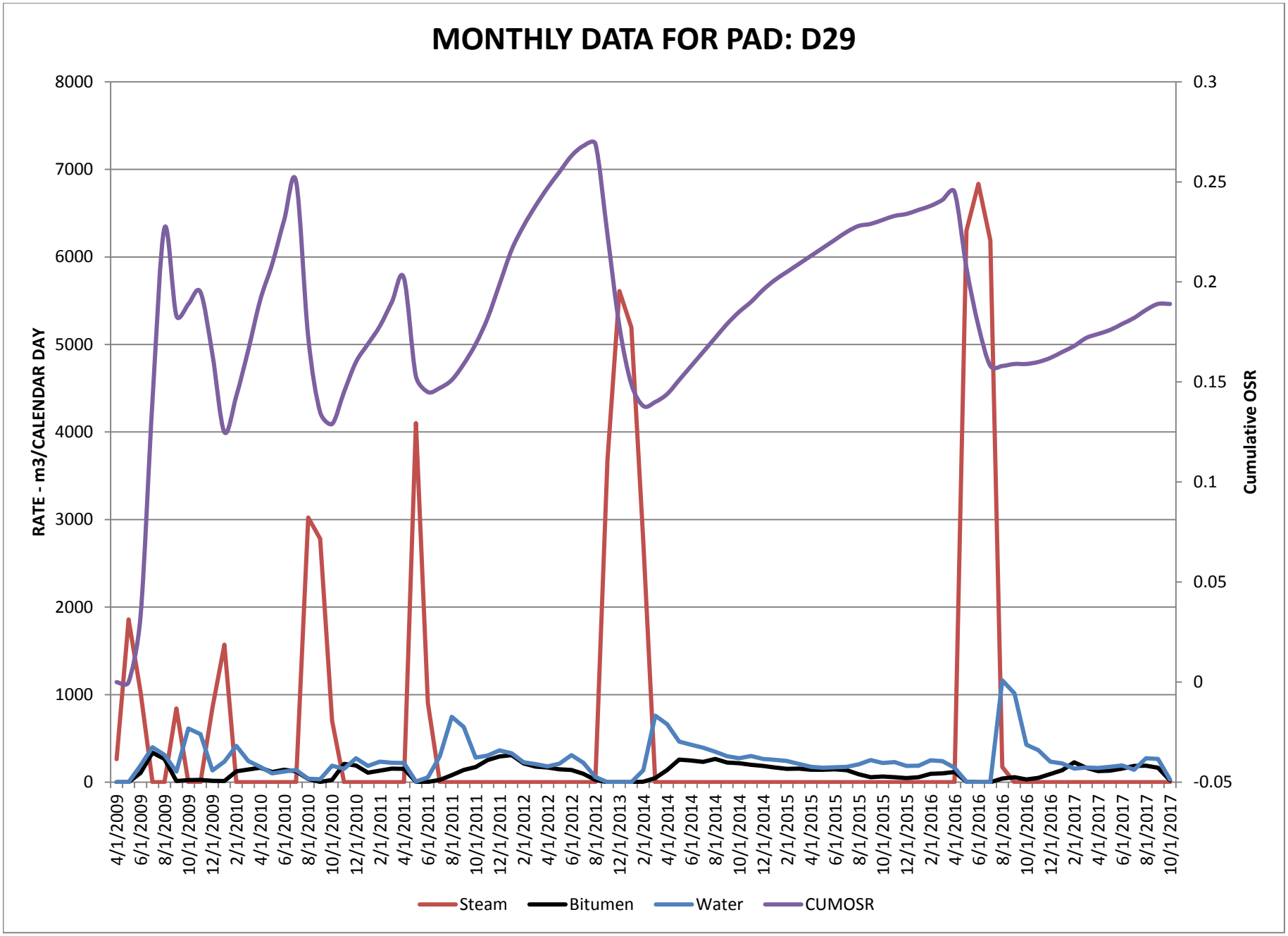
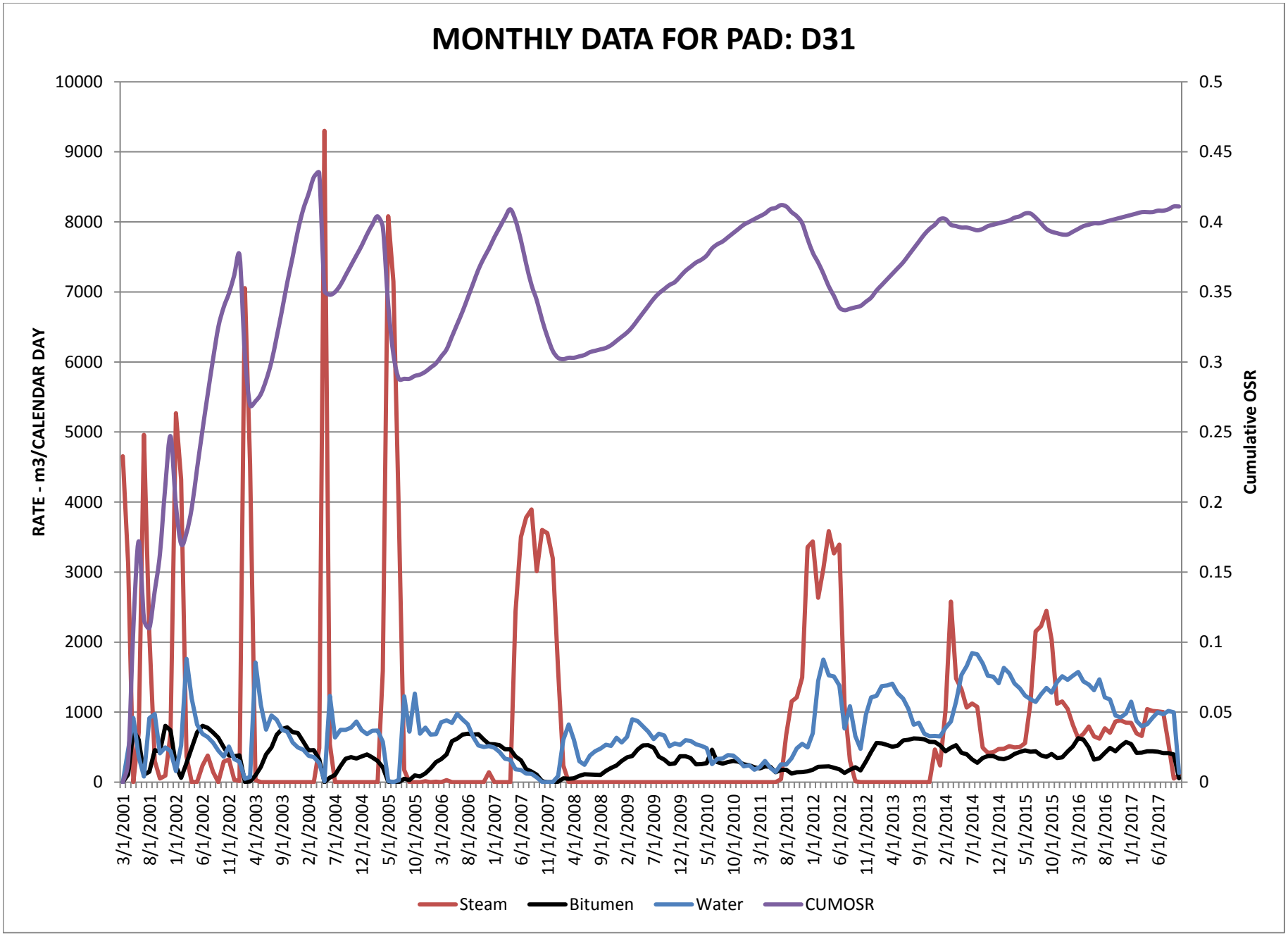
12/1/2001
9/1/2002
6/1/2003
3/1/2004
12/1/2004
9/1/2005
6/1/2006
3/1/2007
12/1/2007
9/1/2008
6/1/2009
3/1/2010
12/1/2010
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
Steam
Bitumen
Water
CUMOSR

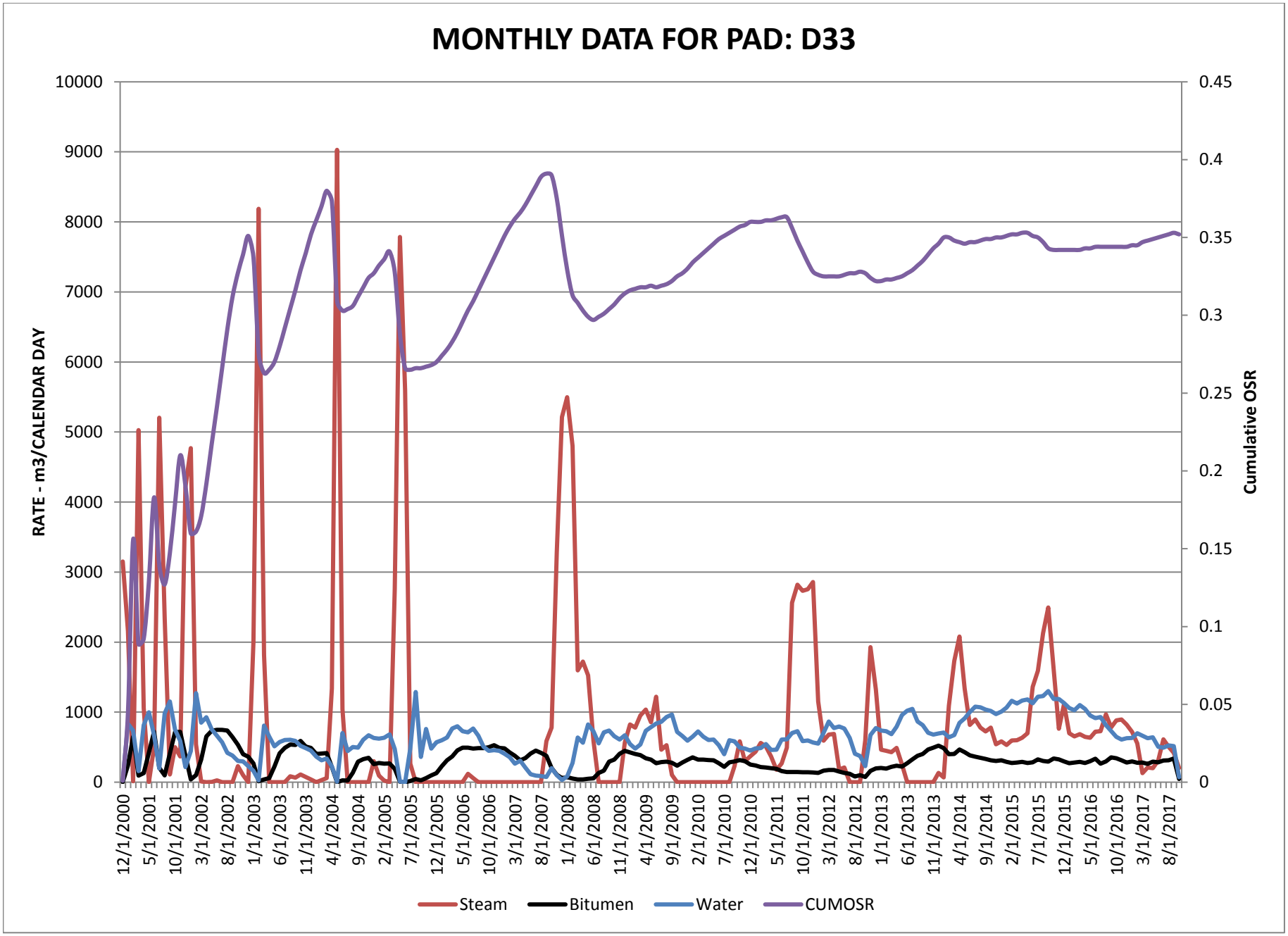

MONTHLY DATA FOR PAD: D26
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/1986
12/1/1986
9/1/1987
6/1/1988
3/1/1989
12/1/1989
9/1/1990
6/1/1991
3/1/1992
12/1/1992
9/1/1993
6/1/1994
3/1/1995
12/1/1995
9/1/1996
6/1/1997
3/1/1998
1/1/1999
10/1/1999
7/1/2000
4/1/2001
1/1/2002
10/1/2002
7/1/2003
4/1/2004
1/1/2005
10/1/2005
7/1/2006
4/1/2007
1/1/2008
10/1/2008
7/1/2009
4/1/2010
1/1/2011
10/1/2011
7/1/2012
4/1/2013
1/1/2014
10/1/2014
7/1/2015
4/1/2016
1/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR

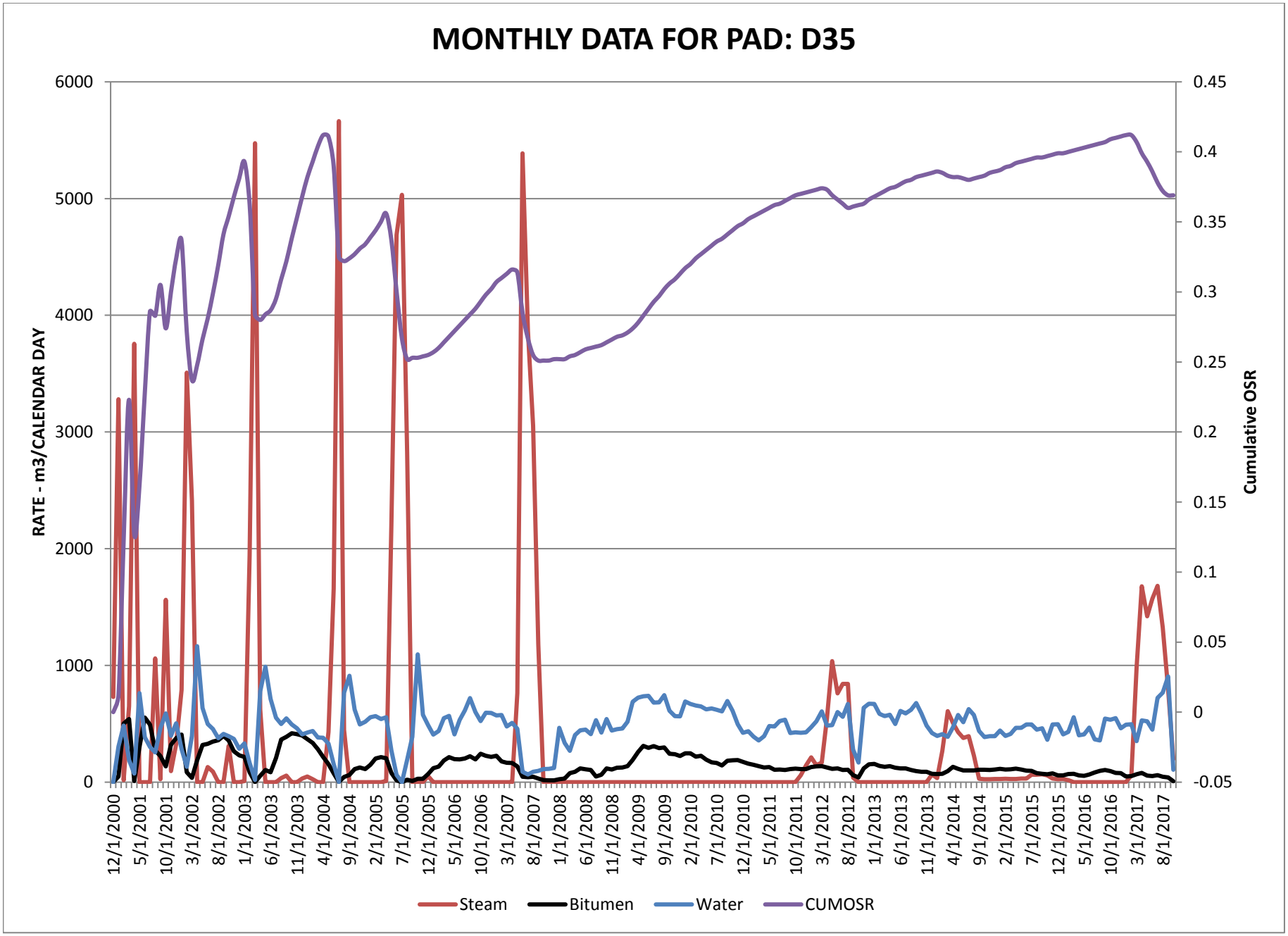

MONTHLY DATA FOR PAD: D27
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/1986
1/1/1987
10/1/1987
7/1/1988
4/1/1989
1/1/1990
10/1/1990
7/1/1991
4/1/1992
1/1/1993
10/1/1993
7/1/1994
4/1/1995
1/1/1996
10/1/1996
7/1/1997
4/1/1998
1/1/1999
10/1/1999
7/1/2000
4/1/2001
1/1/2002
10/1/2002
7/1/2003
4/1/2004
1/1/2005
10/1/2005
7/1/2006
4/1/2007
1/1/2008
10/1/2008
7/1/2009
4/1/2010
1/1/2011
10/1/2011
7/1/2012
4/1/2013
1/1/2014
10/1/2014
7/1/2015
4/1/2016
1/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR

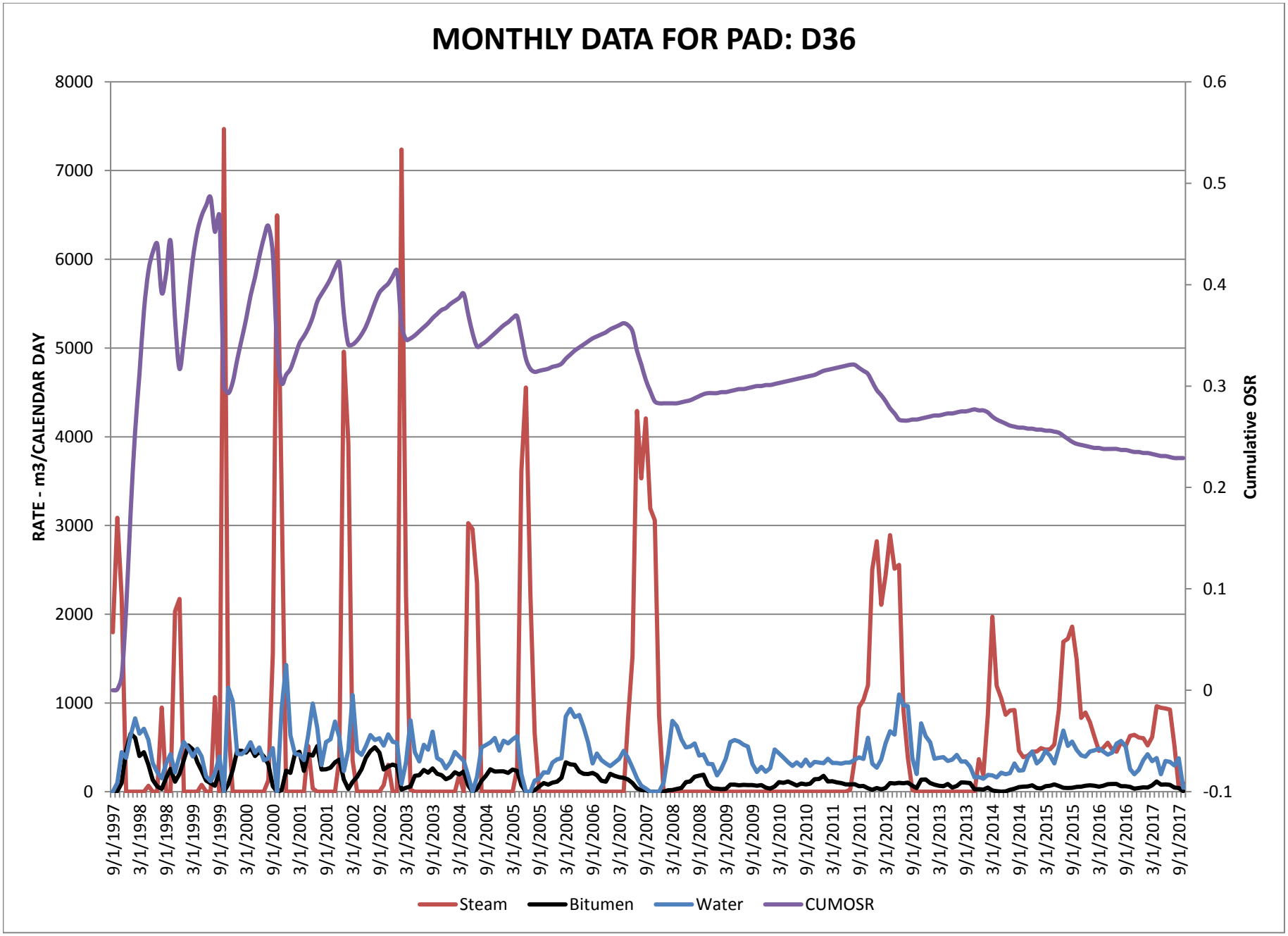

MONTHLY DATA FOR PAD: D28
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
9/1/2004
1/1/2005
5/1/2005
9/1/2005
1/1/2006
5/1/2006
9/1/2006
1/1/2007
5/1/2007
9/1/2007
1/1/2008
5/1/2008
9/1/2008
1/1/2009
5/1/2009
9/1/2009
1/1/2010
5/1/2010
9/1/2010
1/1/2011
5/1/2011
9/1/2011
1/1/2012
5/1/2012
9/1/2012
1/1/2013
5/1/2013
9/1/2013
1/1/2014
5/1/2014
9/1/2014
1/1/2015
5/1/2015
9/1/2015
1/1/2016
5/1/2016
9/1/2016
1/1/2017
5/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR

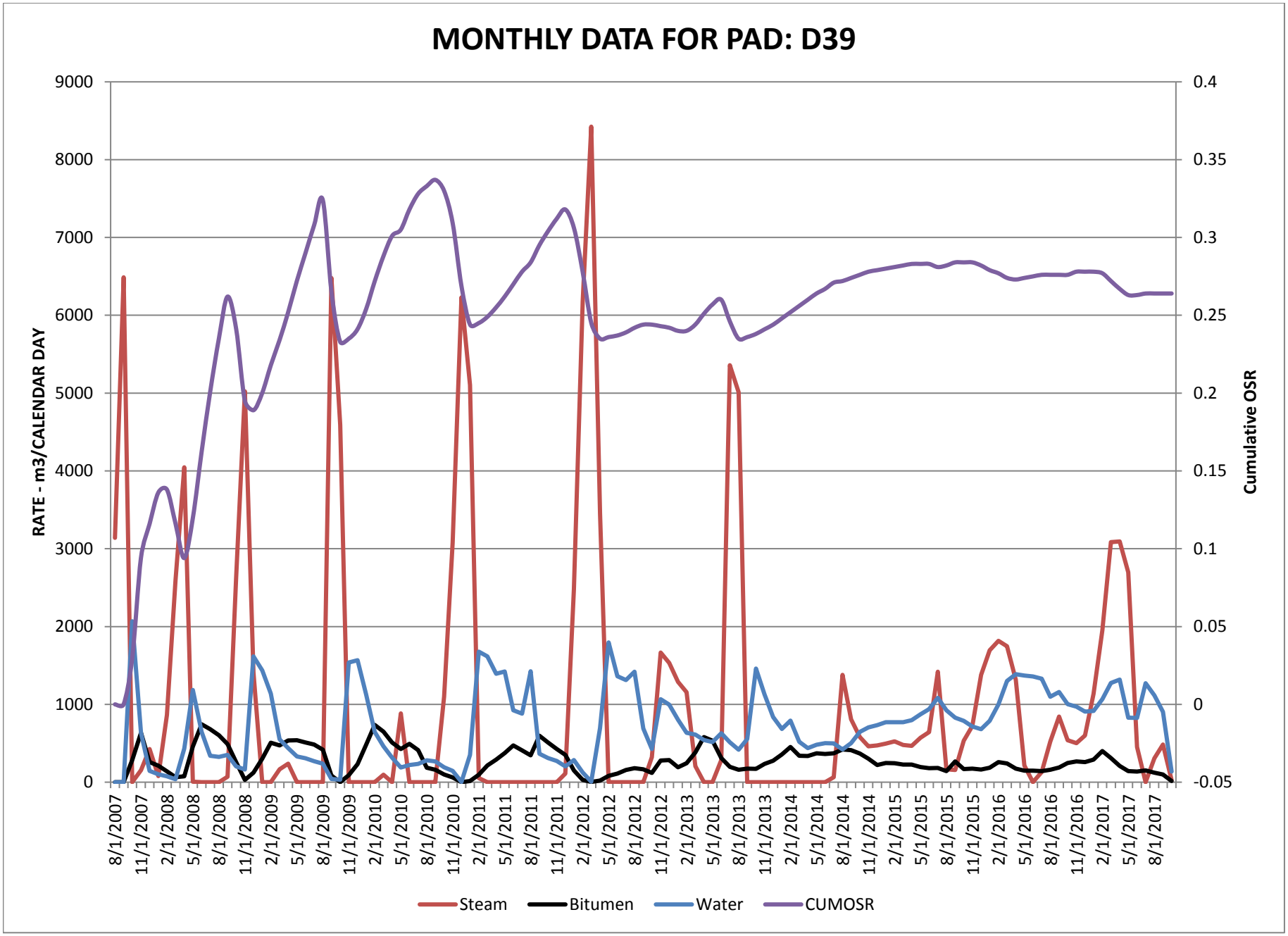

MONTHLY DATA FOR PAD: D29
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/2009
6/1/2009
8/1/2009
10/1/2009
12/1/2009
2/1/2010
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR

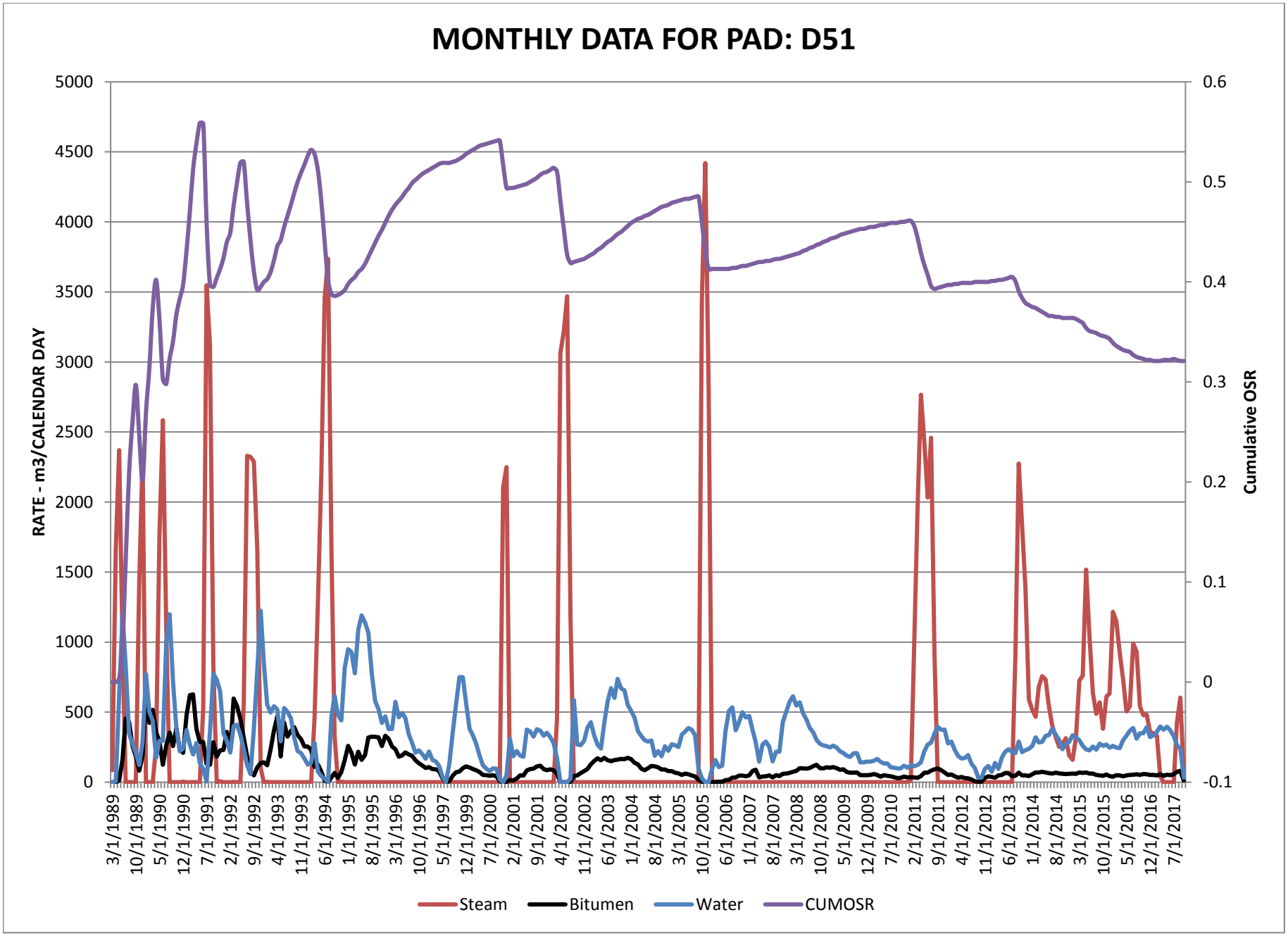

MONTHLY DATA FOR PAD: D31
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/2001
8/1/2001
1/1/2002
6/1/2002
11/1/2002
4/1/2003
9/1/2003
2/1/2004
7/1/2004
12/1/2004
5/1/2005
10/1/2005
3/1/2006
8/1/2006
1/1/2007
6/1/2007
11/1/2007
4/1/2008
9/1/2008
2/1/2009
7/1/2009
12/1/2009
5/1/2010
10/1/2010
3/1/2011
8/1/2011
1/1/2012
6/1/2012
11/1/2012
4/1/2013
9/1/2013
2/1/2014
7/1/2014
12/1/2014
5/1/2015
10/1/2015
3/1/2016
8/1/2016
1/1/2017
6/1/2017
Steam
Bitumen
Water
CUMOSR

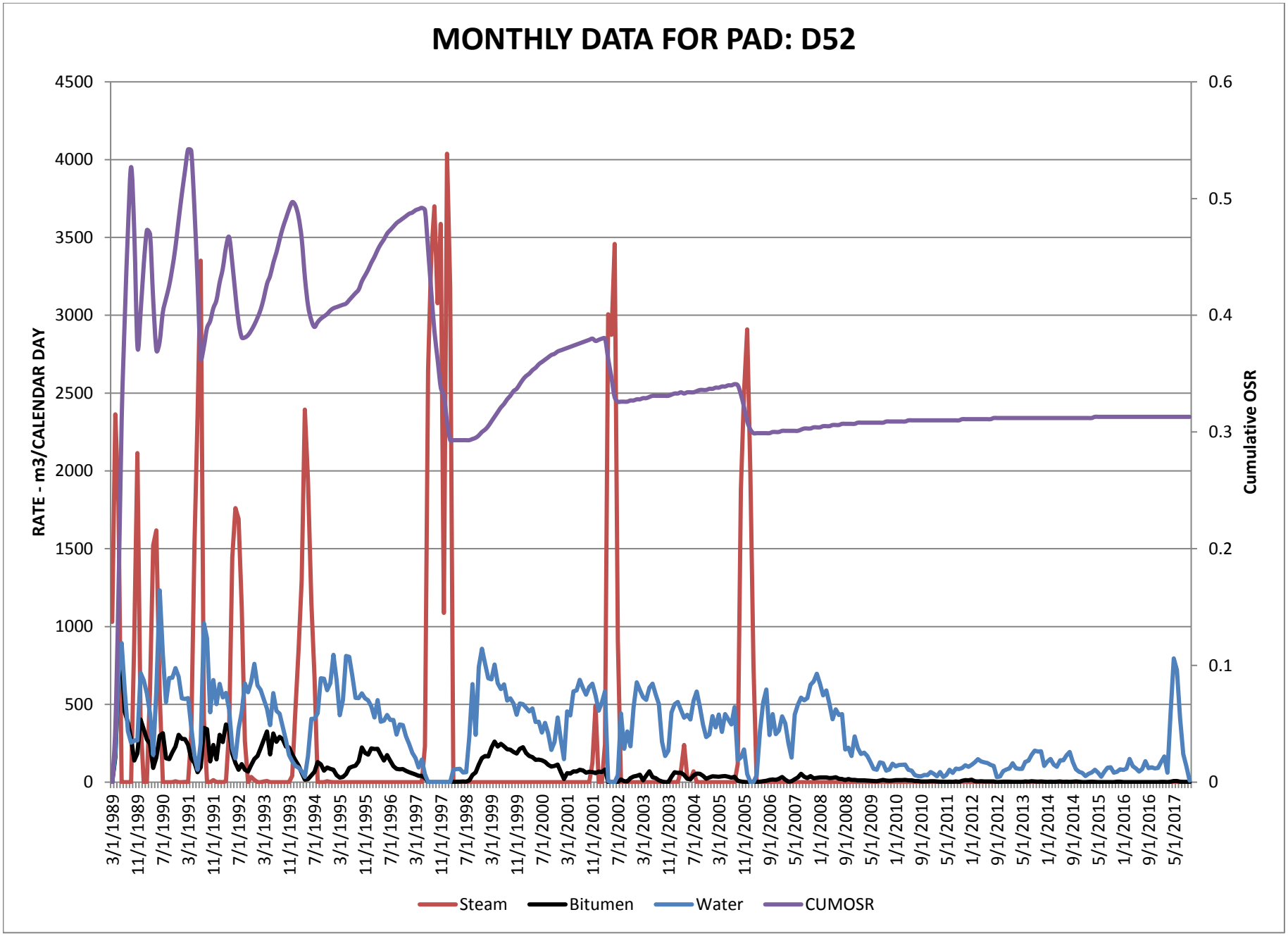

MONTHLY DATA FOR PAD: D33
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12/1/2000
5/1/2001
10/1/2001
3/1/2002
8/1/2002
1/1/2003
6/1/2003
11/1/2003
4/1/2004
9/1/2004
2/1/2005
7/1/2005
12/1/2005
5/1/2006
10/1/2006
3/1/2007
8/1/2007
1/1/2008
6/1/2008
11/1/2008
4/1/2009
9/1/2009
2/1/2010
7/1/2010
12/1/2010
5/1/2011
10/1/2011
3/1/2012
8/1/2012
1/1/2013
6/1/2013
11/1/2013
4/1/2014
9/1/2014
2/1/2015
7/1/2015
12/1/2015
5/1/2016
10/1/2016
3/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR

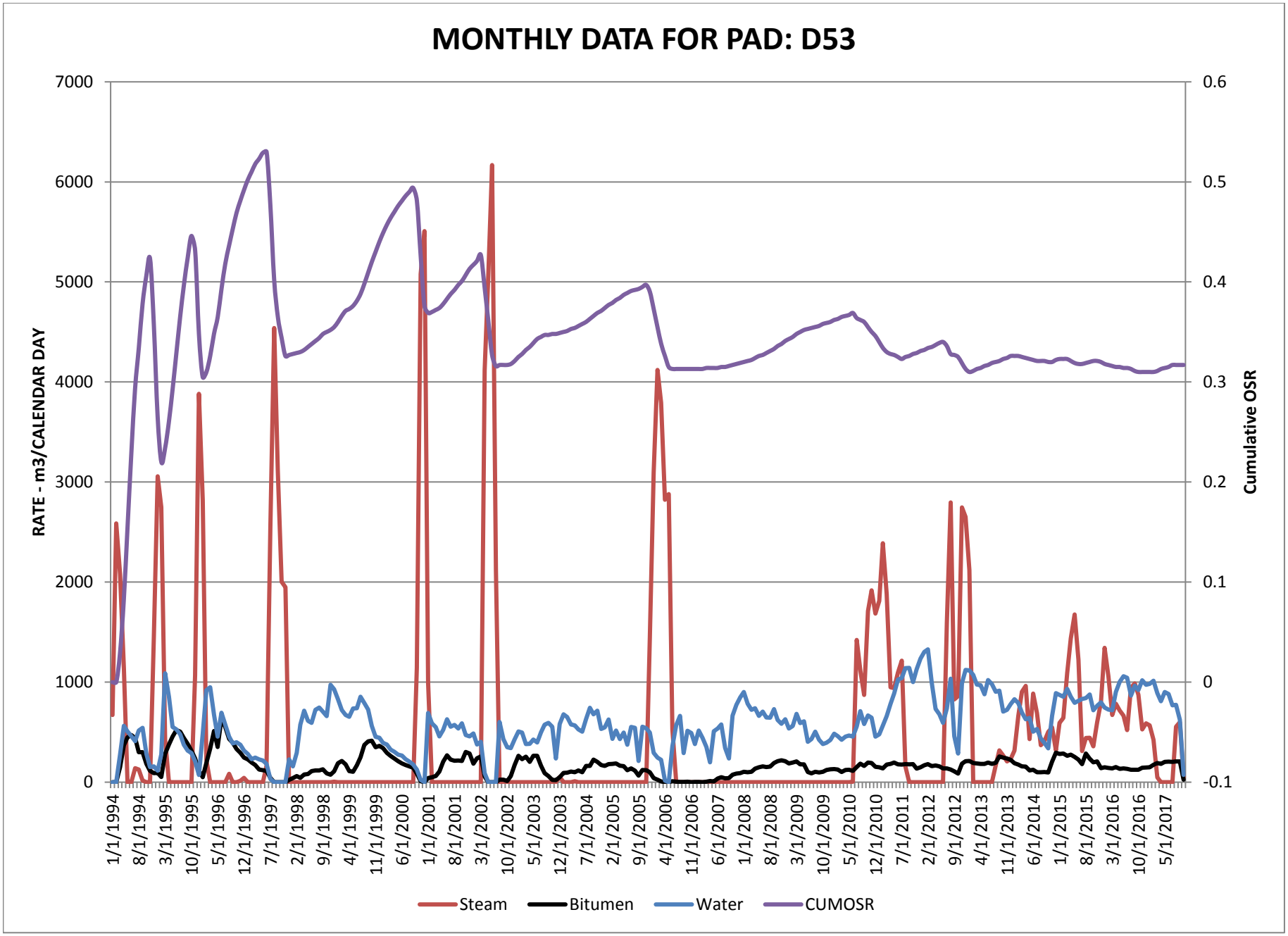

MONTHLY DATA FOR PAD: D35
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
12/1/2000
5/1/2001
10/1/2001
3/1/2002
8/1/2002
1/1/2003
6/1/2003
11/1/2003
4/1/2004
9/1/2004
2/1/2005
7/1/2005
12/1/2005
5/1/2006
10/1/2006
3/1/2007
8/1/2007
1/1/2008
6/1/2008
11/1/2008
4/1/2009
9/1/2009
2/1/2010
7/1/2010
12/1/2010
5/1/2011
10/1/2011
3/1/2012
8/1/2012
1/1/2013
6/1/2013
11/1/2013
4/1/2014
9/1/2014
2/1/2015
7/1/2015
12/1/2015
5/1/2016
10/1/2016
3/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR

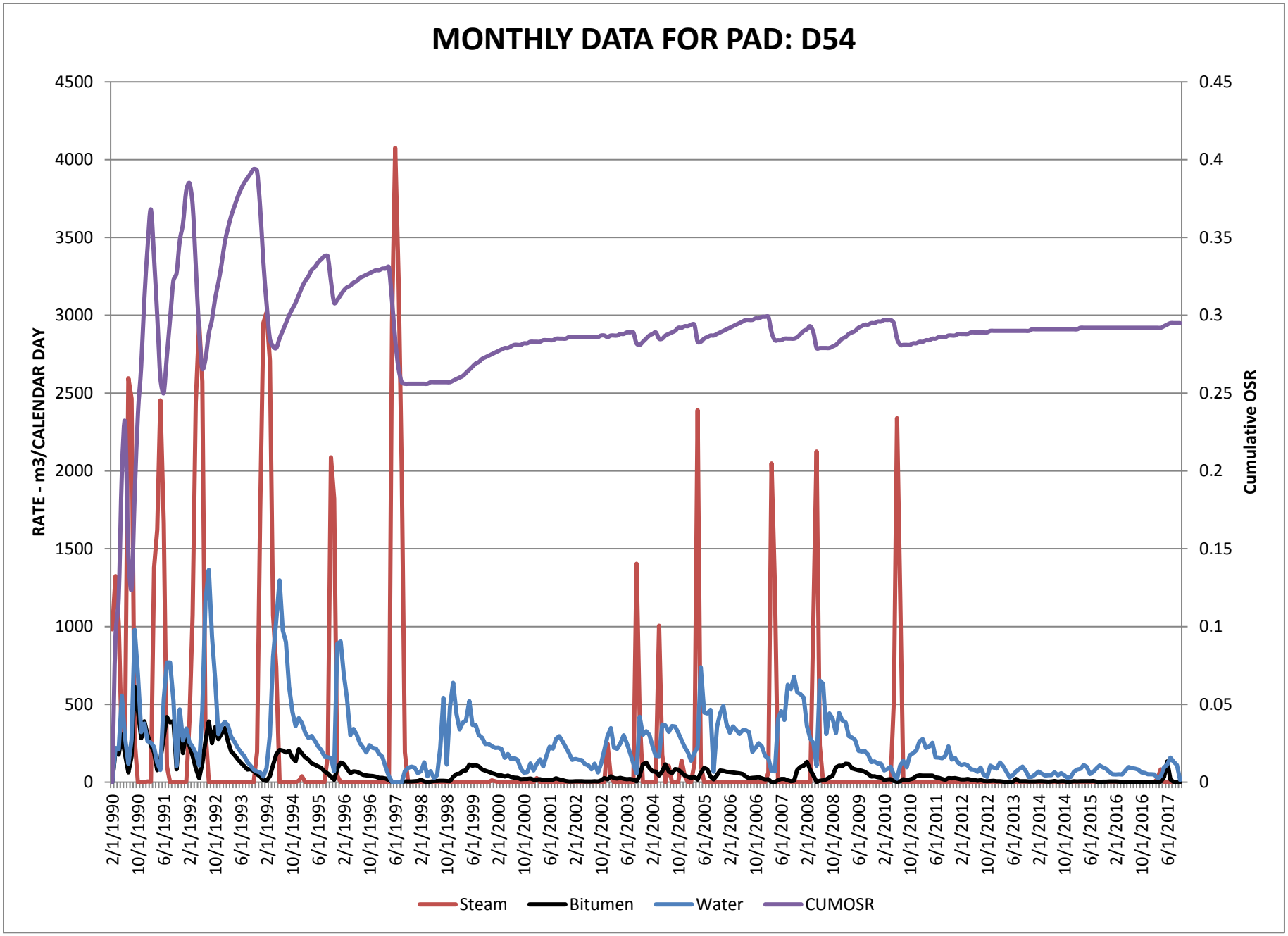

MONTHLY DATA FOR PAD: D36
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
9/1/1997
3/1/1998
9/1/1998
3/1/1999
9/1/1999
3/1/2000
9/1/2000
3/1/2001
9/1/2001
3/1/2002
9/1/2002
3/1/2003
9/1/2003
3/1/2004
9/1/2004
3/1/2005
9/1/2005
3/1/2006
9/1/2006
3/1/2007
9/1/2007
3/1/2008
9/1/2008
3/1/2009
9/1/2009
3/1/2010
9/1/2010
3/1/2011
9/1/2011
3/1/2012
9/1/2012
3/1/2013
9/1/2013
3/1/2014
9/1/2014
3/1/2015
9/1/2015
3/1/2016
9/1/2016
3/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR

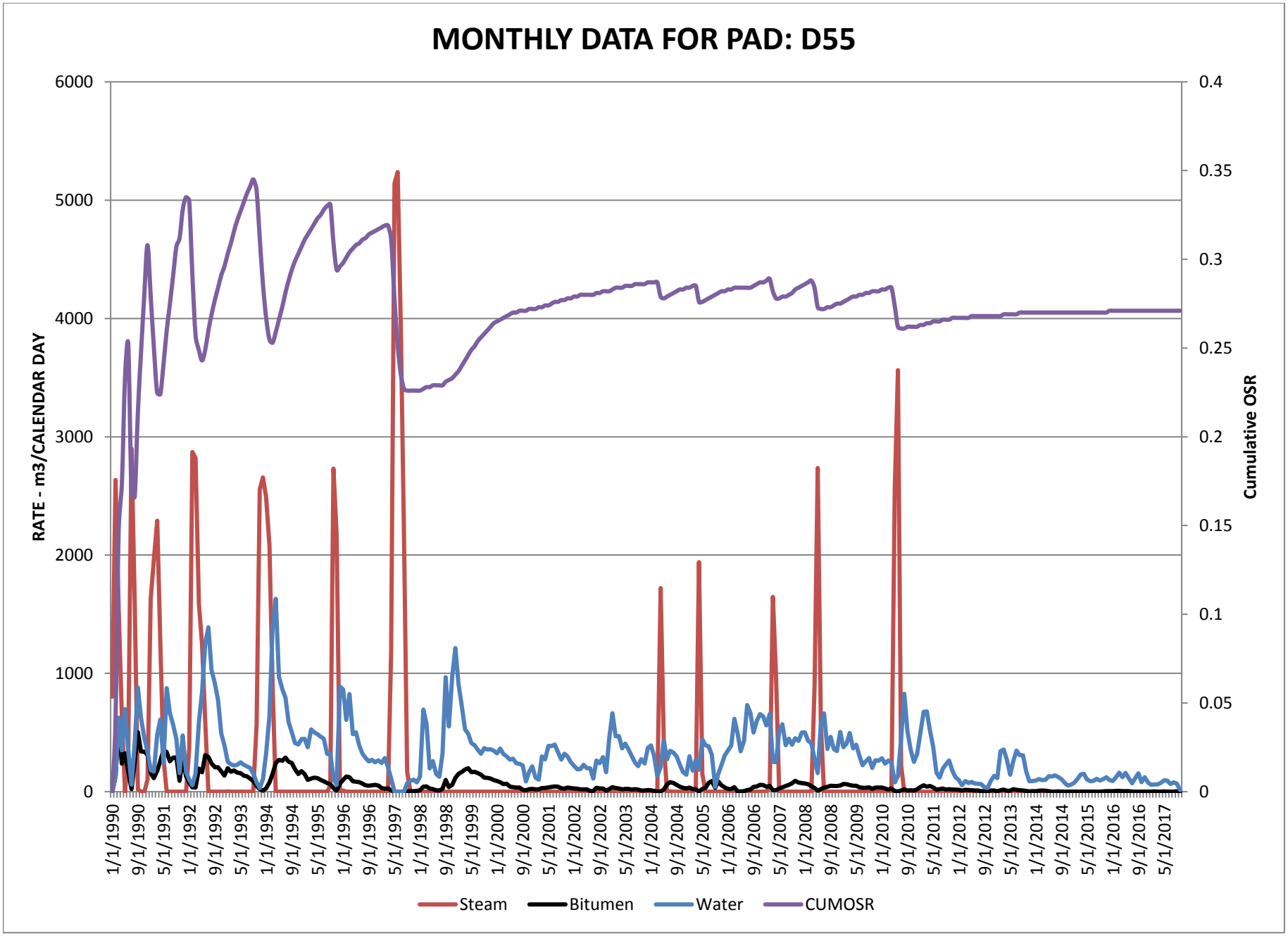

MONTHLY DATA FOR PAD: D39
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
8/1/2007
11/1/2007
2/1/2008
5/1/2008
8/1/2008
11/1/2008
2/1/2009
5/1/2009
8/1/2009
11/1/2009
2/1/2010
5/1/2010
8/1/2010
11/1/2010
2/1/2011
5/1/2011
8/1/2011
11/1/2011
2/1/2012
5/1/2012
8/1/2012
11/1/2012
2/1/2013
5/1/2013
8/1/2013
11/1/2013
2/1/2014
5/1/2014
8/1/2014
11/1/2014
2/1/2015
5/1/2015
8/1/2015
11/1/2015
2/1/2016
5/1/2016
8/1/2016
11/1/2016
2/1/2017
5/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR

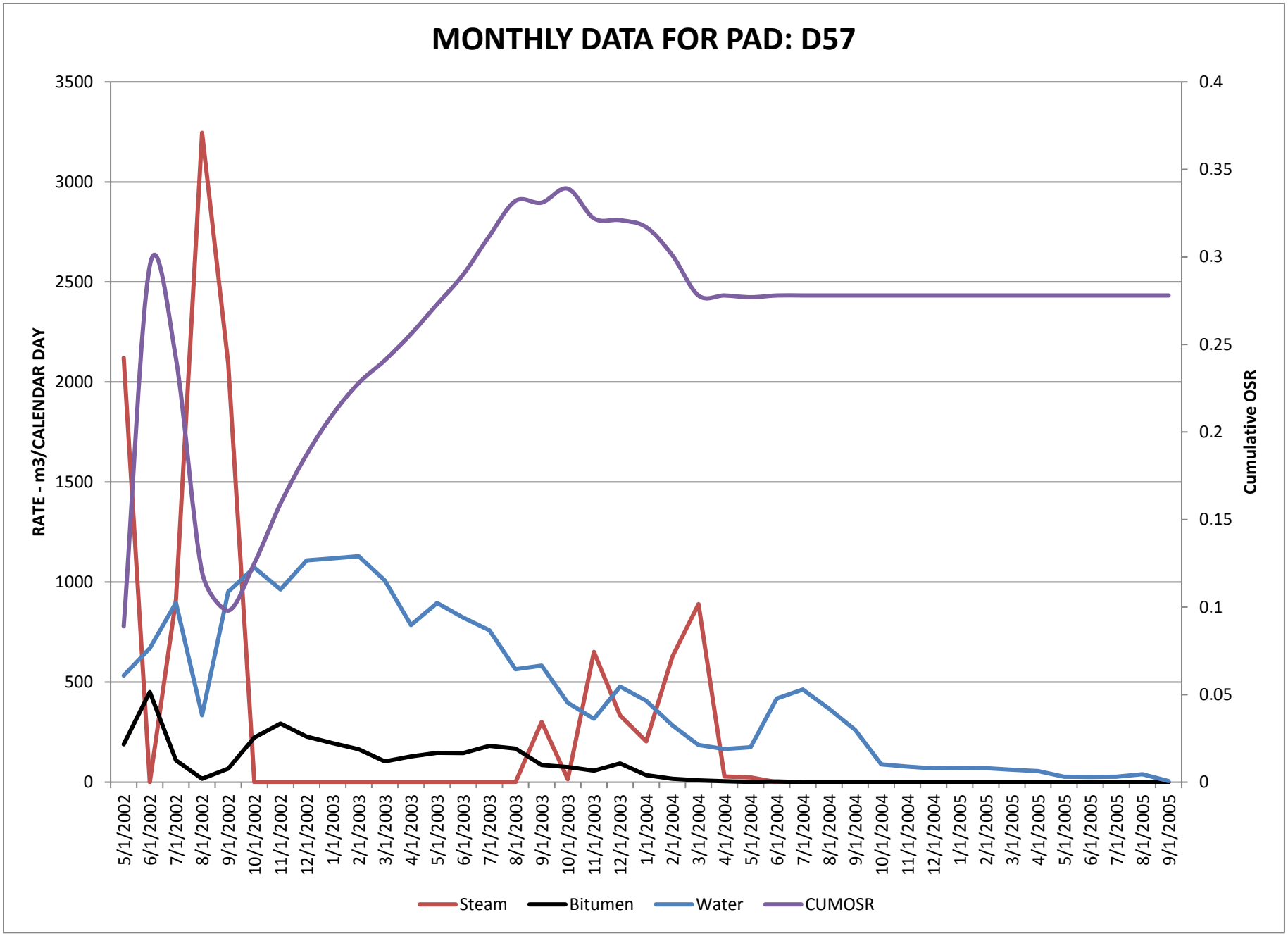

MONTHLY DATA FOR PAD: D51
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
3/1/1989
10/1/1989
5/1/1990
12/1/1990
7/1/1991
2/1/1992
9/1/1992
4/1/1993
11/1/1993
6/1/1994
1/1/1995
8/1/1995
3/1/1996
10/1/1996
5/1/1997
12/1/1999
7/1/2000
2/1/2001
9/1/2001
4/1/2002
11/1/2002
6/1/2003
1/1/2004
8/1/2004
3/1/2005
10/1/2005
6/1/2006
1/1/2007
8/1/2007
3/1/2008
10/1/2008
5/1/2009
12/1/2009
7/1/2010
2/1/2011
9/1/2011
4/1/2012
11/1/2012
6/1/2013
1/1/2014
8/1/2014
3/1/2015
10/1/2015
5/1/2016
12/1/2016
7/1/2017
Steam
Bitumen
Water
CUMOSR

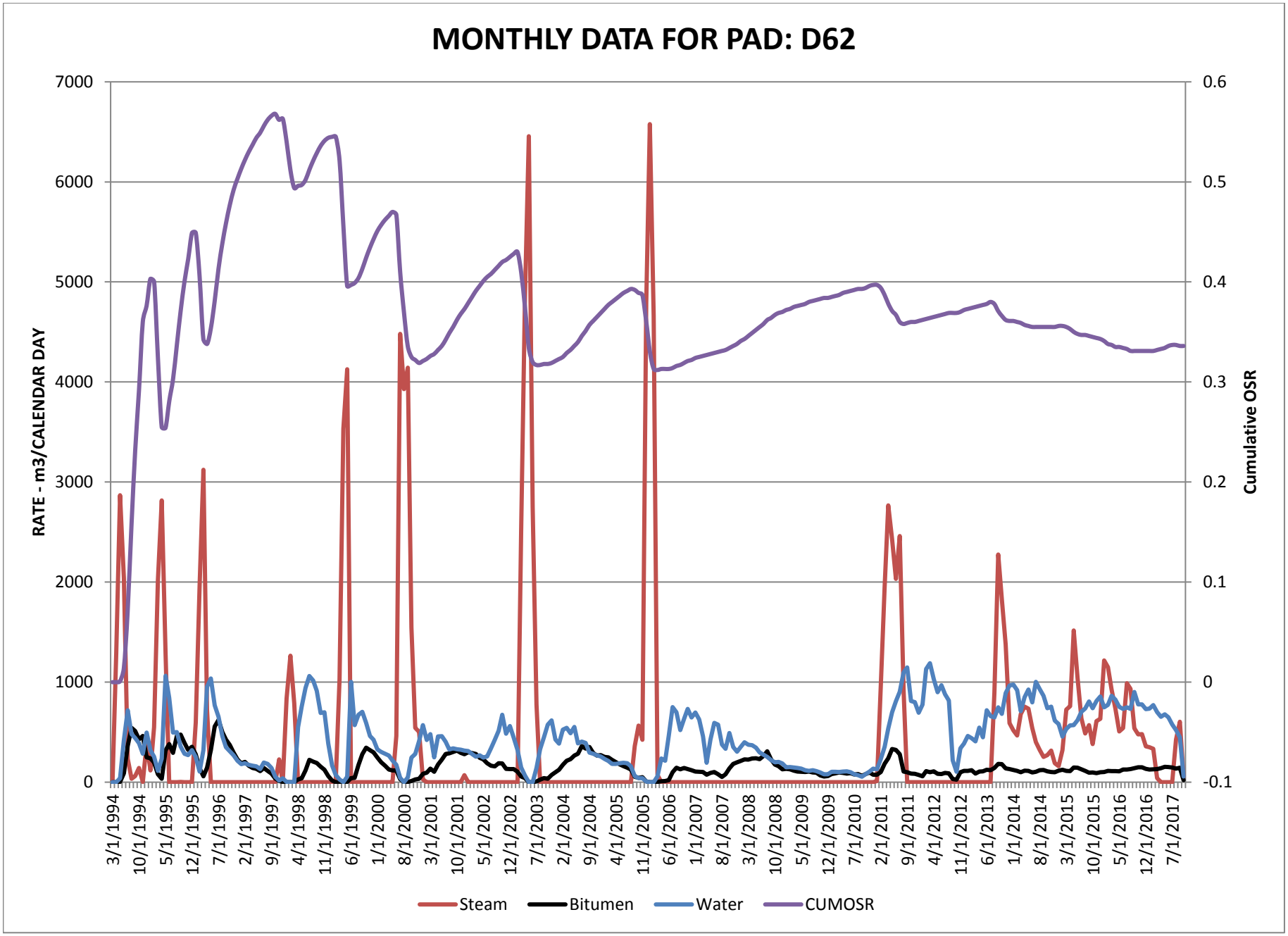

MONTHLY DATA FOR PAD: D52
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
3/1/1989
11/1/1989
7/1/1990
3/1/1991
11/1/1991
7/1/1992
3/1/1993
11/1/1993
7/1/1994
3/1/1995
11/1/1995
7/1/1996
3/1/1997
11/1/1997
7/1/1998
3/1/1999
11/1/1999
7/1/2000
3/1/2001
11/1/2001
7/1/2002
3/1/2003
11/1/2003
7/1/2004
3/1/2005
11/1/2005
9/1/2006
5/1/2007
1/1/2008
9/1/2008
5/1/2009
1/1/2010
9/1/2010
5/1/2011
1/1/2012
9/1/2012
5/1/2013
1/1/2014
9/1/2014
5/1/2015
1/1/2016
9/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR

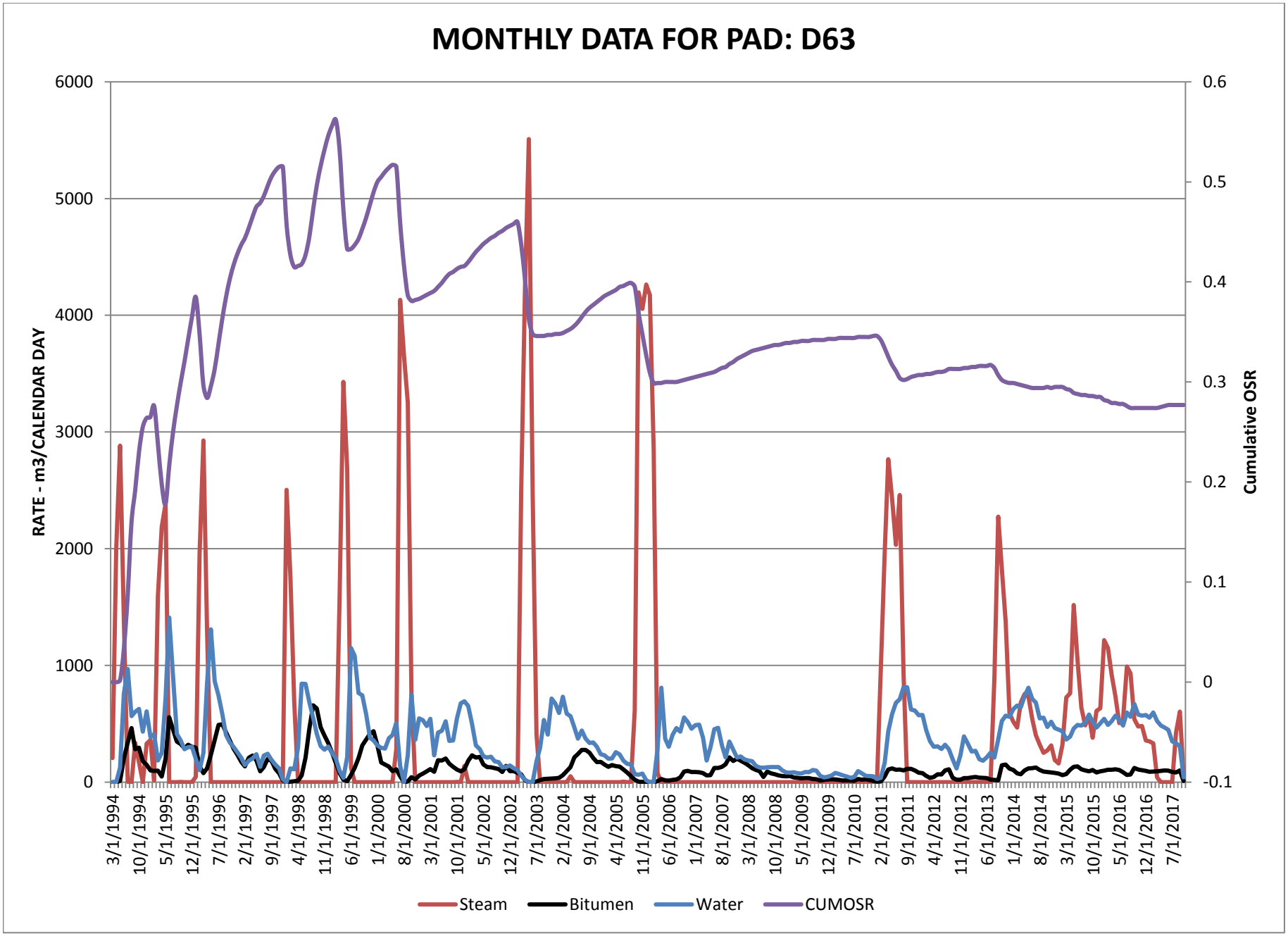

MONTHLY DATA FOR PAD: D53
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
1/1/1994
8/1/1994
3/1/1995
10/1/1995
5/1/1996
12/1/1996
7/1/1997
2/1/1998
9/1/1998
4/1/1999
11/1/1999
6/1/2000
1/1/2001
8/1/2001
3/1/2002
10/1/2002
5/1/2003
12/1/2003
7/1/2004
2/1/2005
9/1/2005
4/1/2006
11/1/2006
6/1/2007
1/1/2008
8/1/2008
3/1/2009
10/1/2009
5/1/2010
12/1/2010
7/1/2011
2/1/2012
9/1/2012
4/1/2013
11/1/2013
6/1/2014
1/1/2015
8/1/2015
3/1/2016
10/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR

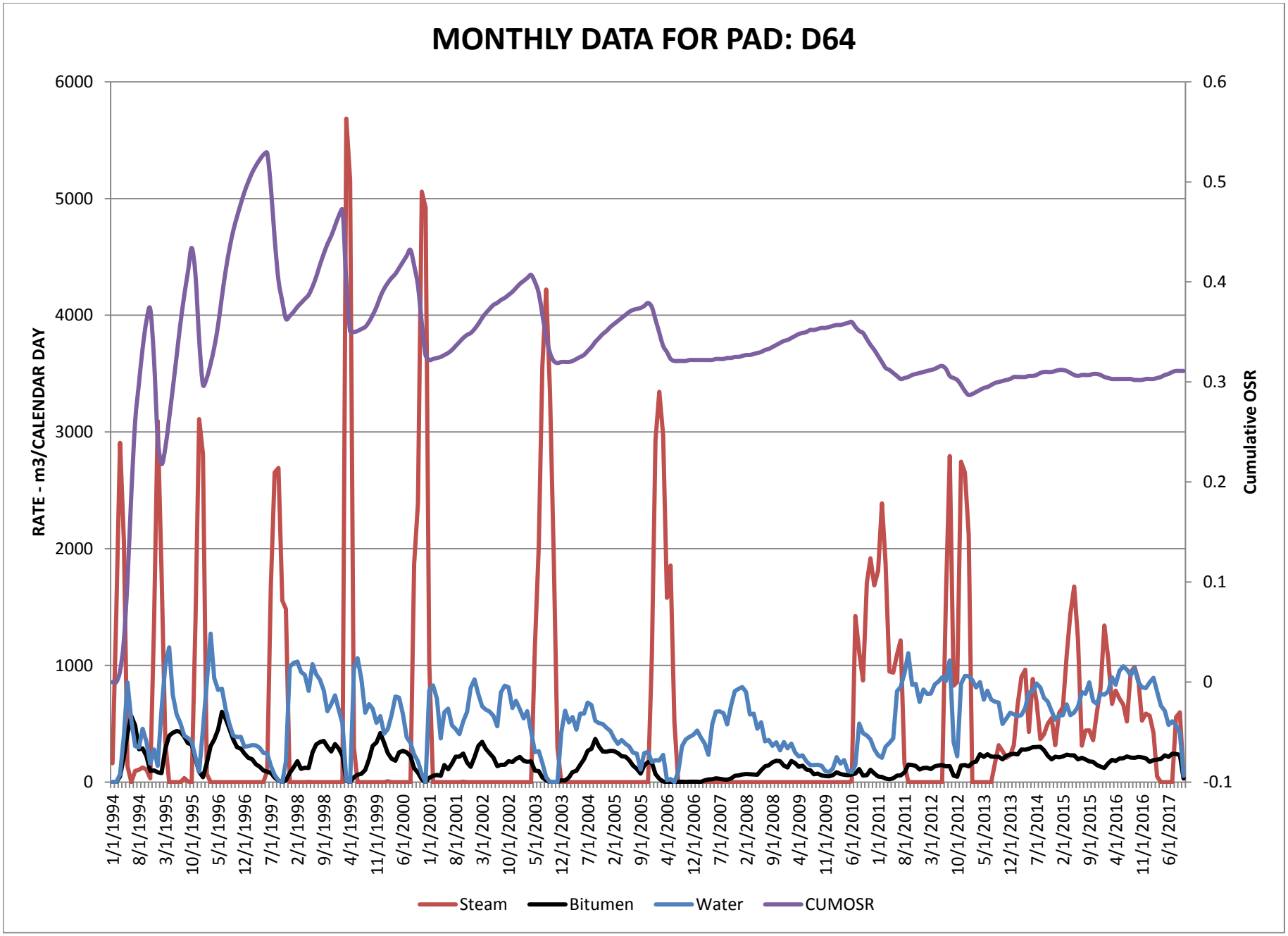

MONTHLY DATA FOR PAD: D54
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
2/1/1990
10/1/1990
6/1/1991
2/1/1992
10/1/1992
6/1/1993
2/1/1994
10/1/1994
6/1/1995
2/1/1996
10/1/1996
6/1/1997
2/1/1998
10/1/1998
6/1/1999
2/1/2000
10/1/2000
6/1/2001
2/1/2002
10/1/2002
6/1/2003
2/1/2004
10/1/2004
6/1/2005
2/1/2006
10/1/2006
6/1/2007
2/1/2008
10/1/2008
6/1/2009
2/1/2010
10/1/2010
6/1/2011
2/1/2012
10/1/2012
6/1/2013
2/1/2014
10/1/2014
6/1/2015
2/1/2016
10/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR

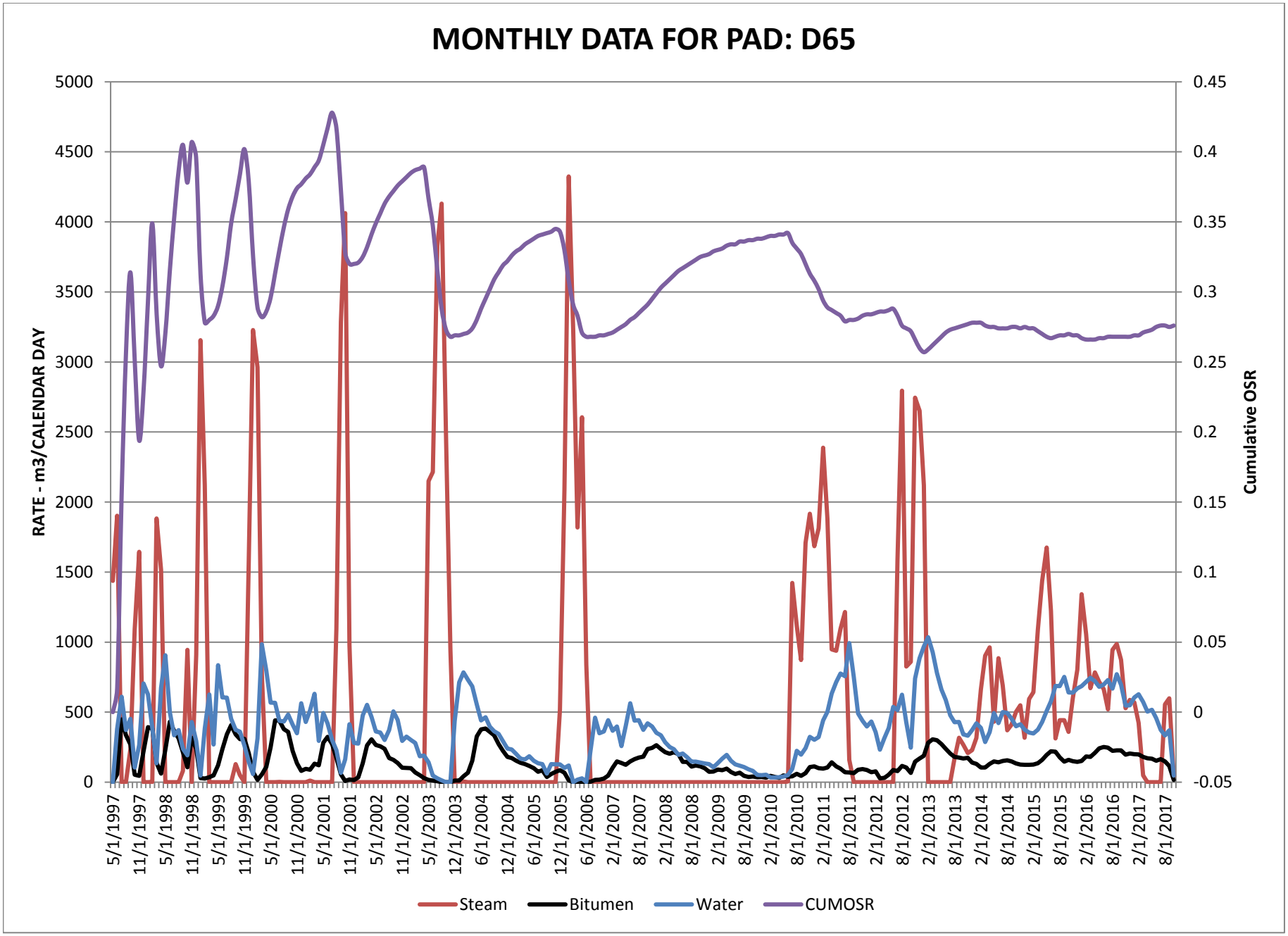

MONTHLY DATA FOR PAD: D55
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/1990
9/1/1990
5/1/1991
1/1/1992
9/1/1992
5/1/1993
1/1/1994
9/1/1994
5/1/1995
1/1/1996
9/1/1996
5/1/1997
1/1/1998
9/1/1998
5/1/1999
1/1/2000
9/1/2000
5/1/2001
1/1/2002
9/1/2002
5/1/2003
1/1/2004
9/1/2004
5/1/2005
1/1/2006
9/1/2006
5/1/2007
1/1/2008
9/1/2008
5/1/2009
1/1/2010
9/1/2010
5/1/2011
1/1/2012
9/1/2012
5/1/2013
1/1/2014
9/1/2014
5/1/2015
1/1/2016
9/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR

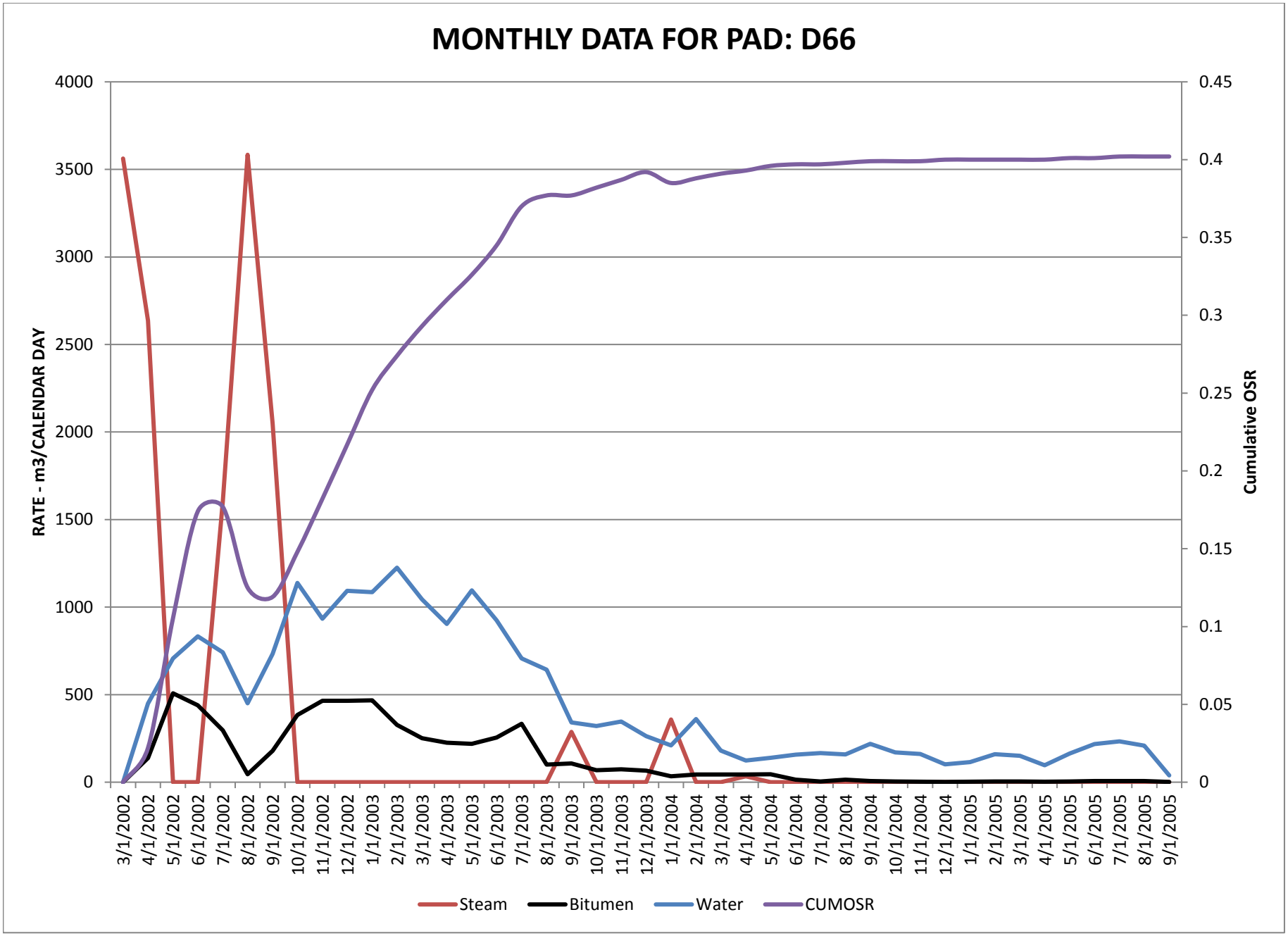

MONTHLY DATA FOR PAD: D57
RATE - m3/CALENDAR DAY
Cumulative OSR
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2002
6/1/2002
7/1/2002
8/1/2002
9/1/2002
10/1/2002
11/1/2002
12/1/2002
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
1/1/2004
2/1/2004
3/1/2004
4/1/2004
5/1/2004
6/1/2004
7/1/2004
8/1/2004
9/1/2004
10/1/2004
11/1/2004
12/1/2004
1/1/2005
2/1/2005
3/1/2005
4/1/2005
5/1/2005
6/1/2005
7/1/2005
8/1/2005
9/1/2005
Steam
Bitumen
Water
CUMOSR

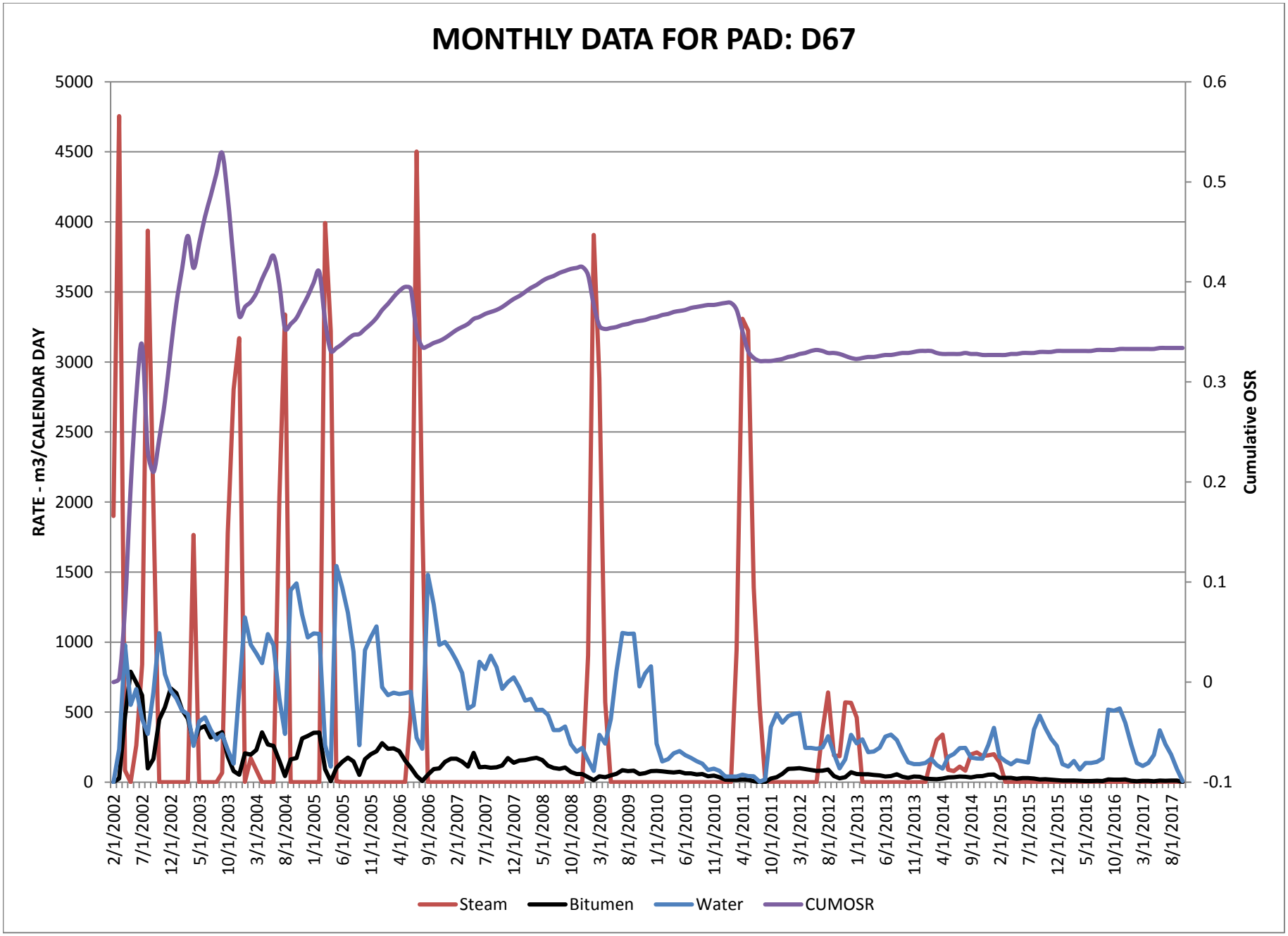

MONTHLY DATA FOR PAD: D62
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
3/1/1994
10/1/1994
5/1/1995
12/1/1995
7/1/1996
2/1/1997
9/1/1997
4/1/1998
11/1/1998
6/1/1999
1/1/2000
8/1/2000
3/1/2001
10/1/2001
5/1/2002
12/1/2002
7/1/2003
2/1/2004
9/1/2004
4/1/2005
11/1/2005
6/1/2006
1/1/2007
8/1/2007
3/1/2008
10/1/2008
5/1/2009
12/1/2009
7/1/2010
2/1/2011
9/1/2011
4/1/2012
11/1/2012
6/1/2013
1/1/2014
8/1/2014
3/1/2015
10/1/2015
5/1/2016
12/1/2016
7/1/2017
Steam
Bitumen
Water
CUMOSR

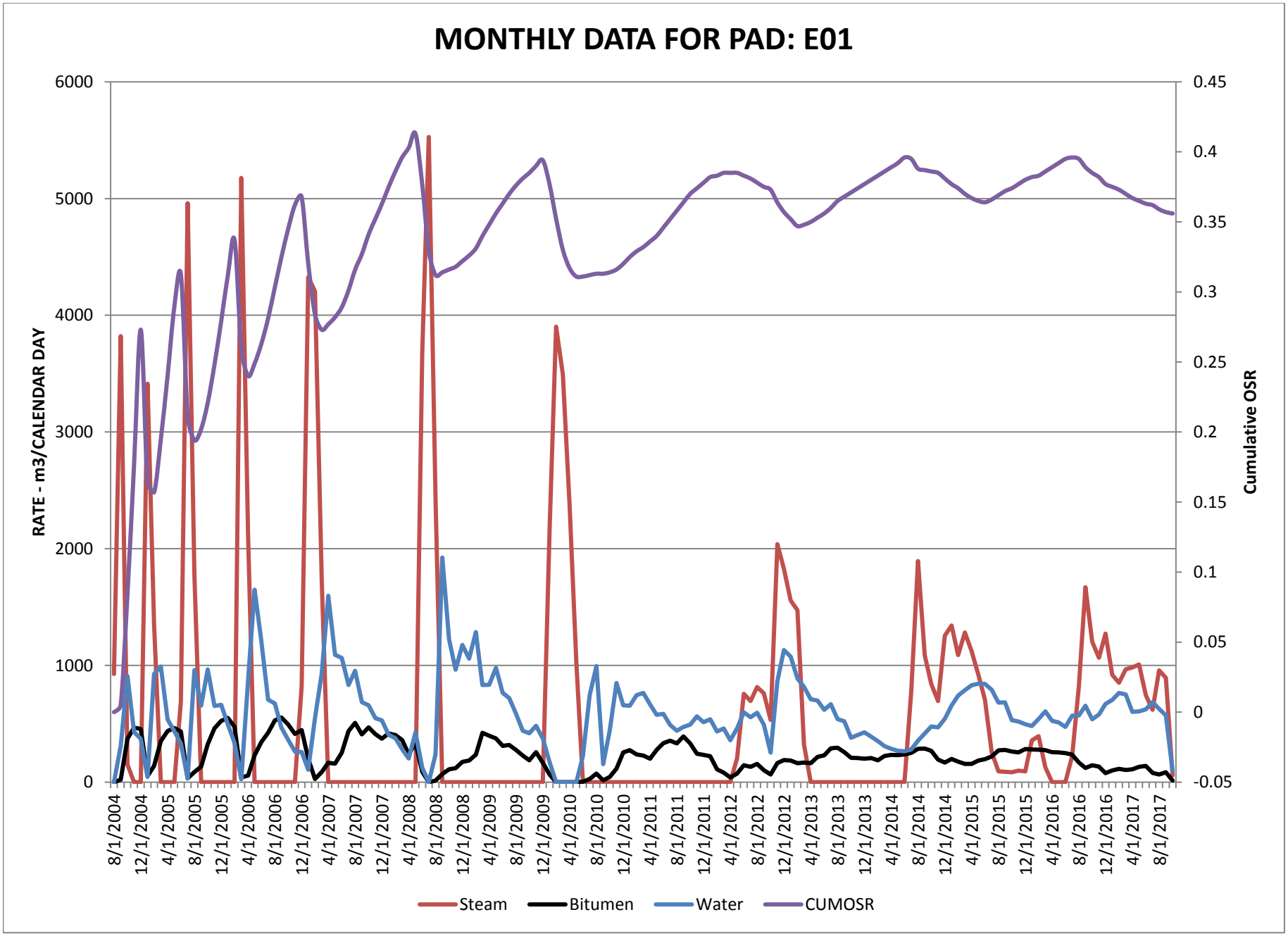

MONTHLY DATA FOR PAD: D63
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
3/1/1994
10/1/1994
5/1/1995
12/1/1995
7/1/1996
2/1/1997
9/1/1997
4/1/1998
11/1/1998
6/1/1999
1/1/2000
8/1/2000
3/1/2001
10/1/2001
5/1/2002
12/1/2002
7/1/2003
2/1/2004
9/1/2004
4/1/2005
11/1/2005
6/1/2006
1/1/2007
8/1/2007
3/1/2008
10/1/2008
5/1/2009
12/1/2009
7/1/2010
2/1/2011
9/1/2011
4/1/2012
11/1/2012
6/1/2013
1/1/2014
8/1/2014
3/1/2015
10/1/2015
5/1/2016
12/1/2016
7/1/2017
Steam
Bitumen
Water
CUMOSR

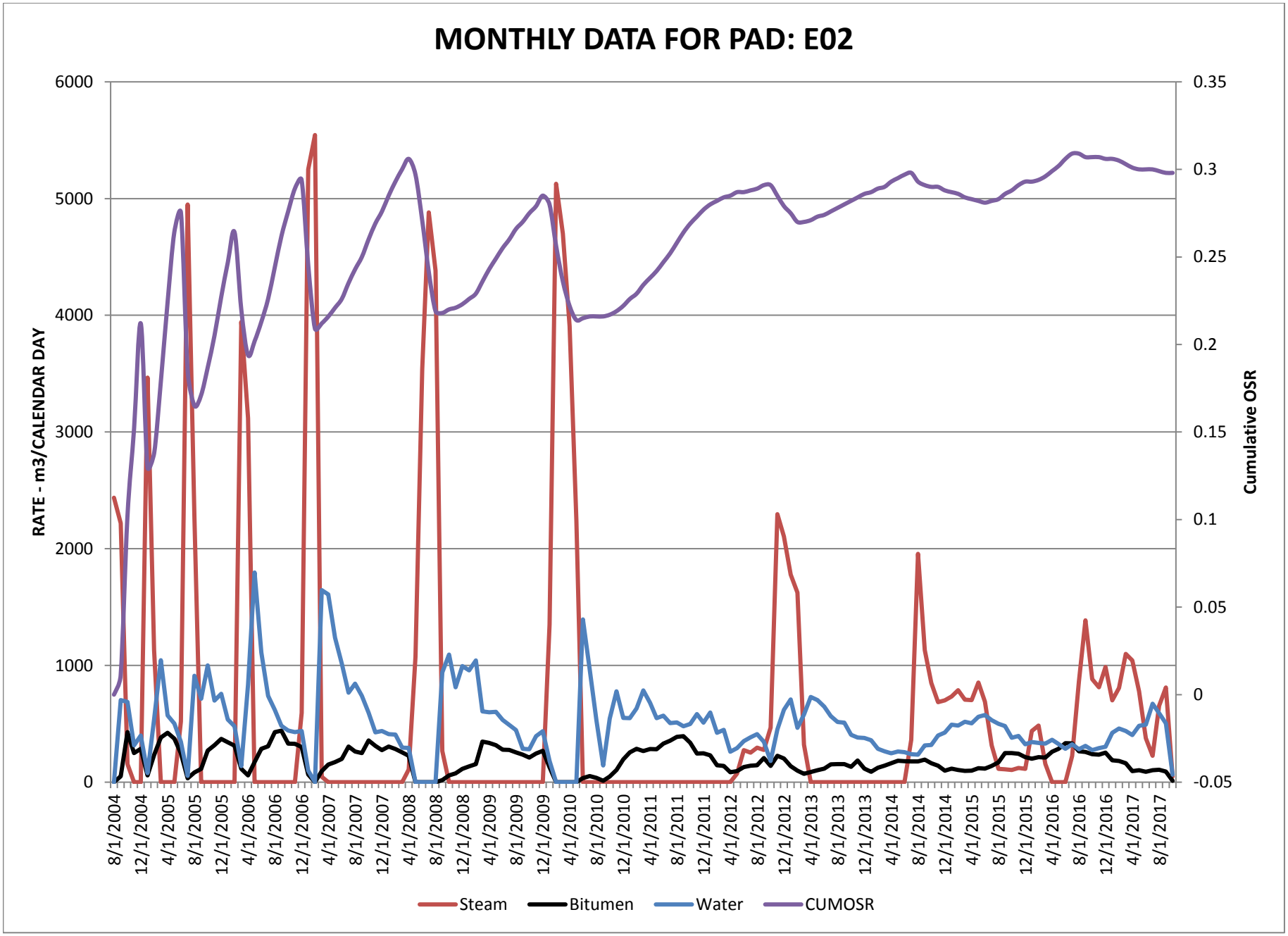

MONTHLY DATA FOR PAD: D64
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
1/1/1994
8/1/1994
3/1/1995
10/1/1995
5/1/1996
12/1/1996
7/1/1997
2/1/1998
9/1/1998
4/1/1999
11/1/1999
6/1/2000
1/1/2001
8/1/2001
3/1/2002
10/1/2002
5/1/2003
12/1/2003
7/1/2004
2/1/2005
9/1/2005
4/1/2006
12/1/2006
7/1/2007
2/1/2008
9/1/2008
4/1/2009
11/1/2009
6/1/2010
1/1/2011
8/1/2011
3/1/2012
10/1/2012
5/1/2013
12/1/2013
7/1/2014
2/1/2015
9/1/2015
4/1/2016
11/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR

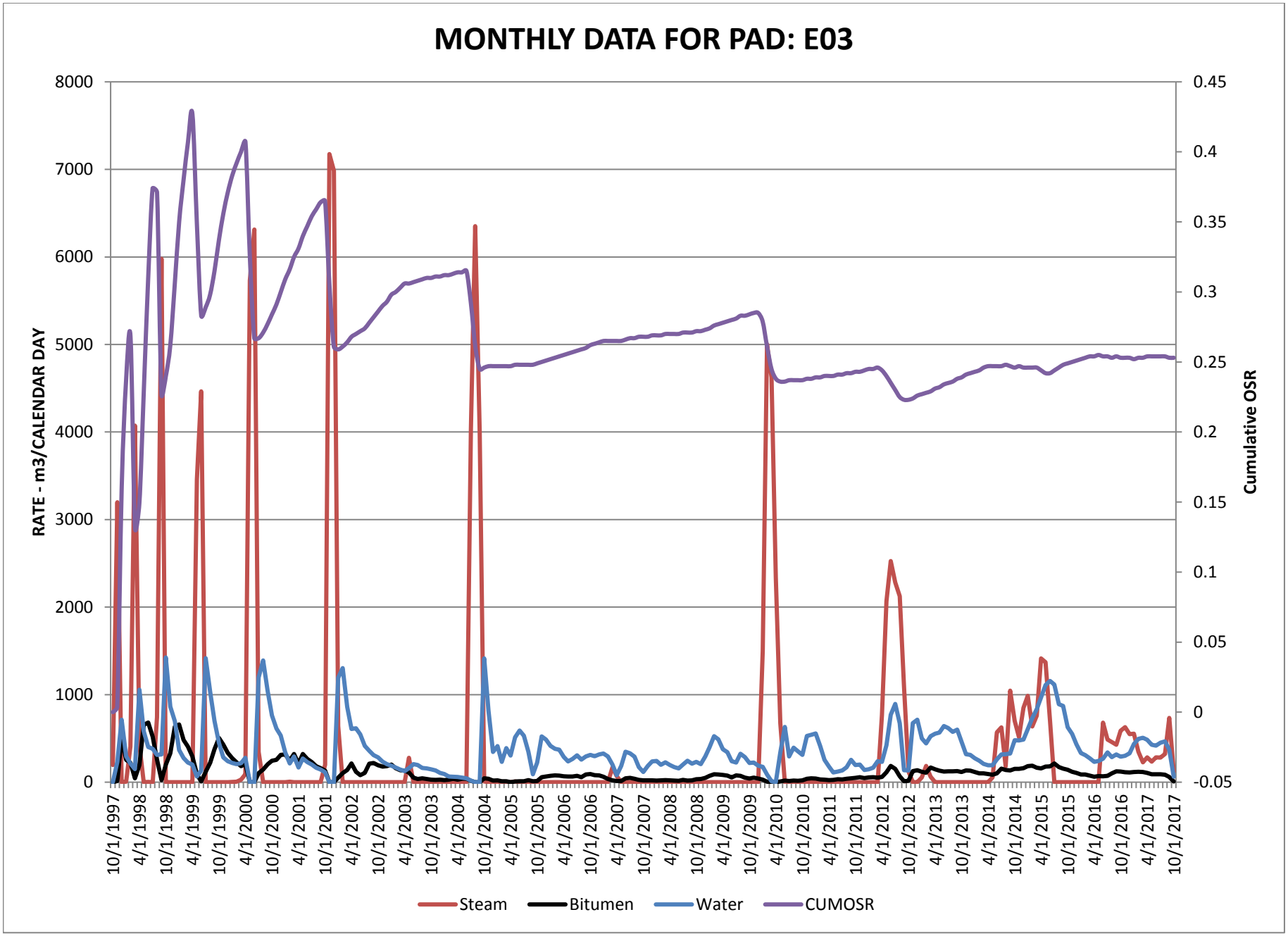

MONTHLY DATA FOR PAD: D65
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1997
11/1/1997
5/1/1998
11/1/1998
5/1/1999
11/1/1999
5/1/2000
11/1/2000
5/1/2001
11/1/2001
5/1/2002
11/1/2002
5/1/2003
12/1/2003
6/1/2004
12/1/2004
6/1/2005
12/1/2005
6/1/2006
2/1/2007
8/1/2007
2/1/2008
8/1/2008
2/1/2009
8/1/2009
2/1/2010
8/1/2010
2/1/2011
8/1/2011
2/1/2012
8/1/2012
2/1/2013
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D66
RATE - m3/CALENDAR DAY
Cumulative OSR
4000
3500
3000
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/2002
4/1/2002
5/1/2002
6/1/2002
7/1/2002
8/1/2002
9/1/2002
10/1/2002
11/1/2002
12/1/2002
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
1/1/2004
2/1/2004
3/1/2004
4/1/2004
5/1/2004
6/1/2004
7/1/2004
8/1/2004
9/1/2004
10/1/2004
11/1/2004
12/1/2004
1/1/2005
2/1/2005
3/1/2005
4/1/2005
5/1/2005
6/1/2005
7/1/2005
8/1/2005
9/1/2005
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: D67
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
2/1/2002
7/1/2002
12/1/2002
5/1/2003
10/1/2003
3/1/2004
8/1/2004
1/1/2005
6/1/2005
11/1/2005
4/1/2006
9/1/2006
2/1/2007
7/1/2007
12/1/2007
5/1/2008
10/1/2008
3/1/2009
8/1/2009
1/1/2010
6/1/2010
11/1/2010
4/1/2011
10/1/2011
3/1/2012
8/1/2012
1/1/2013
6/1/2013
11/1/2013
4/1/2014
9/1/2014
2/1/2015
7/1/2015
12/1/2015
5/1/2016
10/1/2016
3/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: E01
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
8/1/2004
12/1/2004
4/1/2005
8/1/2005
12/1/2005
4/1/2006
8/1/2006
12/1/2006
4/1/2007
8/1/2007
12/1/2007
4/1/2008
8/1/2008
12/1/2008
4/1/2009
8/1/2009
12/1/2009
4/1/2010
8/1/2010
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
8/1/2012
12/1/2012
4/1/2013
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: E02
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
8/1/2004
12/1/2004
4/1/2005
8/1/2005
12/1/2005
4/1/2006
8/1/2006
12/1/2006
4/1/2007
8/1/2007
12/1/2007
4/1/2008
8/1/2008
12/1/2008
4/1/2009
8/1/2009
12/1/2009
4/1/2010
8/1/2010
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
8/1/2012
12/1/2012
4/1/2013
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: E03
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/1997
4/1/1998
10/1/1998
4/1/1999
10/1/1999
4/1/2000
10/1/2000
4/1/2001
10/1/2001
4/1/2002
10/1/2002
4/1/2003
10/1/2003
4/1/2004
10/1/2004
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4/1/2006
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4/1/2007
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4/1/2008
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4/1/2010
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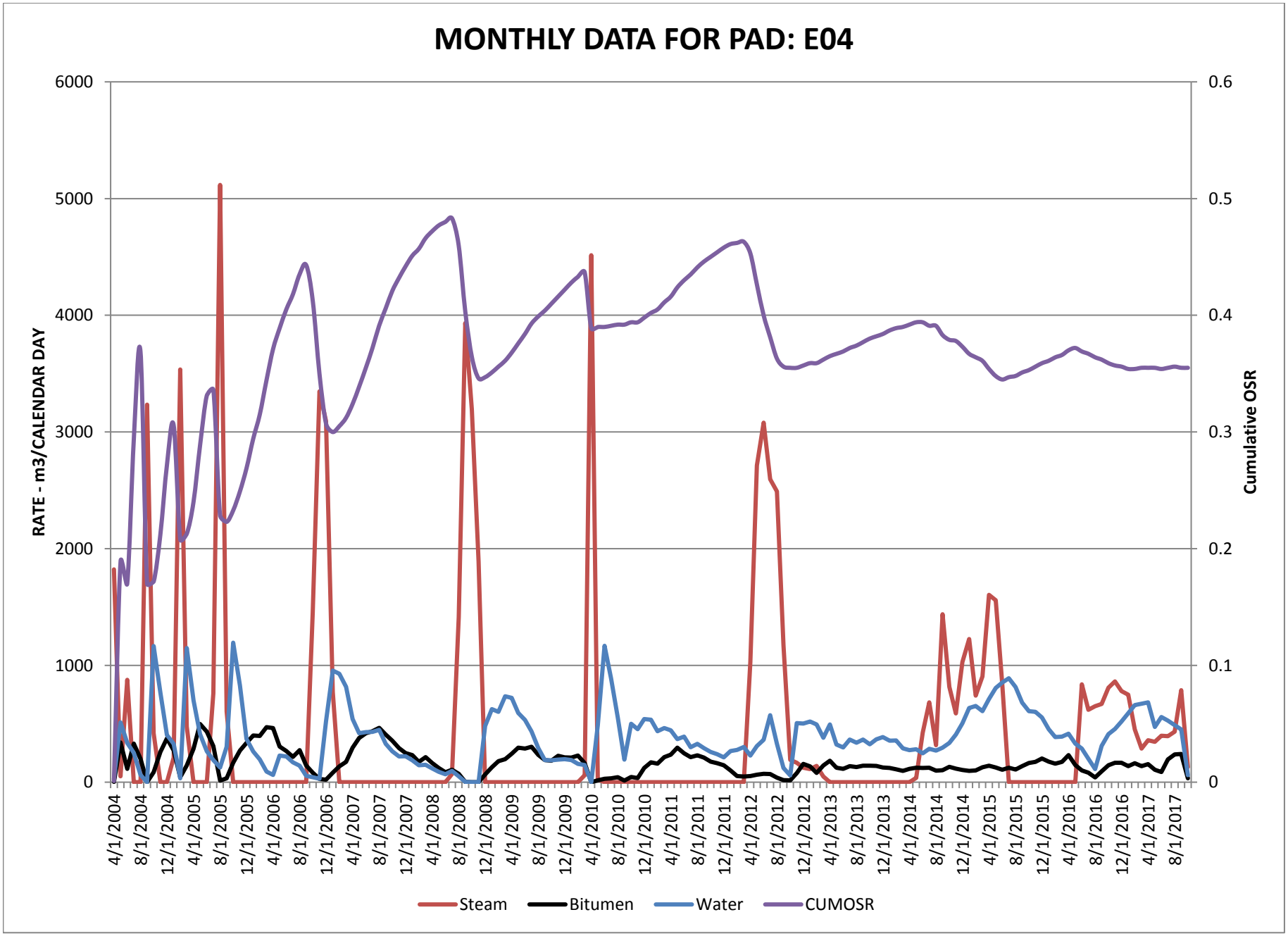
10/1/2013
4/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: E04
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
4/1/2004
8/1/2004
12/1/2004
4/1/2005
8/1/2005
12/1/2005
4/1/2006
8/1/2006
12/1/2006
4/1/2007
8/1/2007
12/1/2007
4/1/2008
8/1/2008
12/1/2008
4/1/2009
8/1/2009
12/1/2009
4/1/2010
8/1/2010
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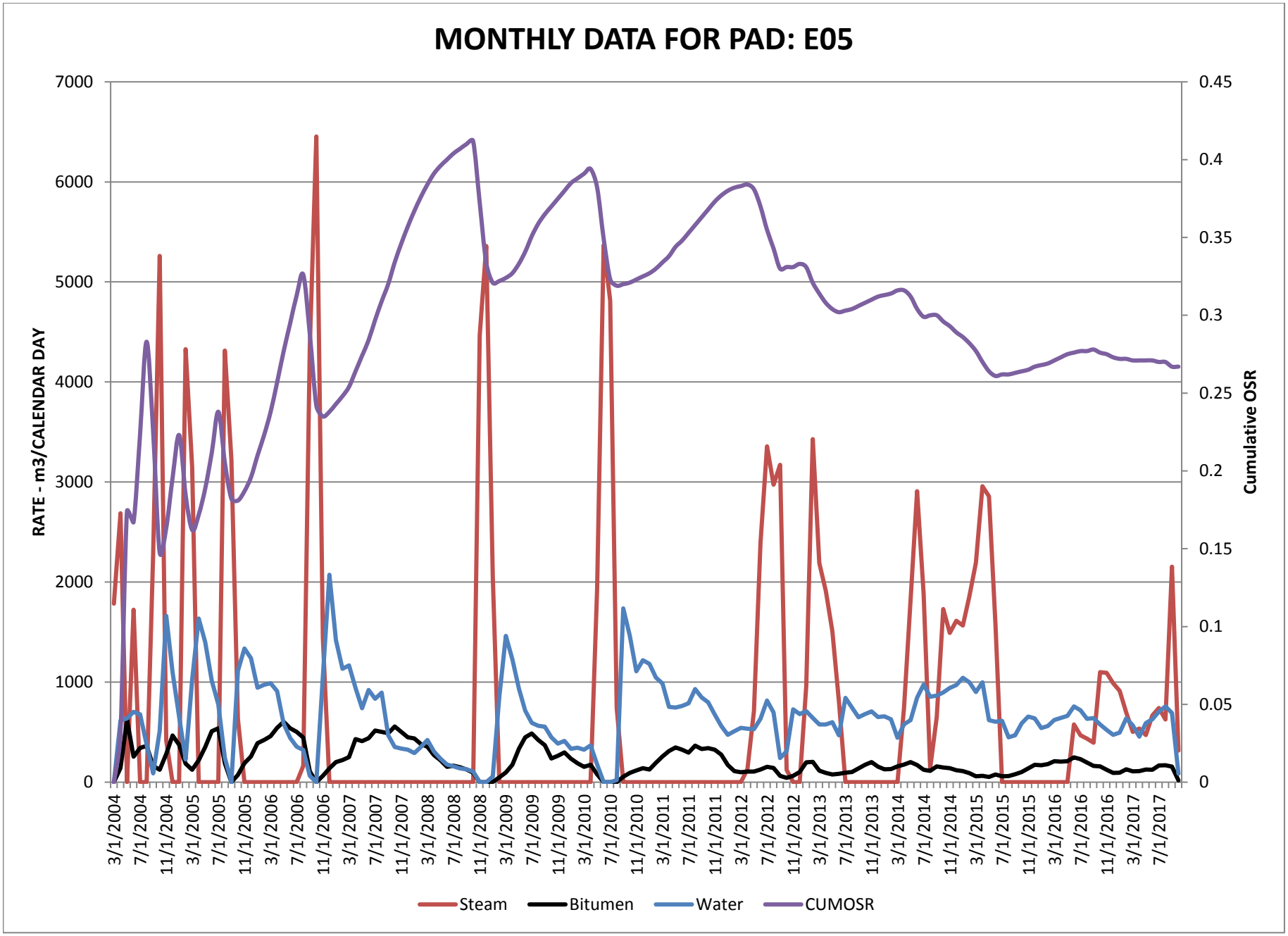
12/1/2011
4/1/2012
8/1/2012
12/1/2012
4/1/2013
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: E05
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/2004
7/1/2004
11/1/2004
3/1/2005
7/1/2005
11/1/2005
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
3/1/2010
7/1/2010
11/1/2010
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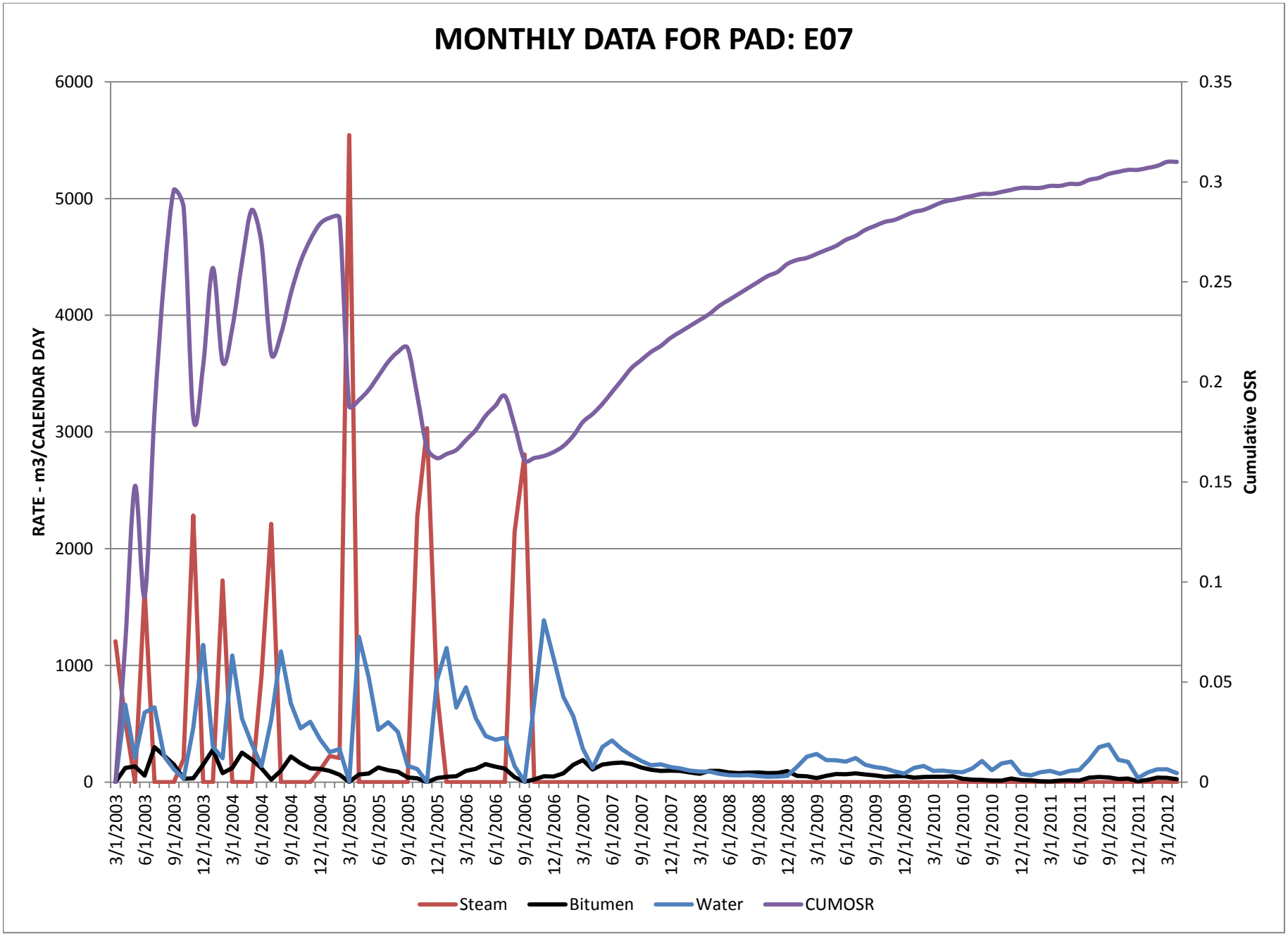
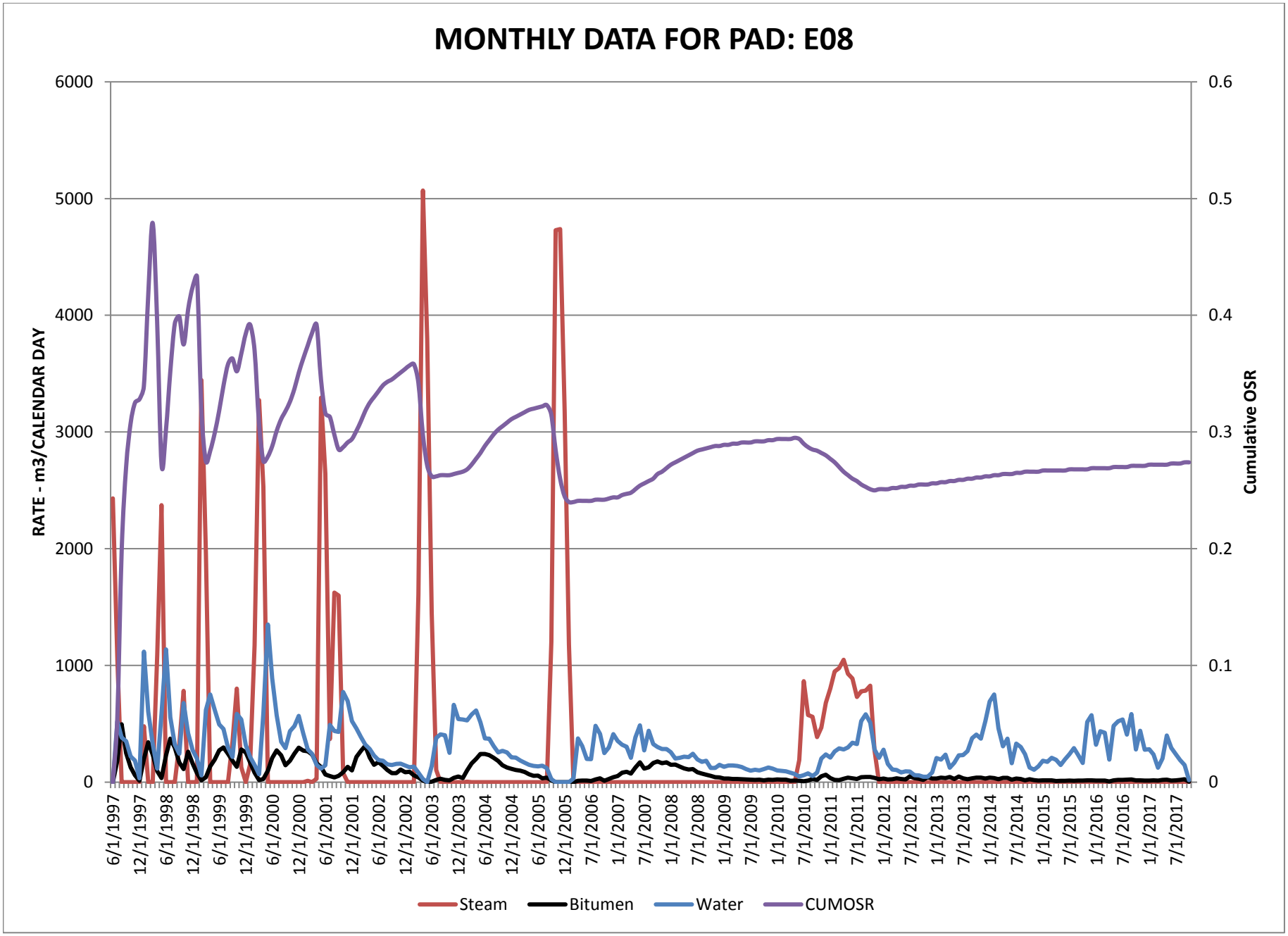
11/1/2011
3/1/2012
7/1/2012
11/1/2012
3/1/2013
7/1/2013
11/1/2013
3/1/2014
7/1/2014
11/1/2014
3/1/2015
7/1/2015
11/1/2015
3/1/2016
7/1/2016
11/1/2016
3/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: E07
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/2003
6/1/2003
9/1/2003
12/1/2003
3/1/2004
6/1/2004
9/1/2004
12/1/2004
3/1/2005
6/1/2005
9/1/2005
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: E08
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
6/1/1997
12/1/1997
6/1/1998
12/1/1998
6/1/1999
12/1/1999
6/1/2000
12/1/2000
6/1/2001
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6/1/2002
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7/1/2006
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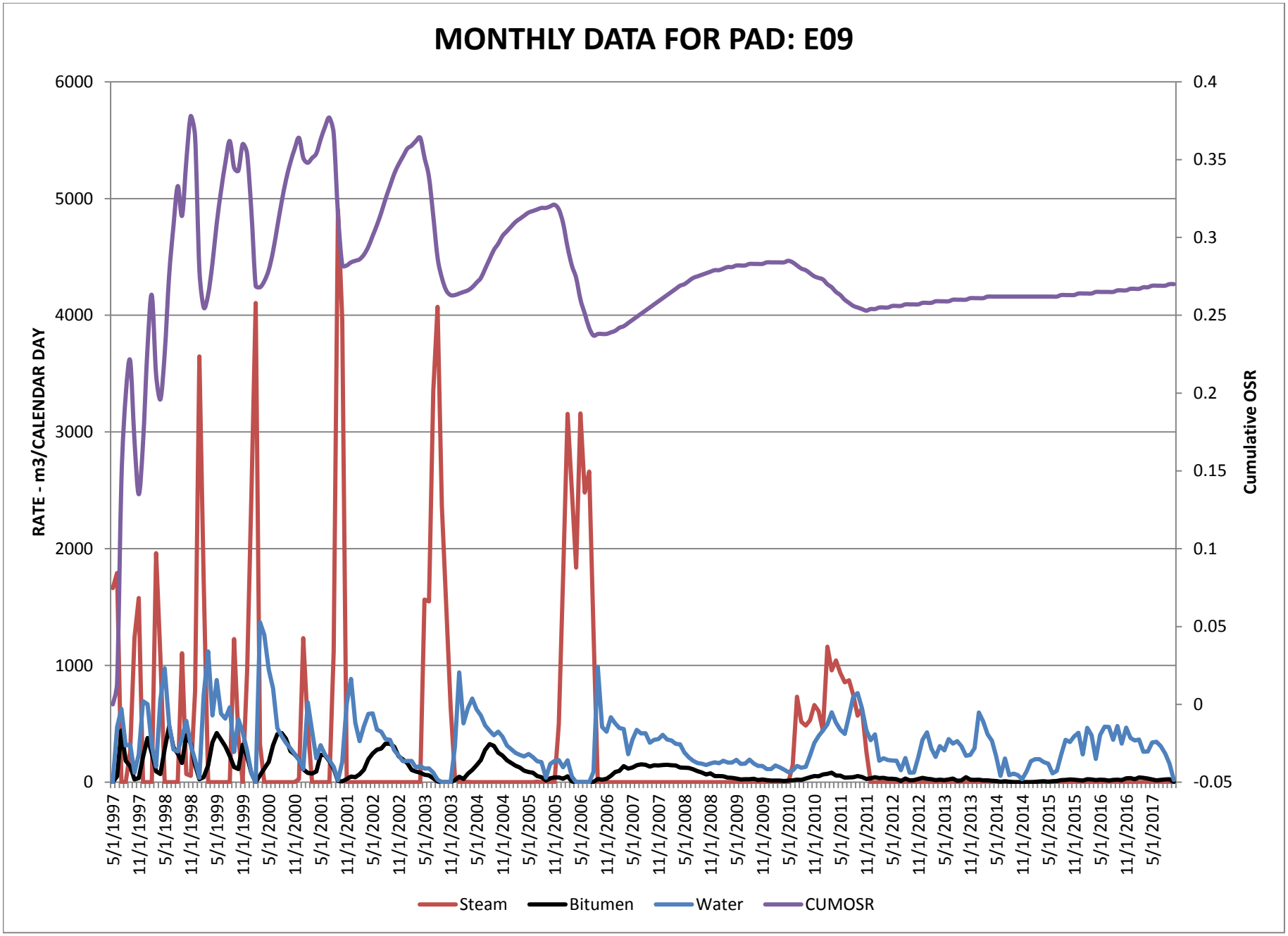
7/1/2013
1/1/2014
7/1/2014
1/1/2015
7/1/2015
1/1/2016
7/1/2016
1/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: E09
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1997
11/1/1997
5/1/1998
11/1/1998
5/1/1999
11/1/1999
5/1/2000
11/1/2000
5/1/2001
11/1/2001
5/1/2002
11/1/2002
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11/1/2003
5/1/2004
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5/1/2007
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5/1/2013
11/1/2013
5/1/2014
11/1/2014
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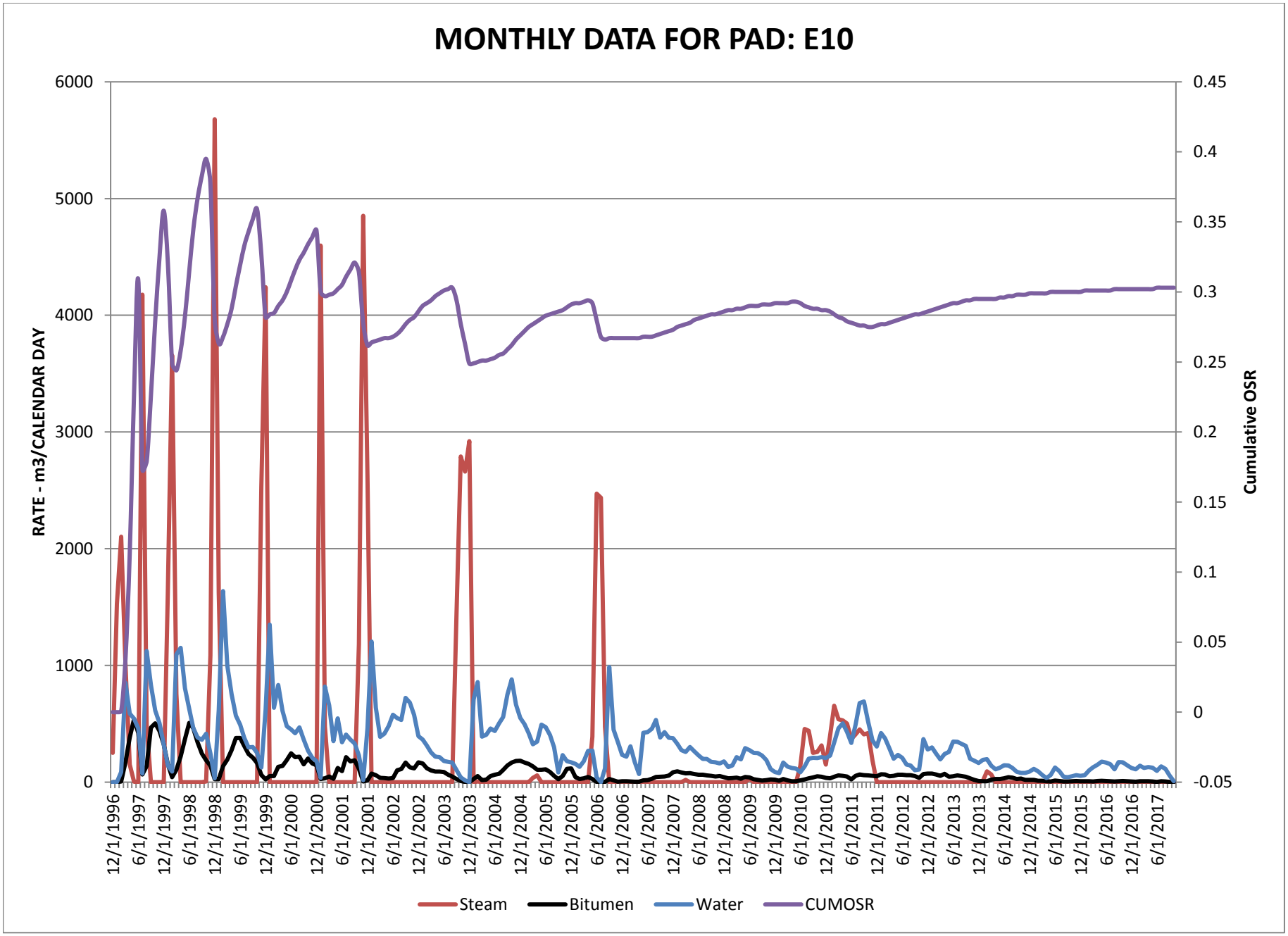
11/1/2015
5/1/2016
11/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: E10
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
12/1/1996
6/1/1997
12/1/1997
6/1/1998
12/1/1998
6/1/1999
12/1/1999
6/1/2000
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6/1/2014
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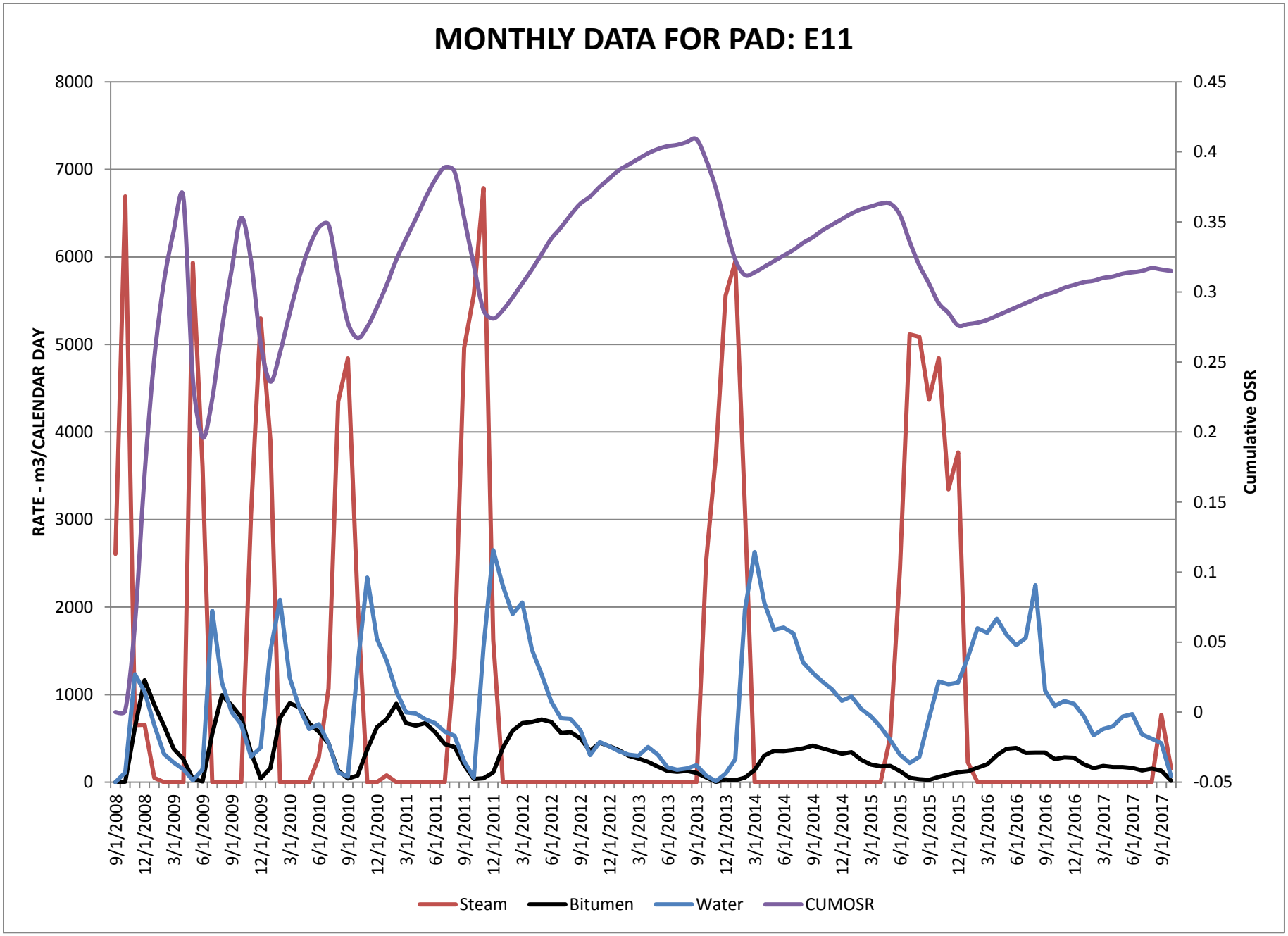
12/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: E11
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
9/1/2008
12/1/2008
3/1/2009
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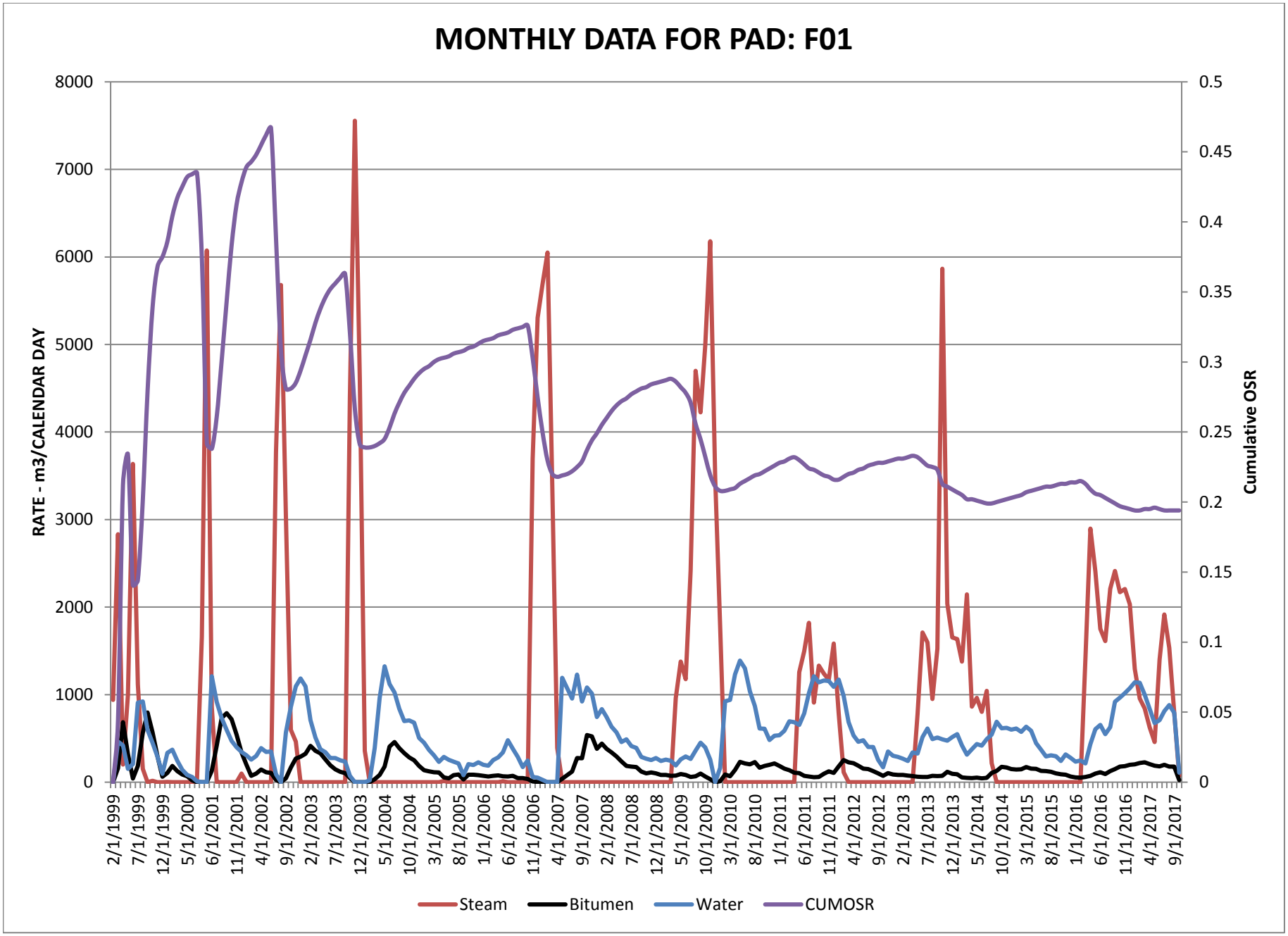
3/1/2015
6/1/2015
9/1/2015
12/1/2015
3/1/2016
6/1/2016
9/1/2016
12/1/2016
3/1/2017
6/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: F01
RATE - m3/CALENDAR DAY
Cumulative OSR
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7000
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
2/1/1999
7/1/1999
12/1/1999
5/1/2000
6/1/2001
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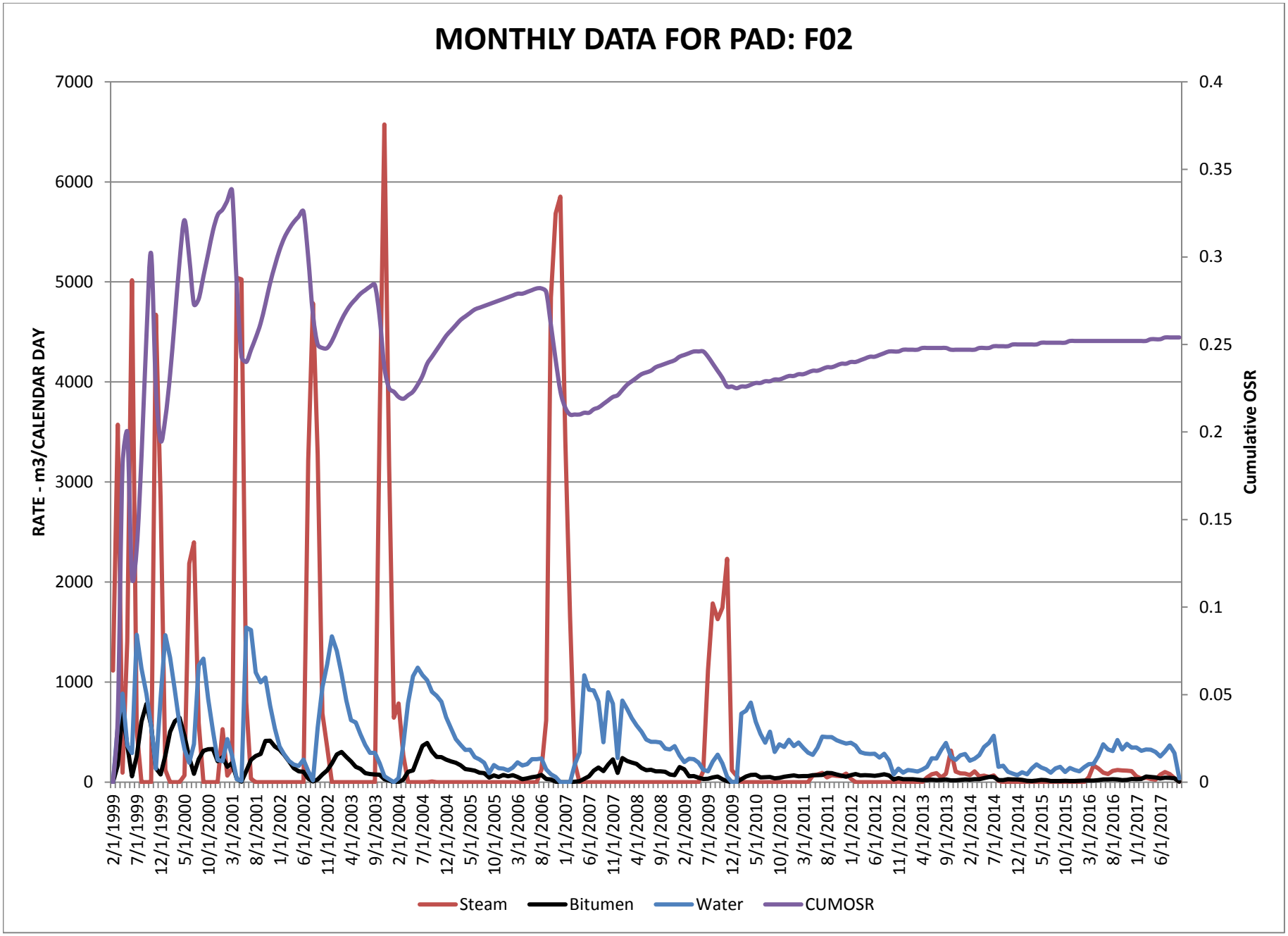
11/1/2011
4/1/2012
9/1/2012
2/1/2013
7/1/2013
12/1/2013
5/1/2014
10/1/2014
3/1/2015
8/1/2015
1/1/2016
6/1/2016
11/1/2016
4/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: F02
RATE - m3/CALENDAR DAY
Cumulative OSR
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6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
2/1/1999
7/1/1999
12/1/1999
5/1/2000
10/1/2000
3/1/2001
8/1/2001
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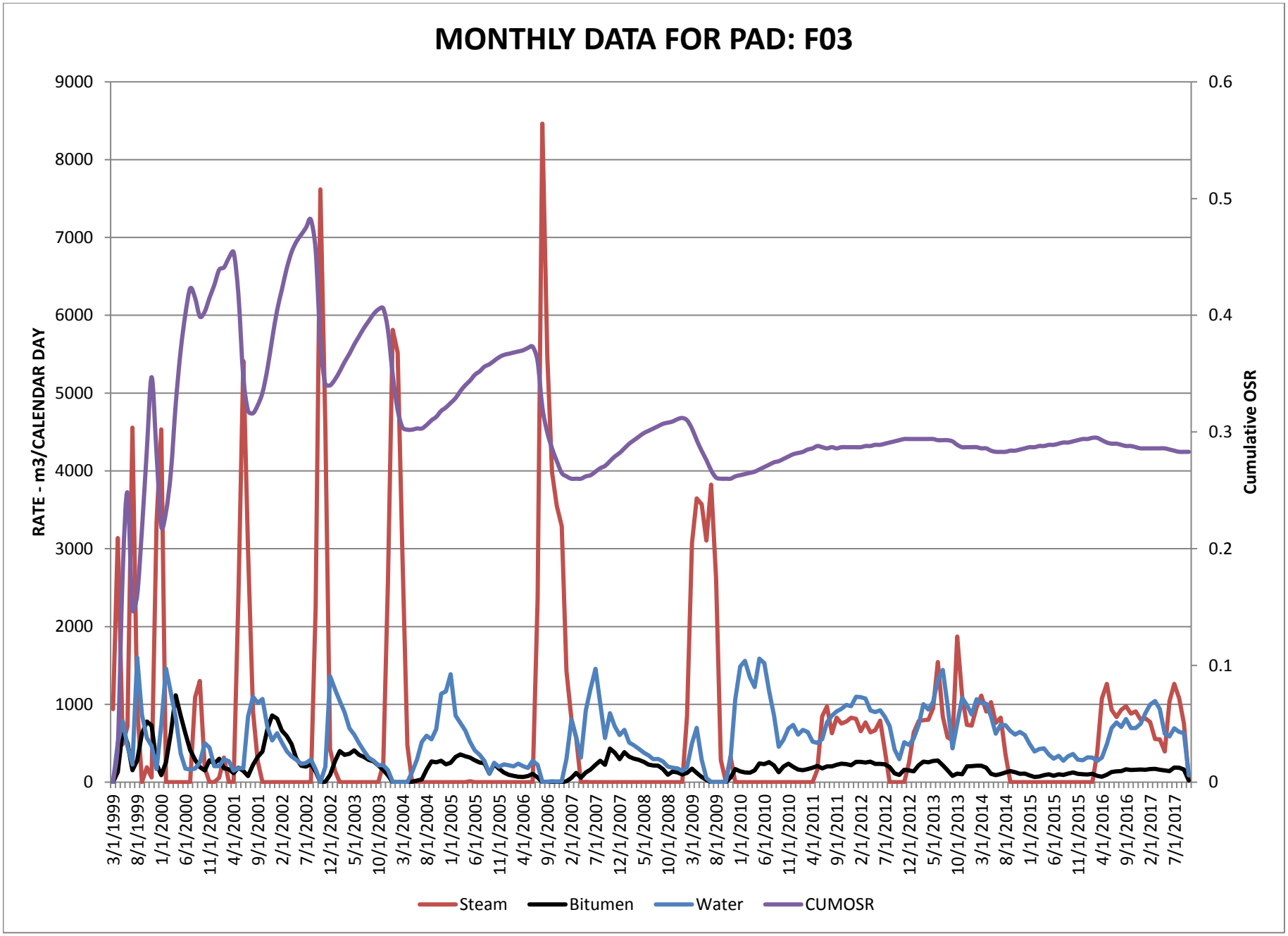
7/1/2014
12/1/2014
5/1/2015
10/1/2015
3/1/2016
8/1/2016
1/1/2017
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: F03
RATE - m3/CALENDAR DAY
Cumulative OSR
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8000
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
3/1/1999
8/1/1999
1/1/2000
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4/1/2001
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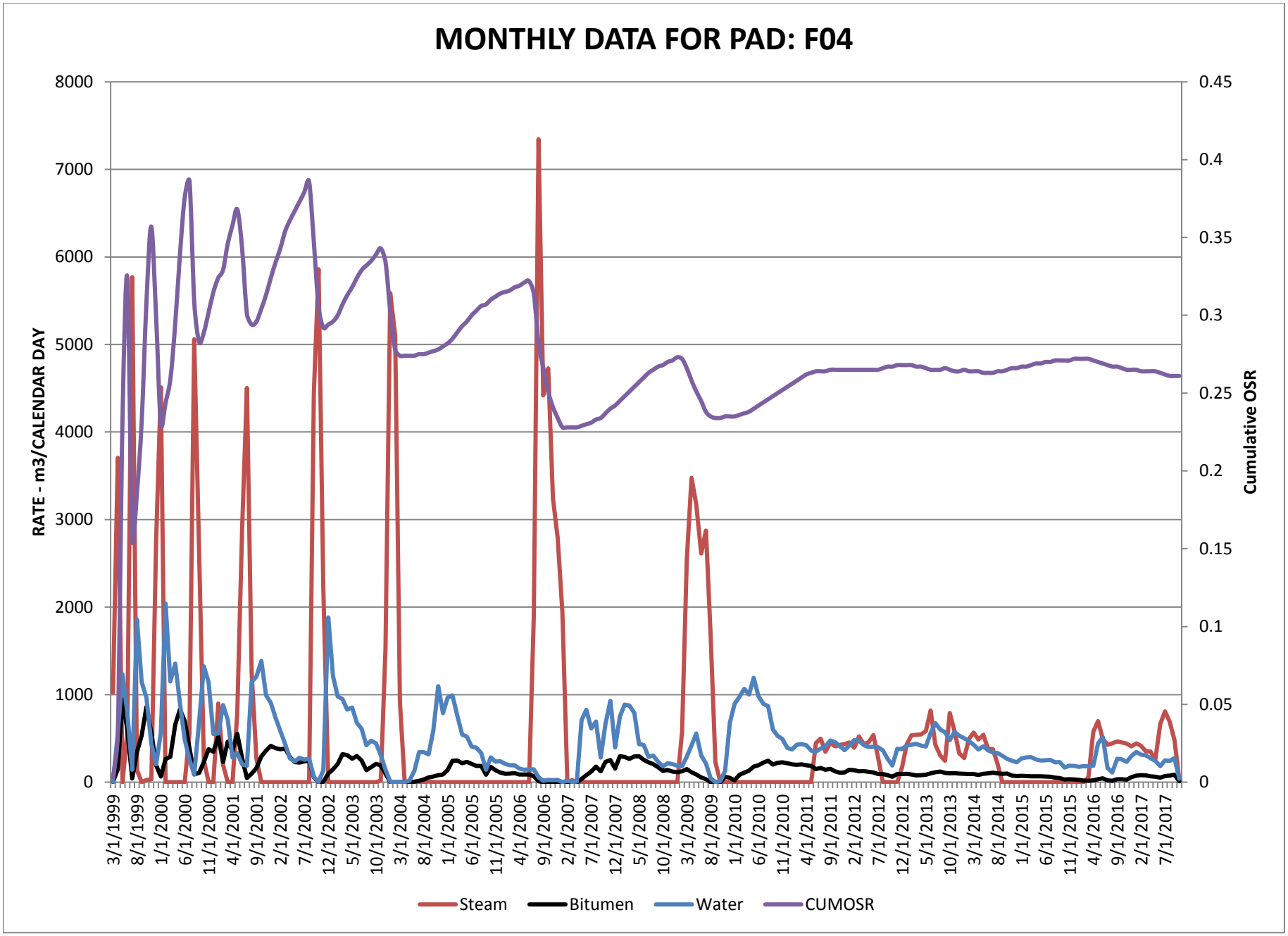
3/1/2014
8/1/2014
1/1/2015
6/1/2015
11/1/2015
4/1/2016
9/1/2016
2/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: F04
RATE - m3/CALENDAR DAY
Cumulative OSR
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7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/1999
8/1/1999
1/1/2000
6/1/2000
11/1/2000
4/1/2001
9/1/2001
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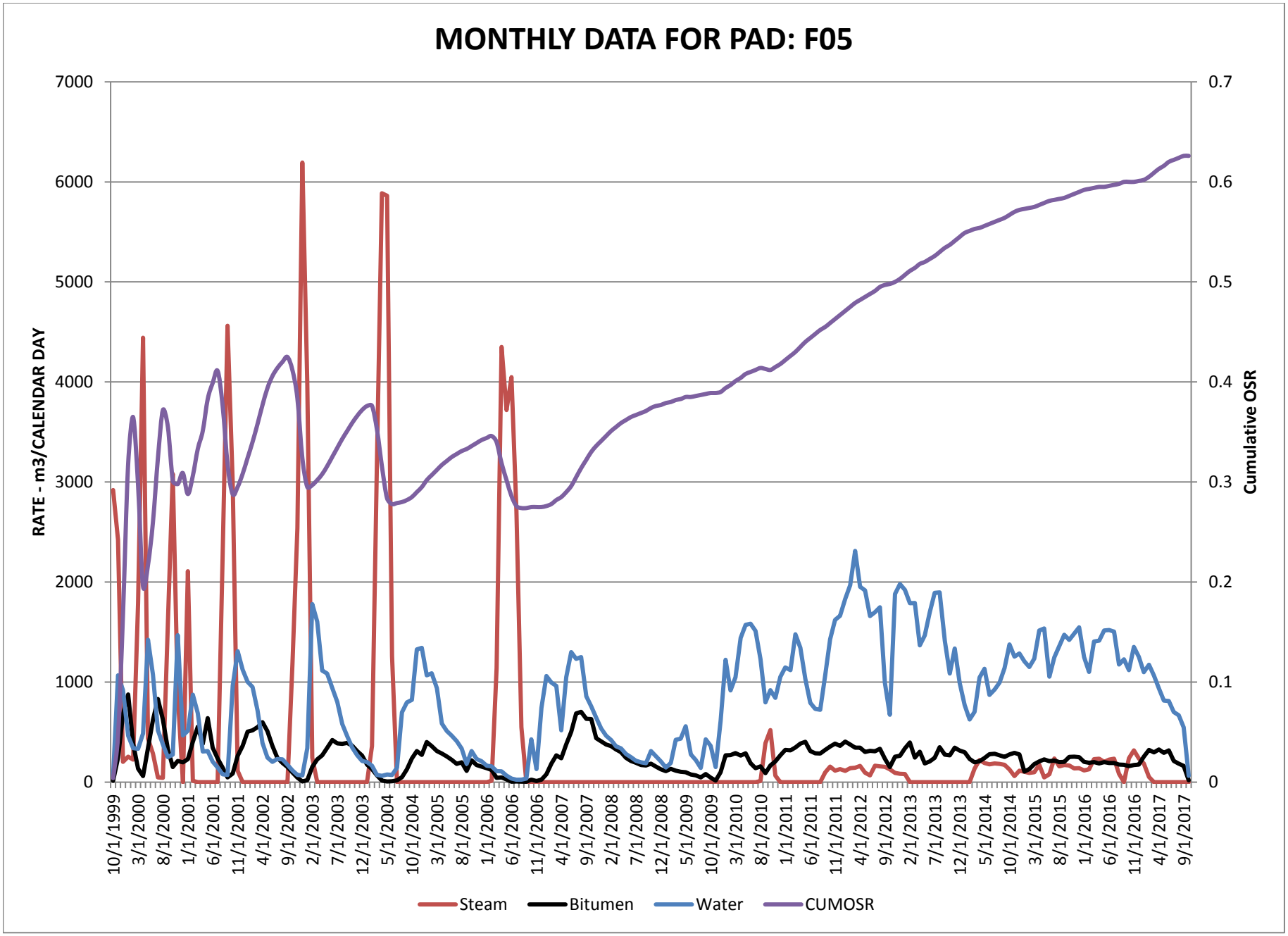
8/1/2014
1/1/2015
6/1/2015
11/1/2015
4/1/2016
9/1/2016
2/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: F05
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
10/1/1999
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8/1/2000
1/1/2001
6/1/2001
11/1/2001
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10/1/2014
3/1/2015
8/1/2015
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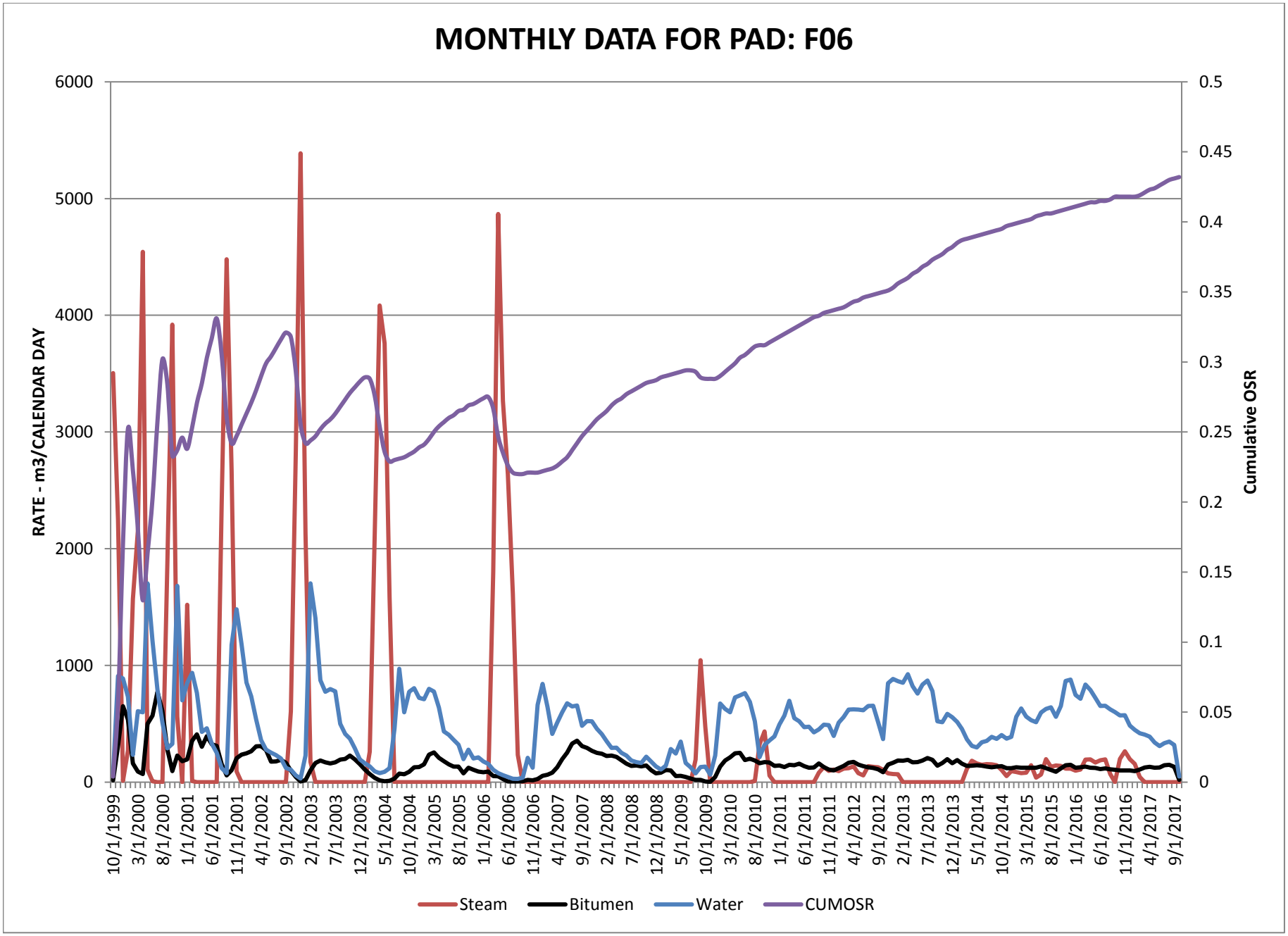
6/1/2016
11/1/2016
4/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: F06
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
10/1/1999
3/1/2000
8/1/2000
1/1/2001
6/1/2001
11/1/2001
4/1/2002
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5/1/2009
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2/1/2013
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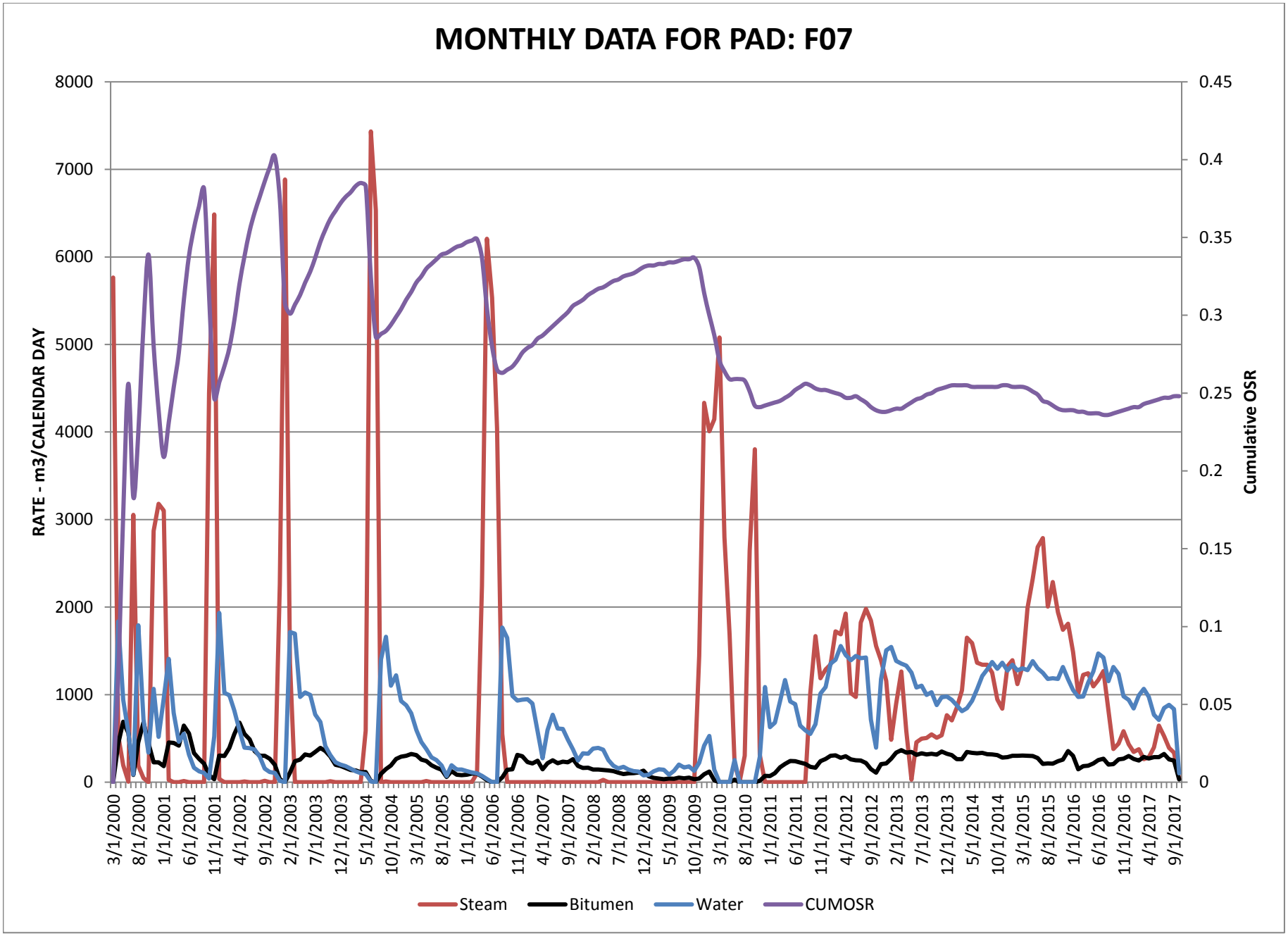
12/1/2013
5/1/2014
10/1/2014
3/1/2015
8/1/2015
1/1/2016
6/1/2016
11/1/2016
4/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: F07
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/2000
8/1/2000
1/1/2001
6/1/2001
11/1/2001
4/1/2002
9/1/2002
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10/1/2014
3/1/2015
8/1/2015
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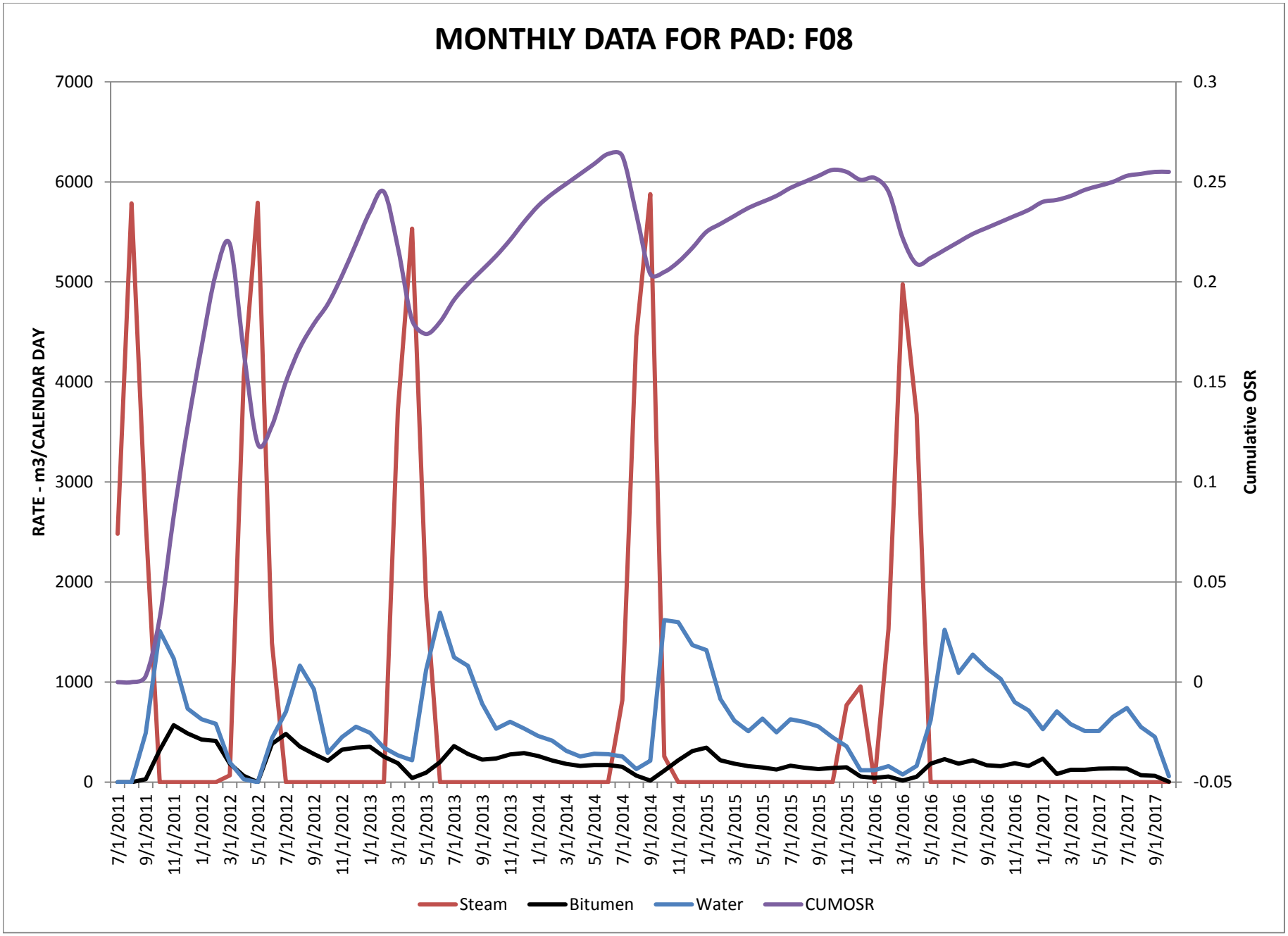
6/1/2016
11/1/2016
4/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: F08
RATE - m3/CALENDAR DAY
Cumulative OSR
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6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
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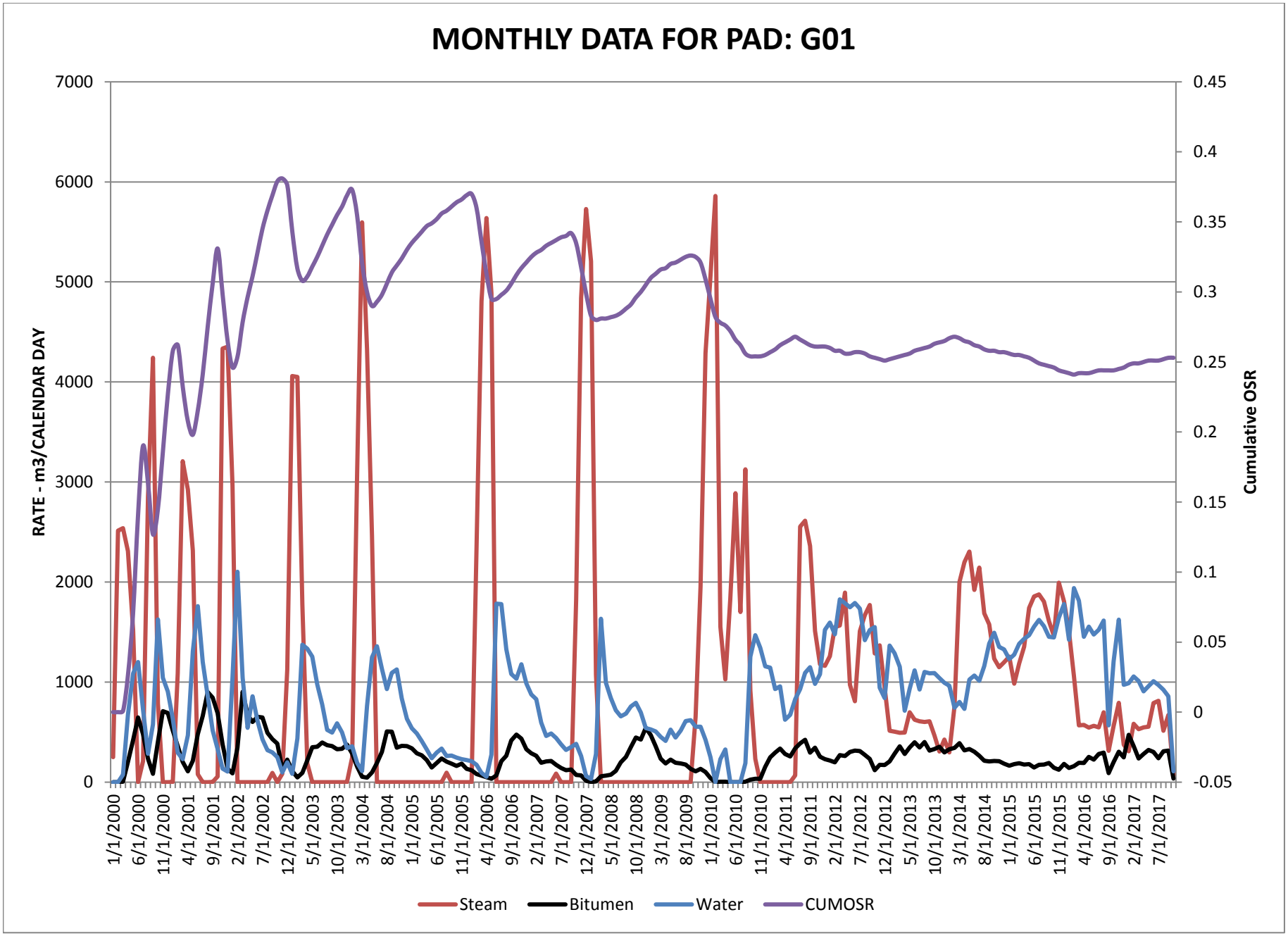
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: G01
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
1/1/2000
6/1/2000
11/1/2000
4/1/2001
9/1/2001
2/1/2002
7/1/2002
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11/1/2005
4/1/2006
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12/1/2007
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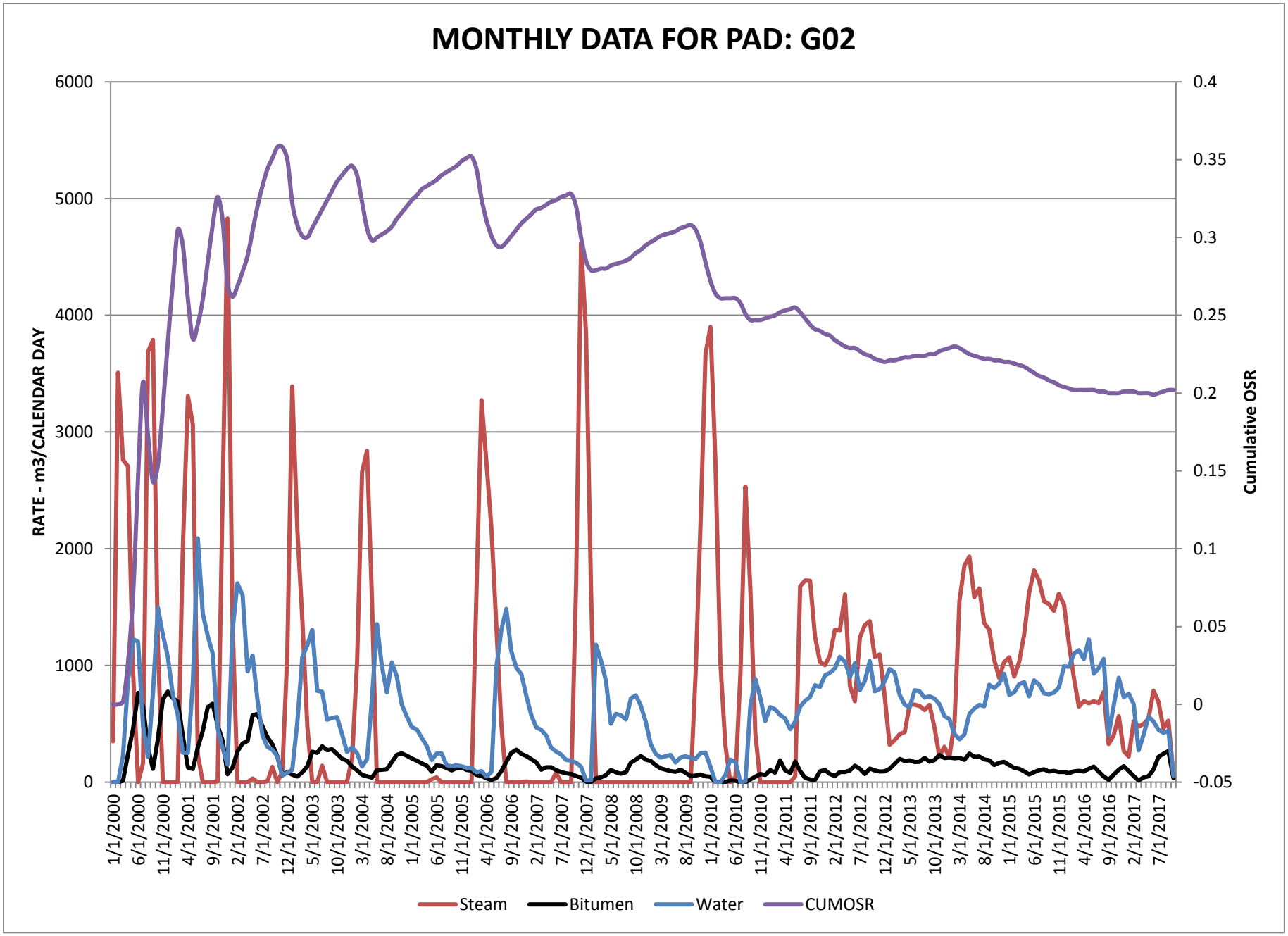
3/1/2014
8/1/2014
1/1/2015
6/1/2015
11/1/2015
4/1/2016
9/1/2016
2/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: G02
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
1/1/2000
6/1/2000
11/1/2000
4/1/2001
9/1/2001
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7/1/2002
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4/1/2006
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3/1/2009
8/1/2009
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11/1/2010
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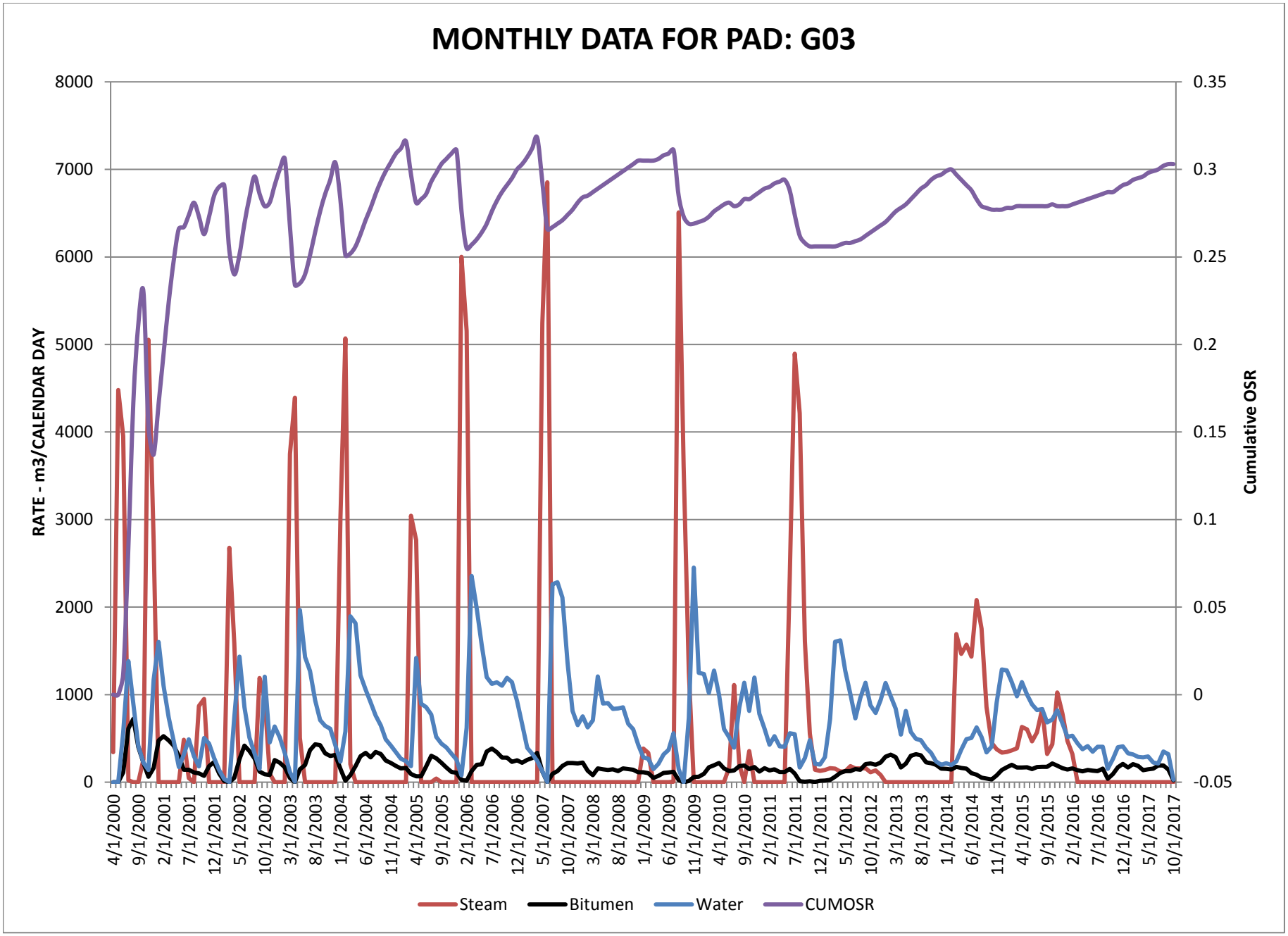
8/1/2014
1/1/2015
6/1/2015
11/1/2015
4/1/2016
9/1/2016
2/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: G03
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/2000
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4/1/2015
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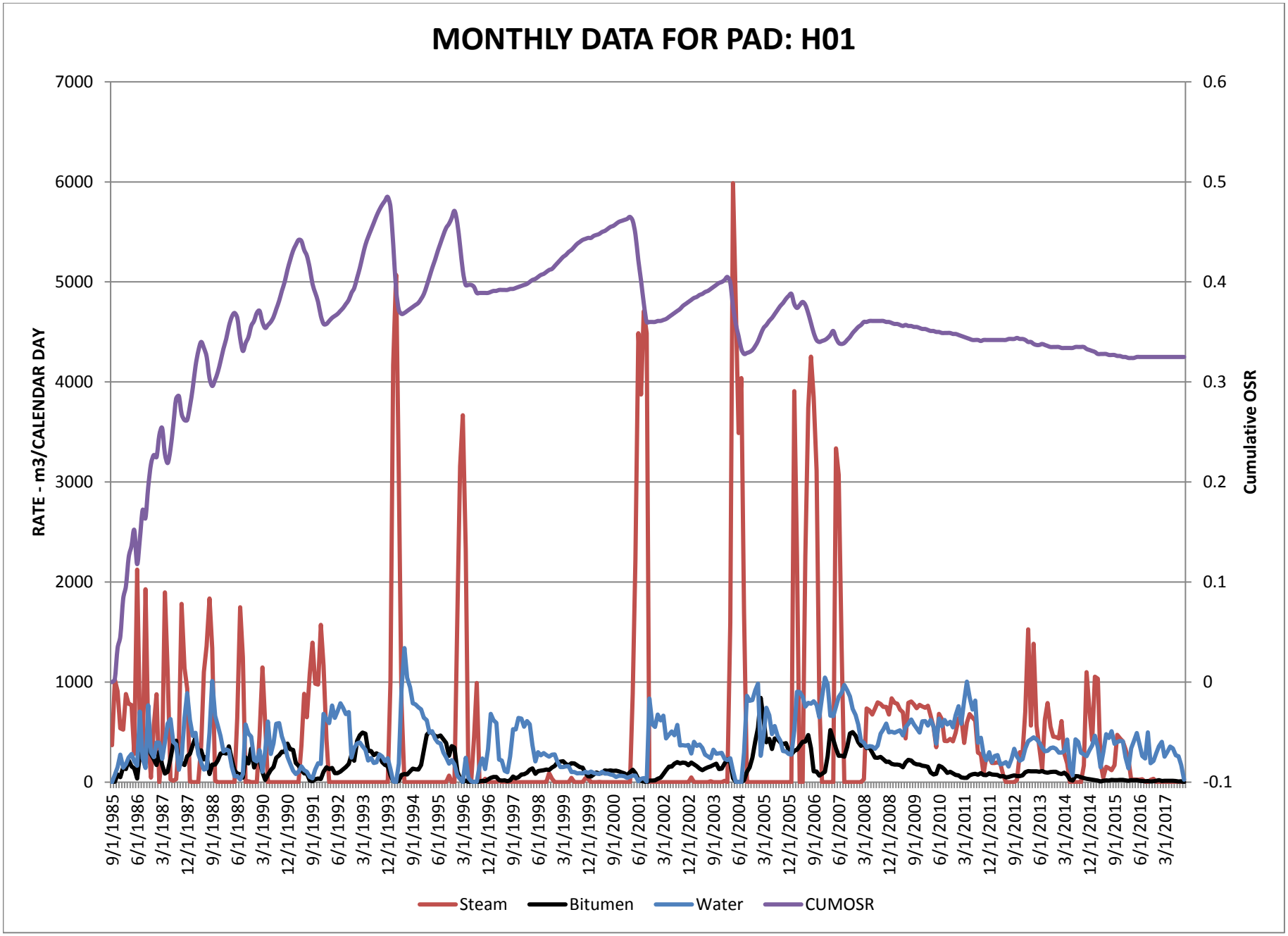
2/1/2016
7/1/2016
12/1/2016
5/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H01
RATE - m3/CALENDAR DAY
Cumulative OSR
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6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
9/1/1985
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12/1/2011
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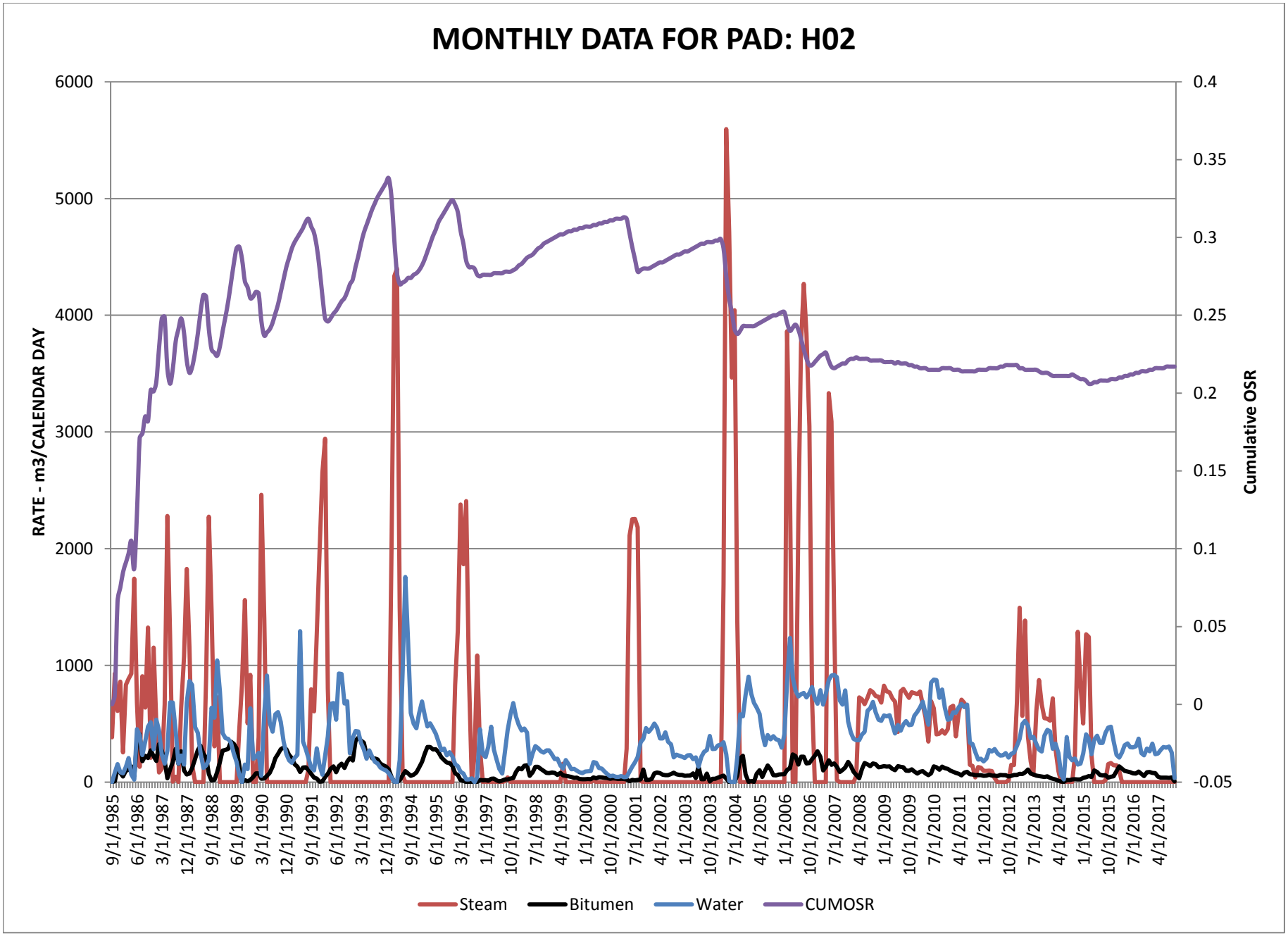
6/1/2016
3/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H02
RATE - m3/CALENDAR DAY
Cumulative OSR
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0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
9/1/1985
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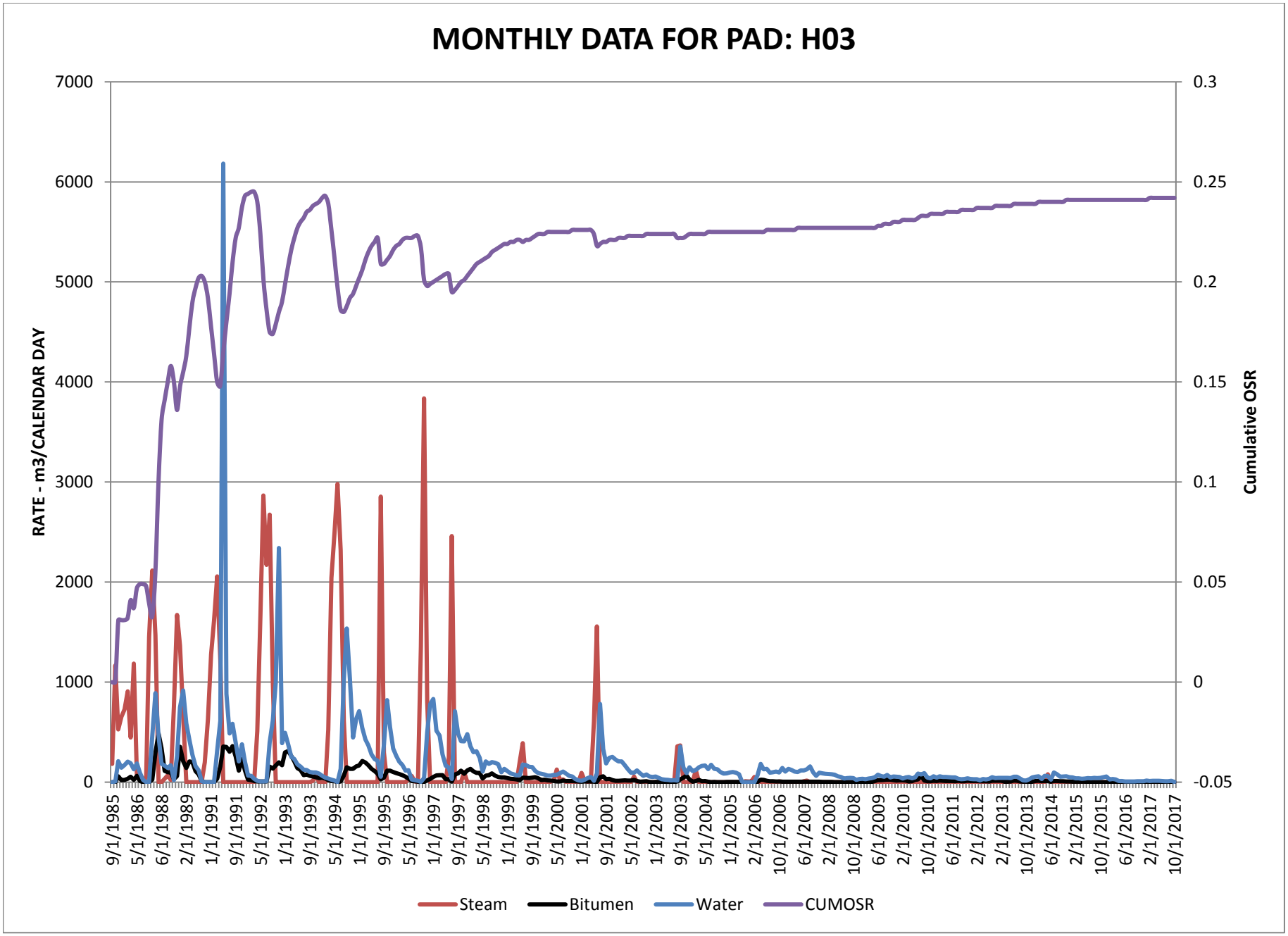
10/1/2015
7/1/2016
4/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H03
RATE - m3/CALENDAR DAY
Cumulative OSR
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6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
9/1/1985
5/1/1986
6/1/1988
2/1/1989
1/1/1991
9/1/1991
5/1/1992
1/1/1993
9/1/1993
5/1/1994
1/1/1995
9/1/1995
5/1/1996
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5/1/1998
1/1/1999
9/1/1999
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5/1/2002
1/1/2003
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5/1/2004
1/1/2005
2/1/2006
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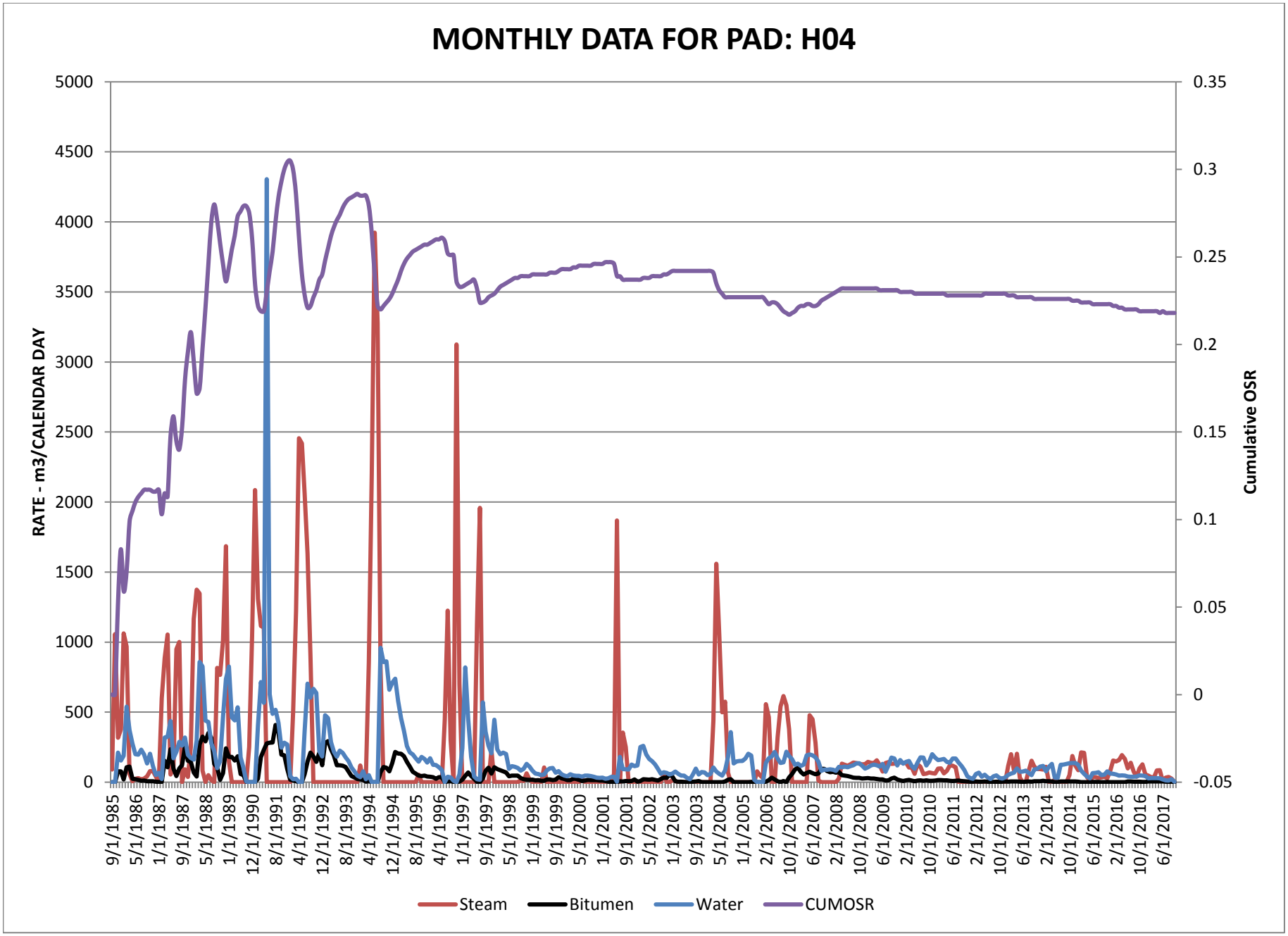
6/1/2007
2/1/2008
10/1/2008
6/1/2009
2/1/2010
10/1/2010
6/1/2011
2/1/2012
2/1/2013
10/1/2013
6/1/2014
2/1/2015
10/1/2015
6/1/2016
2/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H04
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
9/1/1985
5/1/1986
1/1/1987
9/1/1987
5/1/1988
1/1/1989
12/1/1990
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4/1/1996
1/1/1997
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5/1/2000
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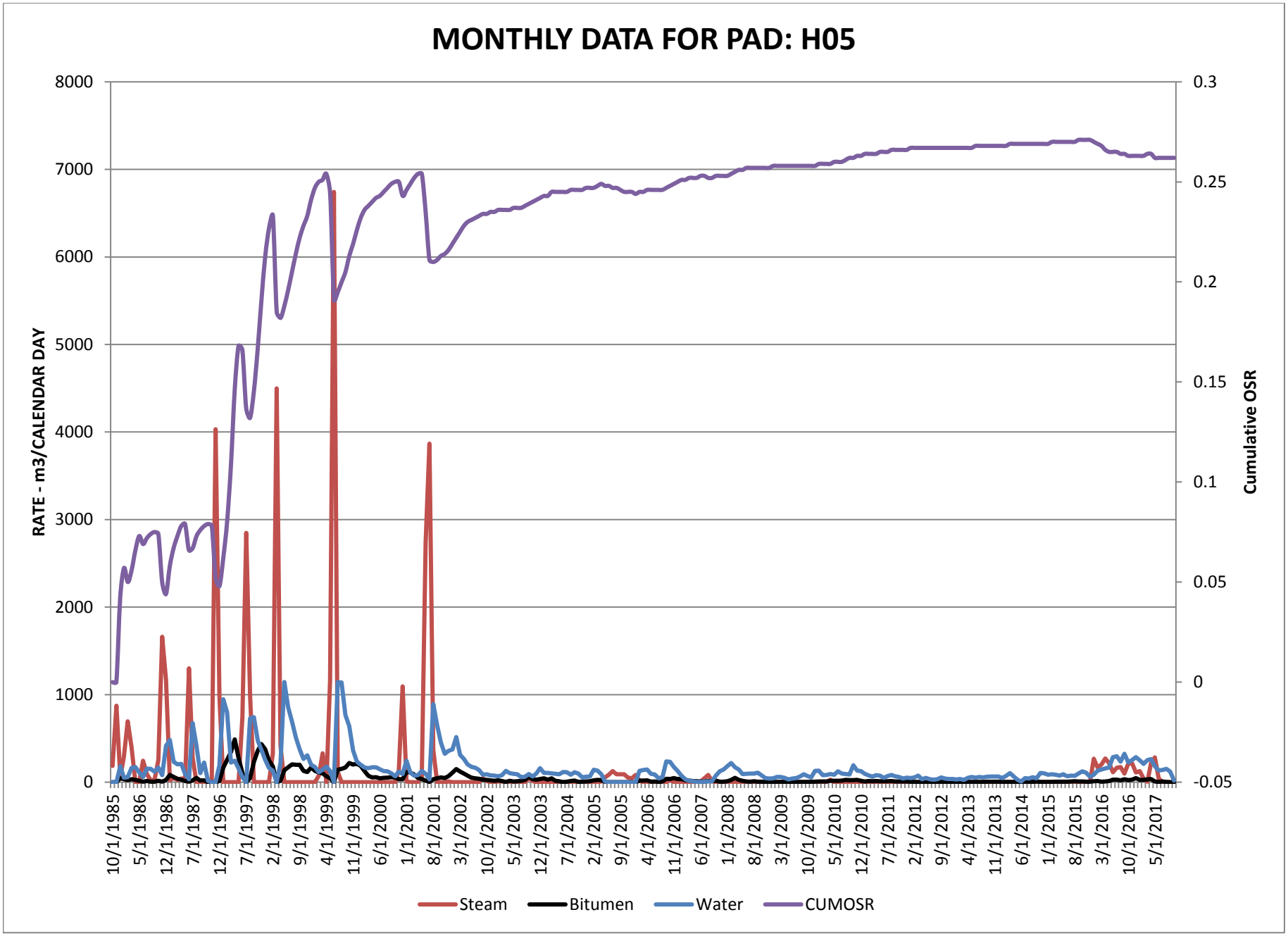
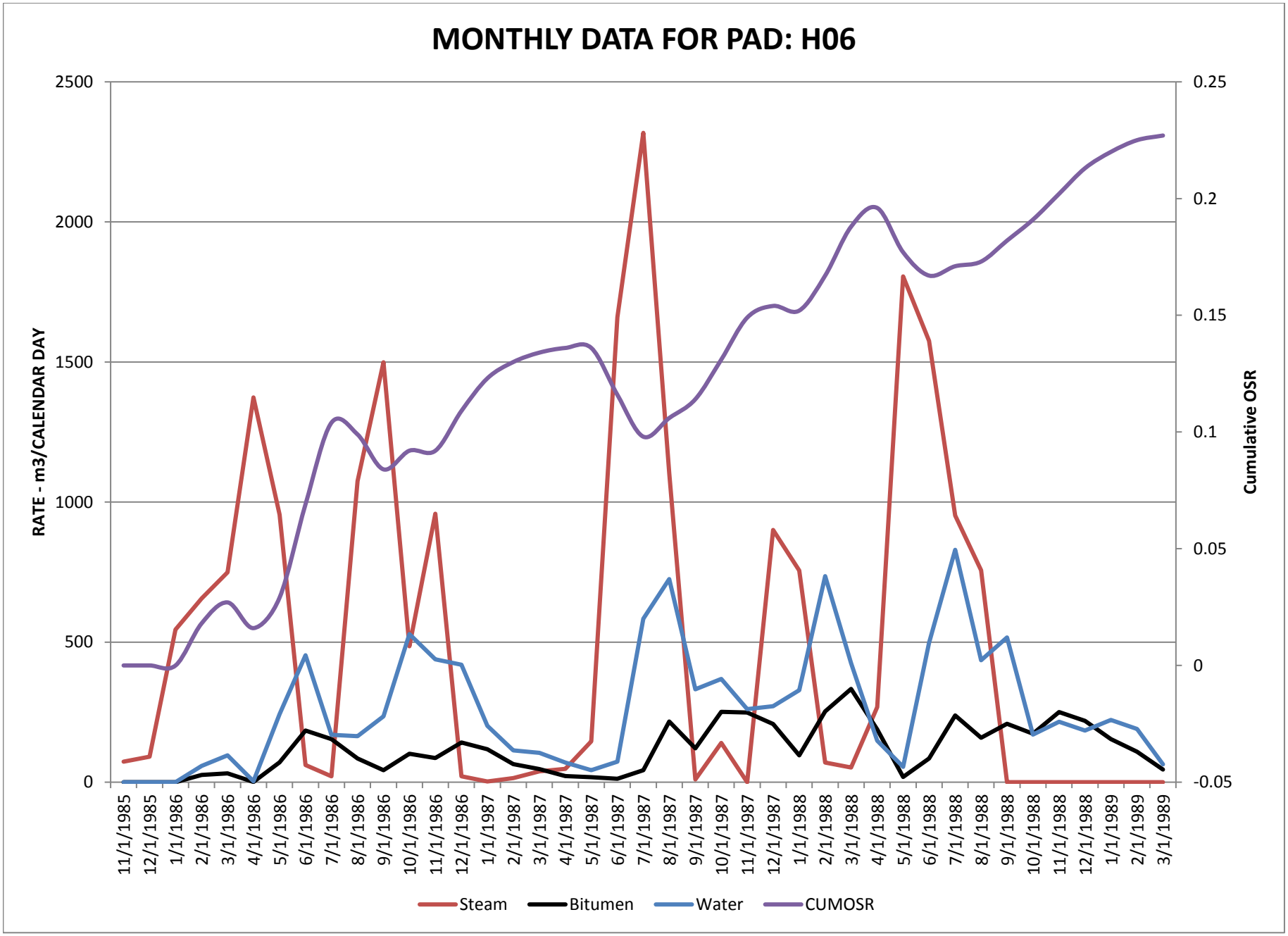
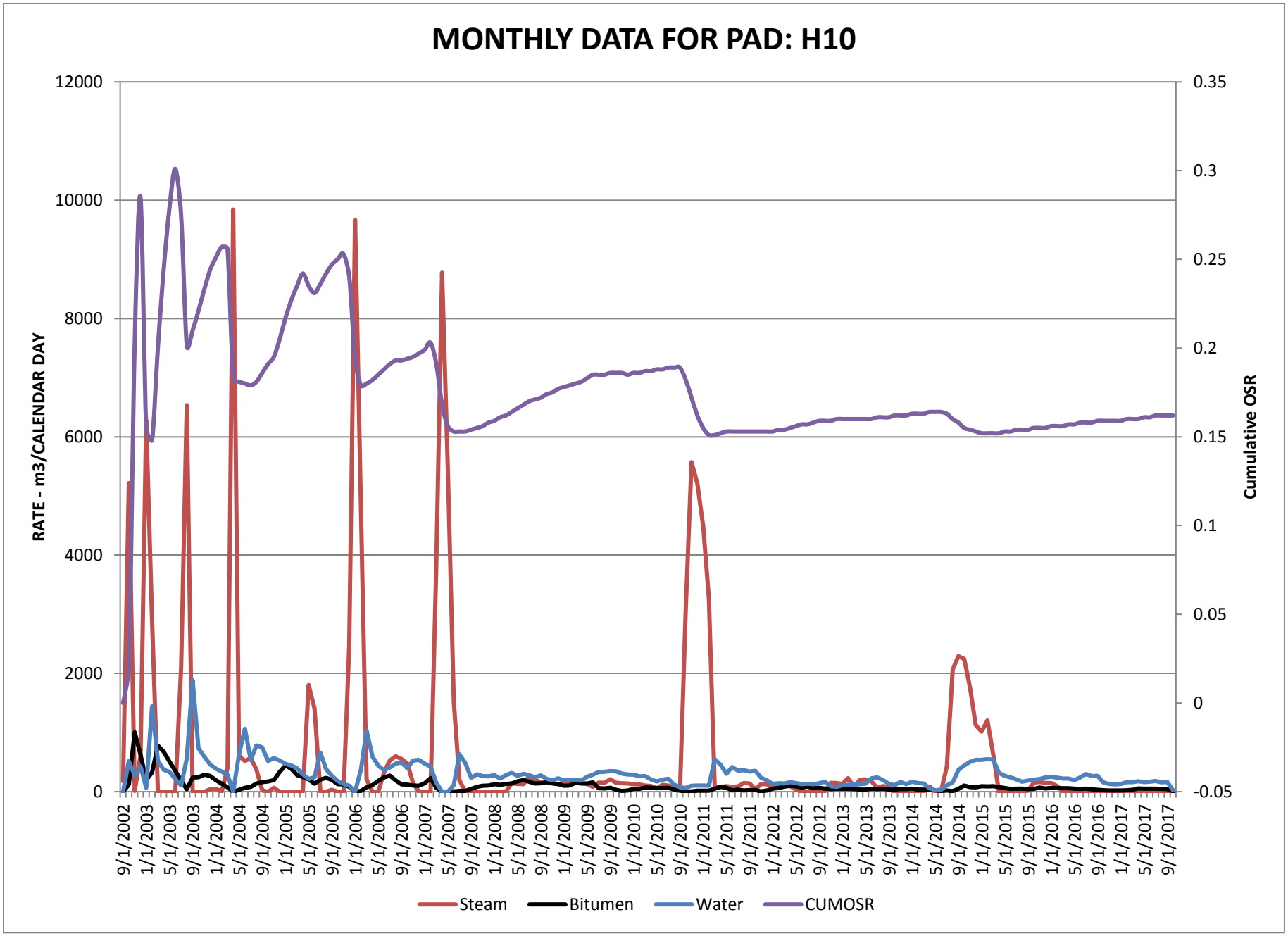
5/1/2004
1/1/2005
2/1/2006
10/1/2006
6/1/2007
2/1/2008
10/1/2008
6/1/2009
2/1/2010
10/1/2010
6/1/2011
2/1/2012
10/1/2012
6/1/2013
2/1/2014
10/1/2014
6/1/2015
2/1/2016
10/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H05
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/1985
5/1/1986
12/1/1986
7/1/1987
12/1/1996
7/1/1997
2/1/1998
9/1/1998
4/1/1999
11/1/1999
6/1/2000
1/1/2001
8/1/2001
3/1/2002
10/1/2002
5/1/2003
12/1/2003
7/1/2004
2/1/2005
9/1/2005
4/1/2006
11/1/2006
6/1/2007
1/1/2008
8/1/2008
3/1/2009
10/1/2009
5/1/2010
12/1/2010
7/1/2011
2/1/2012
9/1/2012
4/1/2013
11/1/2013
6/1/2014
1/1/2015
8/1/2015
3/1/2016
10/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H06
RATE - m3/CALENDAR DAY
Cumulative OSR
2500
2000
1500
1000
500
0
0.25
0.2
0.15
0.1
0.05
0
-0.05
11/1/1985
12/1/1985
1/1/1986
2/1/1986
3/1/1986
4/1/1986
5/1/1986
6/1/1986
7/1/1986
8/1/1986
9/1/1986
10/1/1986
11/1/1986
12/1/1986
1/1/1987
2/1/1987
3/1/1987
4/1/1987
5/1/1987
6/1/1987
7/1/1987
8/1/1987
9/1/1987
10/1/1987
11/1/1987
12/1/1987
1/1/1988
2/1/1988
3/1/1988
4/1/1988
5/1/1988
6/1/1988
7/1/1988
8/1/1988
9/1/1988
10/1/1988
11/1/1988
12/1/1988
1/1/1989
2/1/1989
3/1/1989
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H10
RATE - m3/CALENDAR DAY
Cumulative OSR
12000
10000
8000
6000
4000
2000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
9/1/2002
1/1/2003
5/1/2003
9/1/2003
1/1/2004
5/1/2004
9/1/2004
1/1/2005
5/1/2005
9/1/2005
1/1/2006
5/1/2006
9/1/2006
1/1/2007
5/1/2007
9/1/2007
1/1/2008
5/1/2008
9/1/2008
1/1/2009
5/1/2009
9/1/2009
1/1/2010
5/1/2010
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1/1/2012
5/1/2012
9/1/2012
1/1/2013
5/1/2013
9/1/2013
1/1/2014
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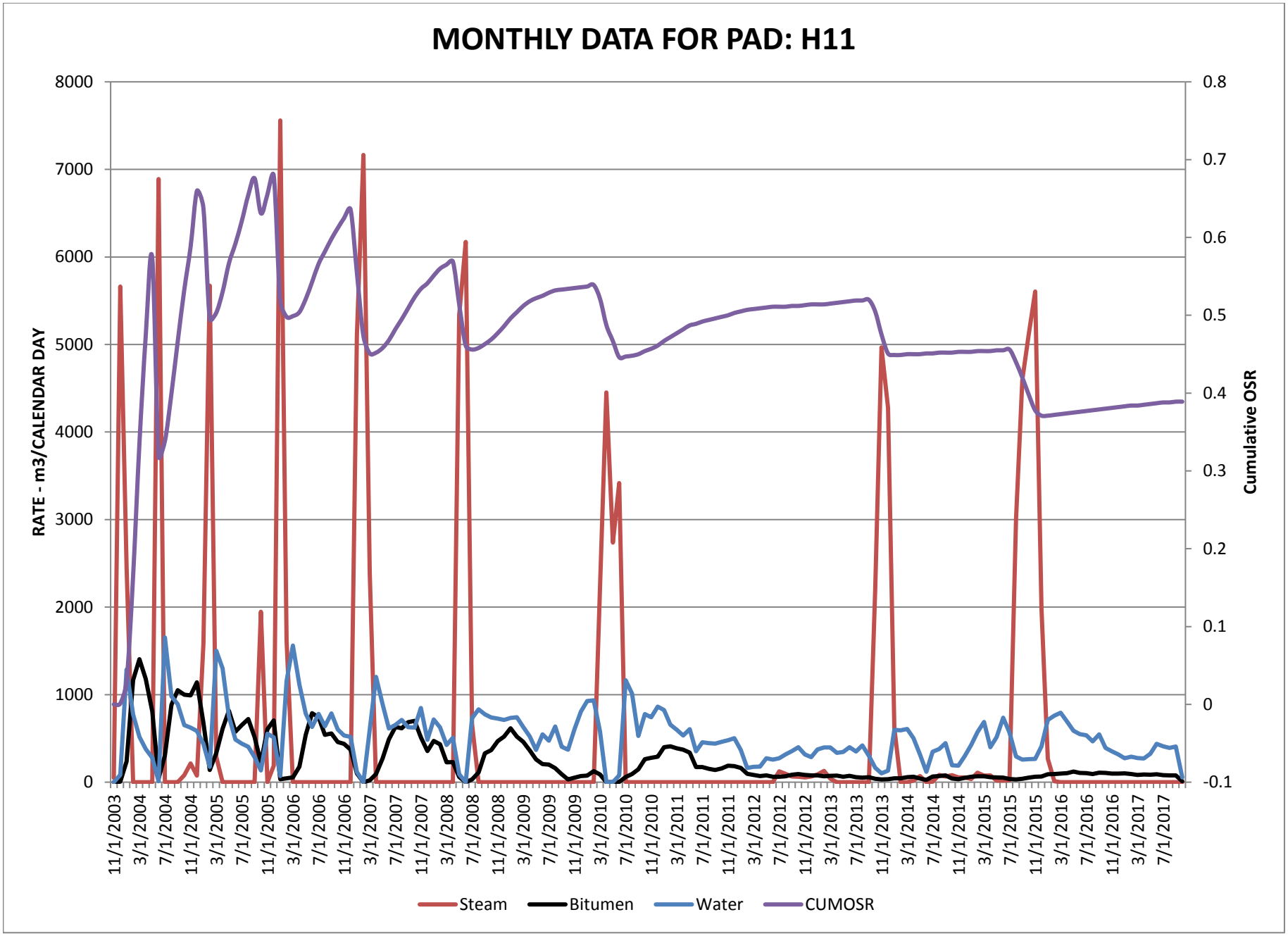
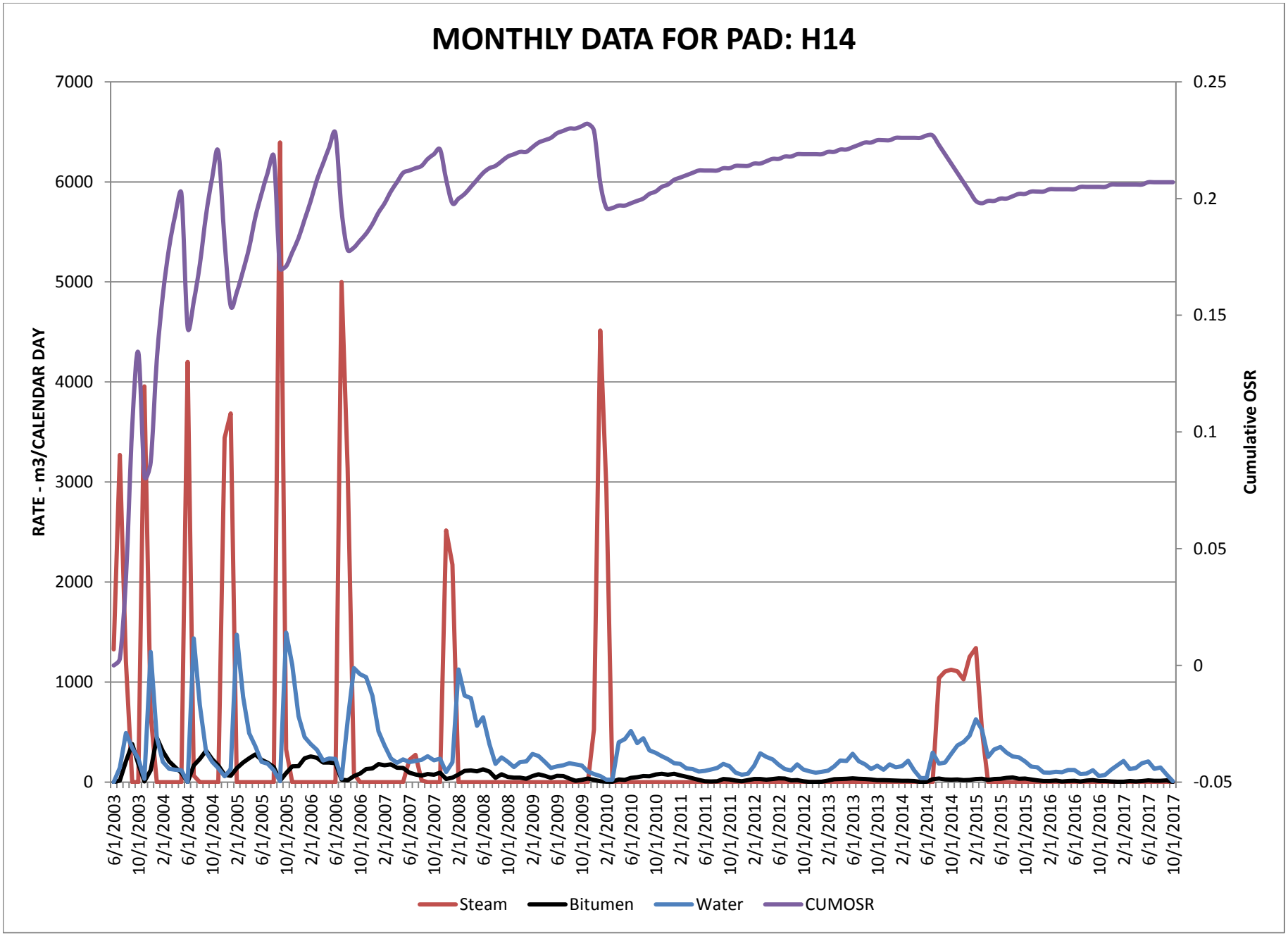
9/1/2014
1/1/2015
5/1/2015
9/1/2015
1/1/2016
5/1/2016
9/1/2016
1/1/2017
5/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H11
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
11/1/2003
3/1/2004
7/1/2004
11/1/2004
3/1/2005
7/1/2005
11/1/2005
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
3/1/2010
7/1/2010
11/1/2010
3/1/2011
7/1/2011
11/1/2011
3/1/2012
7/1/2012
11/1/2012
3/1/2013
7/1/2013
11/1/2013
3/1/2014
7/1/2014
11/1/2014
3/1/2015
7/1/2015
11/1/2015
3/1/2016
7/1/2016
11/1/2016
3/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H14
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/2003
10/1/2003
2/1/2004
6/1/2004
10/1/2004
2/1/2005
6/1/2005
10/1/2005
2/1/2006
6/1/2006
10/1/2006
2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
10/1/2008
2/1/2009
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6/1/2011
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2/1/2012
6/1/2012
10/1/2012
2/1/2013
6/1/2013
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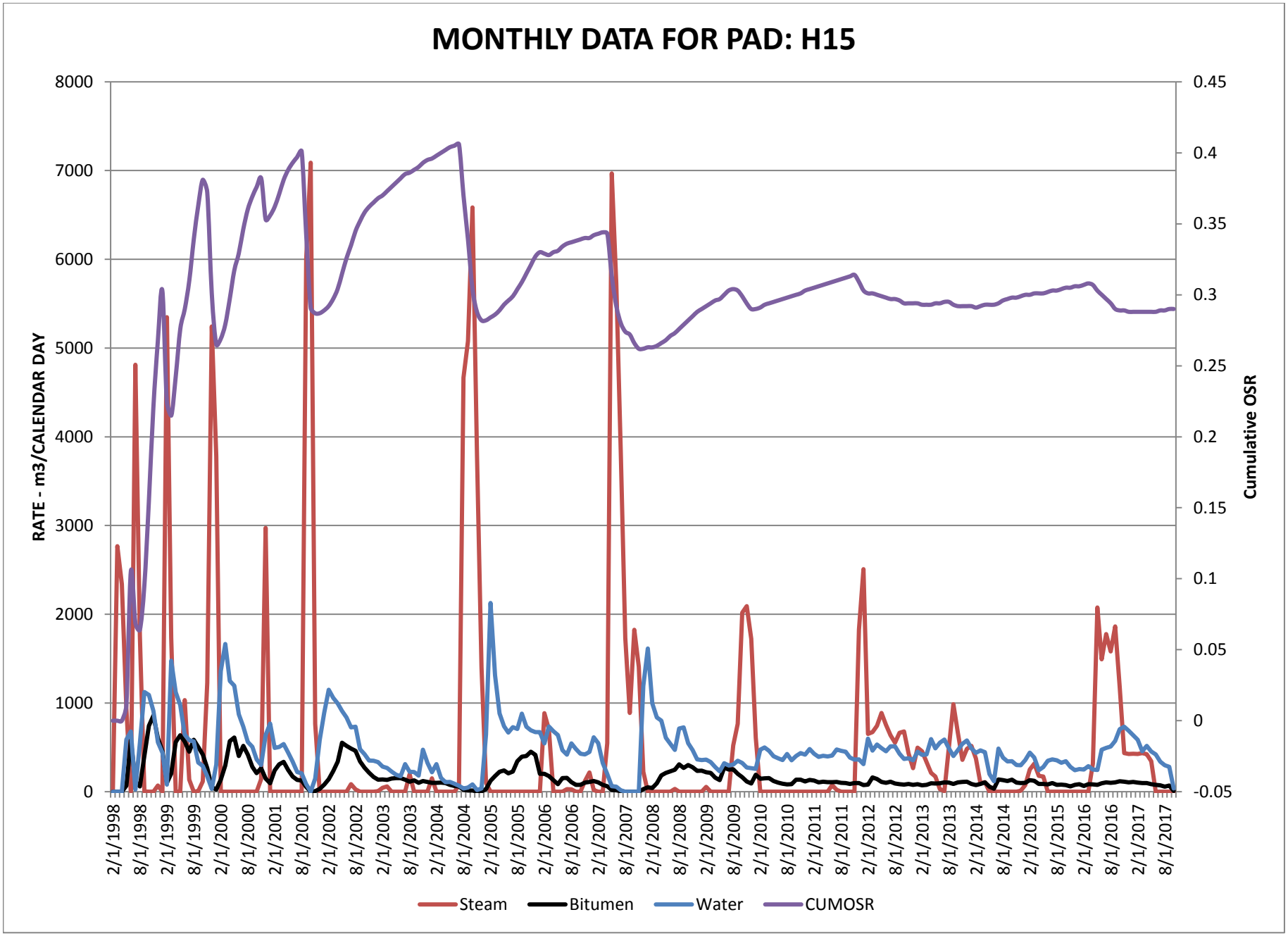
2/1/2014
6/1/2014
10/1/2014
2/1/2015
6/1/2015
10/1/2015
2/1/2016
6/1/2016
10/1/2016
2/1/2017
6/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H15
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
2/1/1998
8/1/1998
2/1/1999
8/1/1999
2/1/2000
8/1/2000
2/1/2001
8/1/2001
2/1/2002
8/1/2002
2/1/2003
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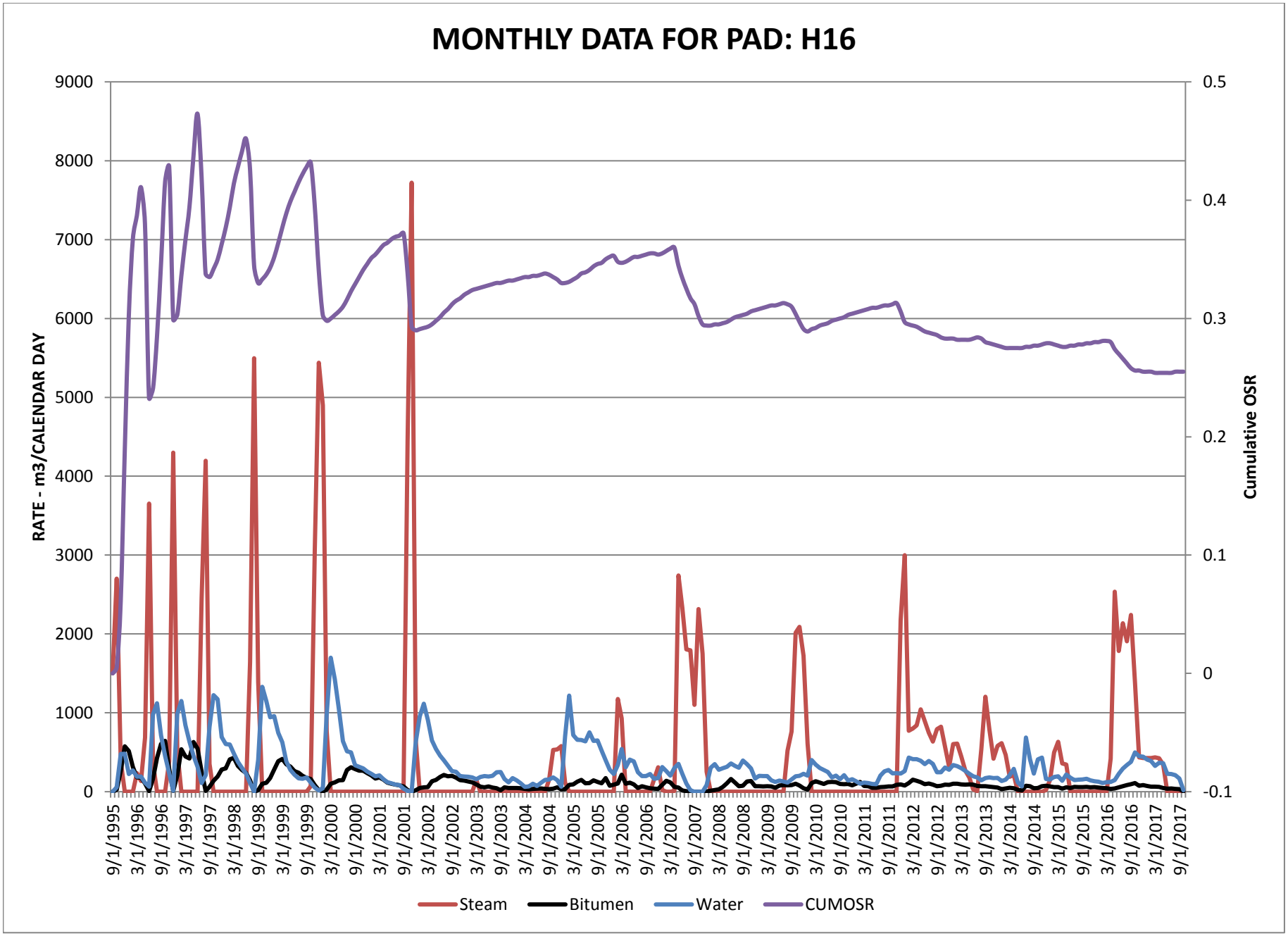
2/1/2013
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H16
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.5
0.4
0.3
0.2
0.1
0
-0.1
9/1/1995
3/1/1996
9/1/1996
3/1/1997
9/1/1997
3/1/1998
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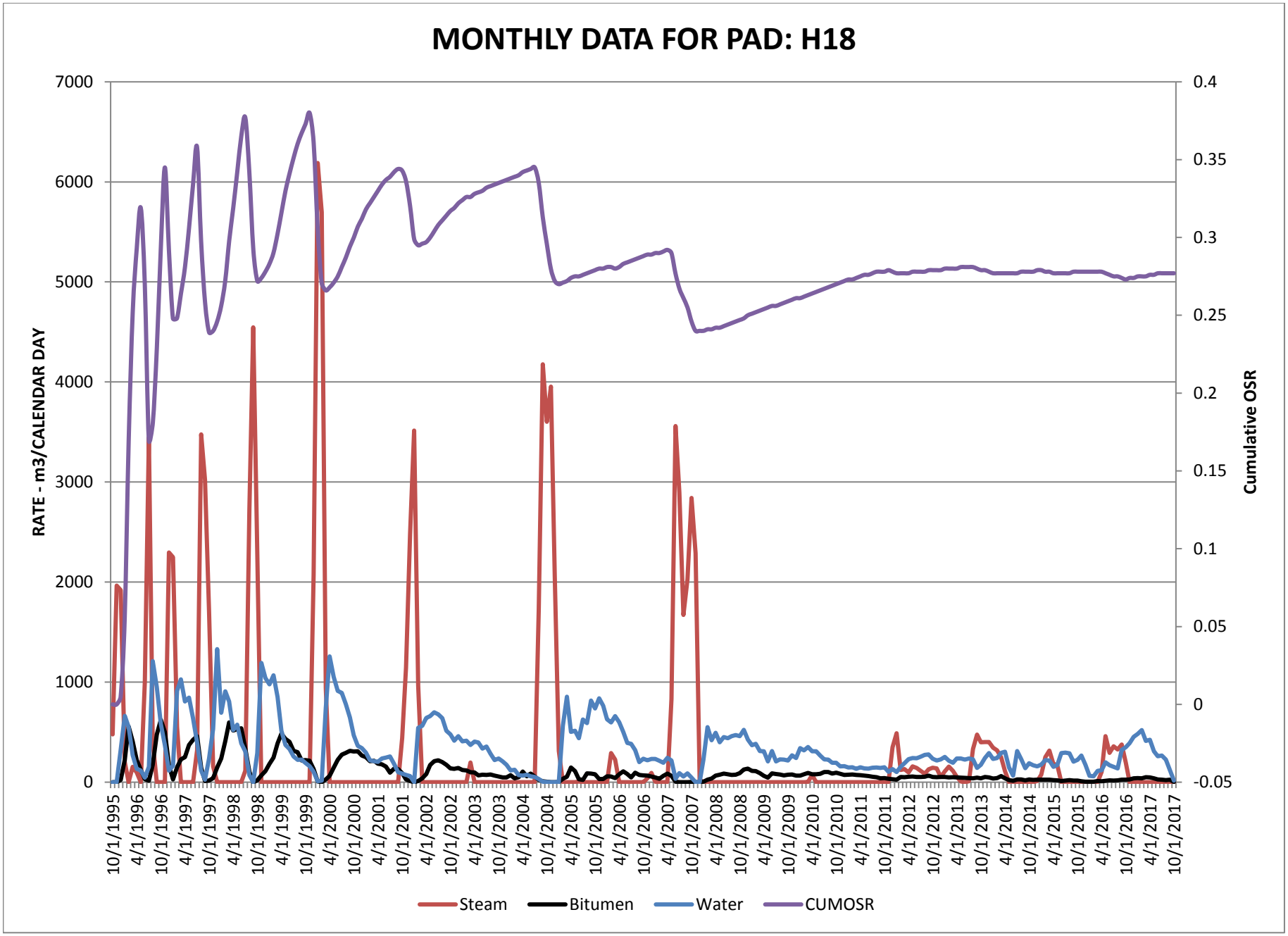
3/1/2014
9/1/2014
3/1/2015
9/1/2015
3/1/2016
9/1/2016
3/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H18
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/1995
4/1/1996
10/1/1996
4/1/1997
10/1/1997
4/1/1998
10/1/1998
4/1/1999
10/1/1999
4/1/2000
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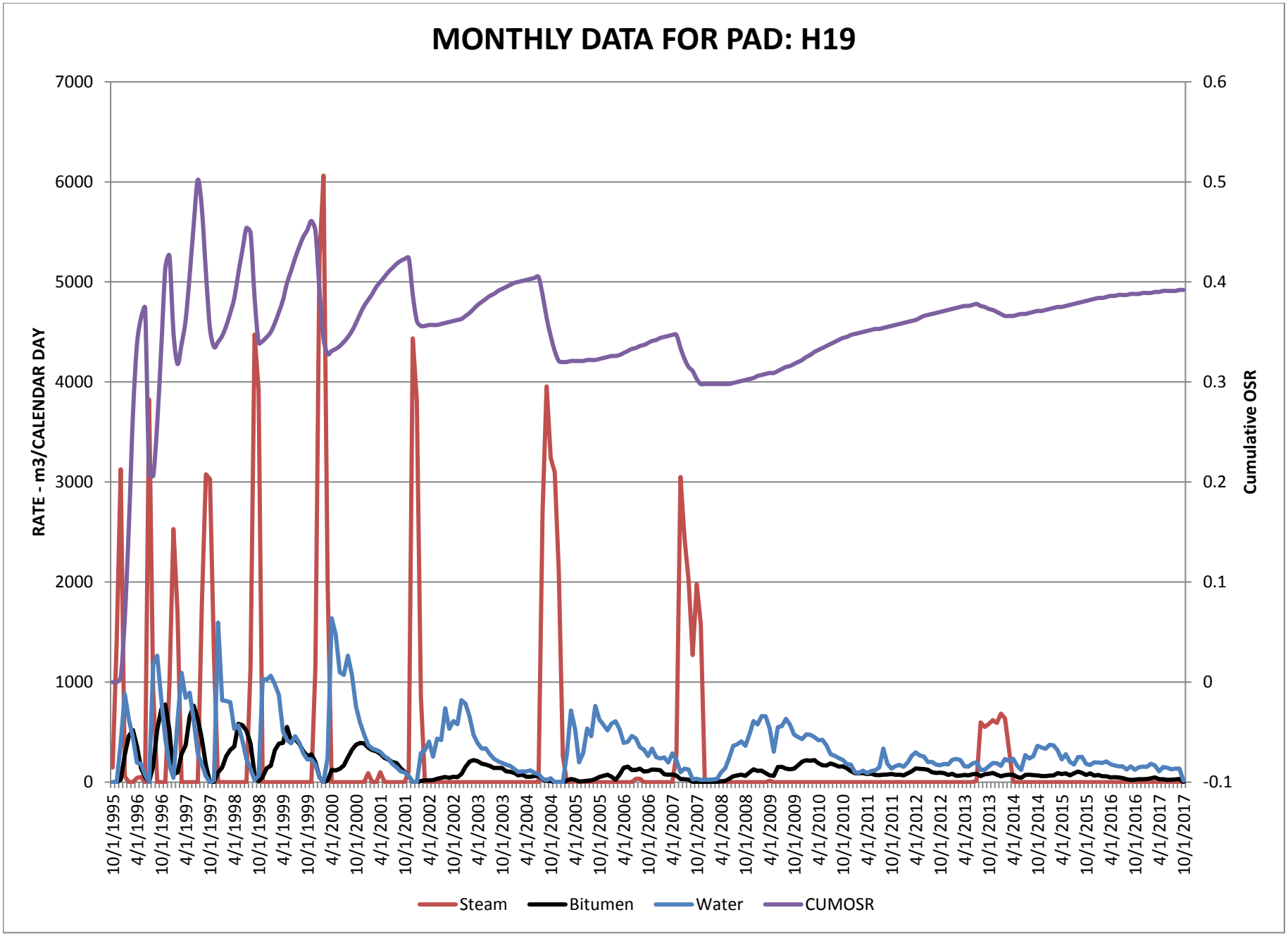
10/1/2013
4/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H19
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
10/1/1995
4/1/1996
10/1/1996
4/1/1997
10/1/1997
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10/1/1999
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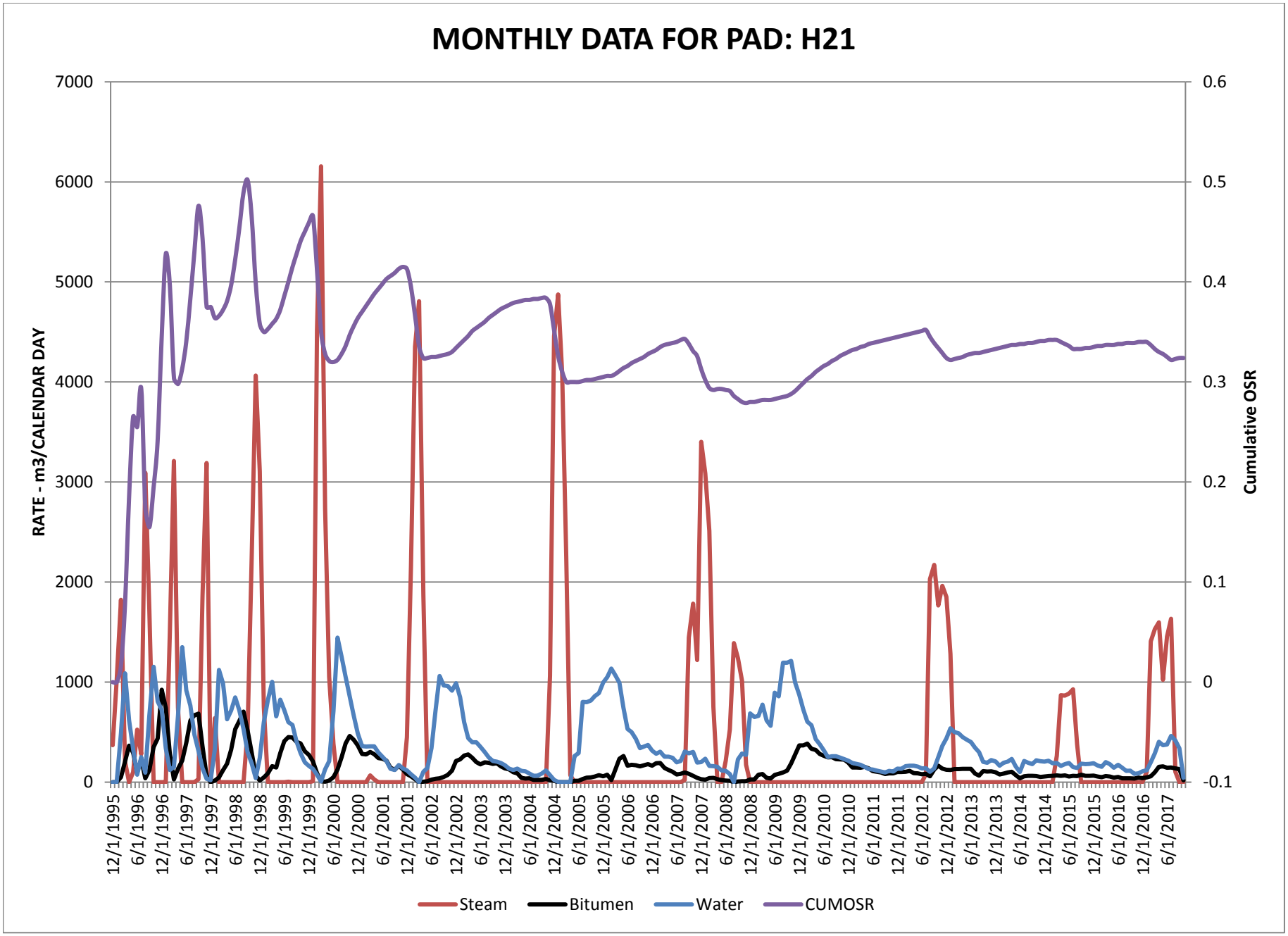
4/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H21
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
12/1/1995
6/1/1996
12/1/1996
6/1/1997
12/1/1997
6/1/1998
12/1/1998
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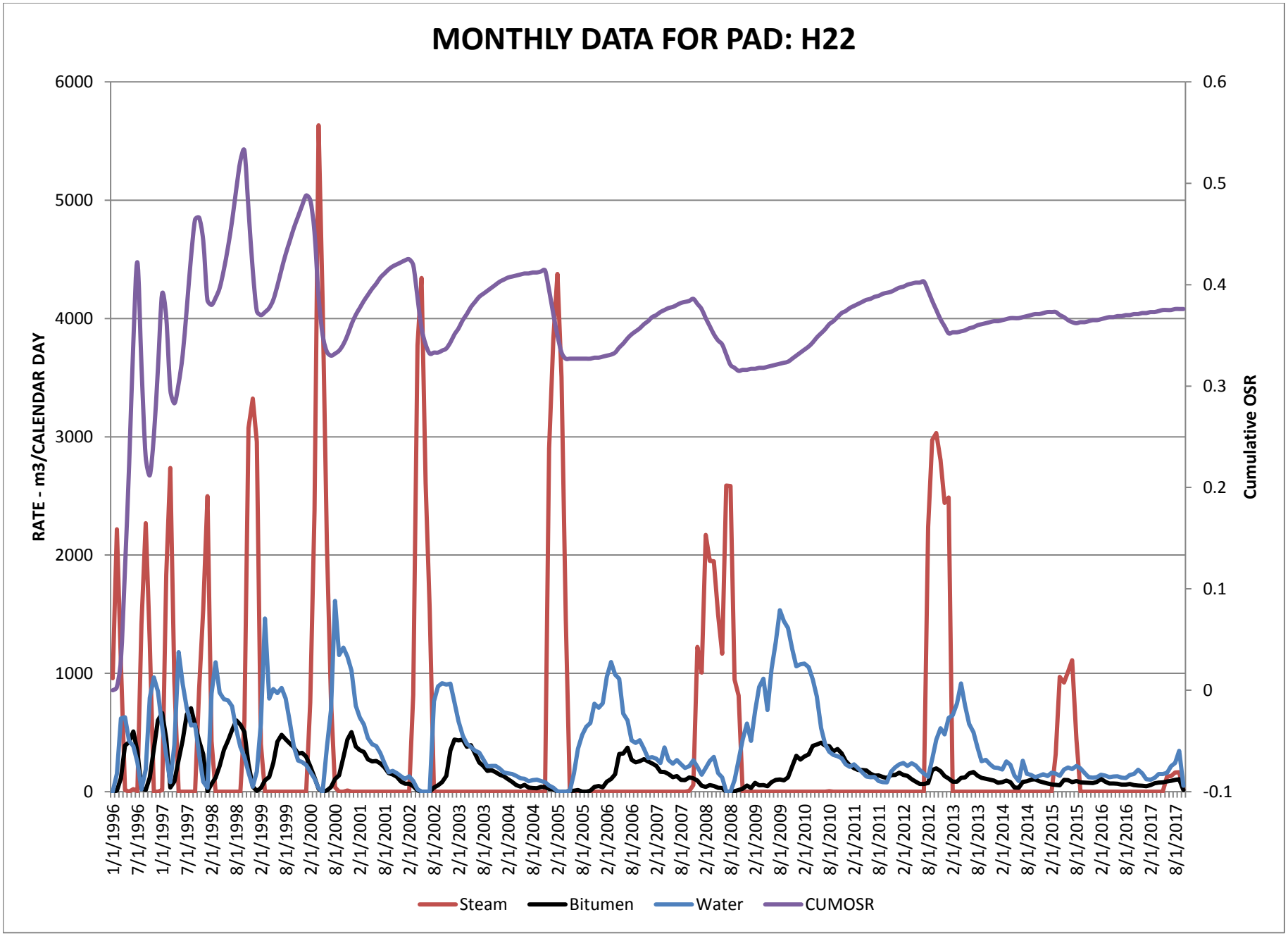
12/1/2012
6/1/2013
12/1/2013
6/1/2014
12/1/2014
6/1/2015
12/1/2015
6/1/2016
12/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H22
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
1/1/1996
7/1/1996
1/1/1997
7/1/1997
2/1/1998
8/1/1998
2/1/1999
8/1/1999
2/1/2000
8/1/2000
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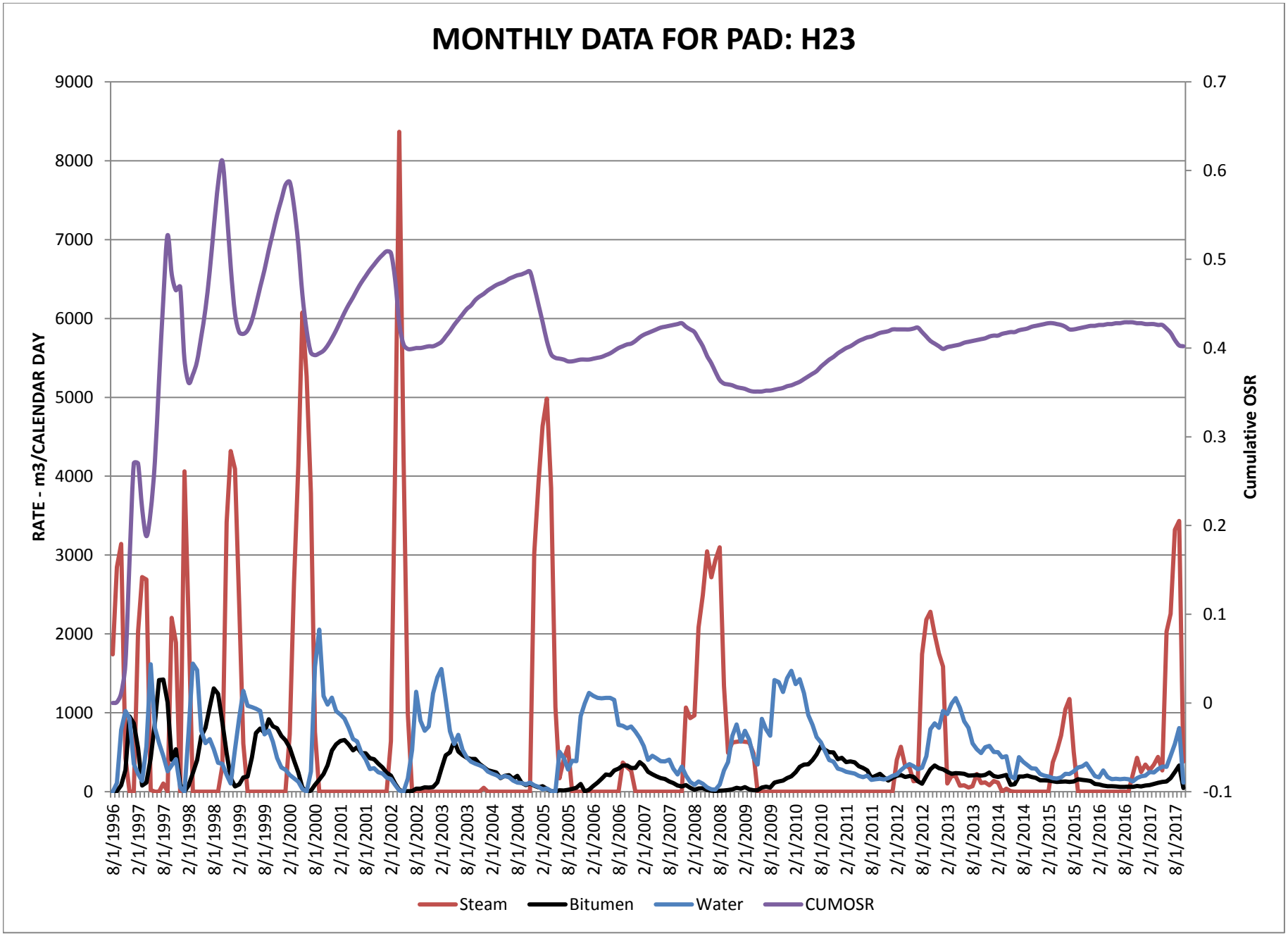
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H23
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
8/1/1996
2/1/1997
8/1/1997
2/1/1998
8/1/1998
2/1/1999
8/1/1999
2/1/2000
8/1/2000
2/1/2001
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2/1/2002
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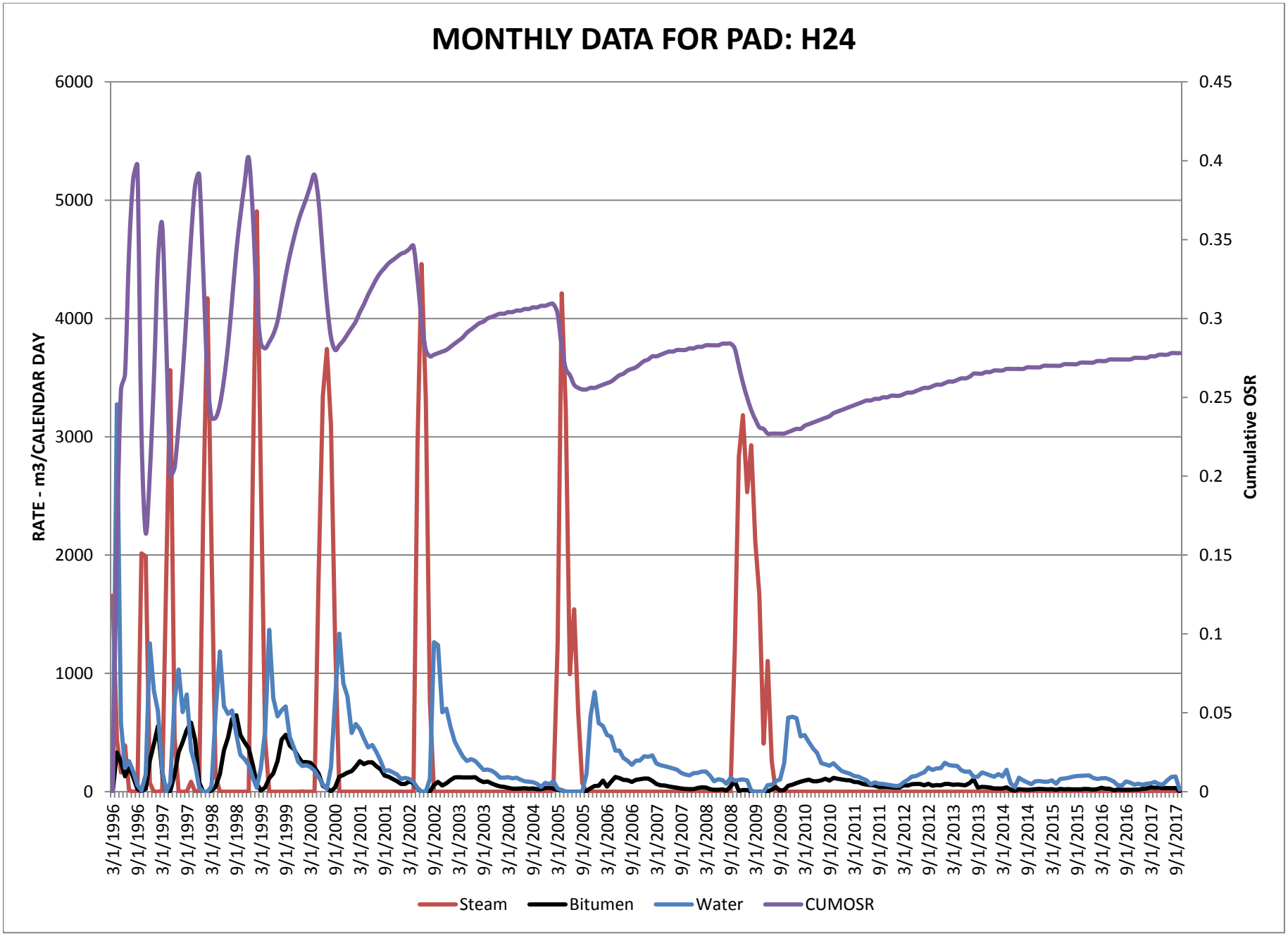
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H24
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/1996
9/1/1996
3/1/1997
9/1/1997
3/1/1998
9/1/1998
3/1/1999
9/1/1999
3/1/2000
9/1/2000
3/1/2001
9/1/2001
3/1/2002
9/1/2002
3/1/2003
9/1/2003
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3/1/2005
9/1/2005
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3/1/2009
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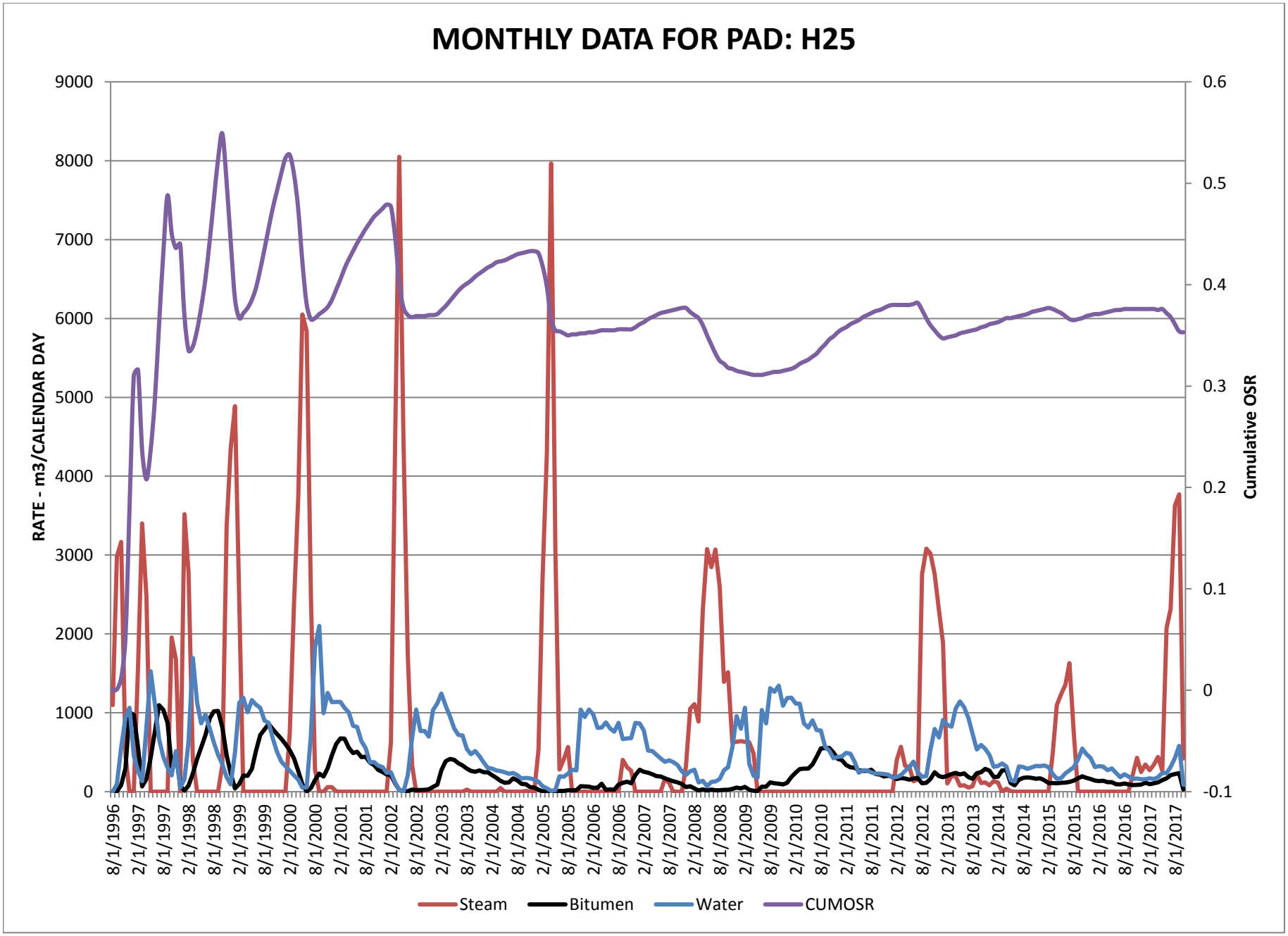
3/1/2014
9/1/2014
3/1/2015
9/1/2015
3/1/2016
9/1/2016
3/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H25
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
8/1/1996
2/1/1997
8/1/1997
2/1/1998
8/1/1998
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8/1/2007
2/1/2008
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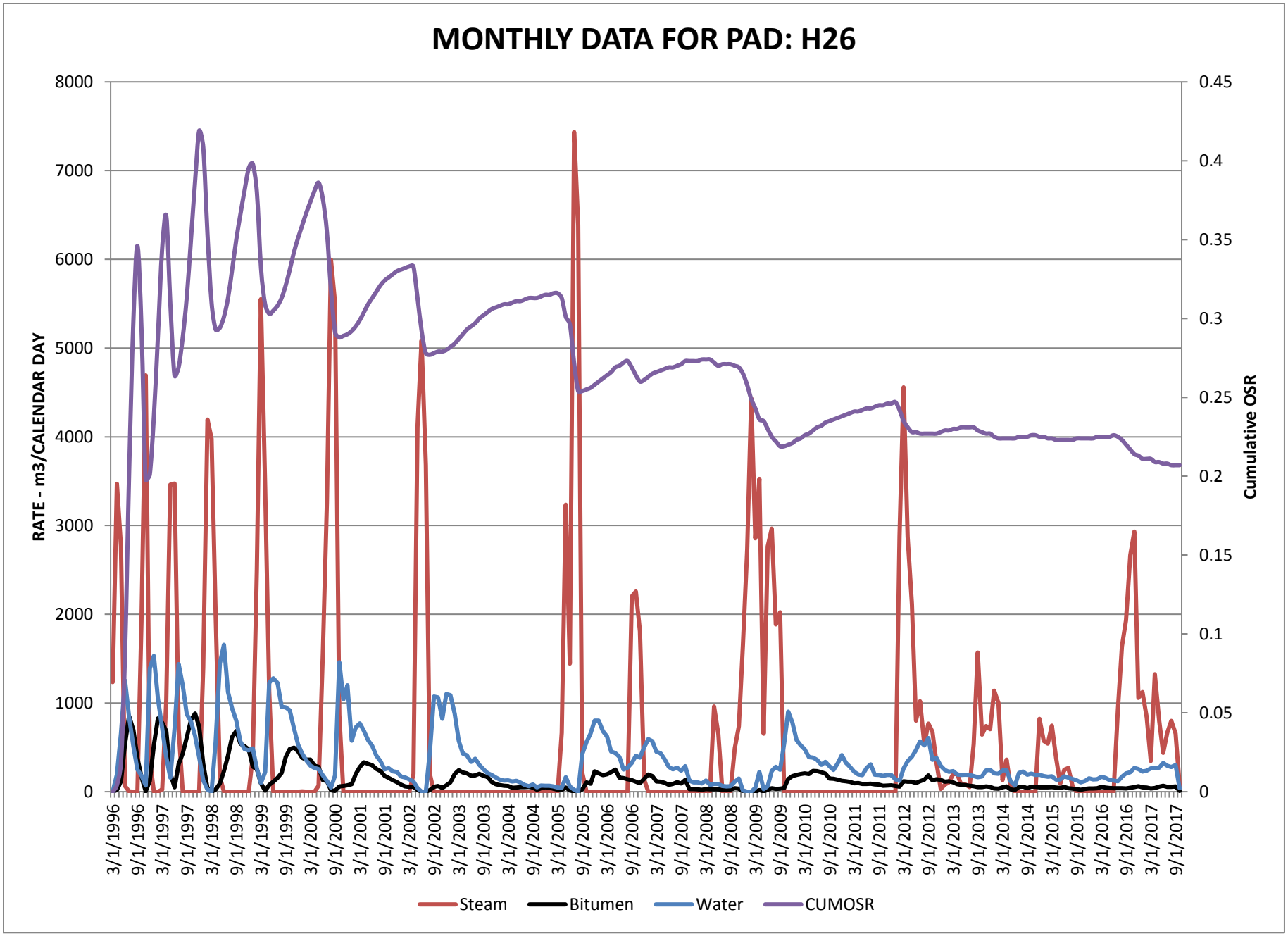
2/1/2009
8/1/2009
2/1/2010
8/1/2010
2/1/2011
8/1/2011
2/1/2012
8/1/2012
2/1/2013
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H26
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/1996
9/1/1996
3/1/1997
9/1/1997
3/1/1998
9/1/1998
3/1/1999
9/1/1999
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9/1/2002
3/1/2003
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3/1/2004
9/1/2004
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3/1/2007
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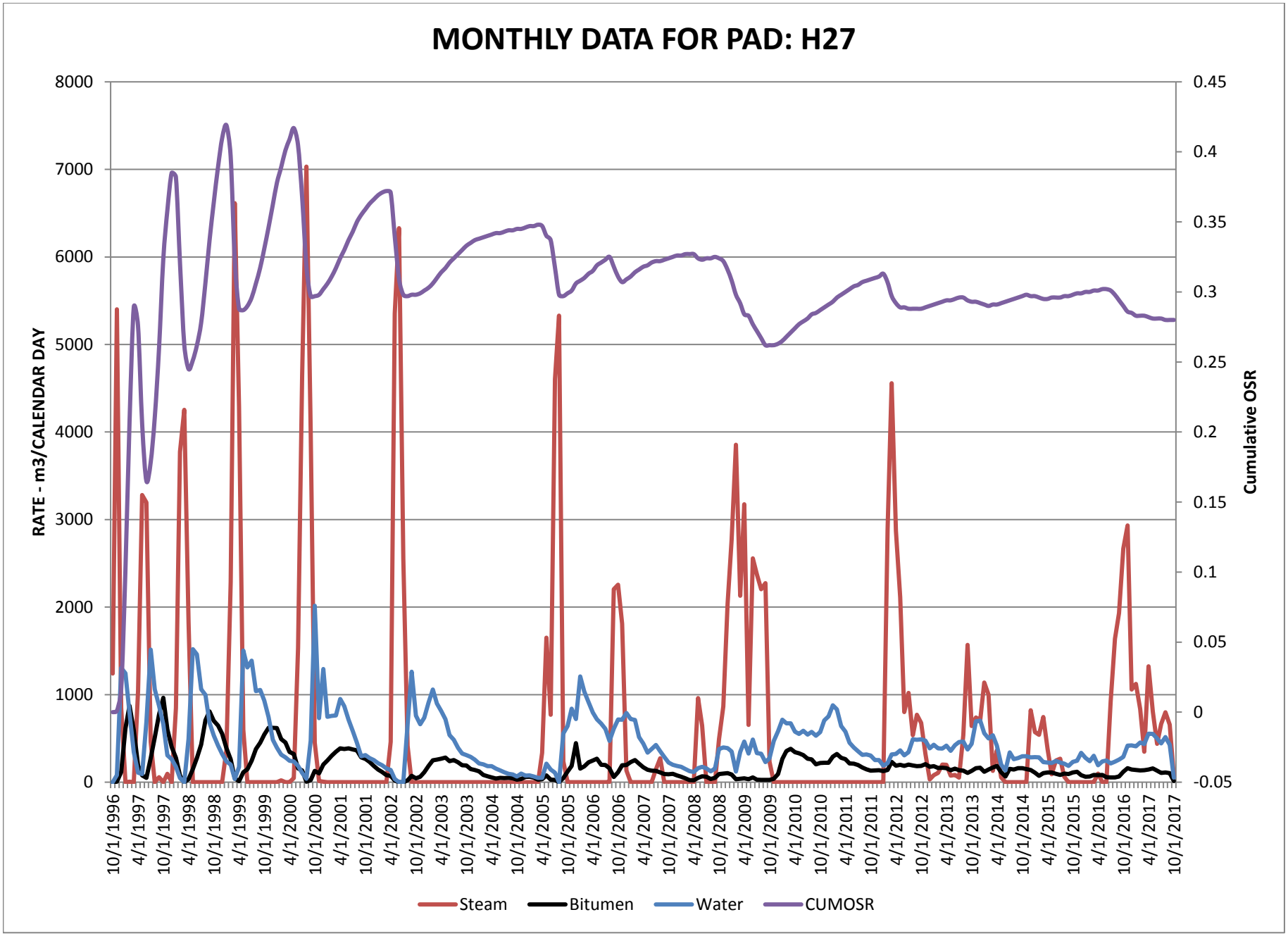
3/1/2008
9/1/2008
3/1/2009
9/1/2009
3/1/2010
9/1/2010
3/1/2011
9/1/2011
3/1/2012
9/1/2012
3/1/2013
9/1/2013
3/1/2014
9/1/2014
3/1/2015
9/1/2015
3/1/2016
9/1/2016
3/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H27
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/1996
4/1/1997
10/1/1997
4/1/1998
10/1/1998
4/1/1999
10/1/1999
4/1/2000
10/1/2000
4/1/2001
10/1/2001
4/1/2002
10/1/2002
4/1/2003
10/1/2003
4/1/2004
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4/1/2005
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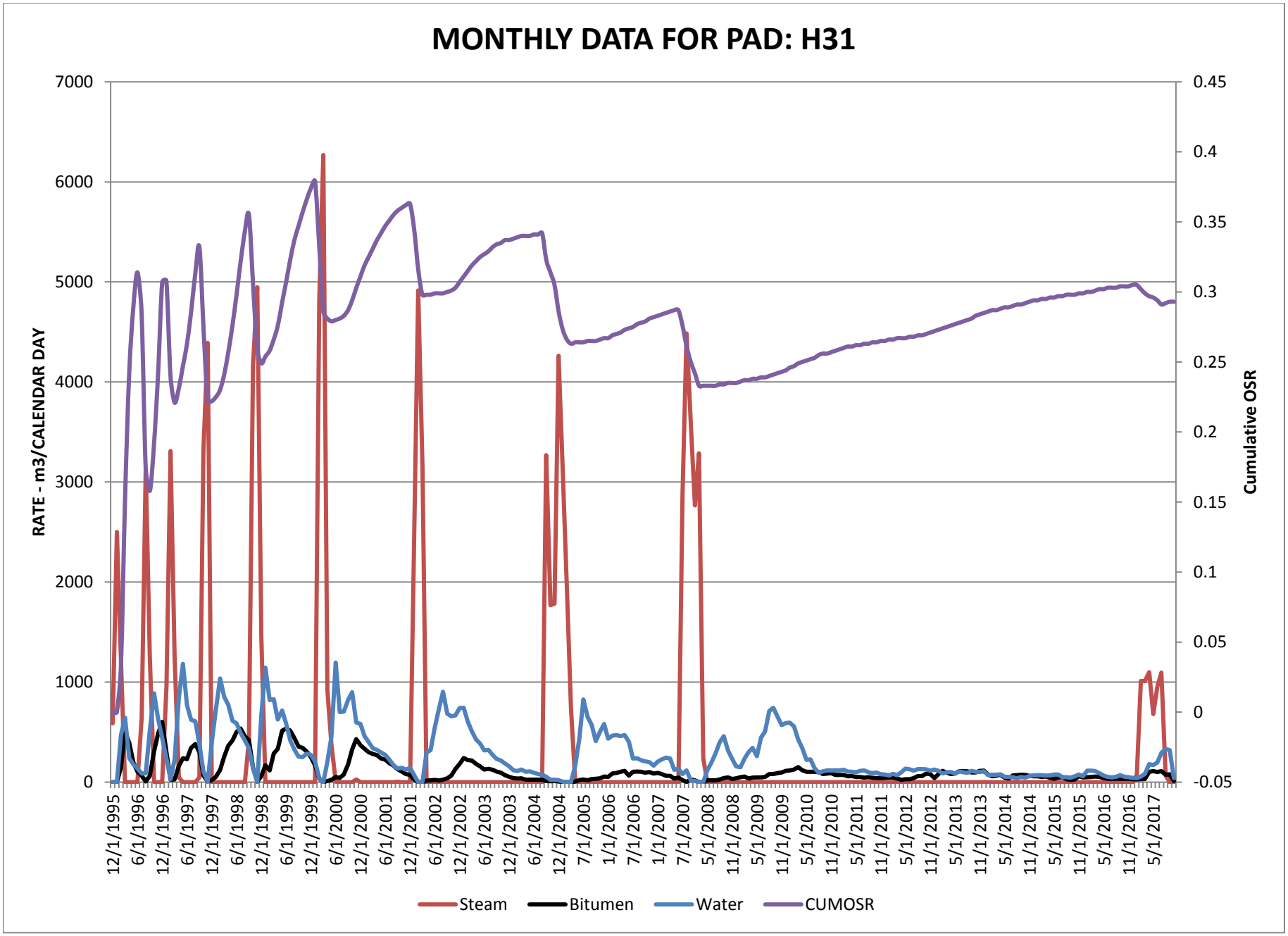
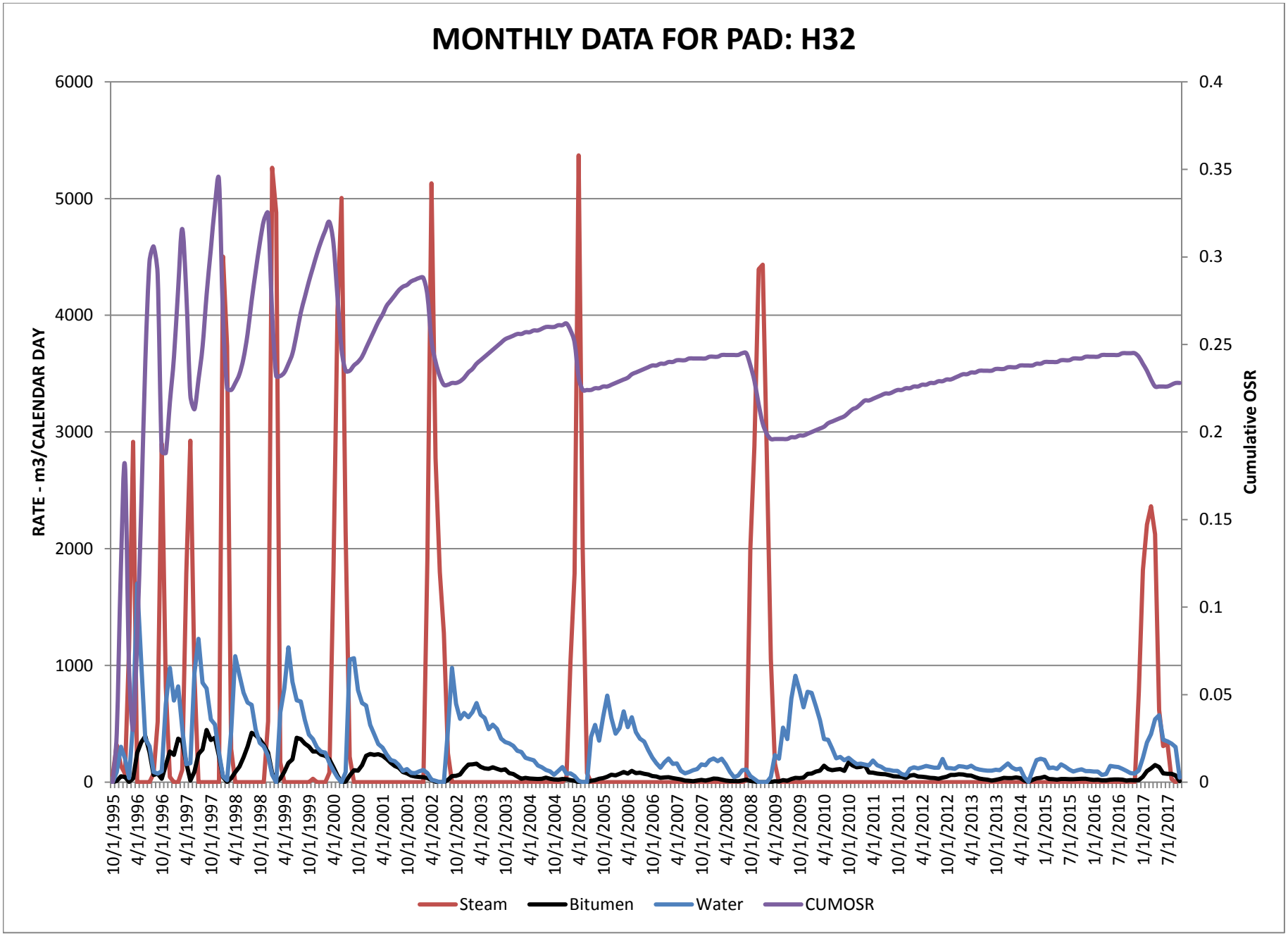
4/1/2006
10/1/2006
4/1/2007
10/1/2007
4/1/2008
10/1/2008
4/1/2009
10/1/2009
4/1/2010
10/1/2010
4/1/2011
10/1/2011
4/1/2012
10/1/2012
4/1/2013
10/1/2013
4/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H31
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
12/1/1995
6/1/1996
12/1/1996
6/1/1997
12/1/1997
6/1/1998
12/1/1998
6/1/1999
12/1/1999
6/1/2000
12/1/2000
6/1/2001
12/1/2001
6/1/2002
12/1/2002
6/1/2003
12/1/2003
6/1/2004
12/1/2004
7/1/2005
1/1/2006
7/1/2006
1/1/2007
7/1/2007
5/1/2008
11/1/2008
5/1/2009
11/1/2009
5/1/2010
11/1/2010
5/1/2011
11/1/2011
5/1/2012
11/1/2012
5/1/2013
11/1/2013
5/1/2014
11/1/2014
5/1/2015
11/1/2015
5/1/2016
11/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H32
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
10/1/1995
4/1/1996
10/1/1996
4/1/1997
10/1/1997
4/1/1998
10/1/1998
4/1/1999
10/1/1999
4/1/2000
10/1/2000
4/1/2001
10/1/2001
4/1/2002
10/1/2002
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10/1/2005
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10/1/2006
4/1/2007
10/1/2007
4/1/2008
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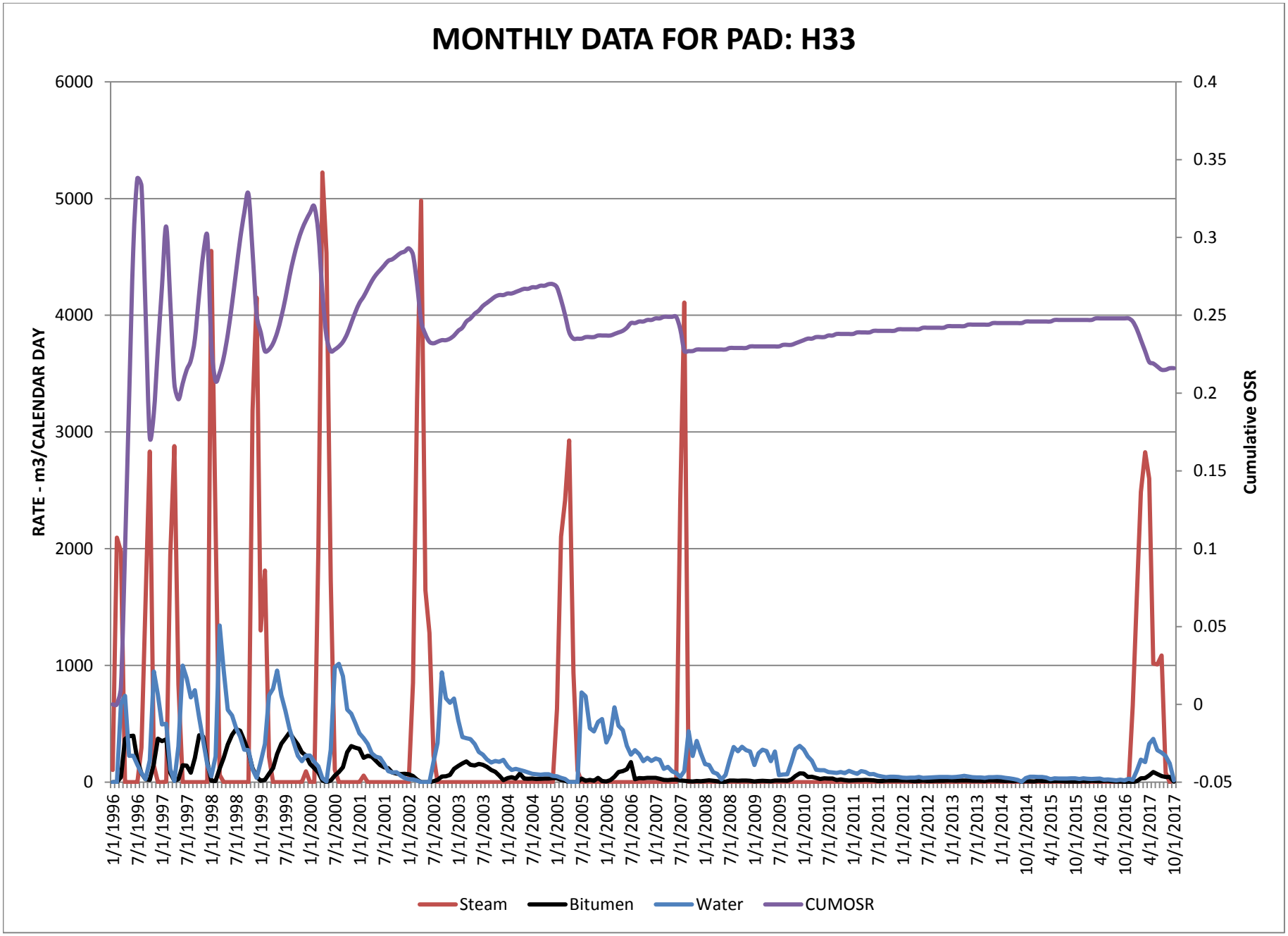
4/1/2009
10/1/2009
4/1/2010
10/1/2010
4/1/2011
10/1/2011
4/1/2012
10/1/2012
4/1/2013
10/1/2013
4/1/2014
1/1/2015
7/1/2015
1/1/2016
7/1/2016
1/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H33
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
1/1/1996
7/1/1996
1/1/1997
7/1/1997
1/1/1998
7/1/1998
1/1/1999
7/1/1999
1/1/2000
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1/1/2002
7/1/2002
1/1/2003
7/1/2003
1/1/2004
7/1/2004
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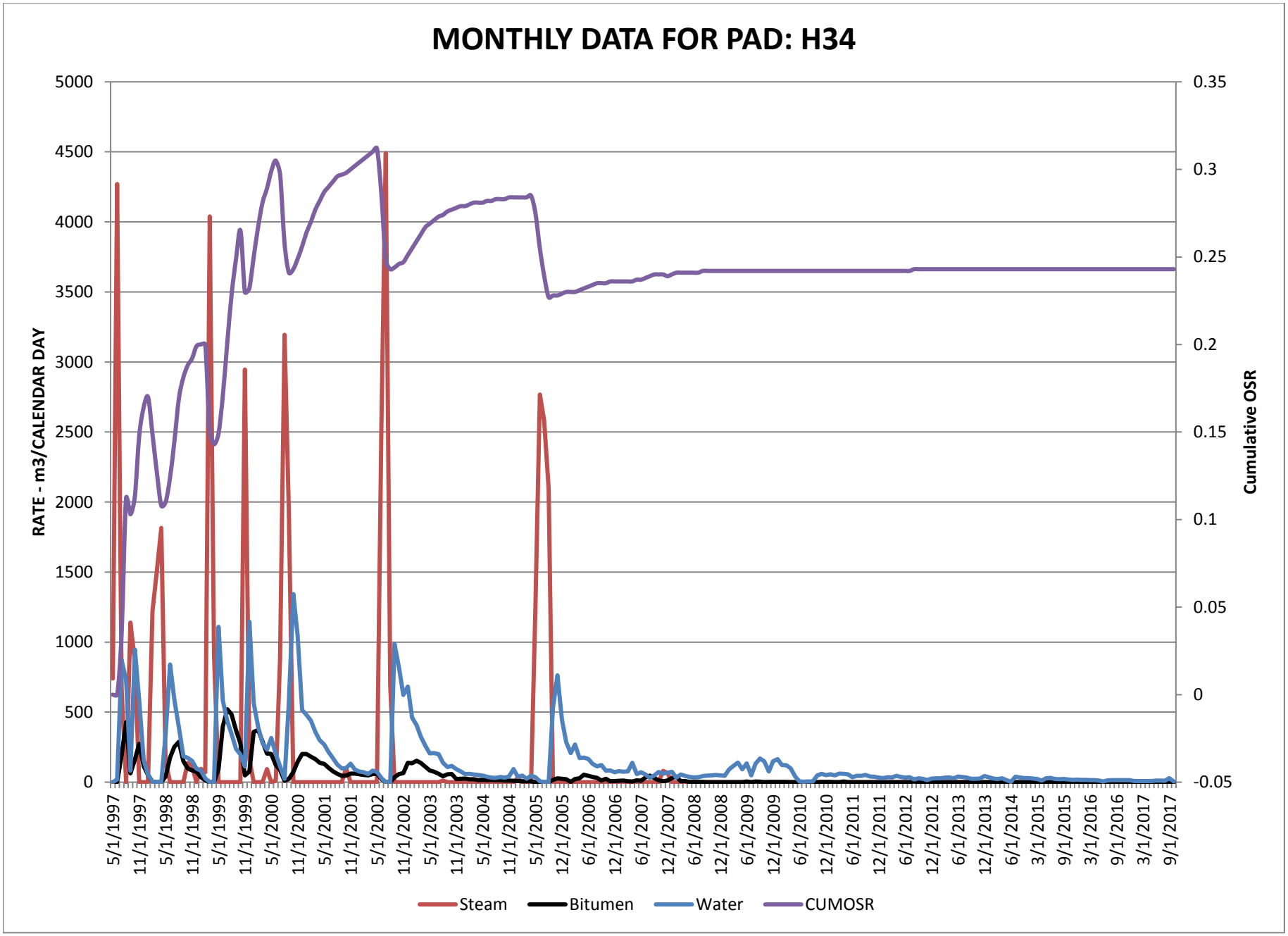
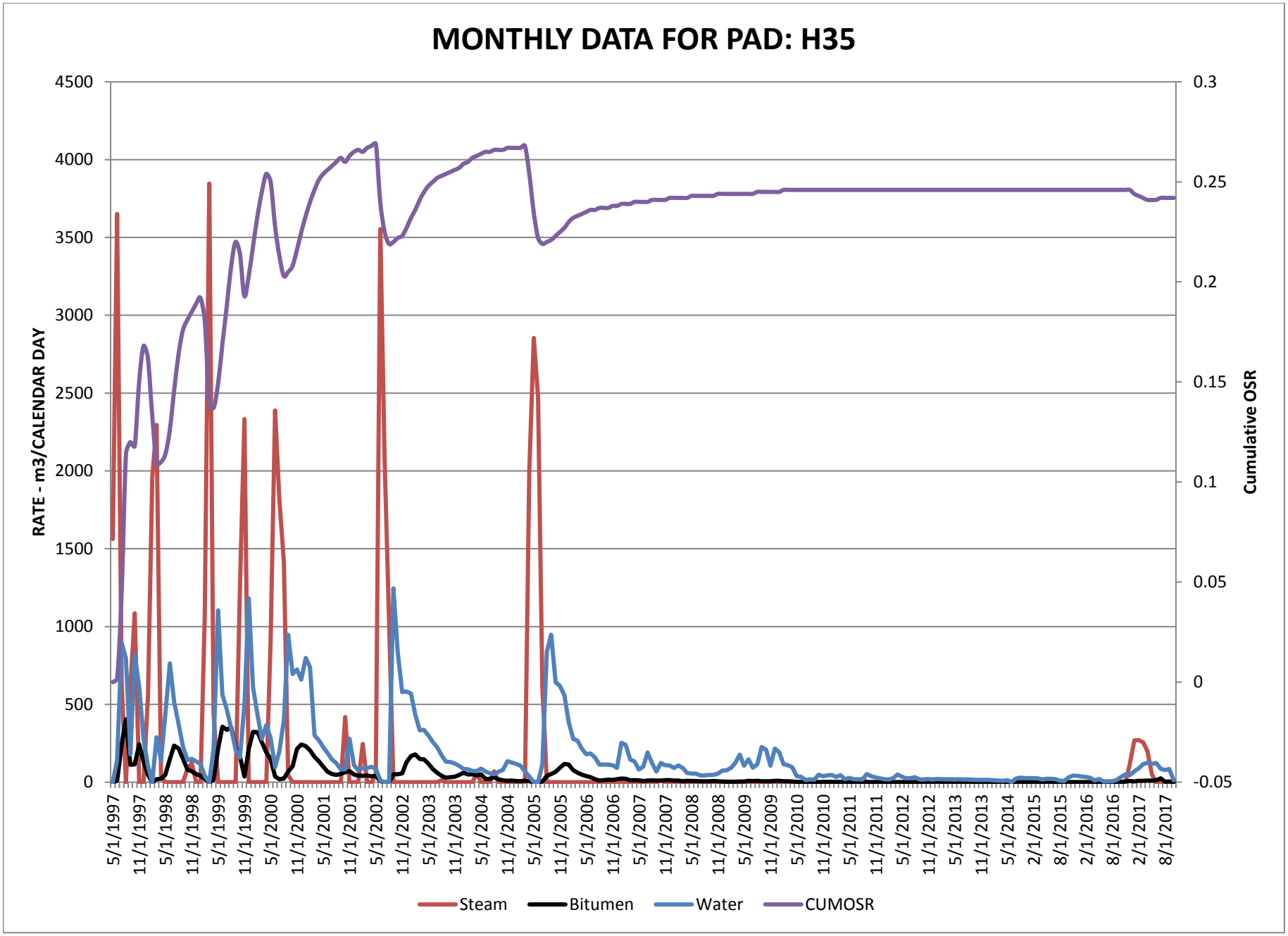
7/1/2005
1/1/2006
7/1/2006
1/1/2007
7/1/2007
1/1/2008
7/1/2008
1/1/2009
7/1/2009
1/1/2010
7/1/2010
1/1/2011
7/1/2011
1/1/2012
7/1/2012
1/1/2013
7/1/2013
1/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H34
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1997
11/1/1997
5/1/1998
11/1/1998
5/1/1999
11/1/1999
5/1/2000
11/1/2000
5/1/2001
11/1/2001
5/1/2002
11/1/2002
5/1/2003
11/1/2003
5/1/2004
11/1/2004
5/1/2005
12/1/2005
6/1/2006
12/1/2006
6/1/2007
12/1/2007
6/1/2008
12/1/2008
6/1/2009
12/1/2009
6/1/2010
12/1/2010
6/1/2011
12/1/2011
6/1/2012
12/1/2012
6/1/2013
12/1/2013
6/1/2014
3/1/2015
9/1/2015
3/1/2016
9/1/2016
3/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H35
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1997
11/1/1997
5/1/1998
11/1/1998
5/1/1999
11/1/1999
5/1/2000
11/1/2000
5/1/2001
11/1/2001
5/1/2002
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11/1/2003
5/1/2004
11/1/2004
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5/1/2008
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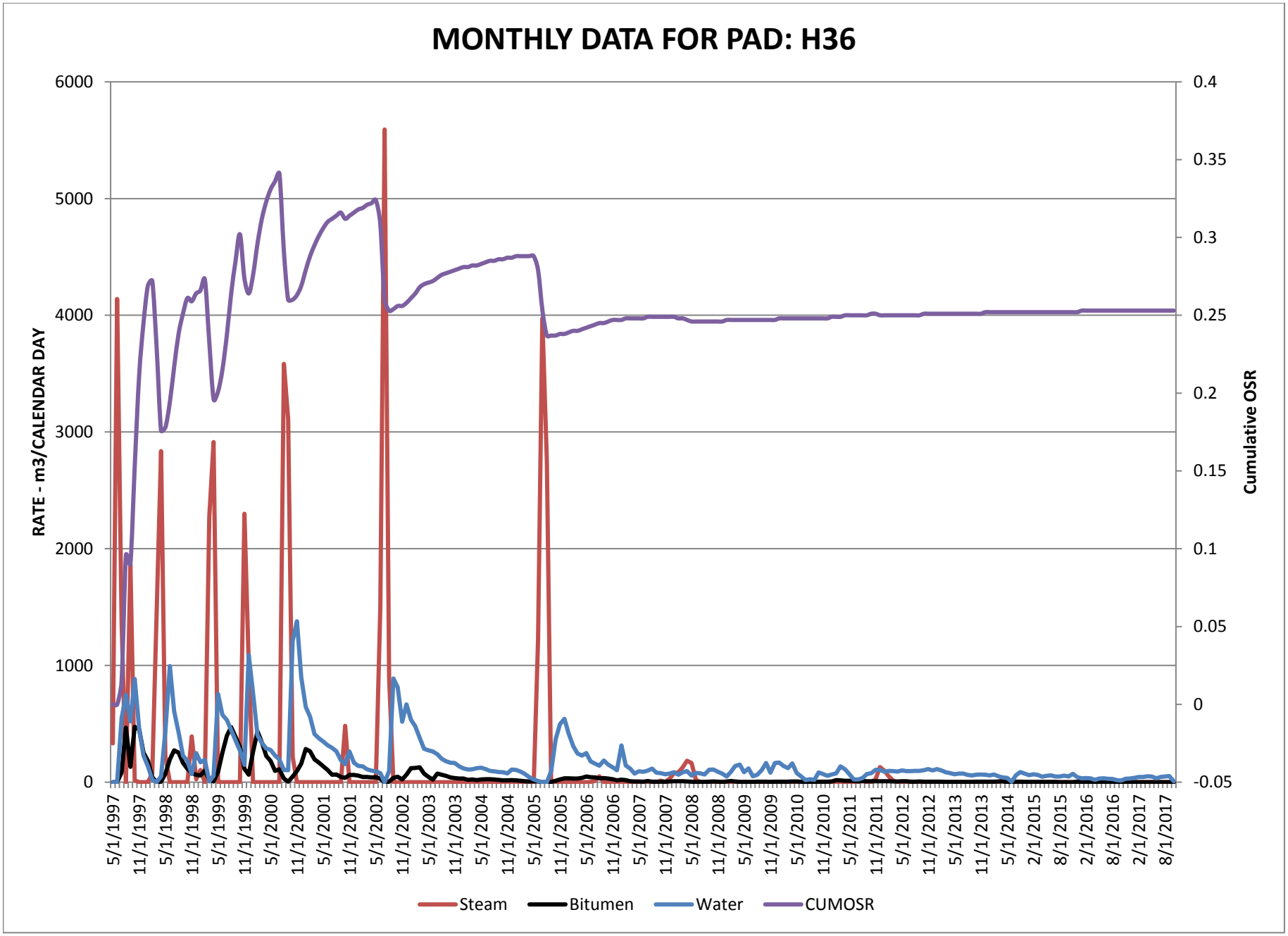
5/1/2009
11/1/2009
5/1/2010
11/1/2010
5/1/2011
11/1/2011
5/1/2012
11/1/2012
5/1/2013
11/1/2013
5/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H36
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1997
11/1/1997
5/1/1998
11/1/1998
5/1/1999
11/1/1999
5/1/2000
11/1/2000
5/1/2001
11/1/2001
5/1/2002
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5/1/2008
11/1/2008
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5/1/2010
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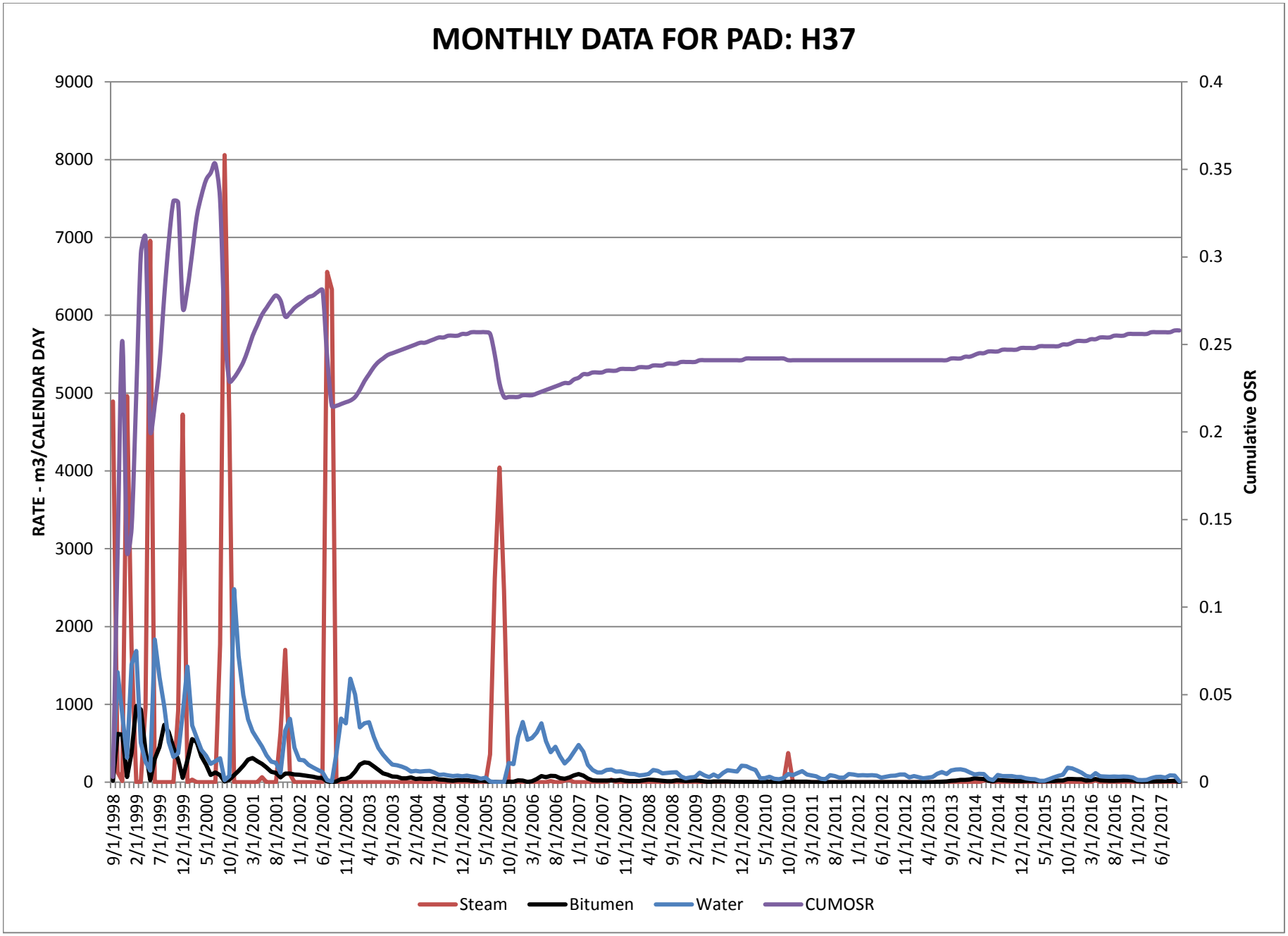
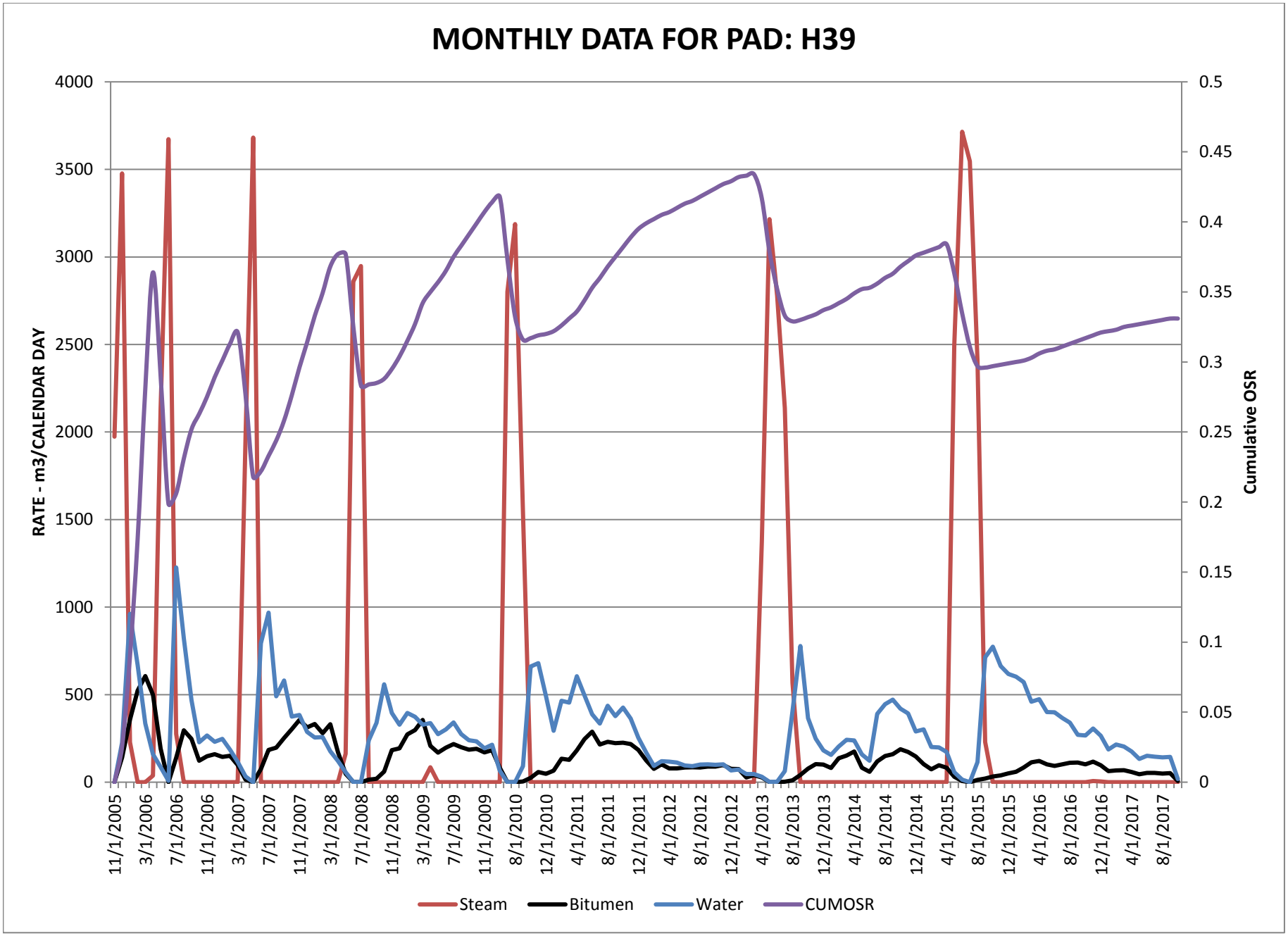
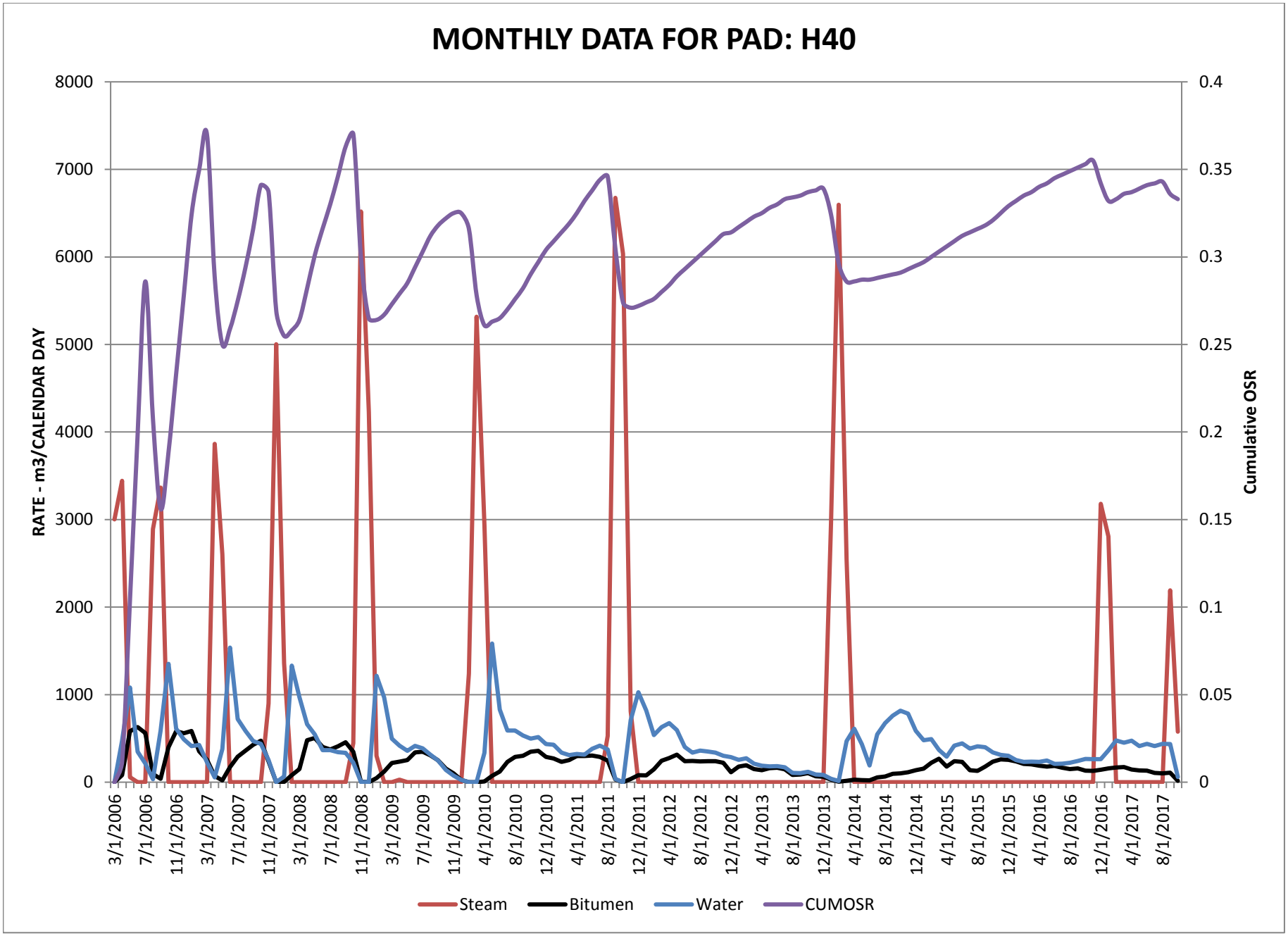
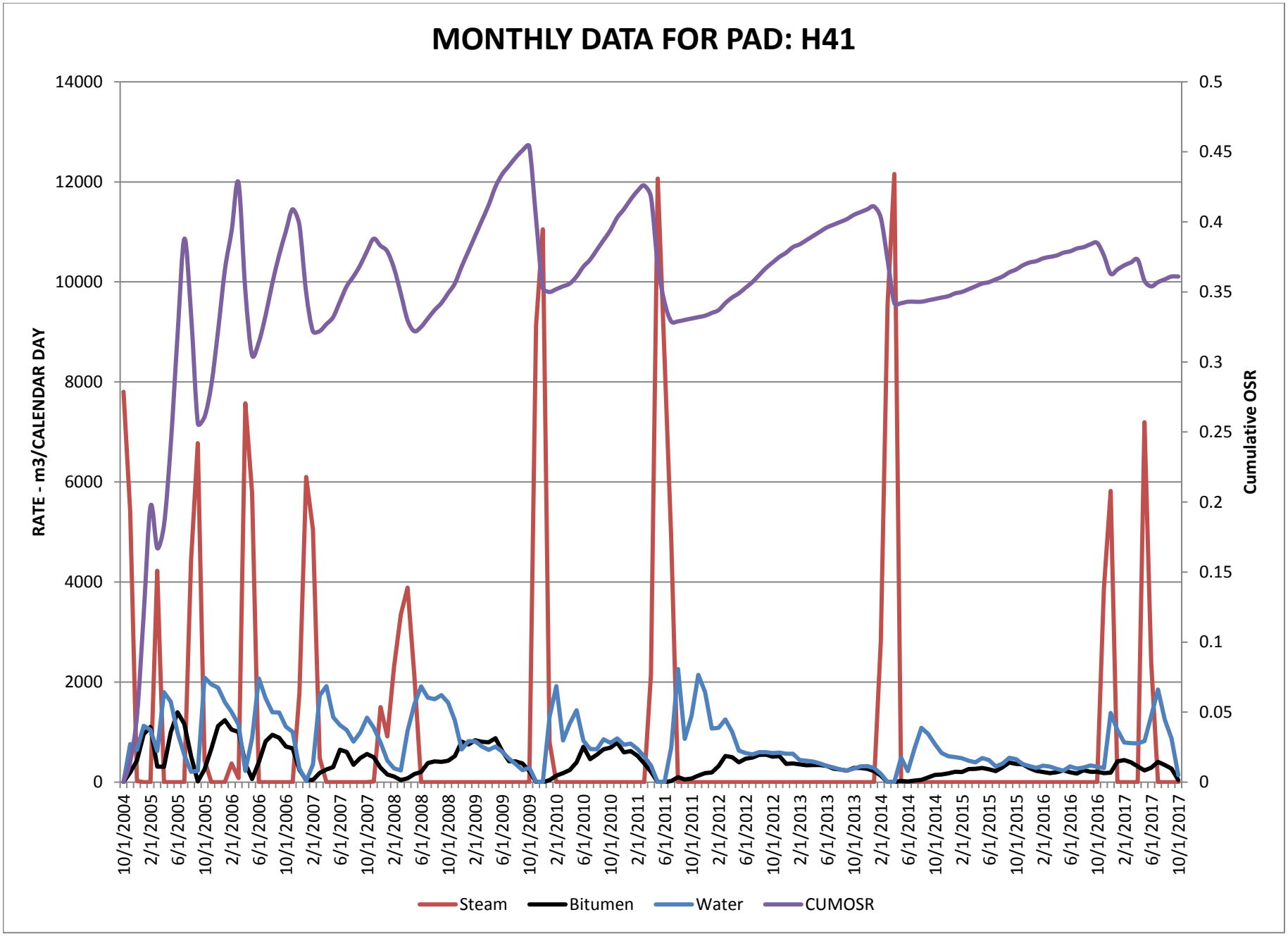
5/1/2012
11/1/2012
5/1/2013
11/1/2013
5/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H37
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
9/1/1998
2/1/1999
7/1/1999
12/1/1999
5/1/2000
10/1/2000
3/1/2001
8/1/2001
1/1/2002
6/1/2002
11/1/2002
4/1/2003
9/1/2003
2/1/2004
7/1/2004
12/1/2004
5/1/2005
10/1/2005
3/1/2006
8/1/2006
1/1/2007
6/1/2007
11/1/2007
4/1/2008
9/1/2008
2/1/2009
7/1/2009
12/1/2009
5/1/2010
10/1/2010
3/1/2011
8/1/2011
1/1/2012
6/1/2012
11/1/2012
4/1/2013
9/1/2013
2/1/2014
7/1/2014
12/1/2014
5/1/2015
10/1/2015
3/1/2016
8/1/2016
1/1/2017
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H39
RATE - m3/CALENDAR DAY
Cumulative OSR
4000
3500
3000
2500
2000
1500
1000
500
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
11/1/2005
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
8/1/2010
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
8/1/2012
12/1/2012
4/1/2013
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H40
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
4/1/2010
8/1/2010
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
8/1/2012
12/1/2012
4/1/2013
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H41
RATE - m3/CALENDAR DAY
Cumulative OSR
14000
12000
10000
8000
6000
4000
2000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
10/1/2004
2/1/2005
6/1/2005
10/1/2005
2/1/2006
6/1/2006
10/1/2006
2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
10/1/2008
2/1/2009
6/1/2009
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2/1/2010
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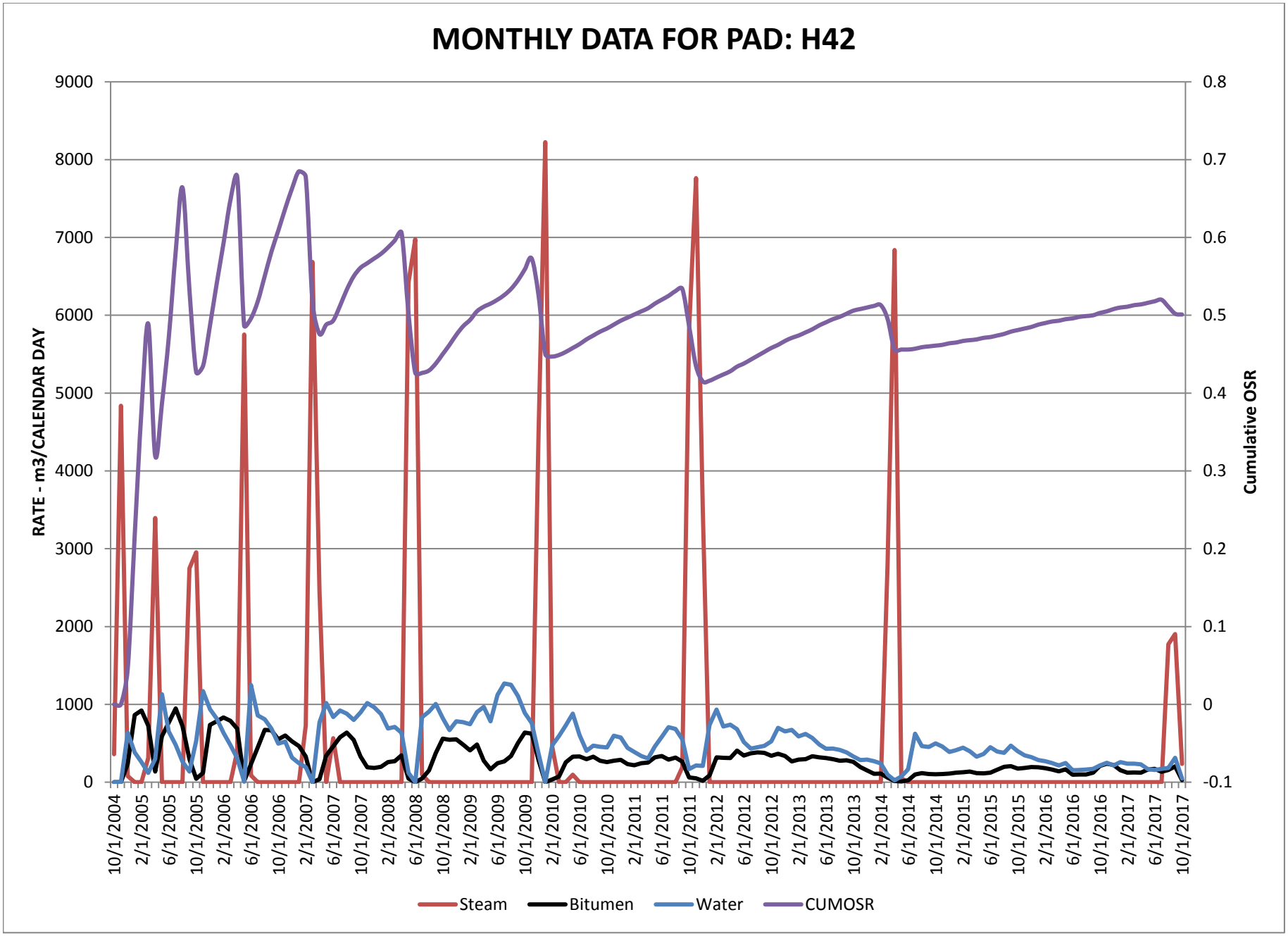
2/1/2011
6/1/2011
10/1/2011
2/1/2012
6/1/2012
10/1/2012
2/1/2013
6/1/2013
10/1/2013
2/1/2014
6/1/2014
10/1/2014
2/1/2015
6/1/2015
10/1/2015
2/1/2016
6/1/2016
10/1/2016
2/1/2017
6/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H42
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
10/1/2004
2/1/2005
6/1/2005
10/1/2005
2/1/2006
6/1/2006
10/1/2006
2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
10/1/2008
2/1/2009
6/1/2009
10/1/2009
2/1/2010
6/1/2010
10/1/2010
2/1/2011
6/1/2011
10/1/2011
2/1/2012
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6/1/2013
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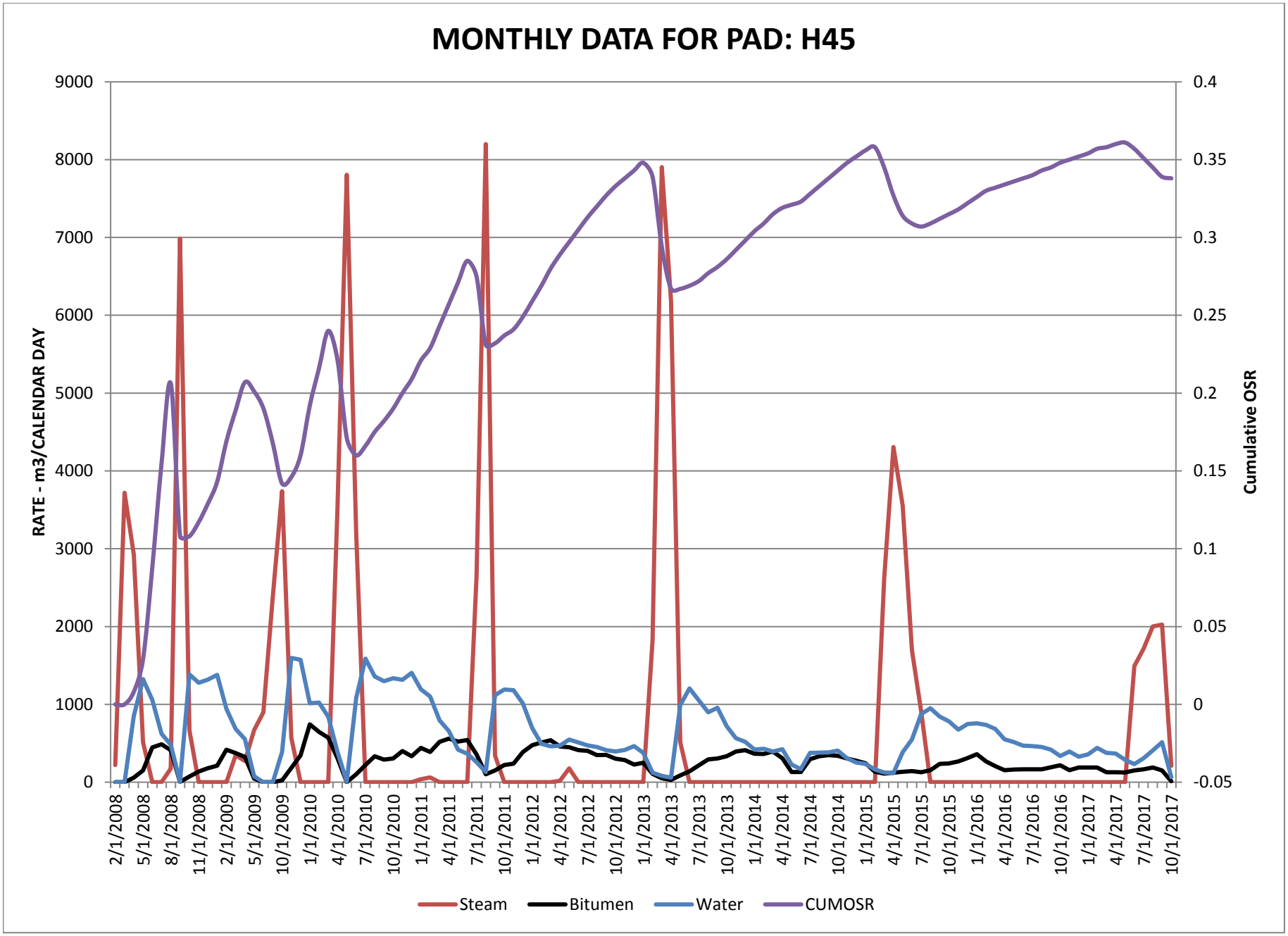
2/1/2014
6/1/2014
10/1/2014
2/1/2015
6/1/2015
10/1/2015
2/1/2016
6/1/2016
10/1/2016
2/1/2017
6/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H45
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
2/1/2008
5/1/2008
8/1/2008
11/1/2008
2/1/2009
5/1/2009
10/1/2009
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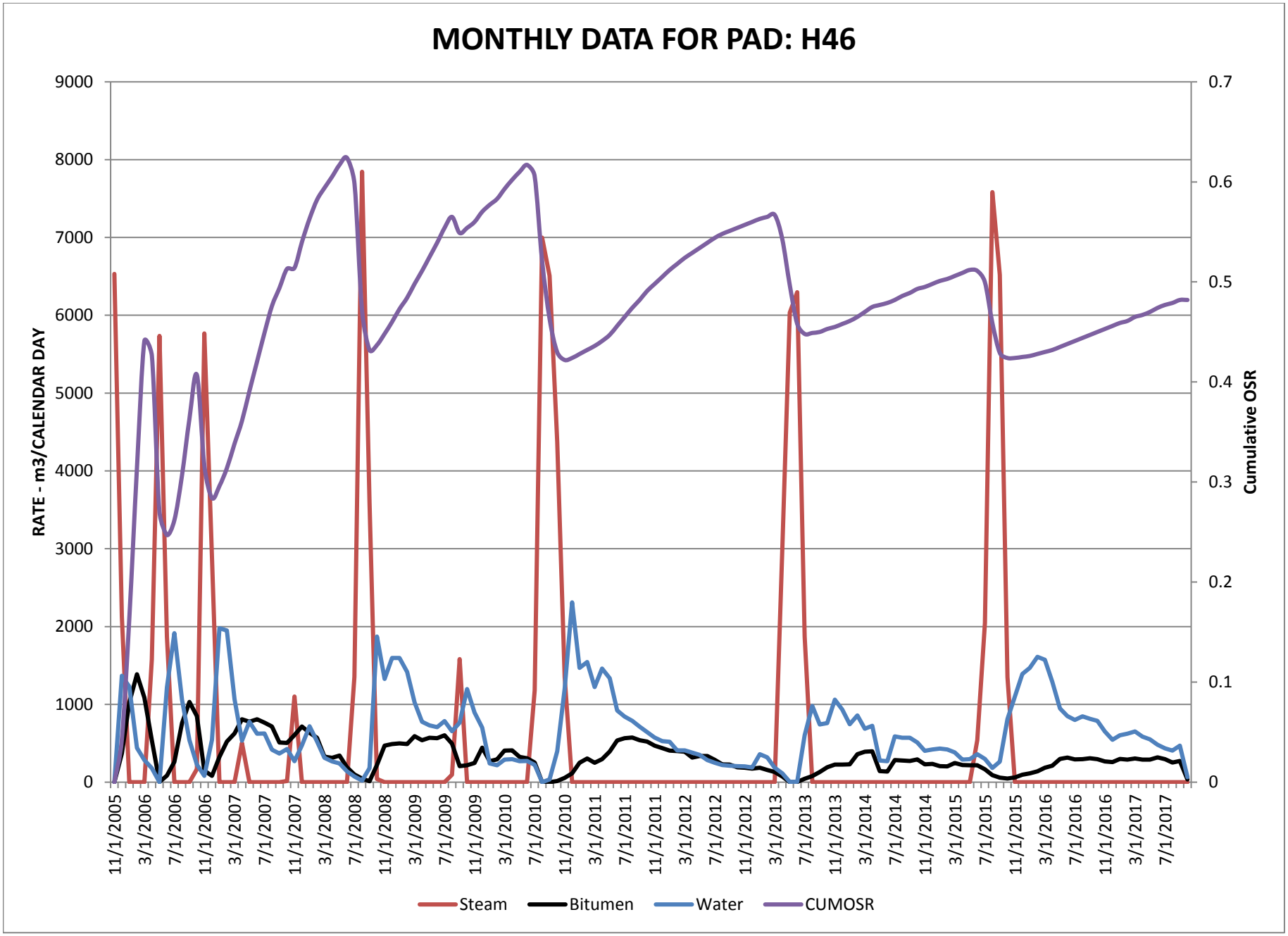
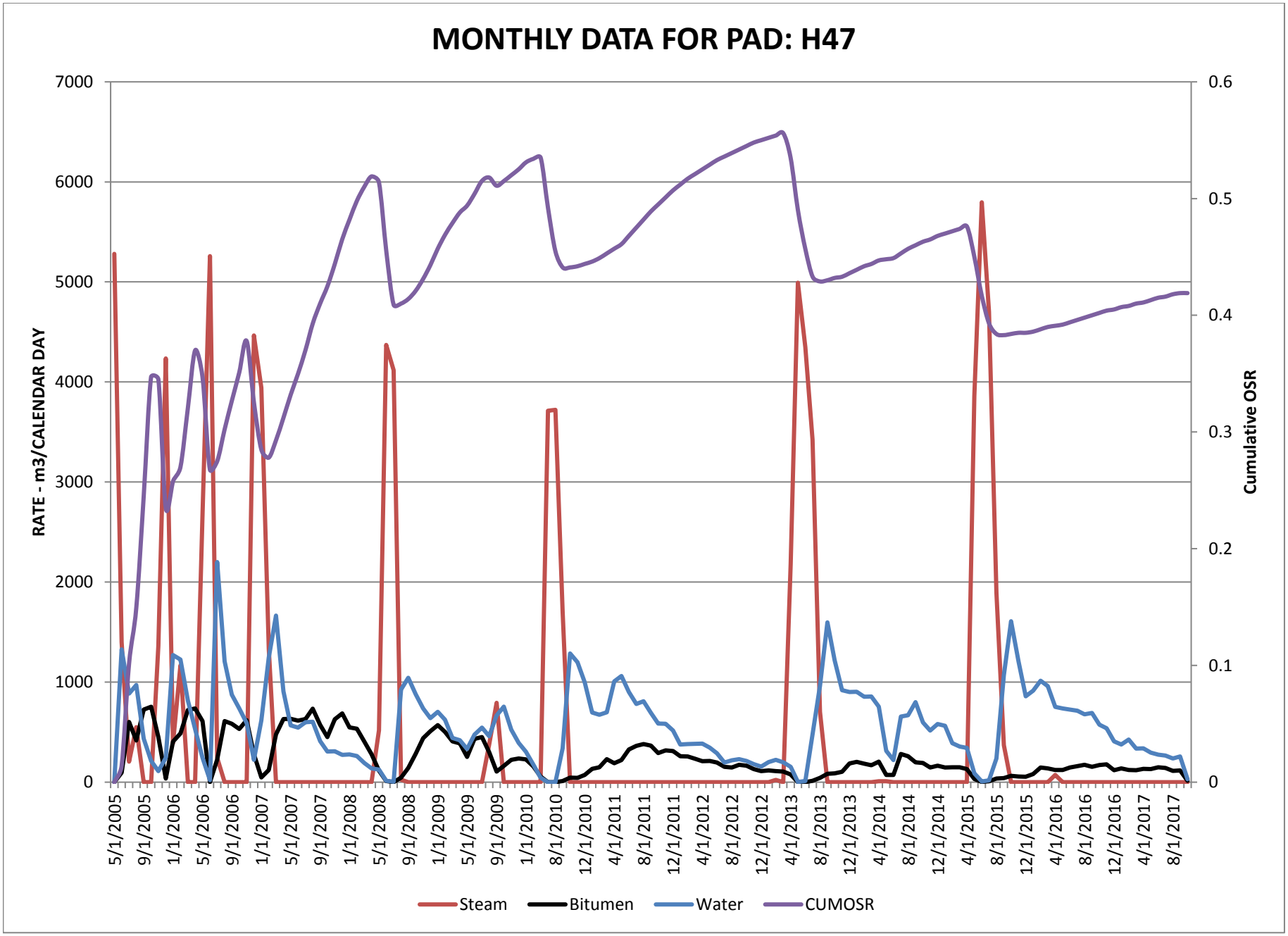
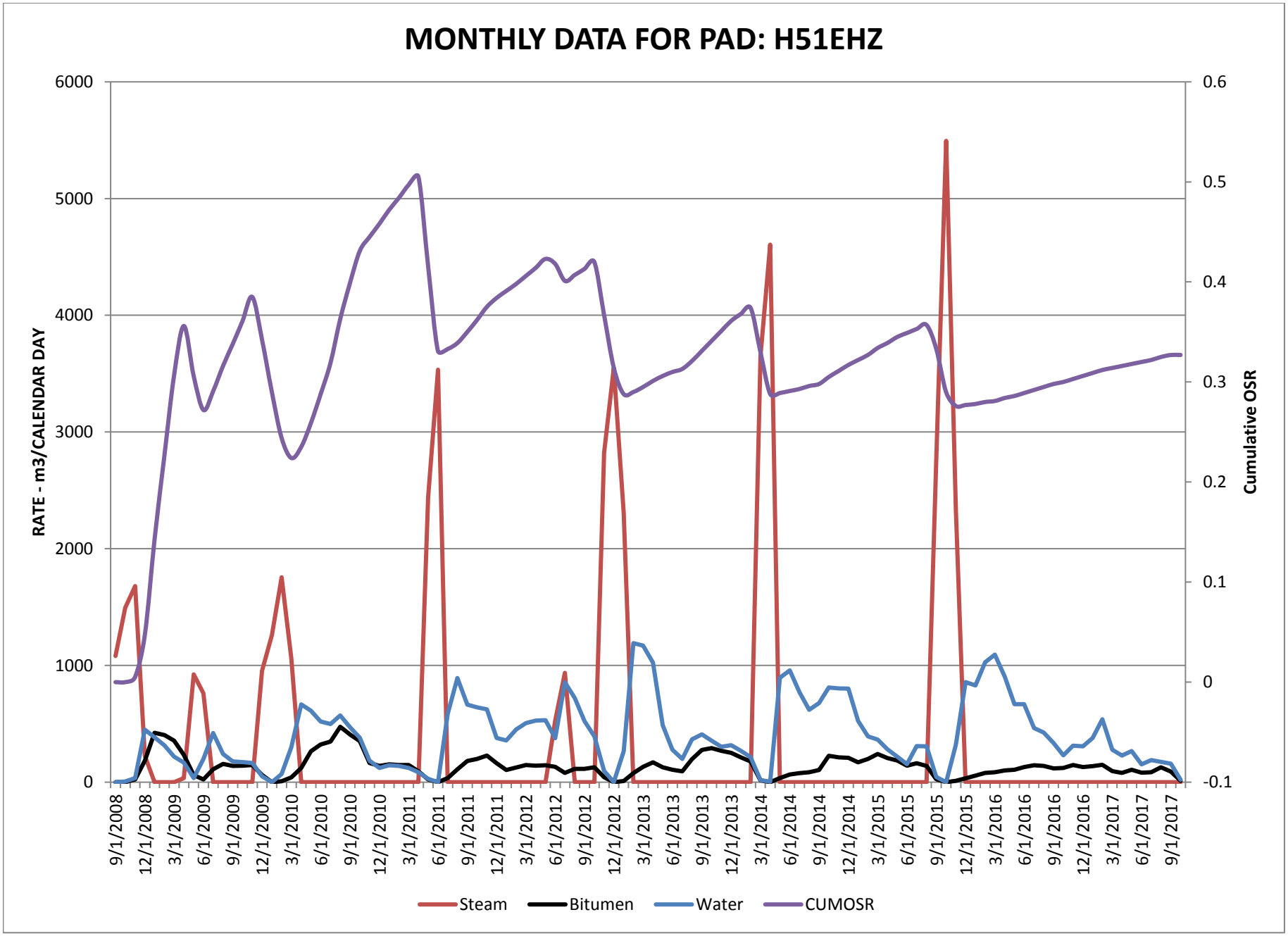
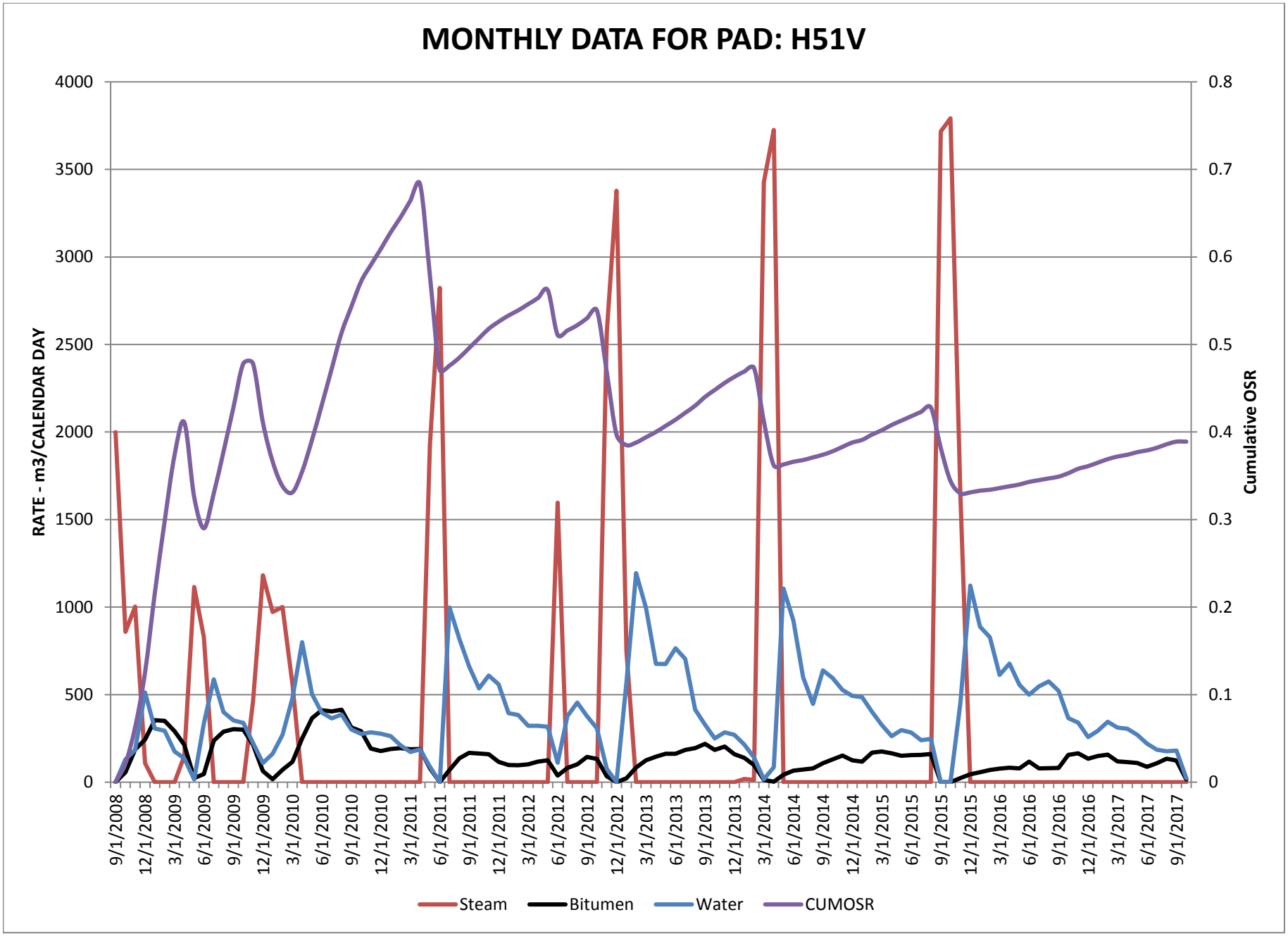
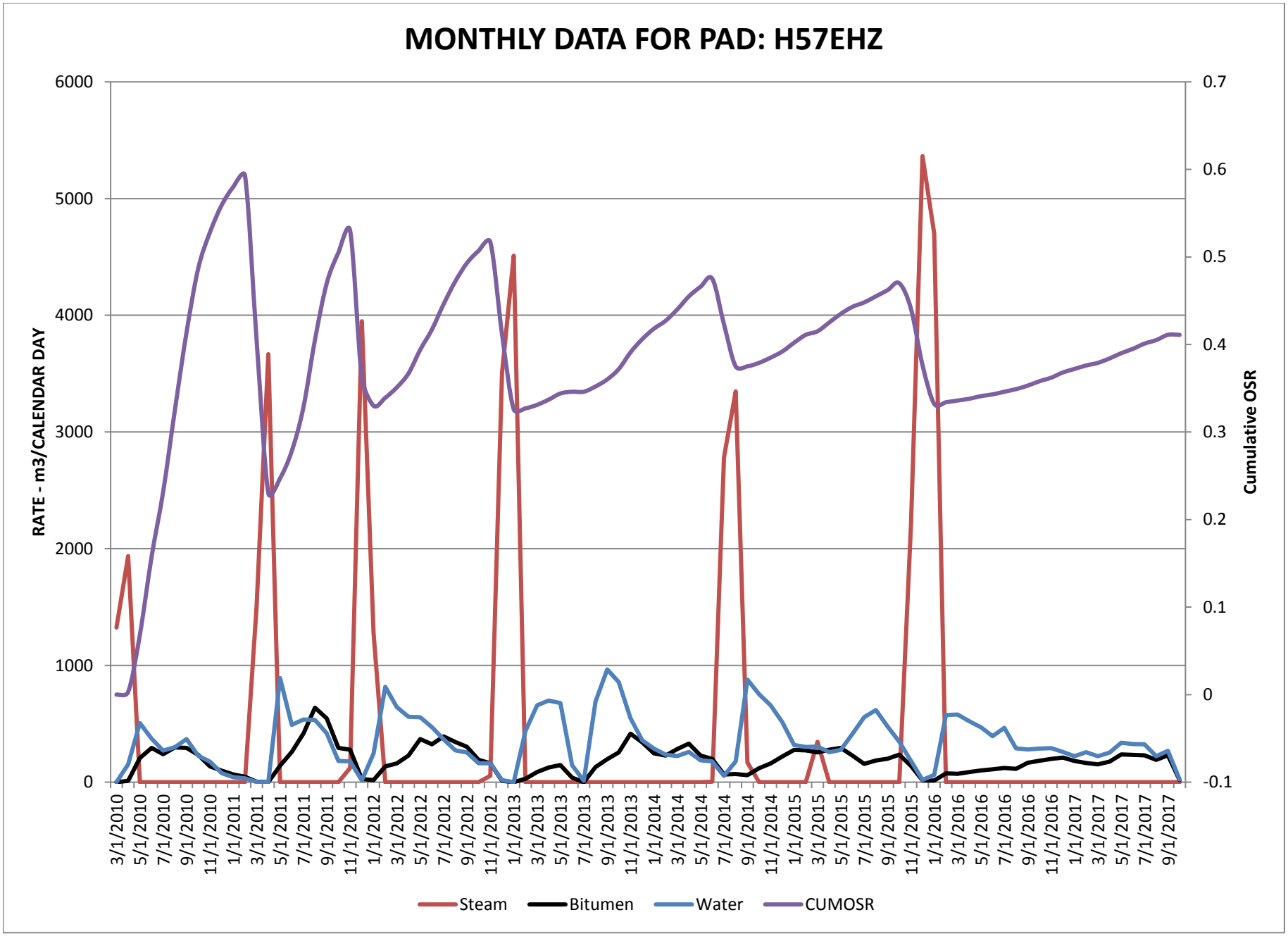
7/1/2010
10/1/2010
1/1/2011
4/1/2011
7/1/2011
10/1/2011
1/1/2012
4/1/2012
7/1/2012
10/1/2012
1/1/2013
4/1/2013
7/1/2013
10/1/2013
1/1/2014
4/1/2014
7/1/2014
10/1/2014
1/1/2015
4/1/2015
7/1/2015
10/1/2015
1/1/2016
4/1/2016
7/1/2016
10/1/2016
1/1/2017
4/1/2017
7/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR

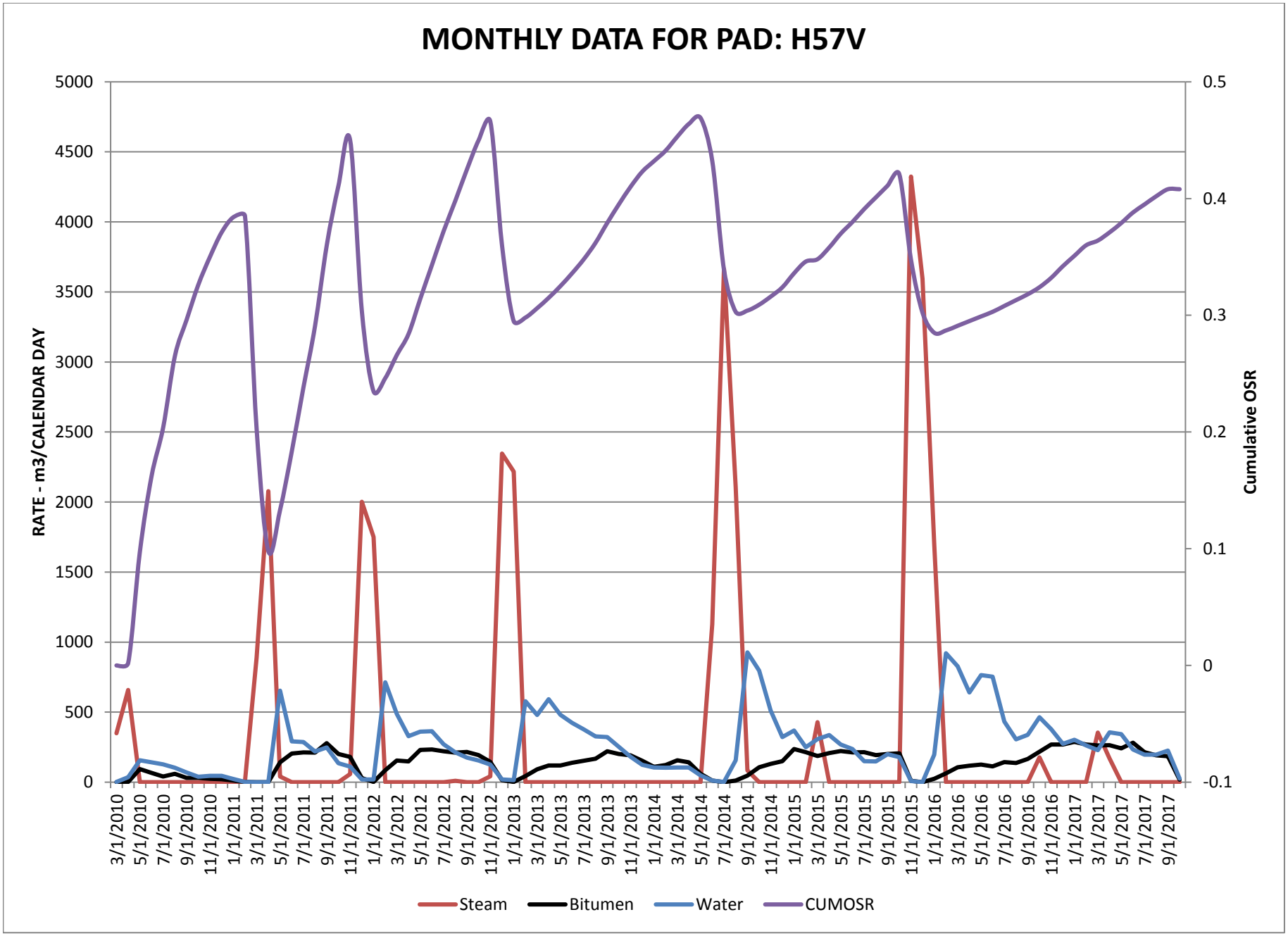

MONTHLY DATA FOR PAD: H46
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
11/1/2005
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
3/1/2010
7/1/2010
11/1/2010
3/1/2011
7/1/2011
11/1/2011
3/1/2012
7/1/2012
11/1/2012
3/1/2013
7/1/2013
11/1/2013
3/1/2014
7/1/2014
11/1/2014
3/1/2015
7/1/2015
11/1/2015
3/1/2016
7/1/2016
11/1/2016
3/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR

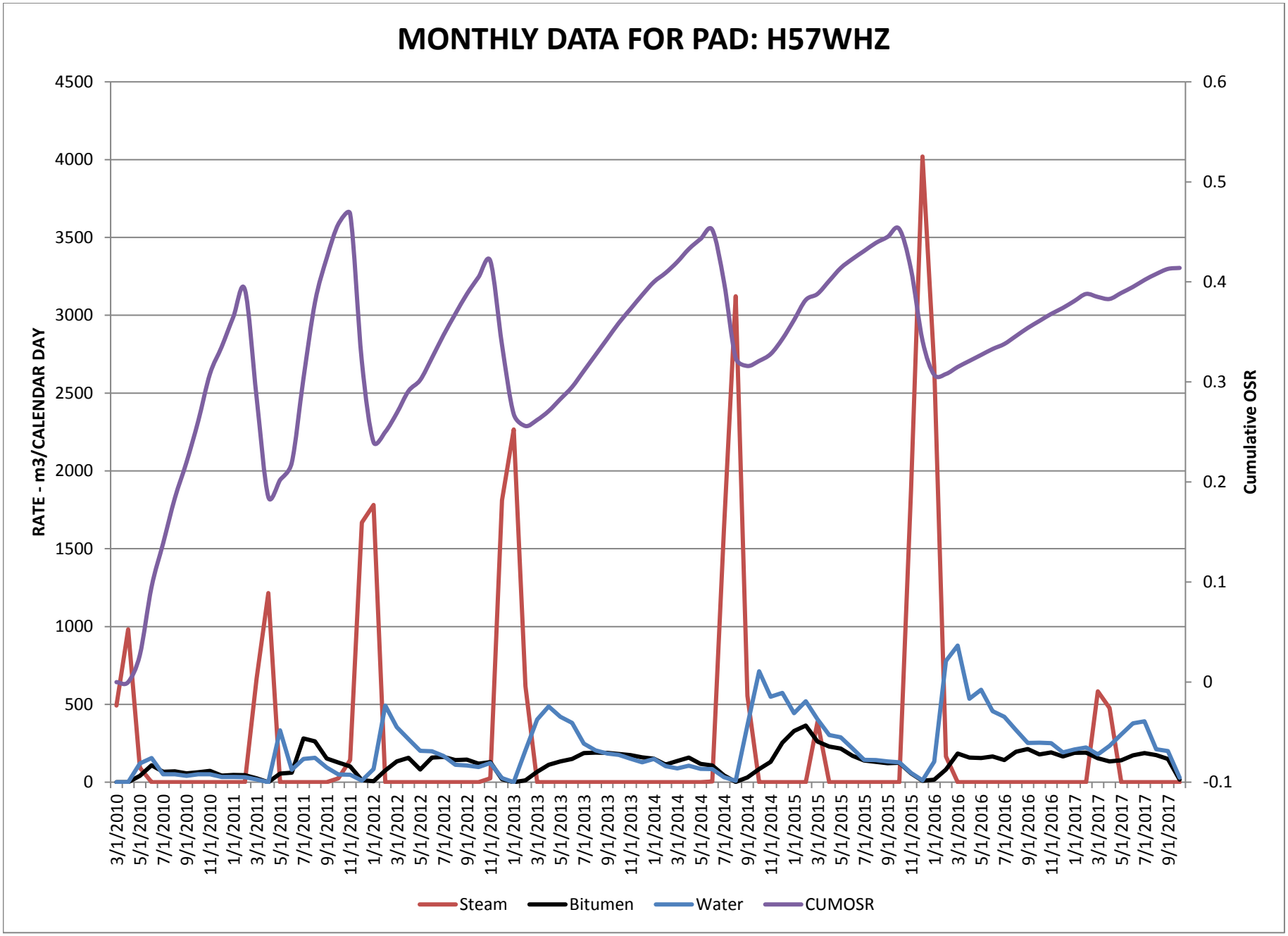

MONTHLY DATA FOR PAD: H47
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2005
9/1/2005
1/1/2006
5/1/2006
9/1/2006
1/1/2007
5/1/2007
9/1/2007
1/1/2008
5/1/2008
9/1/2008
1/1/2009
5/1/2009
9/1/2009
1/1/2010
8/1/2010
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
8/1/2012
12/1/2012
4/1/2013
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR

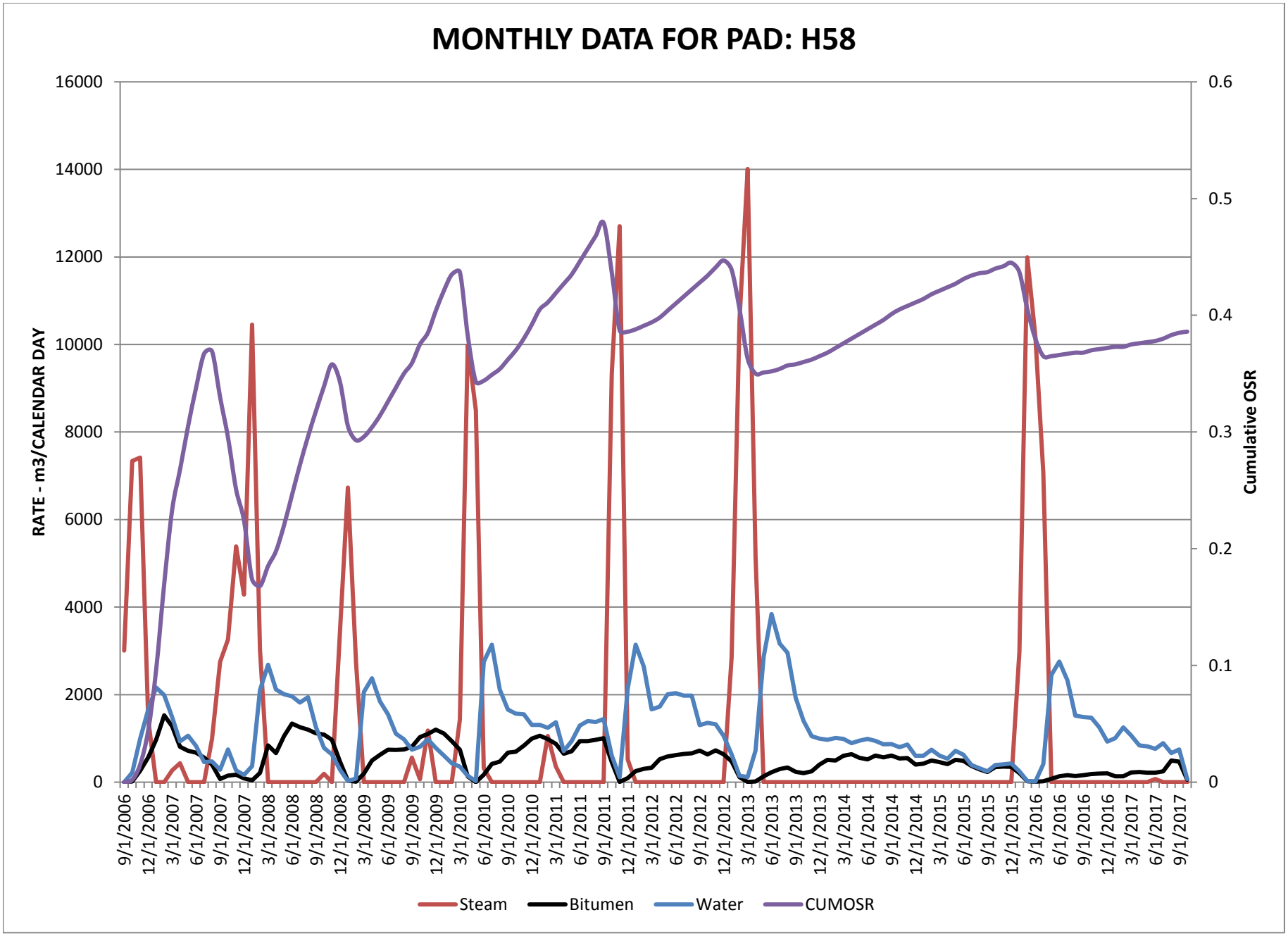

MONTHLY DATA FOR PAD: H51EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013
12/1/2013
3/1/2014
6/1/2014
9/1/2014
12/1/2014
3/1/2015
6/1/2015
9/1/2015
12/1/2015
3/1/2016
6/1/2016
9/1/2016
12/1/2016
3/1/2017
6/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H51V
RATE - m3/CALENDAR DAY
Cumulative OSR
4000
3500
3000
2500
2000
1500
1000
500
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013
12/1/2013
3/1/2014
6/1/2014
9/1/2014
12/1/2014
3/1/2015
6/1/2015
9/1/2015
12/1/2015
3/1/2016
6/1/2016
9/1/2016
12/1/2016
3/1/2017
6/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H57EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
3/1/2013
5/1/2013
7/1/2013
9/1/2013
11/1/2013
1/1/2014
3/1/2014
5/1/2014
7/1/2014
9/1/2014
11/1/2014
1/1/2015
3/1/2015
5/1/2015
7/1/2015
9/1/2015
11/1/2015
1/1/2016
3/1/2016
5/1/2016
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H57V
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.5
0.4
0.3
0.2
0.1
0
-0.1
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
3/1/2013
5/1/2013
7/1/2013
9/1/2013
11/1/2013
1/1/2014
3/1/2014
5/1/2014
7/1/2014
9/1/2014
11/1/2014
1/1/2015
3/1/2015
5/1/2015
7/1/2015
9/1/2015
11/1/2015
1/1/2016
3/1/2016
5/1/2016
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H57WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
3/1/2013
5/1/2013
7/1/2013
9/1/2013
11/1/2013
1/1/2014
3/1/2014
5/1/2014
7/1/2014
9/1/2014
11/1/2014
1/1/2015
3/1/2015
5/1/2015
7/1/2015
9/1/2015
11/1/2015
1/1/2016
3/1/2016
5/1/2016
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H58
RATE - m3/CALENDAR DAY
Cumulative OSR
16000
14000
12000
10000
8000
6000
4000
2000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
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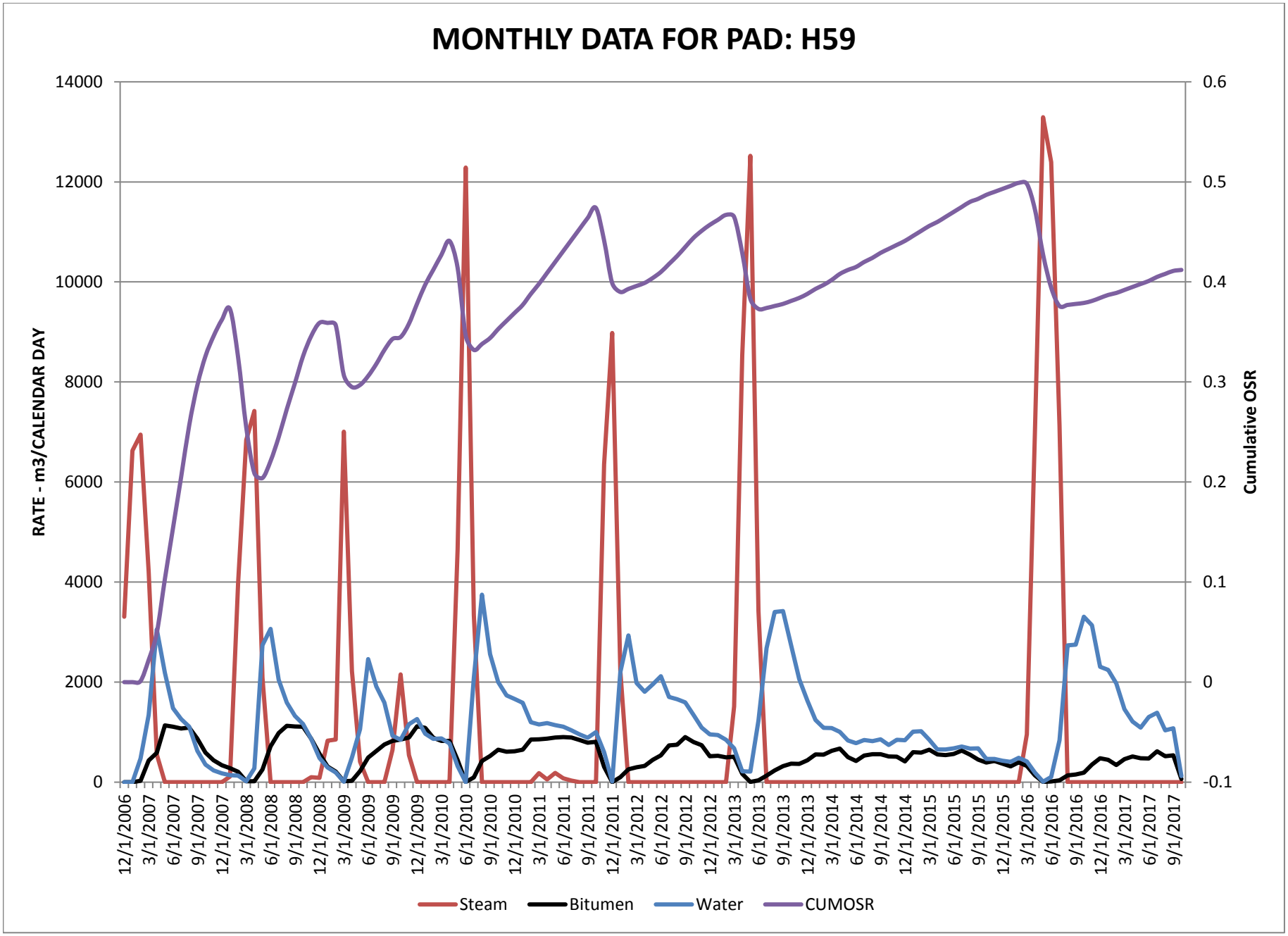
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013
12/1/2013
3/1/2014
6/1/2014
9/1/2014
12/1/2014
3/1/2015
6/1/2015
9/1/2015
12/1/2015
3/1/2016
6/1/2016
9/1/2016
12/1/2016
3/1/2017
6/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H59
RATE - m3/CALENDAR DAY
Cumulative OSR
14000
12000
10000
8000
6000
4000
2000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
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12/1/2009
3/1/2010
6/1/2010
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3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
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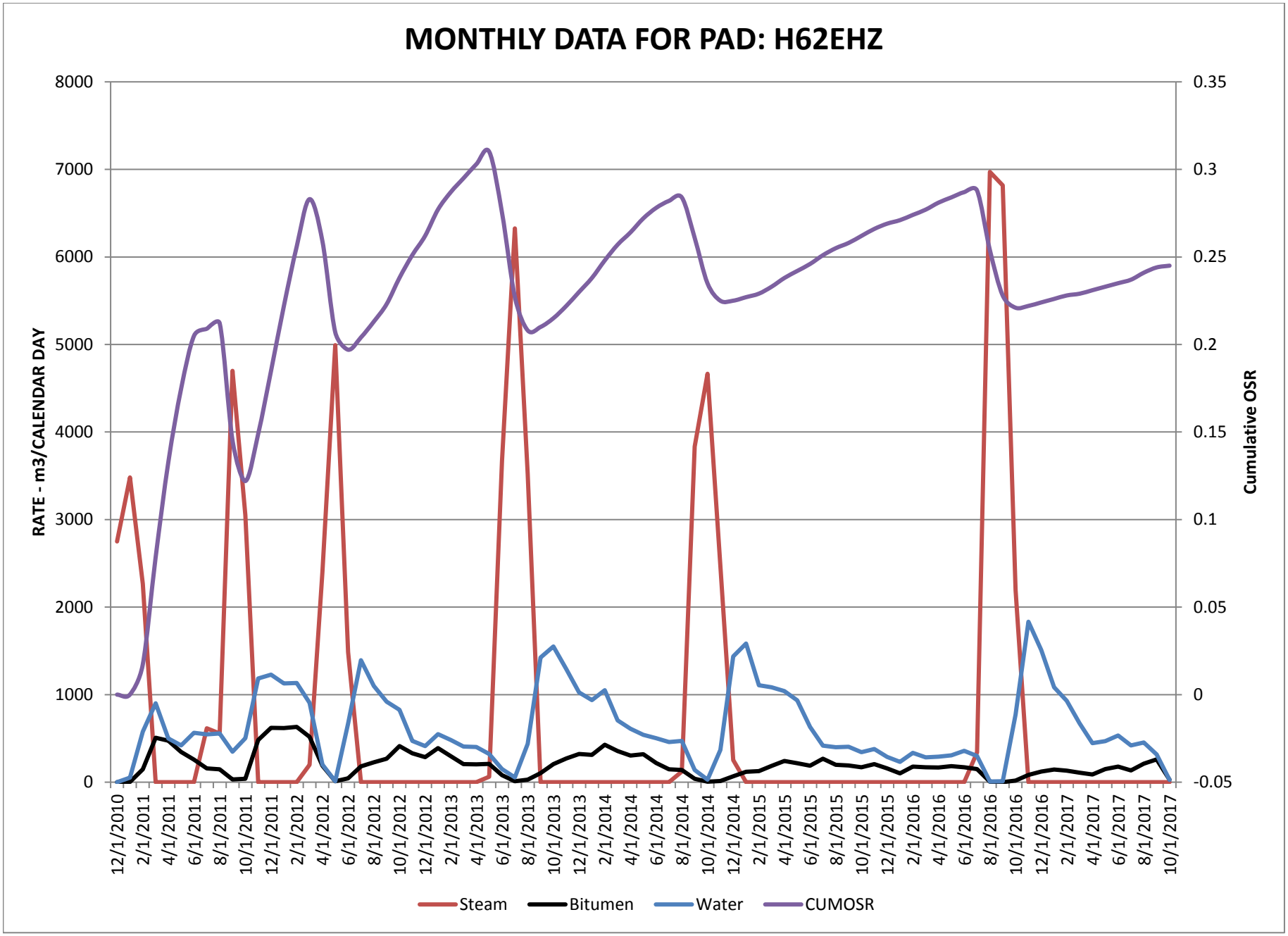
12/1/2013
3/1/2014
6/1/2014
9/1/2014
12/1/2014
3/1/2015
6/1/2015
9/1/2015
12/1/2015
3/1/2016
6/1/2016
9/1/2016
12/1/2016
3/1/2017
6/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H62EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
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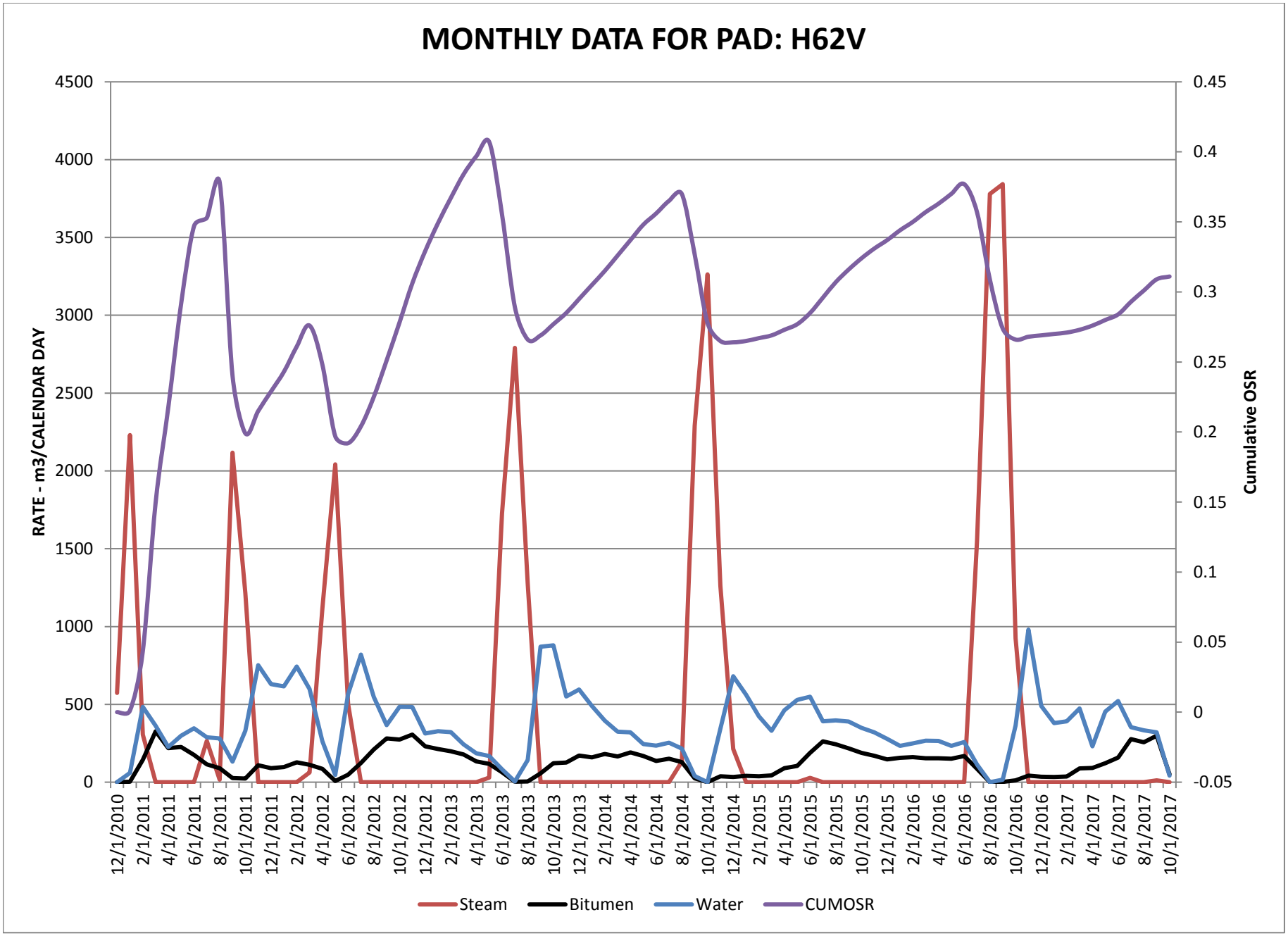
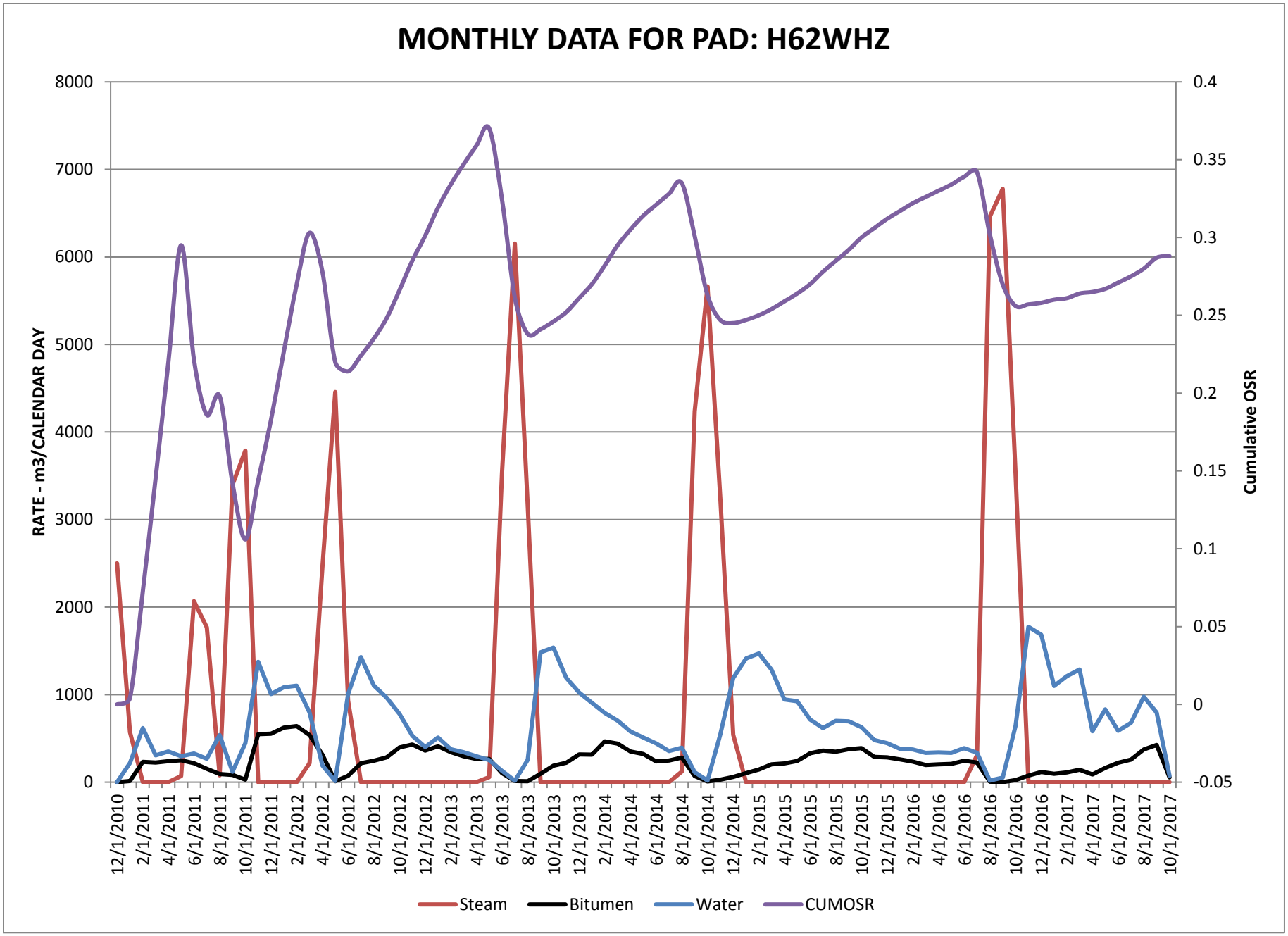
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H62V
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H62WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
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2/1/2013
4/1/2013
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8/1/2014
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4/1/2015
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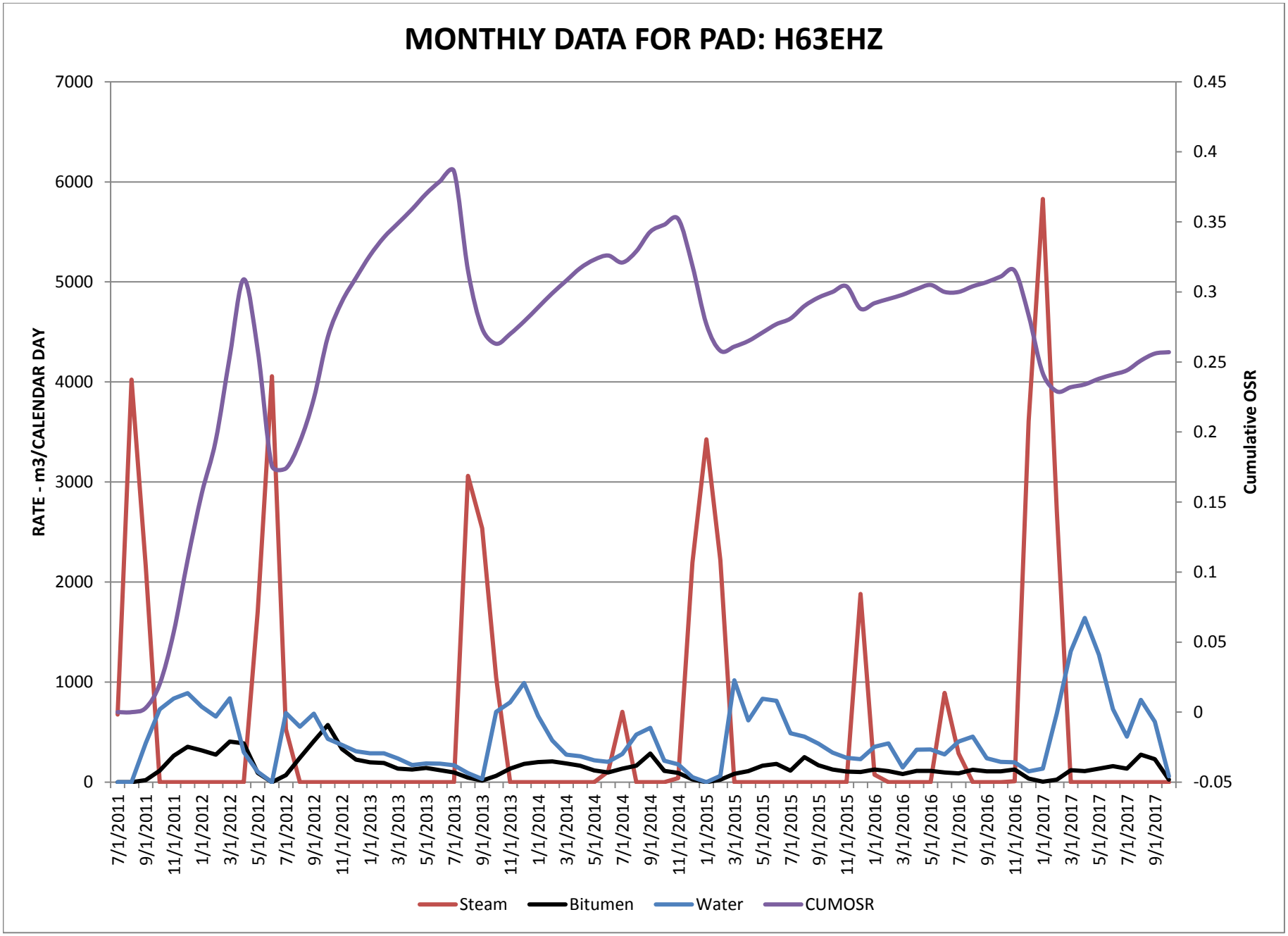
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H63EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
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11/1/2012
1/1/2013
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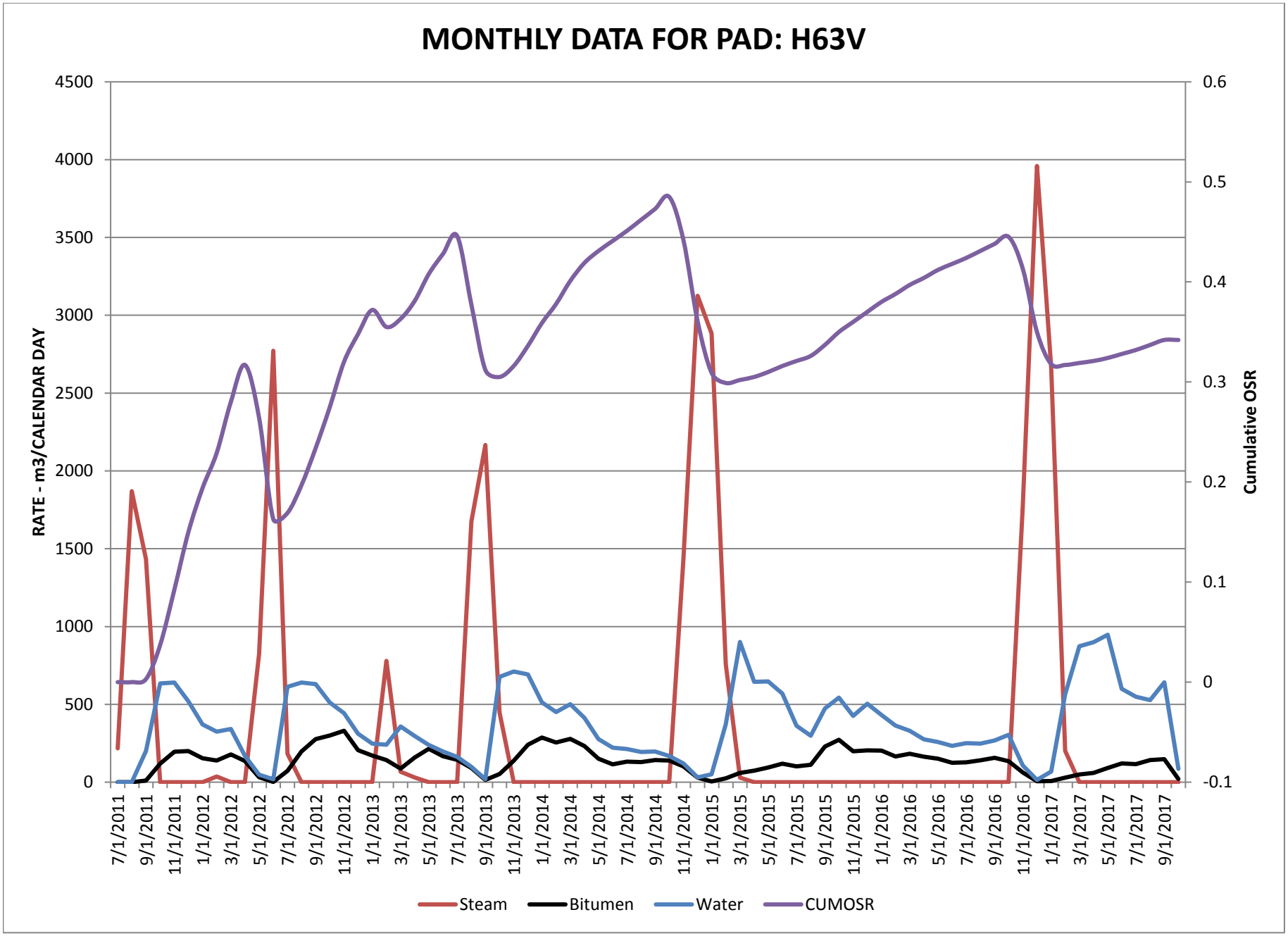
5/1/2013
7/1/2013
9/1/2013
11/1/2013
1/1/2014
3/1/2014
5/1/2014
7/1/2014
9/1/2014
11/1/2014
1/1/2015
3/1/2015
5/1/2015
7/1/2015
9/1/2015
11/1/2015
1/1/2016
3/1/2016
5/1/2016
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H63V
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
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3/1/2013
5/1/2013
7/1/2013
9/1/2013
11/1/2013
1/1/2014
3/1/2014
5/1/2014
7/1/2014
9/1/2014
11/1/2014
1/1/2015
3/1/2015
5/1/2015
7/1/2015
9/1/2015
11/1/2015
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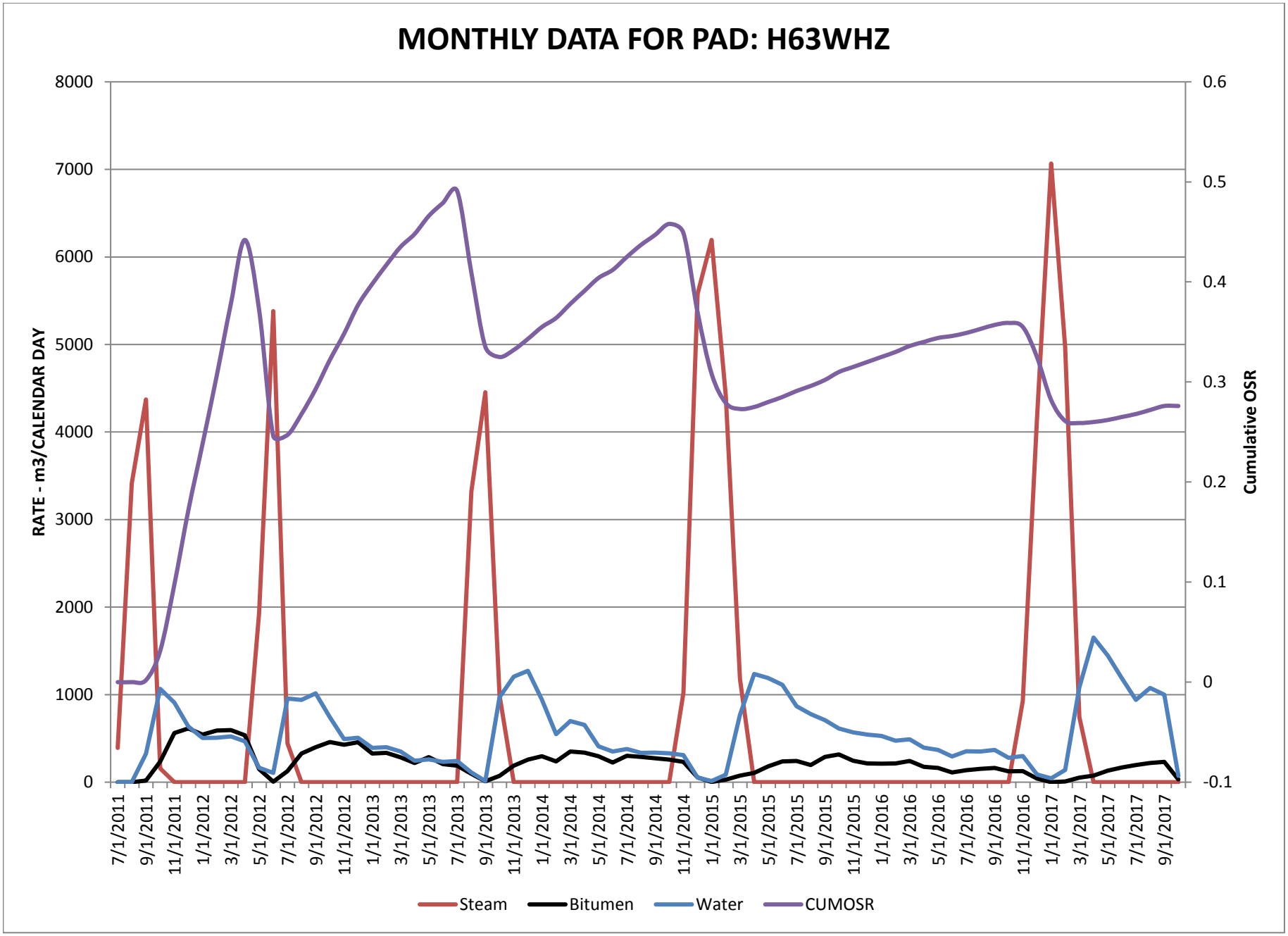
3/1/2016
5/1/2016
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H63WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
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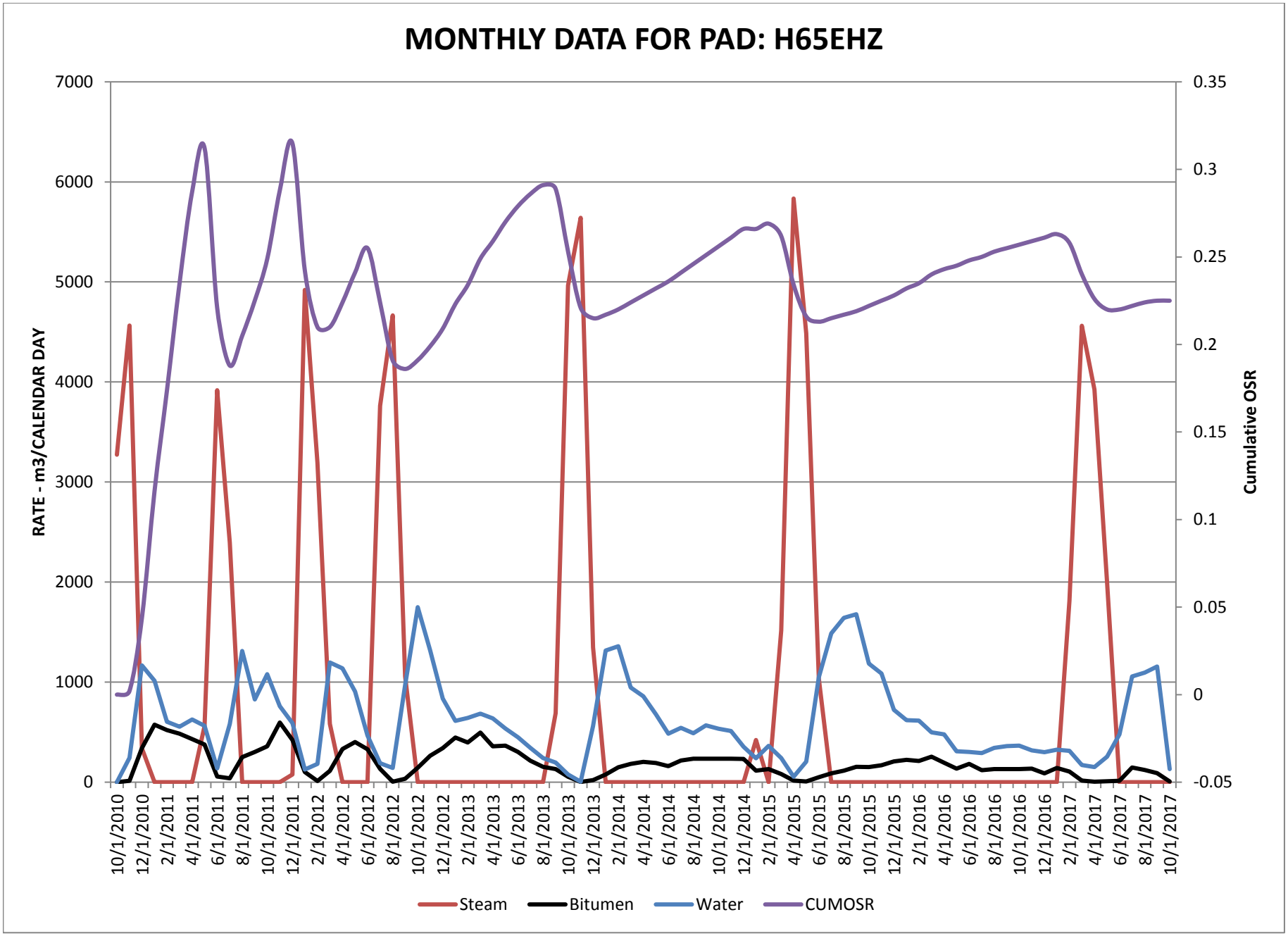
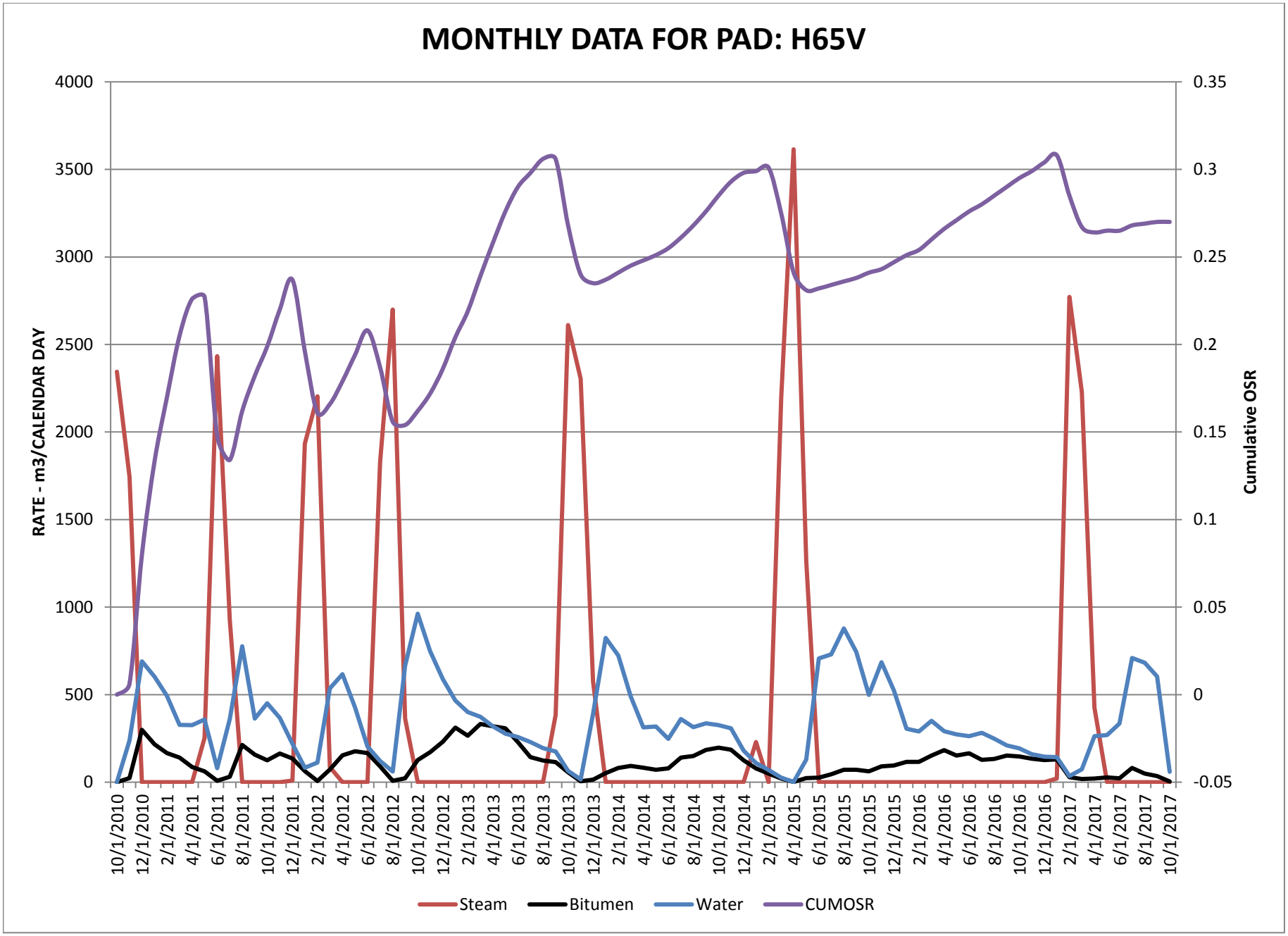
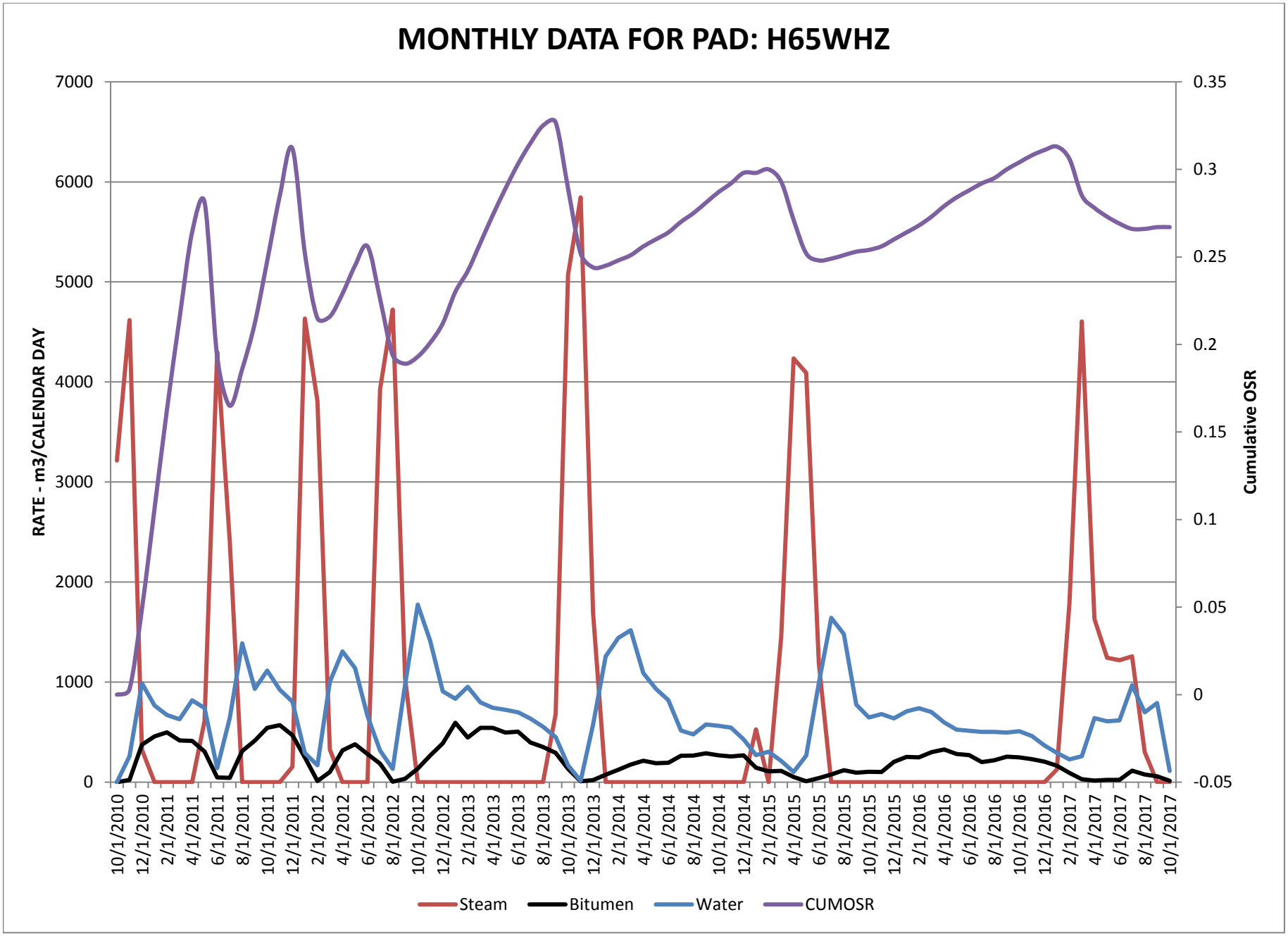
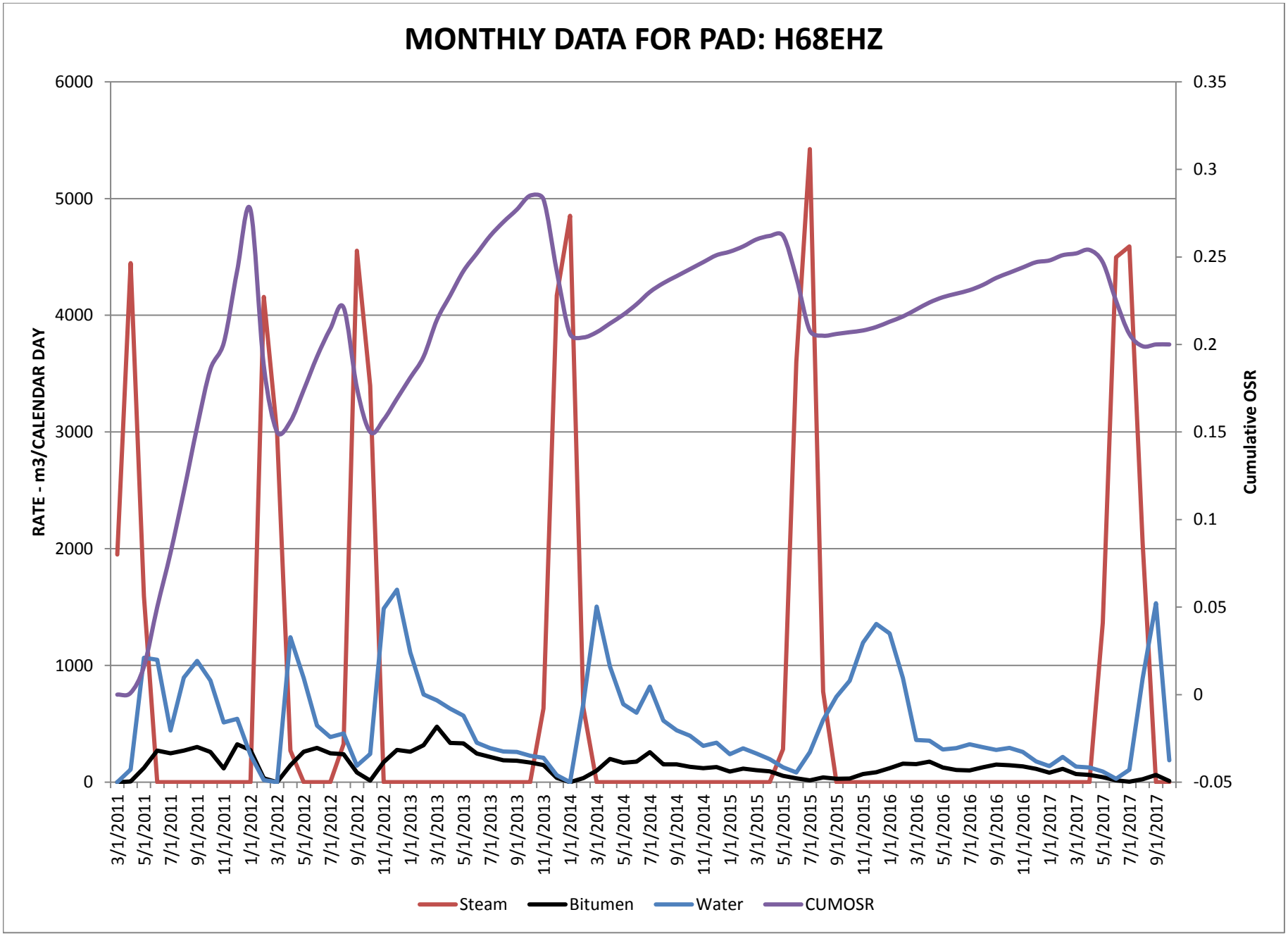
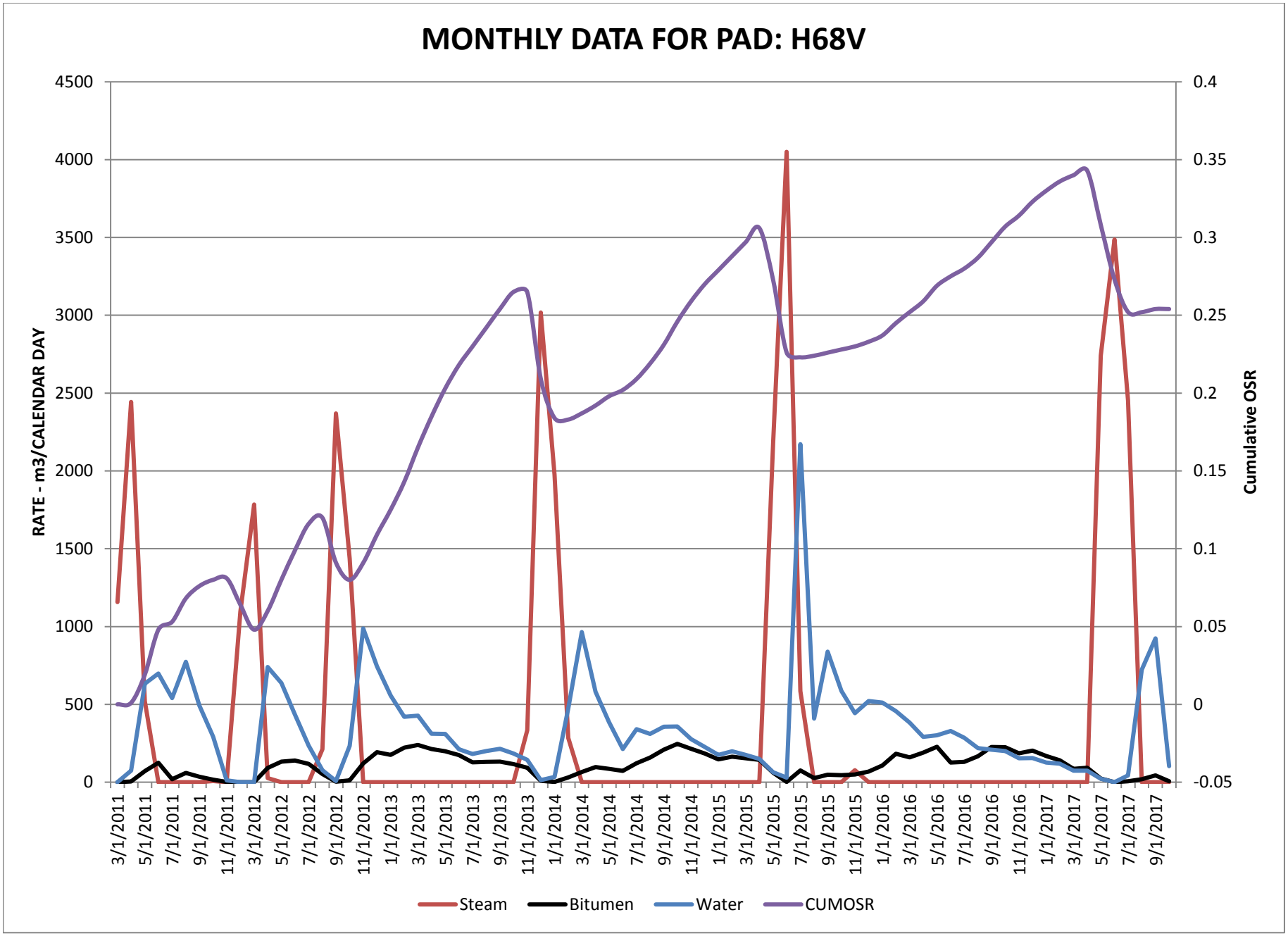
9/1/2012
11/1/2012
1/1/2013
3/1/2013
5/1/2013
7/1/2013
9/1/2013
11/1/2013
1/1/2014
3/1/2014
5/1/2014
7/1/2014
9/1/2014
11/1/2014
1/1/2015
3/1/2015
5/1/2015
7/1/2015
9/1/2015
11/1/2015
1/1/2016
3/1/2016
5/1/2016
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR

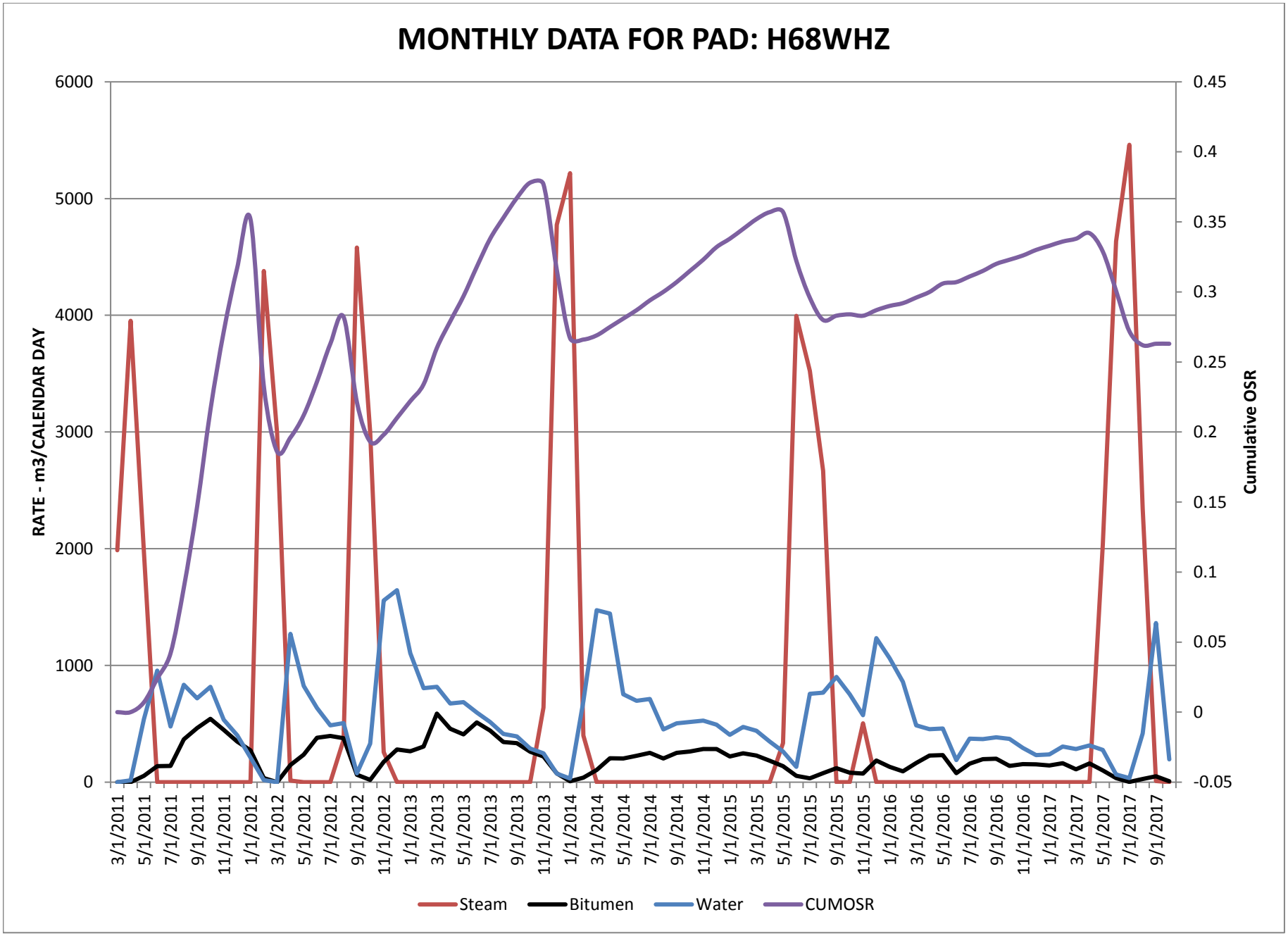

MONTHLY DATA FOR PAD: H65EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR

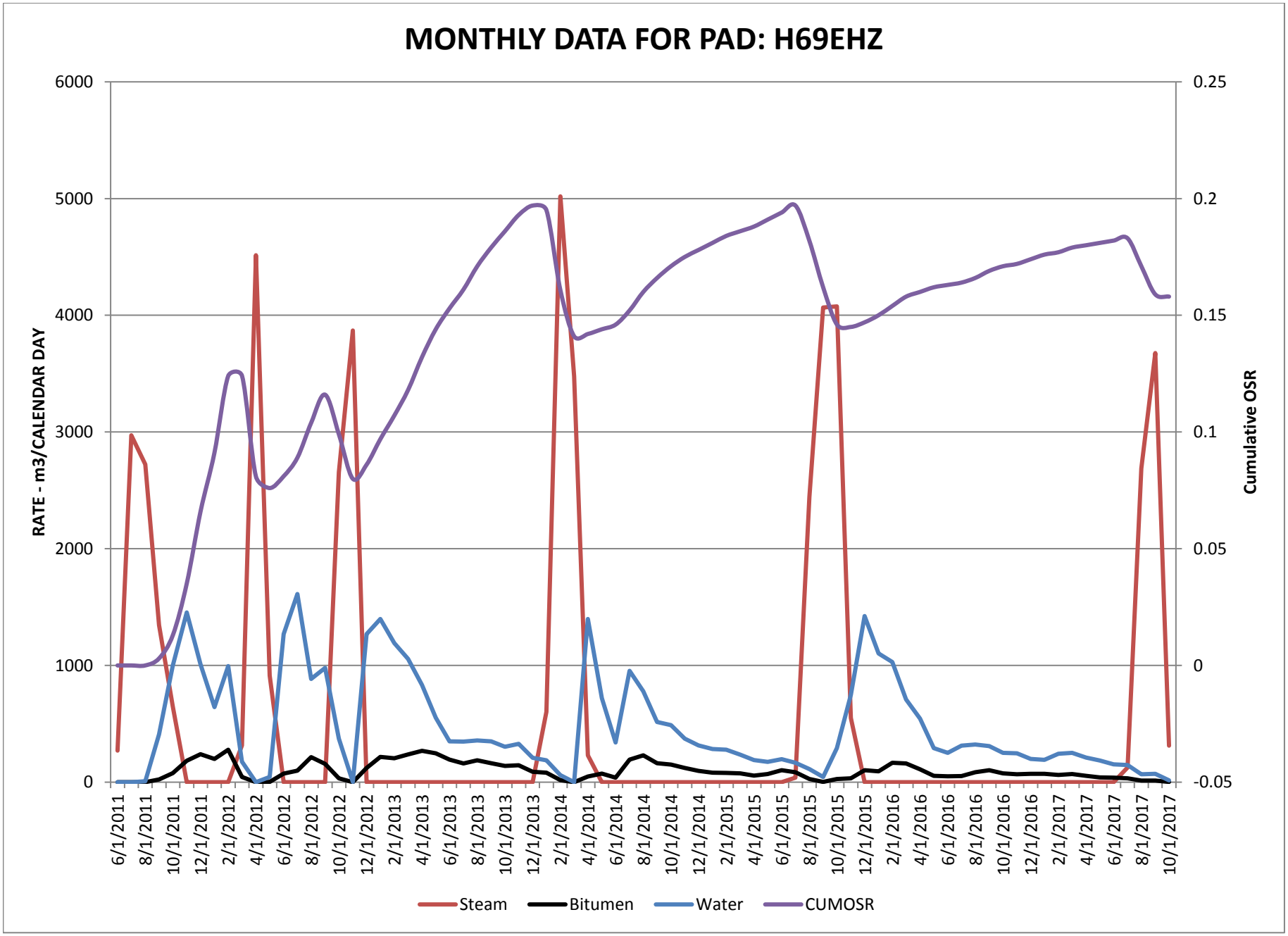

MONTHLY DATA FOR PAD: H65V
RATE - m3/CALENDAR DAY
Cumulative OSR
4000
3500
3000
2500
2000
1500
1000
500
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR

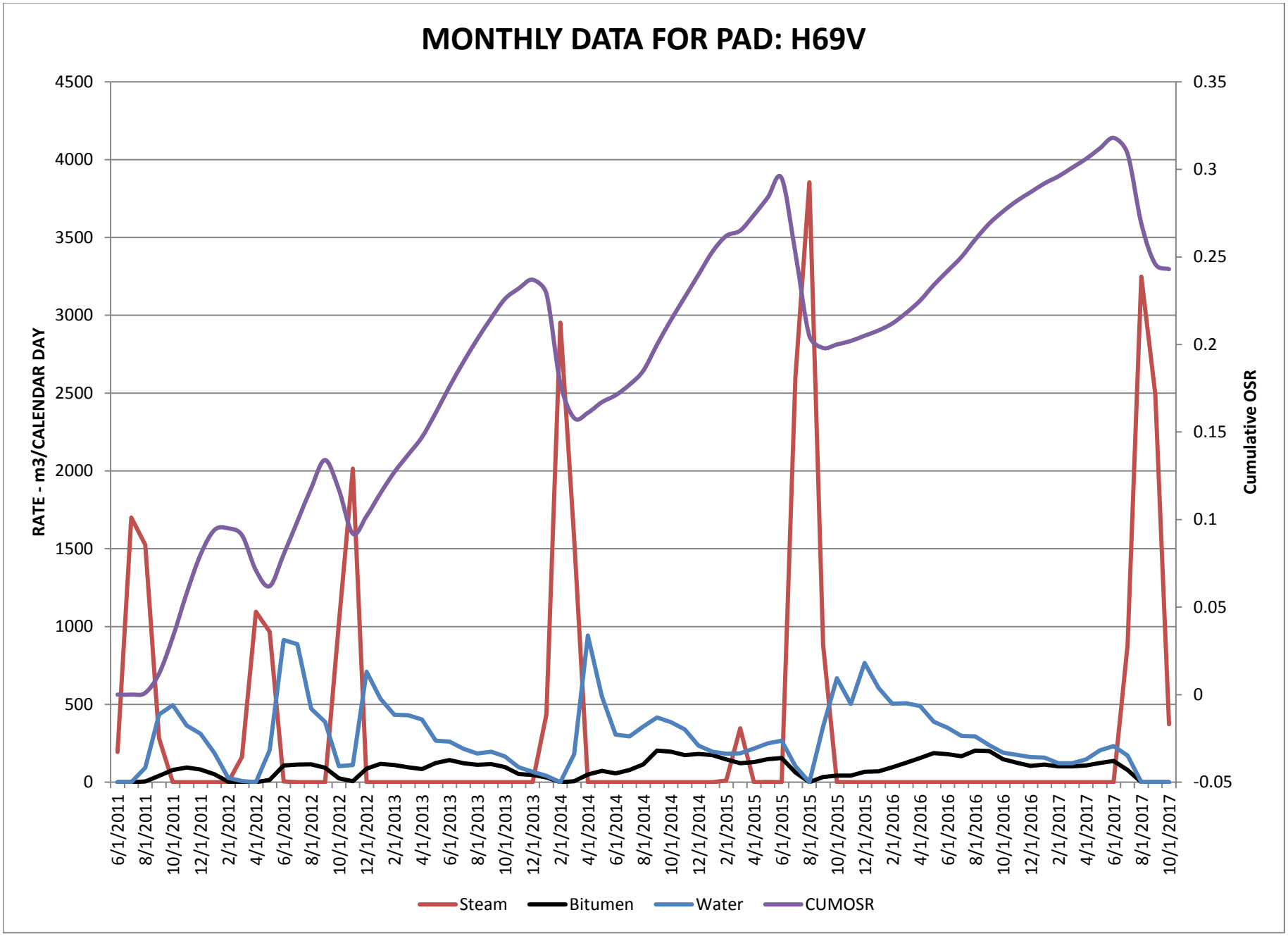

MONTHLY DATA FOR PAD: H65WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H68EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
3/1/2013
5/1/2013
7/1/2013
9/1/2013
11/1/2013
1/1/2014
3/1/2014
5/1/2014
7/1/2014
9/1/2014
11/1/2014
1/1/2015
3/1/2015
5/1/2015
7/1/2015
9/1/2015
11/1/2015
1/1/2016
3/1/2016
5/1/2016
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H68V
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
3/1/2013
5/1/2013
7/1/2013
9/1/2013
11/1/2013
1/1/2014
3/1/2014
5/1/2014
7/1/2014
9/1/2014
11/1/2014
1/1/2015
3/1/2015
5/1/2015
7/1/2015
9/1/2015
11/1/2015
1/1/2016
3/1/2016
5/1/2016
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H68WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
3/1/2013
5/1/2013
7/1/2013
9/1/2013
11/1/2013
1/1/2014
3/1/2014
5/1/2014
7/1/2014
9/1/2014
11/1/2014
1/1/2015
3/1/2015
5/1/2015
7/1/2015
9/1/2015
11/1/2015
1/1/2016
3/1/2016
5/1/2016
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H69EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H69V
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
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4/1/2013
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8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
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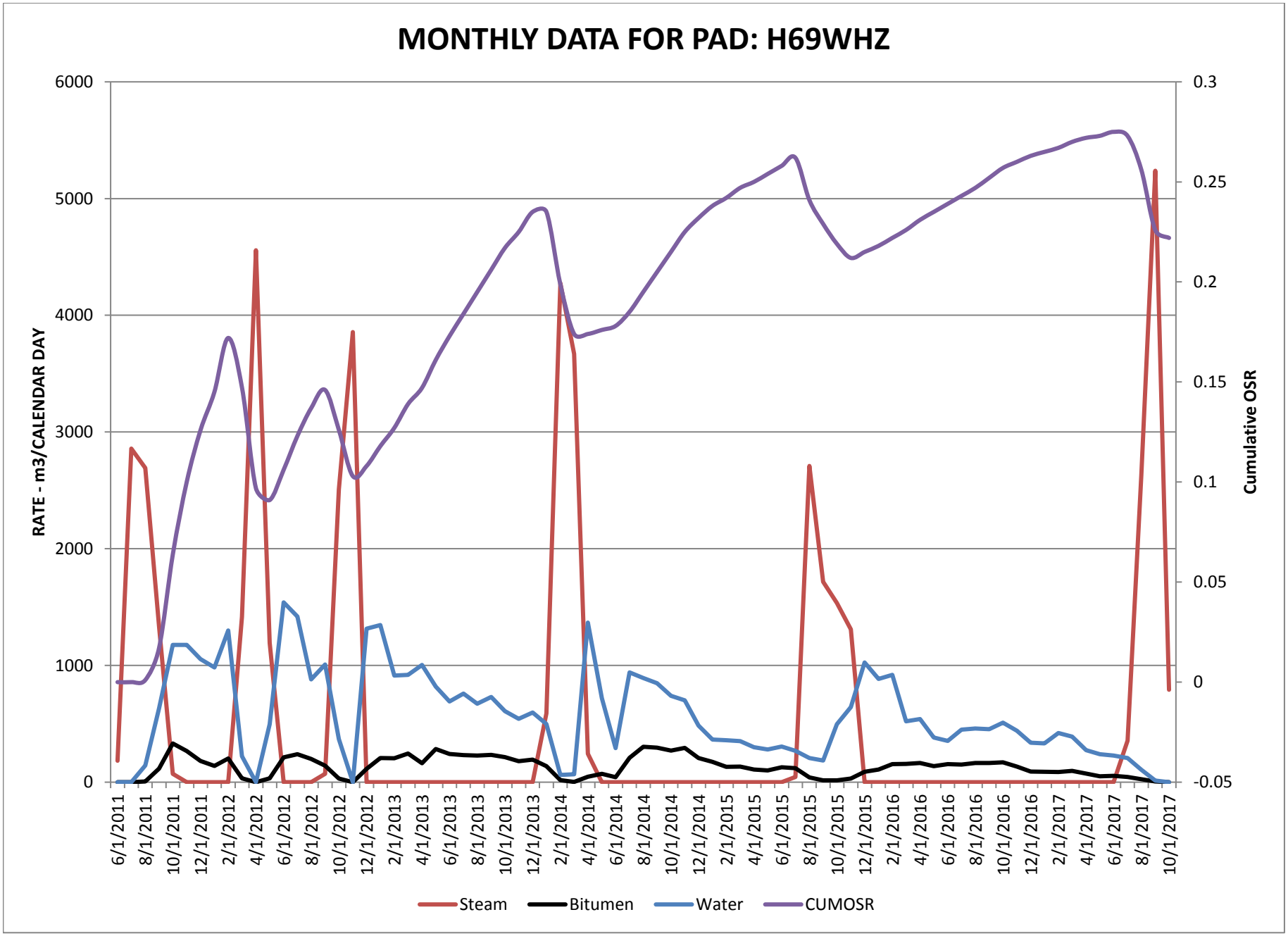
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: H69WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
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4/1/2013
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8/1/2013
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12/1/2013
2/1/2014
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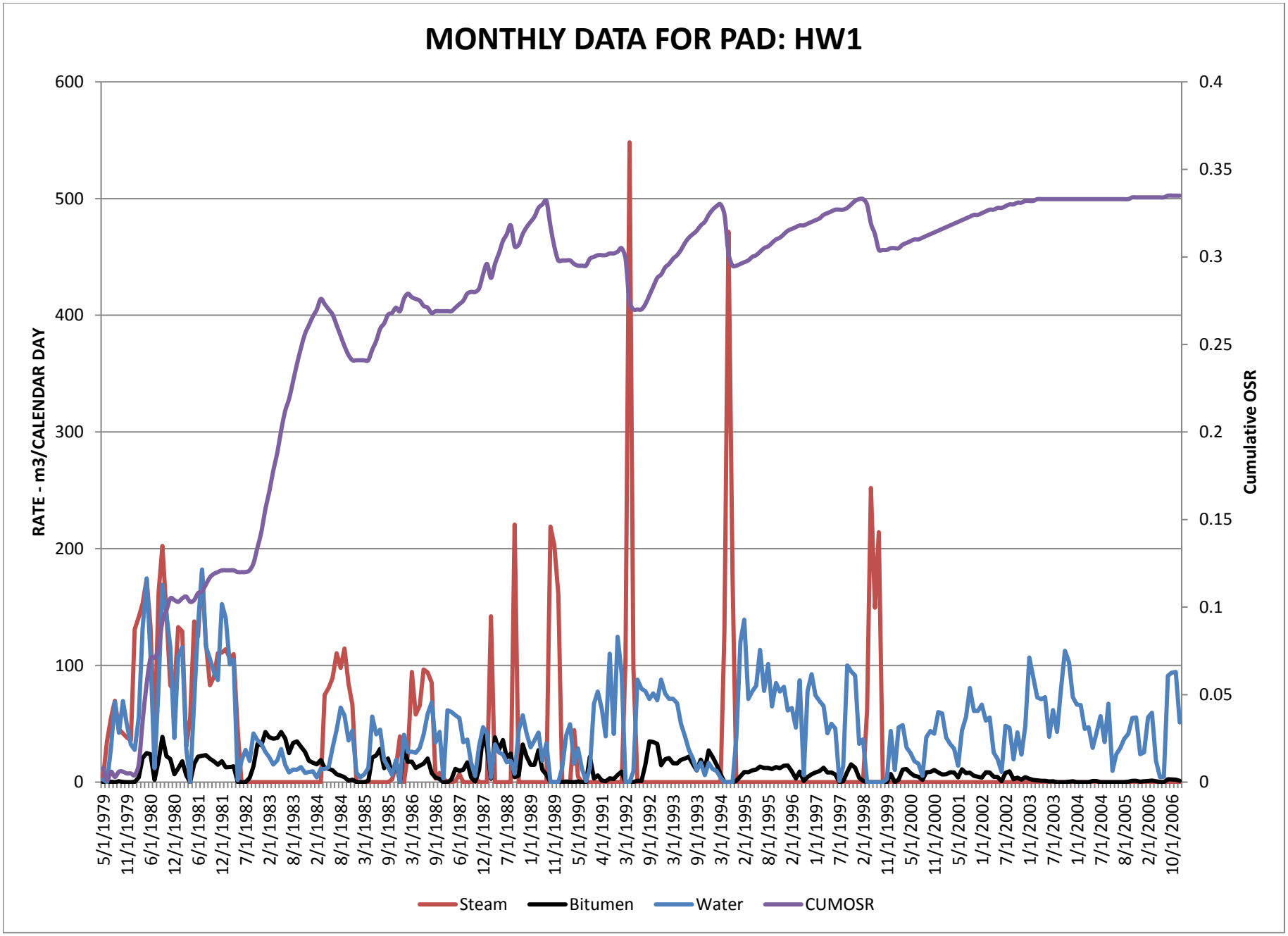
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: HW1
RATE - m3/CALENDAR DAY
Cumulative OSR
600
500
400
300
200
100
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/1979
11/1/1979
6/1/1980
12/1/1980
6/1/1981
12/1/1981
7/1/1982
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9/1/1985
3/1/1986
9/1/1986
6/1/1987
12/1/1987
7/1/1988
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11/1/1989
5/1/1990
4/1/1991
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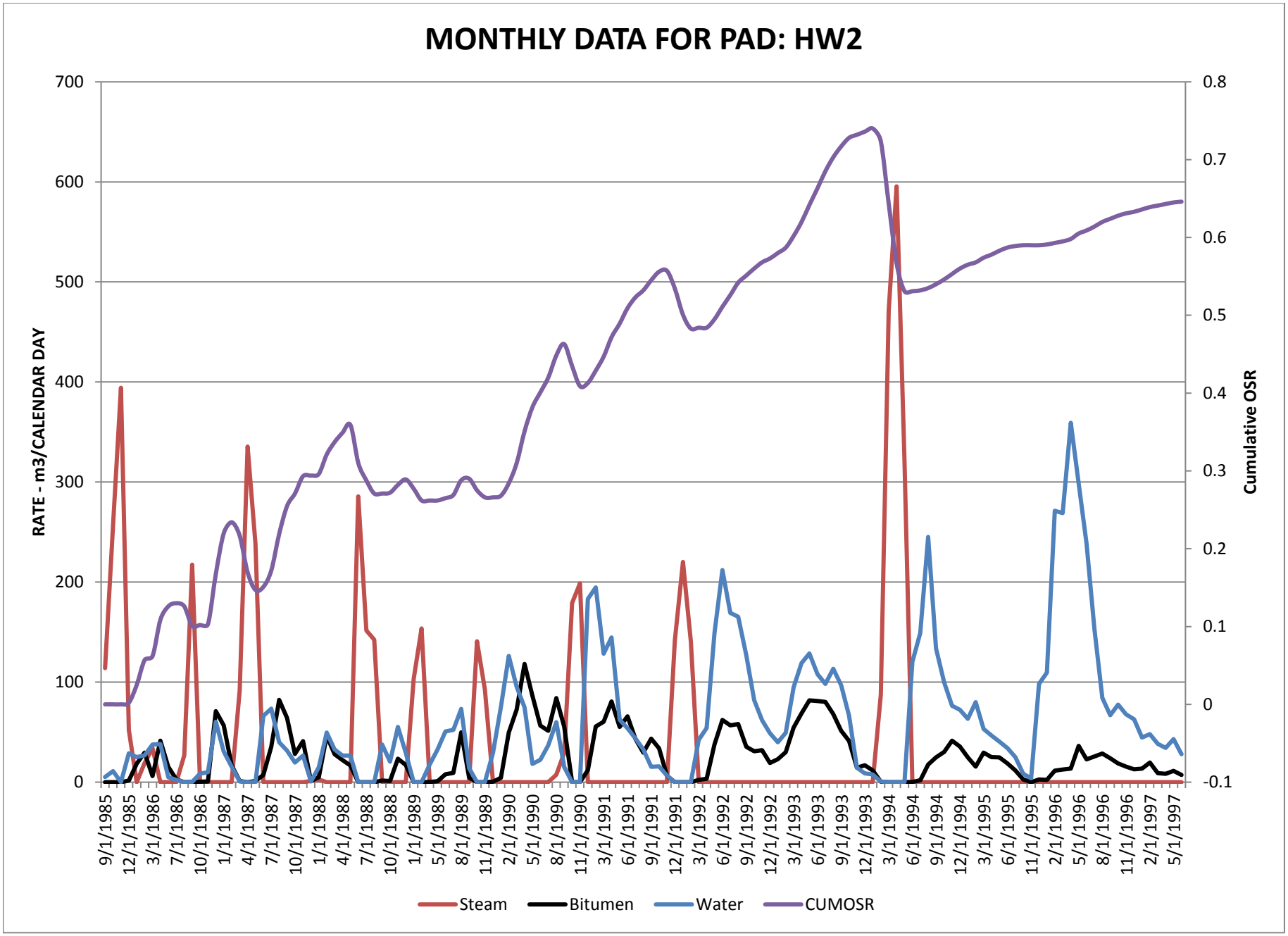
7/1/2002
1/1/2003
7/1/2003
1/1/2004
7/1/2004
8/1/2005
2/1/2006
10/1/2006
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: HW2
RATE - m3/CALENDAR DAY
Cumulative OSR
700
600
500
400
300
200
100
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
9/1/1985
12/1/1985
3/1/1986
7/1/1986
10/1/1986
1/1/1987
4/1/1987
7/1/1987
10/1/1987
1/1/1988
4/1/1988
7/1/1988
10/1/1988
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5/1/1989
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3/1/1991
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3/1/1993
6/1/1993
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12/1/1993
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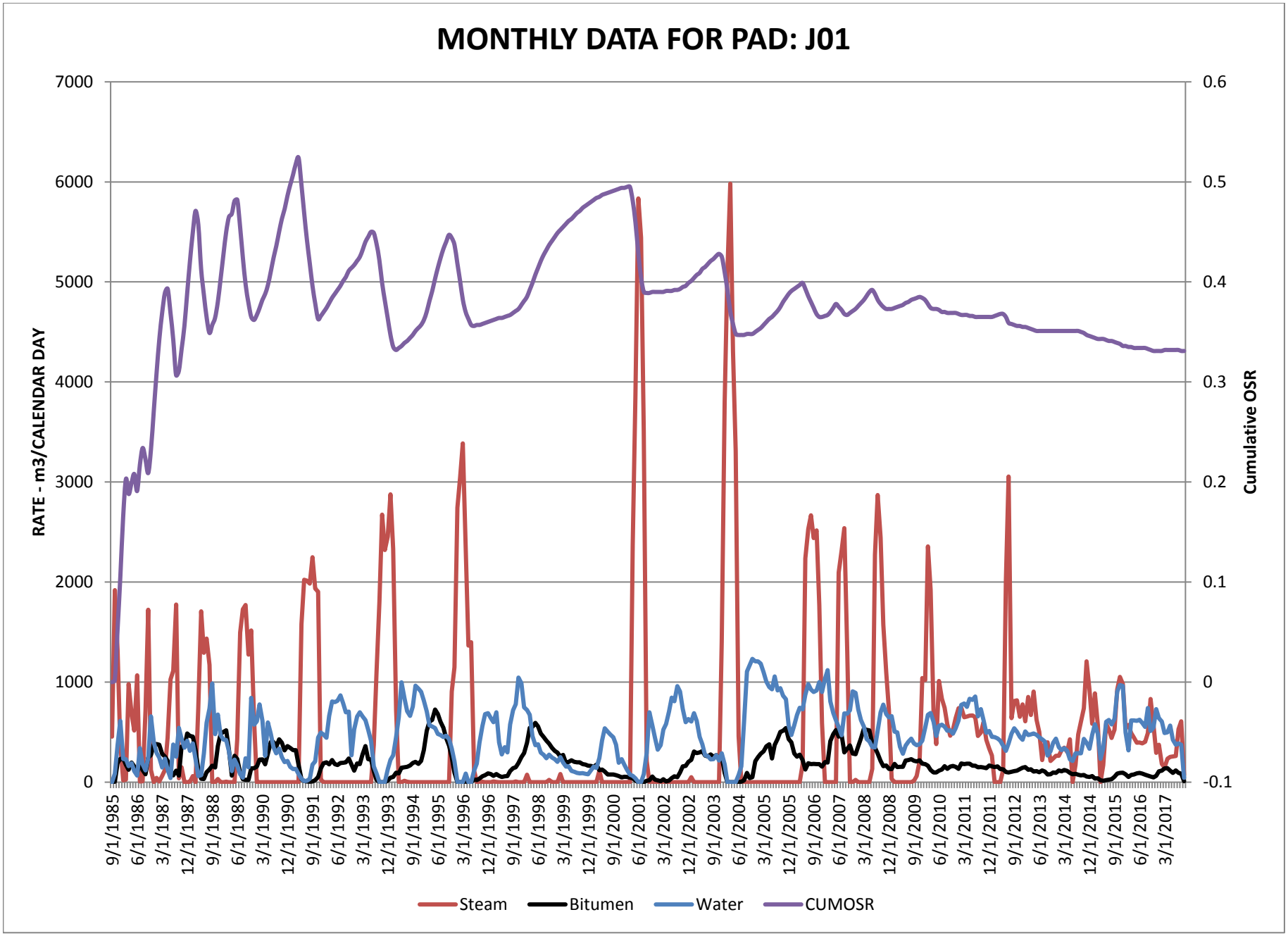
6/1/1994
9/1/1994
12/1/1994
3/1/1995
6/1/1995
11/1/1995
2/1/1996
5/1/1996
8/1/1996
11/1/1996
2/1/1997
5/1/1997
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J01
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
9/1/1985
6/1/1986
3/1/1987
12/1/1987
9/1/1988
6/1/1989
3/1/1990
12/1/1990
9/1/1991
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6/1/1998
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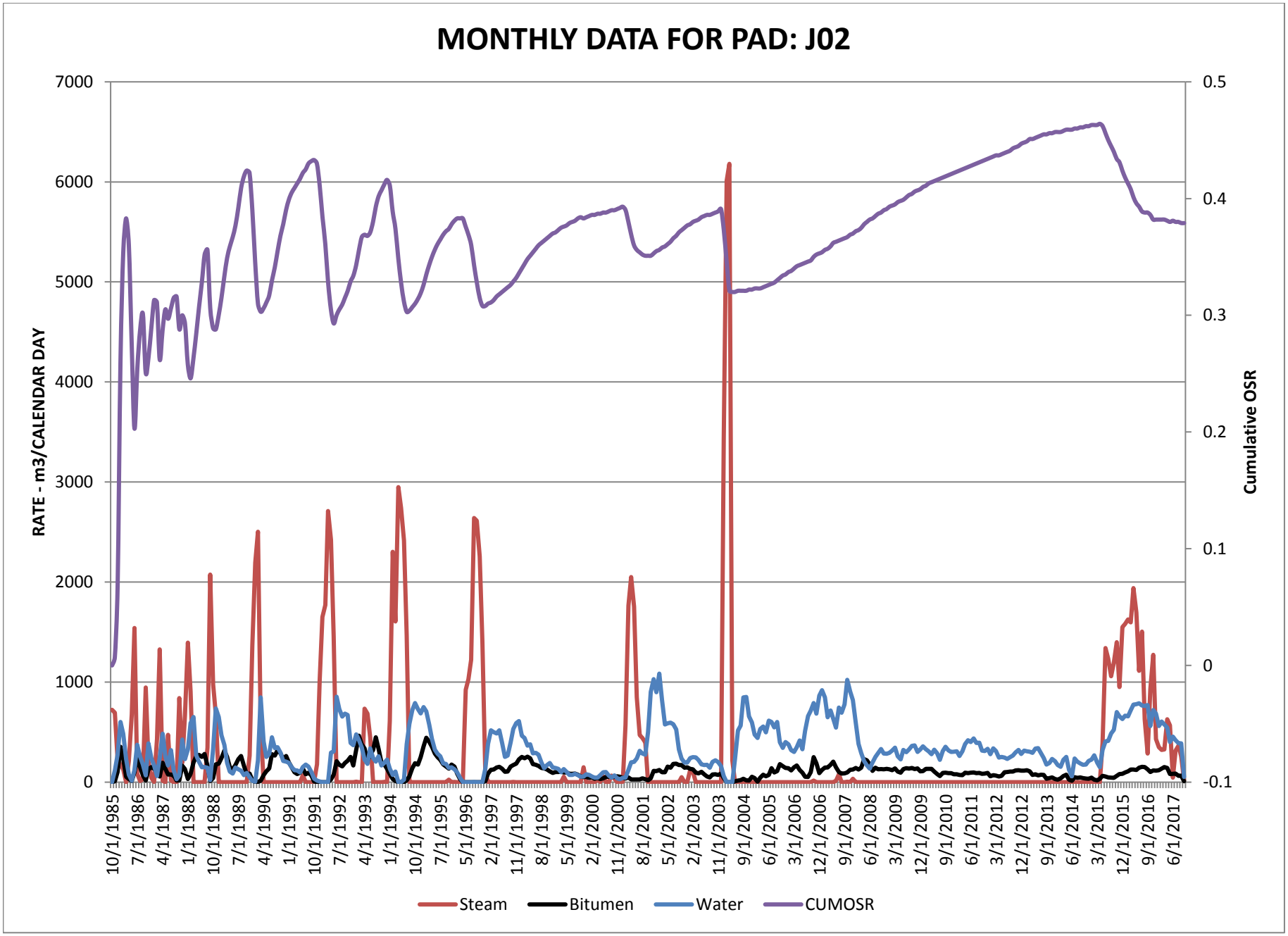
6/1/2010
3/1/2011
12/1/2011
9/1/2012
6/1/2013
3/1/2014
12/1/2014
9/1/2015
6/1/2016
3/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J02
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.5
0.4
0.3
0.2
0.1
0
-0.1
10/1/1985
7/1/1986
4/1/1987
1/1/1988
10/1/1988
7/1/1989
4/1/1990
1/1/1991
10/1/1991
7/1/1992
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2/1/1997
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8/1/1998
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2/1/2000
11/1/2000
8/1/2001
5/1/2002
2/1/2003
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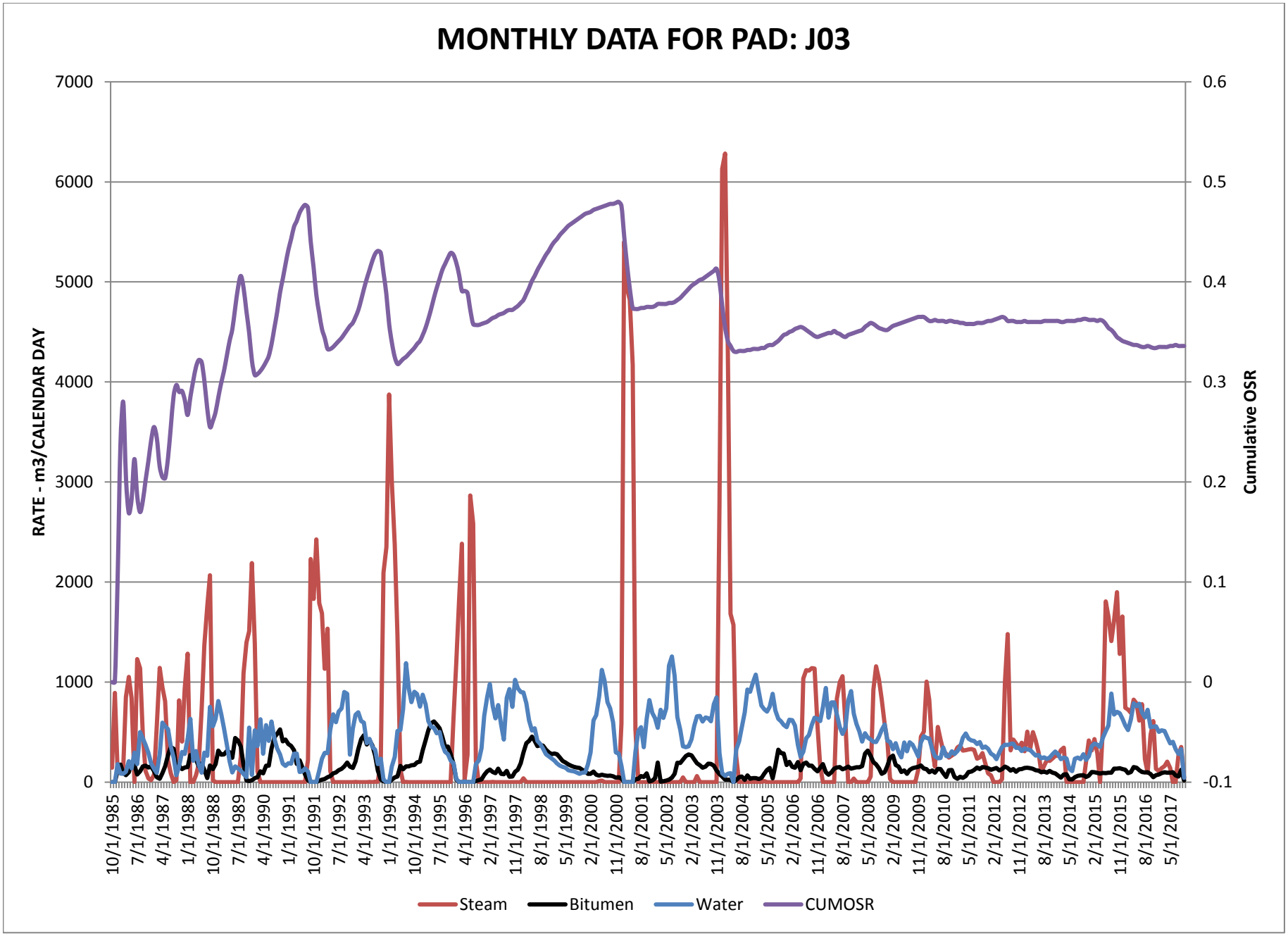
6/1/2011
3/1/2012
12/1/2012
9/1/2013
6/1/2014
3/1/2015
12/1/2015
9/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J03
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
10/1/1985
7/1/1986
4/1/1987
1/1/1988
10/1/1988
7/1/1989
4/1/1990
1/1/1991
10/1/1991
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4/1/1993
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11/1/1997
8/1/1998
5/1/1999
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8/1/2001
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8/1/2007
5/1/2008
2/1/2009
11/1/2009
8/1/2010
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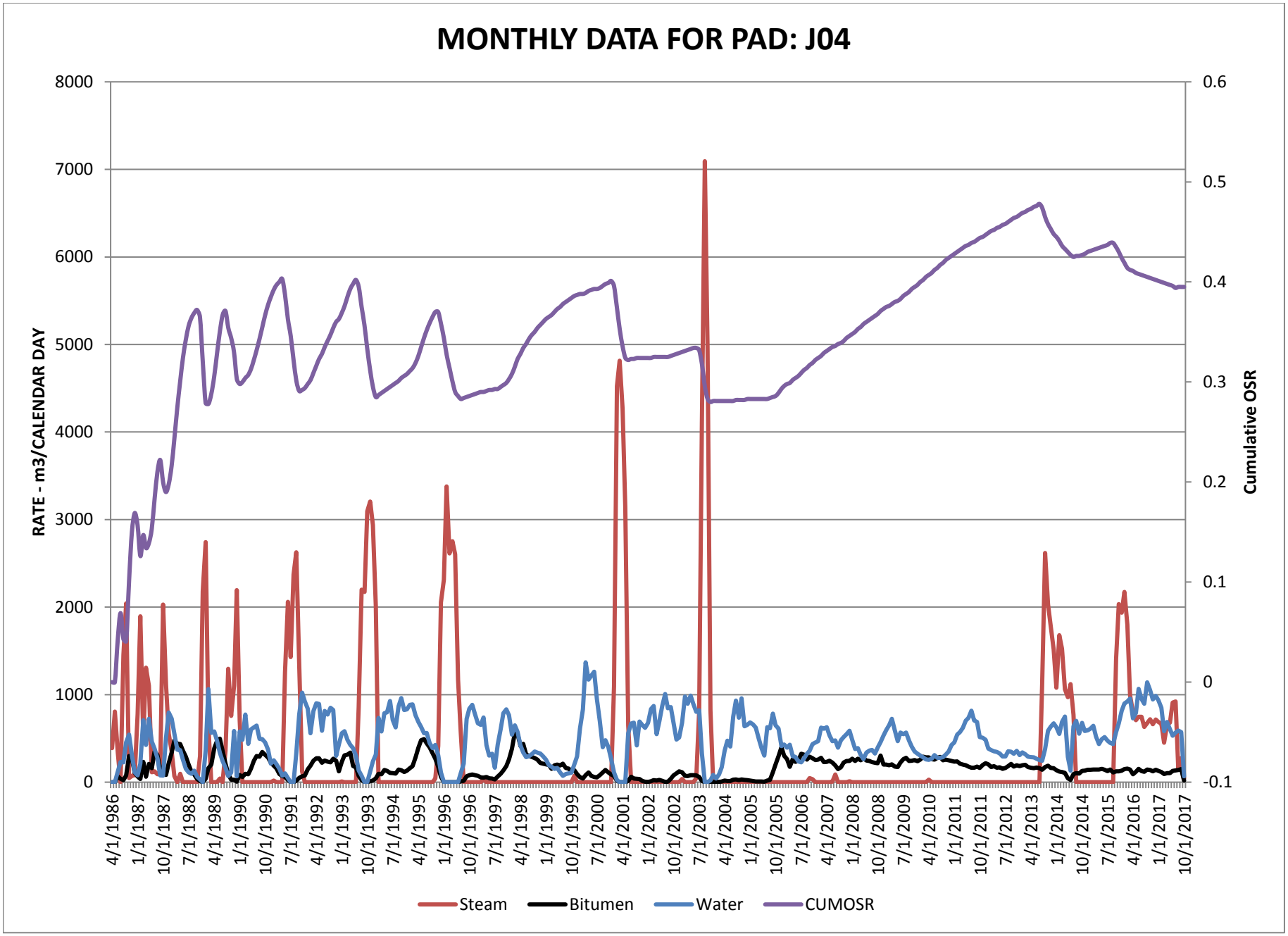
2/1/2012
11/1/2012
8/1/2013
5/1/2014
2/1/2015
11/1/2015
8/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J04
RATE - m3/CALENDAR DAY
Cumulative OSR
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7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
4/1/1986
1/1/1987
10/1/1987
7/1/1988
4/1/1989
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7/1/1997
4/1/1998
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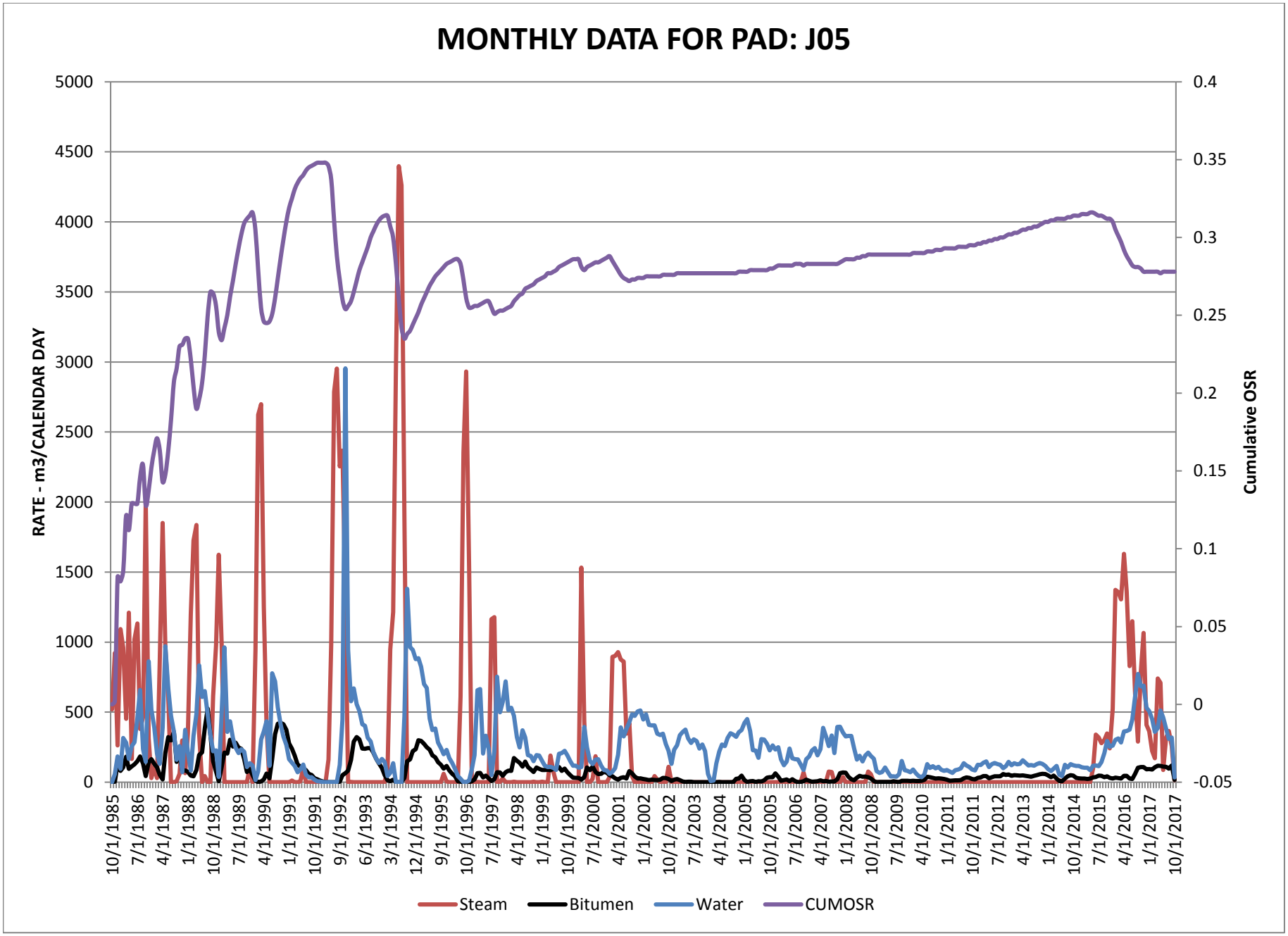
7/1/2000
4/1/2001
1/1/2002
10/1/2002
7/1/2003
4/1/2004
1/1/2005
10/1/2005
7/1/2006
4/1/2007
1/1/2008
10/1/2008
7/1/2009
4/1/2010
1/1/2011
10/1/2011
7/1/2012
4/1/2013
1/1/2014
10/1/2014
7/1/2015
4/1/2016
1/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J05
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/1985
7/1/1986
4/1/1987
1/1/1988
10/1/1988
7/1/1989
4/1/1990
1/1/1991
10/1/1991
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10/1/1996
7/1/1997
4/1/1998
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10/1/1999
7/1/2000
4/1/2001
1/1/2002
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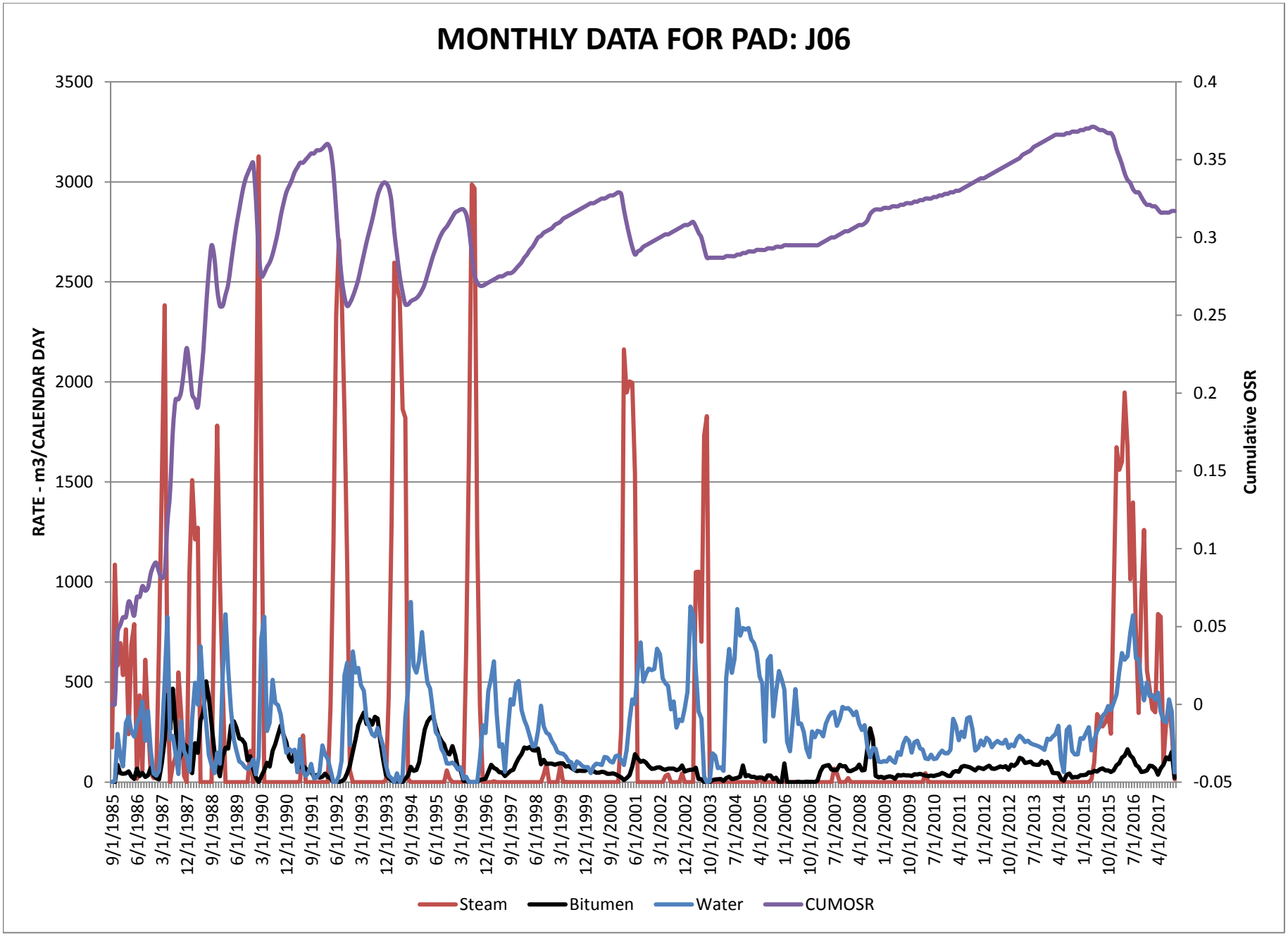
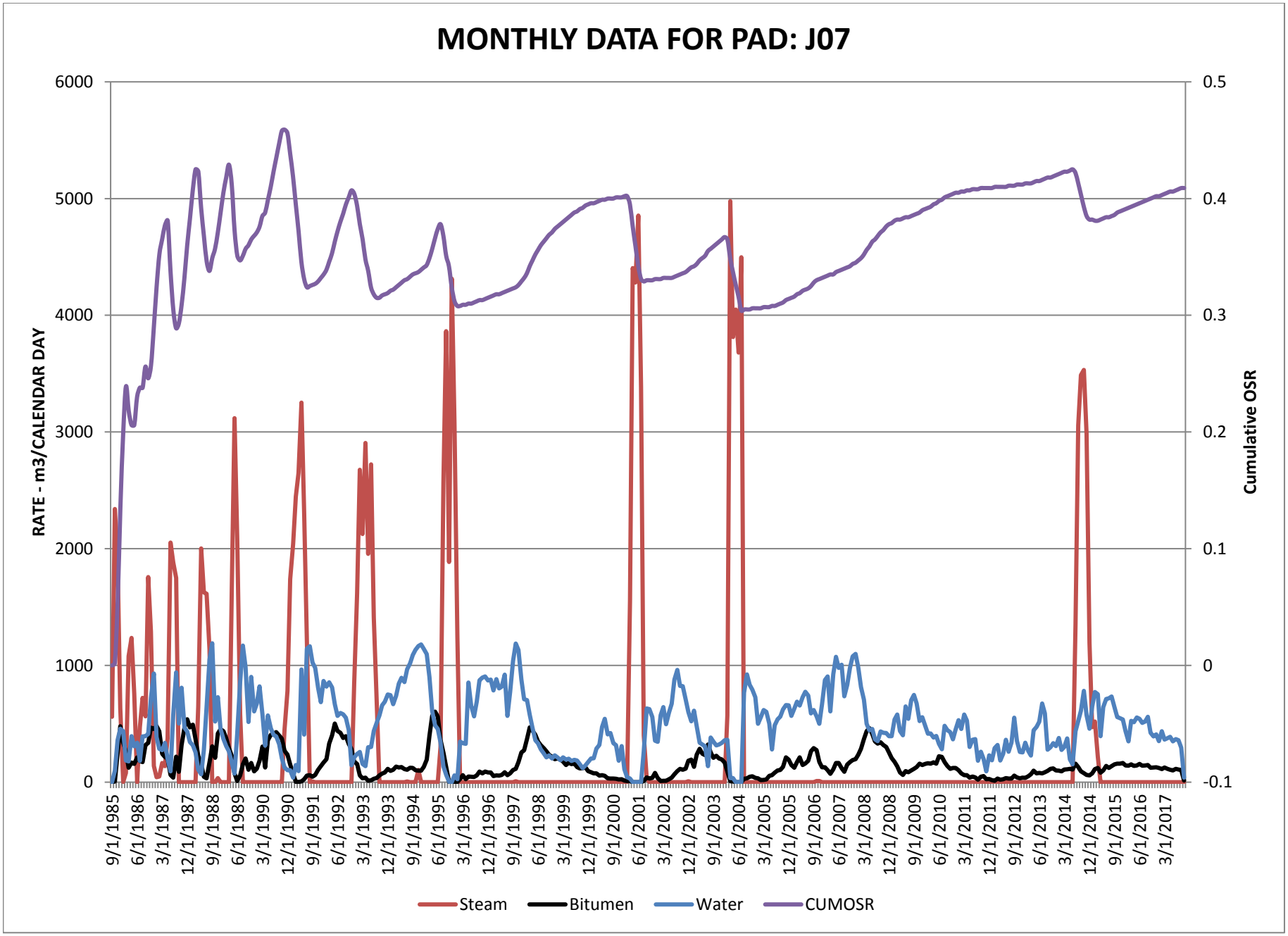
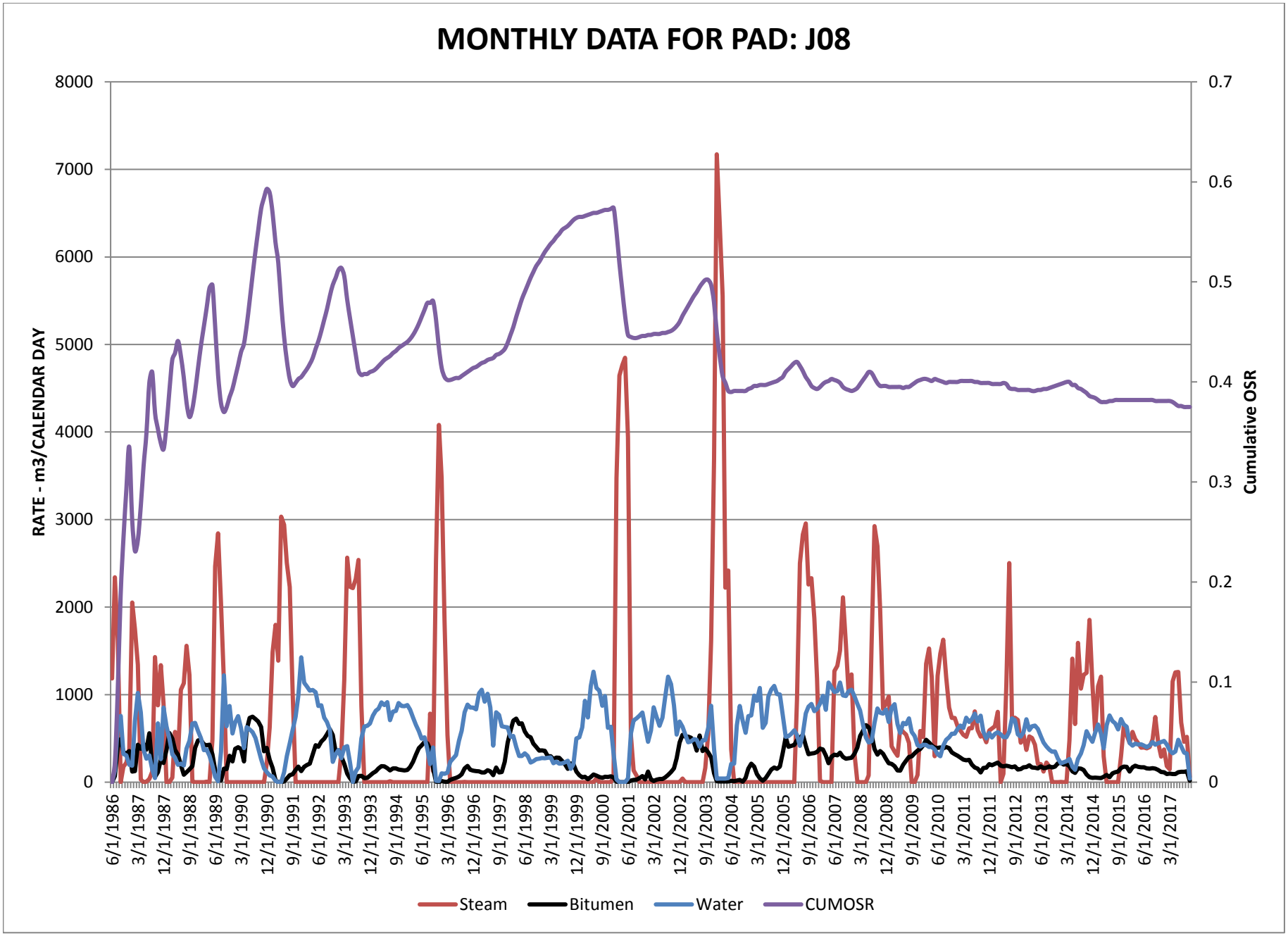
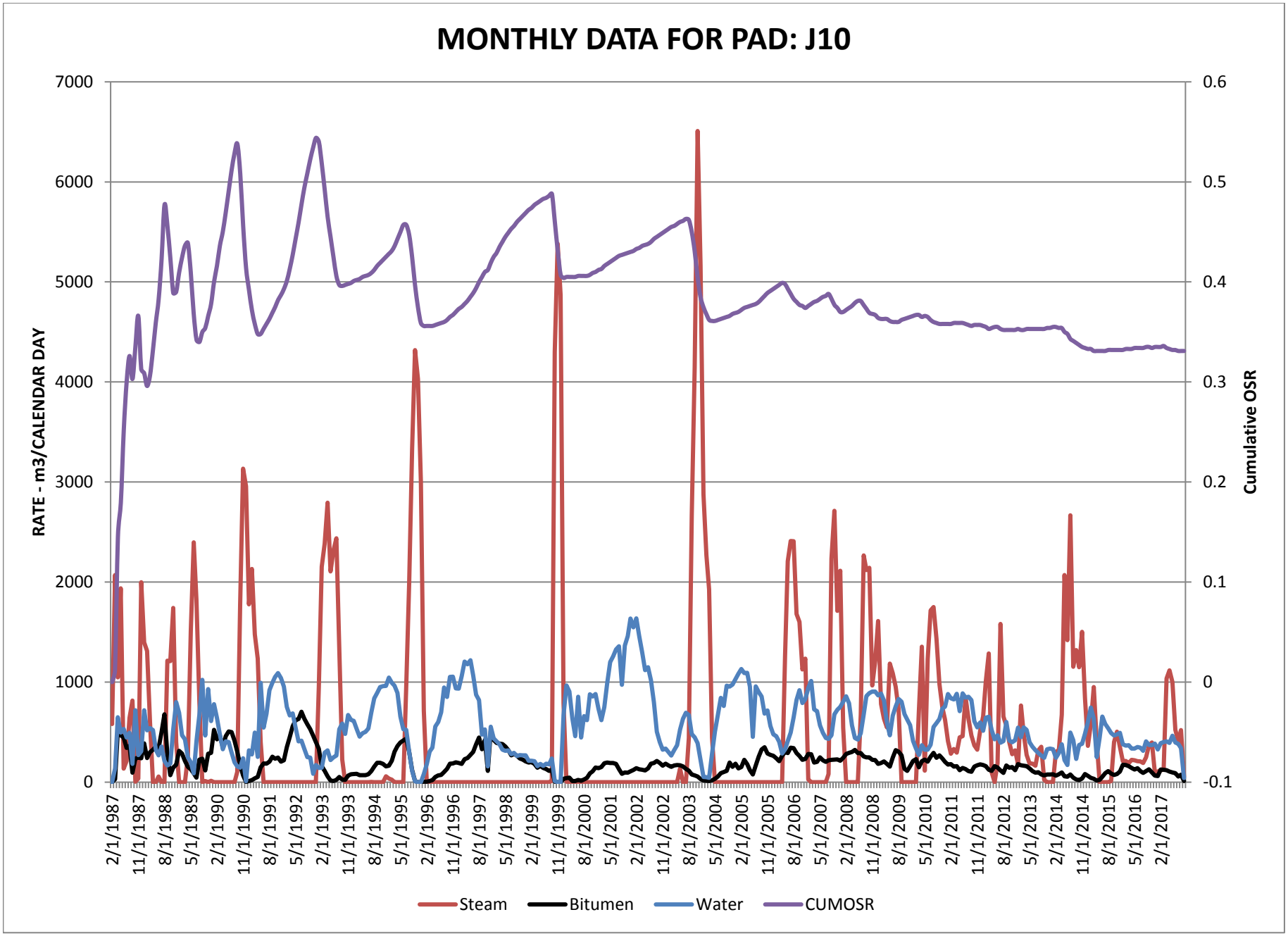
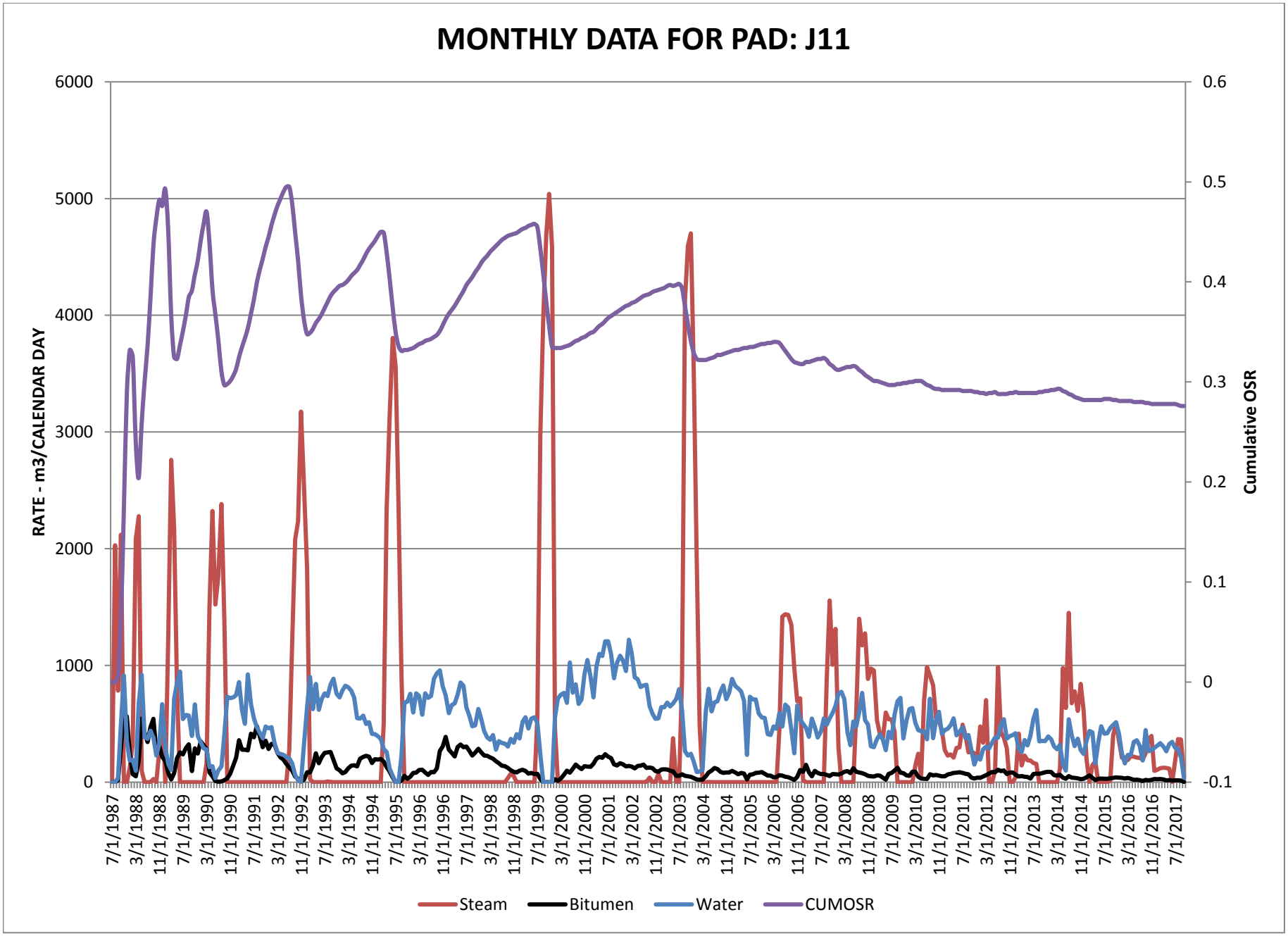
7/1/2003
4/1/2004
1/1/2005
10/1/2005
7/1/2006
4/1/2007
1/1/2008
10/1/2008
7/1/2009
4/1/2010
1/1/2011
10/1/2011
7/1/2012
4/1/2013
1/1/2014
10/1/2014
7/1/2015
4/1/2016
1/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J06
RATE - m3/CALENDAR DAY
Cumulative OSR
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
9/1/1985
6/1/1986
3/1/1987
12/1/1987
9/1/1988
6/1/1989
3/1/1990
12/1/1990
9/1/1991
6/1/1992
3/1/1993
12/1/1993
9/1/1994
6/1/1995
3/1/1996
12/1/1996
9/1/1997
6/1/1998
3/1/1999
12/1/1999
9/1/2000
6/1/2001
3/1/2002
12/1/2002
10/1/2003
7/1/2004
4/1/2005
1/1/2006
10/1/2006
7/1/2007
4/1/2008
1/1/2009
10/1/2009
7/1/2010
4/1/2011
1/1/2012
10/1/2012
7/1/2013
4/1/2014
1/1/2015
10/1/2015
7/1/2016
4/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J07
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.5
0.4
0.3
0.2
0.1
0
-0.1
9/1/1985
6/1/1986
3/1/1987
12/1/1987
9/1/1988
6/1/1989
3/1/1990
12/1/1990
9/1/1991
6/1/1992
3/1/1993
12/1/1993
9/1/1994
6/1/1995
3/1/1996
12/1/1996
9/1/1997
6/1/1998
3/1/1999
12/1/1999
9/1/2000
6/1/2001
3/1/2002
12/1/2002
9/1/2003
6/1/2004
3/1/2005
12/1/2005
9/1/2006
6/1/2007
3/1/2008
12/1/2008
9/1/2009
6/1/2010
3/1/2011
12/1/2011
9/1/2012
6/1/2013
3/1/2014
12/1/2014
9/1/2015
6/1/2016
3/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J08
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6/1/1986
3/1/1987
12/1/1987
9/1/1988
6/1/1989
3/1/1990
12/1/1990
9/1/1991
6/1/1992
3/1/1993
12/1/1993
9/1/1994
6/1/1995
3/1/1996
12/1/1996
9/1/1997
6/1/1998
3/1/1999
12/1/1999
9/1/2000
6/1/2001
3/1/2002
12/1/2002
9/1/2003
6/1/2004
3/1/2005
12/1/2005
9/1/2006
6/1/2007
3/1/2008
12/1/2008
9/1/2009
6/1/2010
3/1/2011
12/1/2011
9/1/2012
6/1/2013
3/1/2014
12/1/2014
9/1/2015
6/1/2016
3/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J10
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
2/1/1987
11/1/1987
8/1/1988
5/1/1989
2/1/1990
11/1/1990
8/1/1991
5/1/1992
2/1/1993
11/1/1993
8/1/1994
5/1/1995
2/1/1996
11/1/1996
8/1/1997
5/1/1998
2/1/1999
11/1/1999
8/1/2000
5/1/2001
2/1/2002
11/1/2002
8/1/2003
5/1/2004
2/1/2005
11/1/2005
8/1/2006
5/1/2007
2/1/2008
11/1/2008
8/1/2009
5/1/2010
2/1/2011
11/1/2011
8/1/2012
5/1/2013
2/1/2014
11/1/2014
8/1/2015
5/1/2016
2/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J11
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
7/1/1987
3/1/1988
11/1/1988
7/1/1989
3/1/1990
11/1/1990
7/1/1991
3/1/1992
11/1/1992
7/1/1993
3/1/1994
11/1/1994
7/1/1995
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7/1/1997
3/1/1998
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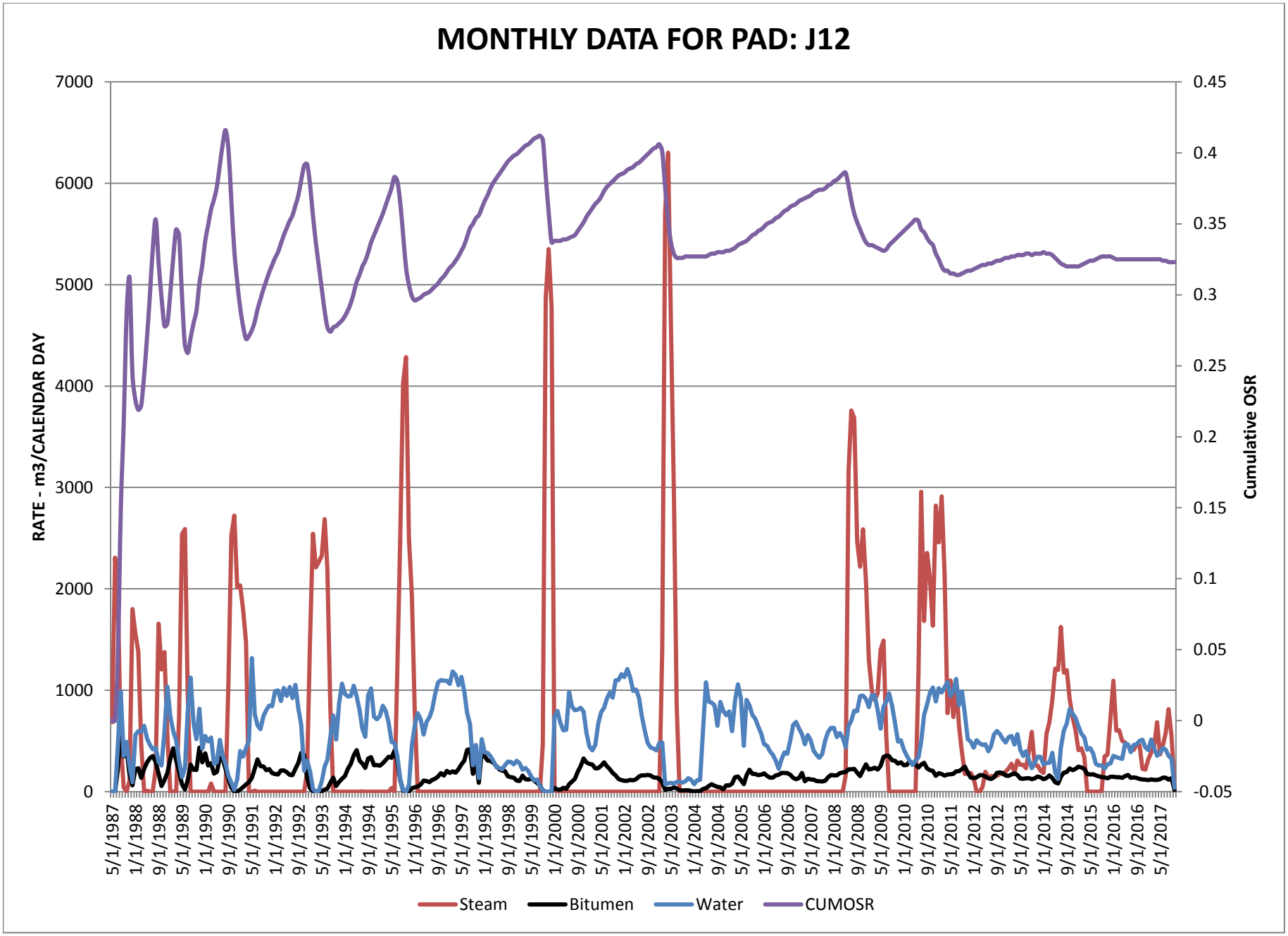
7/1/1999
3/1/2000
11/1/2000
7/1/2001
3/1/2002
11/1/2002
7/1/2003
3/1/2004
11/1/2004
7/1/2005
3/1/2006
11/1/2006
7/1/2007
3/1/2008
11/1/2008
7/1/2009
3/1/2010
11/1/2010
7/1/2011
3/1/2012
11/1/2012
7/1/2013
3/1/2014
11/1/2014
7/1/2015
3/1/2016
11/1/2016
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J12
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1987
1/1/1988
9/1/1988
5/1/1989
1/1/1990
9/1/1990
5/1/1991
1/1/1992
9/1/1992
5/1/1993
1/1/1994
9/1/1994
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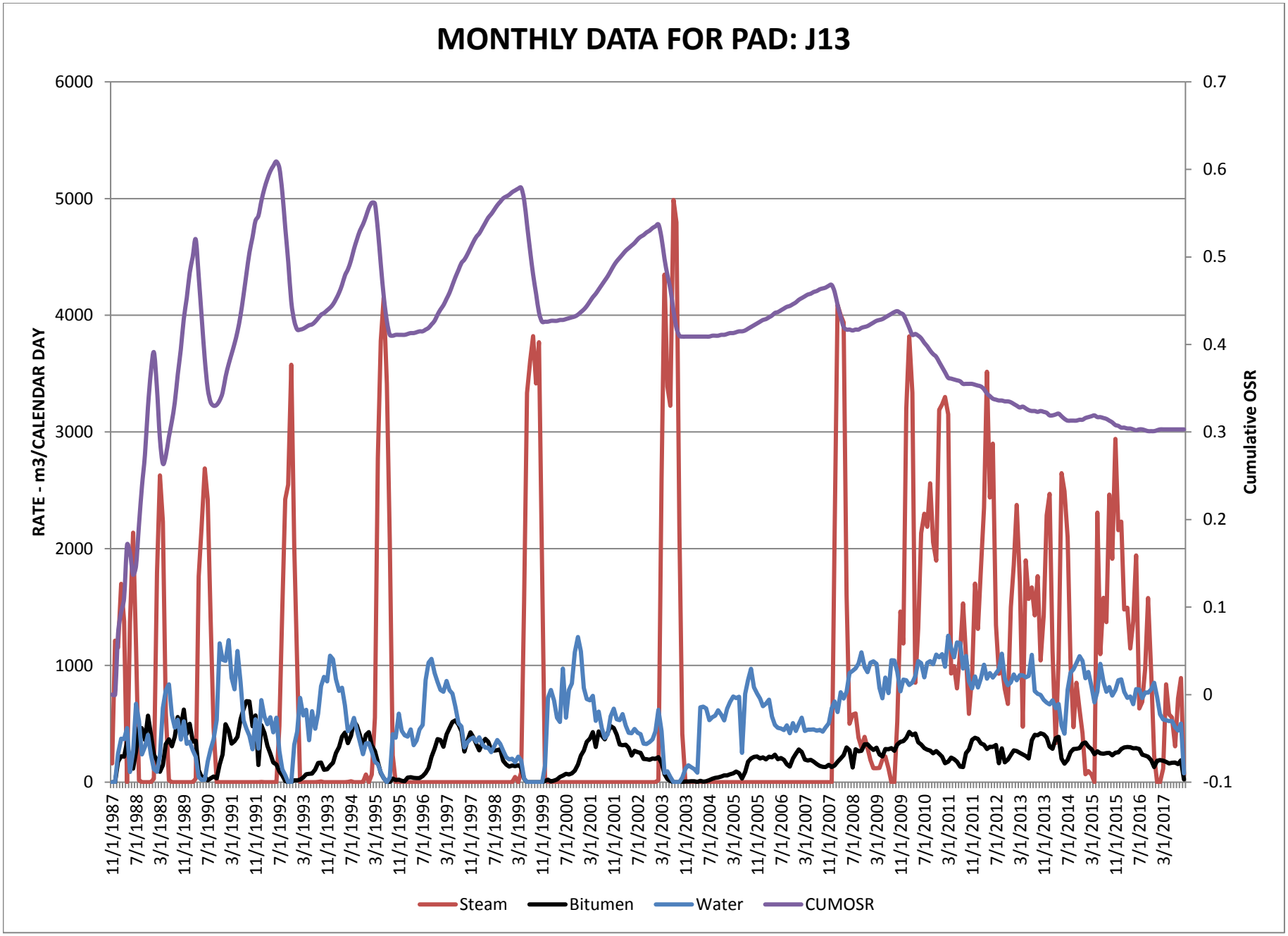
5/1/2011
1/1/2012
9/1/2012
5/1/2013
1/1/2014
9/1/2014
5/1/2015
1/1/2016
9/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J13
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
11/1/1987
7/1/1988
3/1/1989
11/1/1989
7/1/1990
3/1/1991
11/1/1991
7/1/1992
3/1/1993
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7/1/2006
3/1/2007
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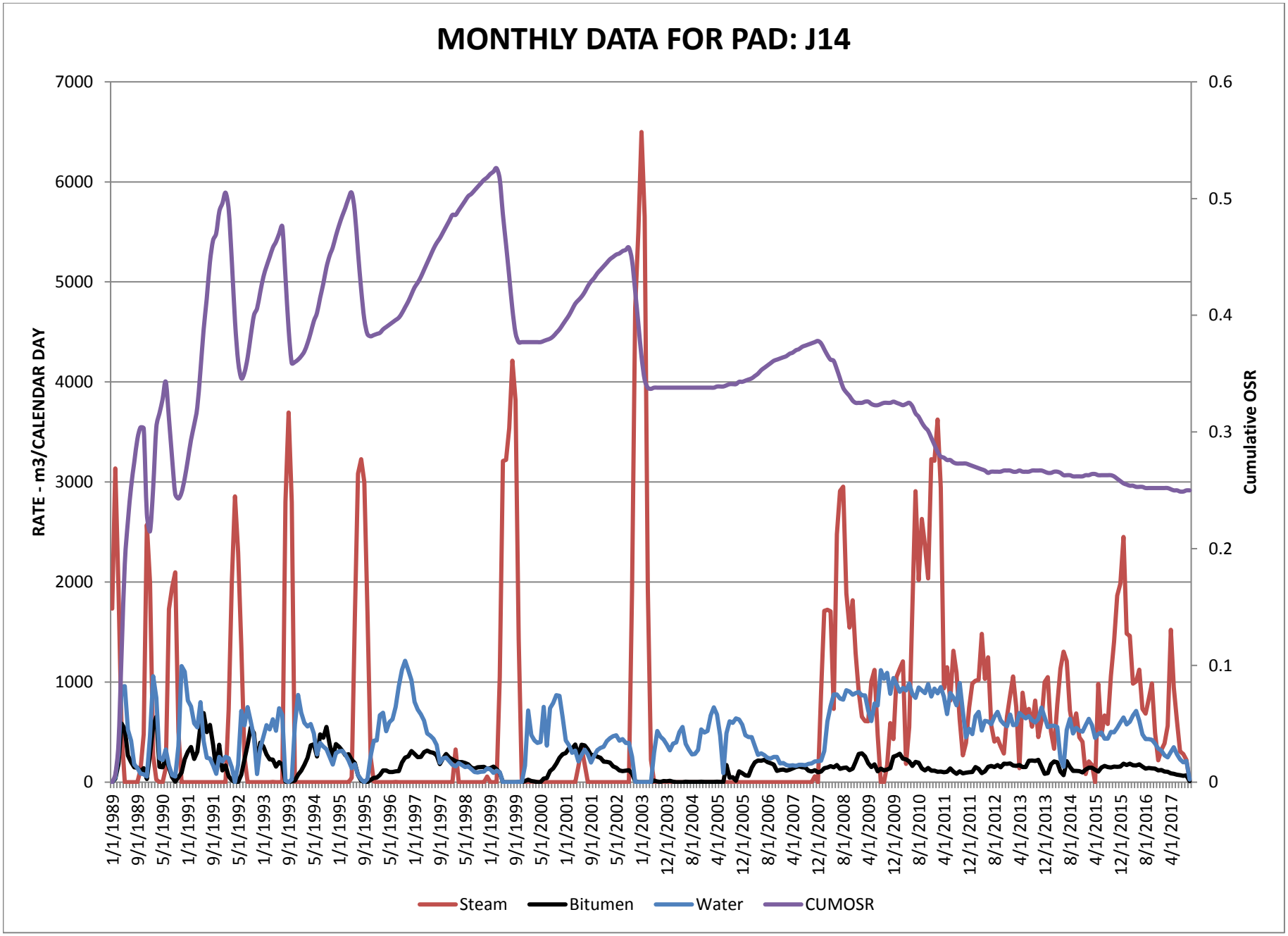
11/1/2011
7/1/2012
3/1/2013
11/1/2013
7/1/2014
3/1/2015
11/1/2015
7/1/2016
3/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J14
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/1989
9/1/1989
5/1/1990
1/1/1991
9/1/1991
5/1/1992
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9/1/1993
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12/1/2003
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12/1/2005
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8/1/2008
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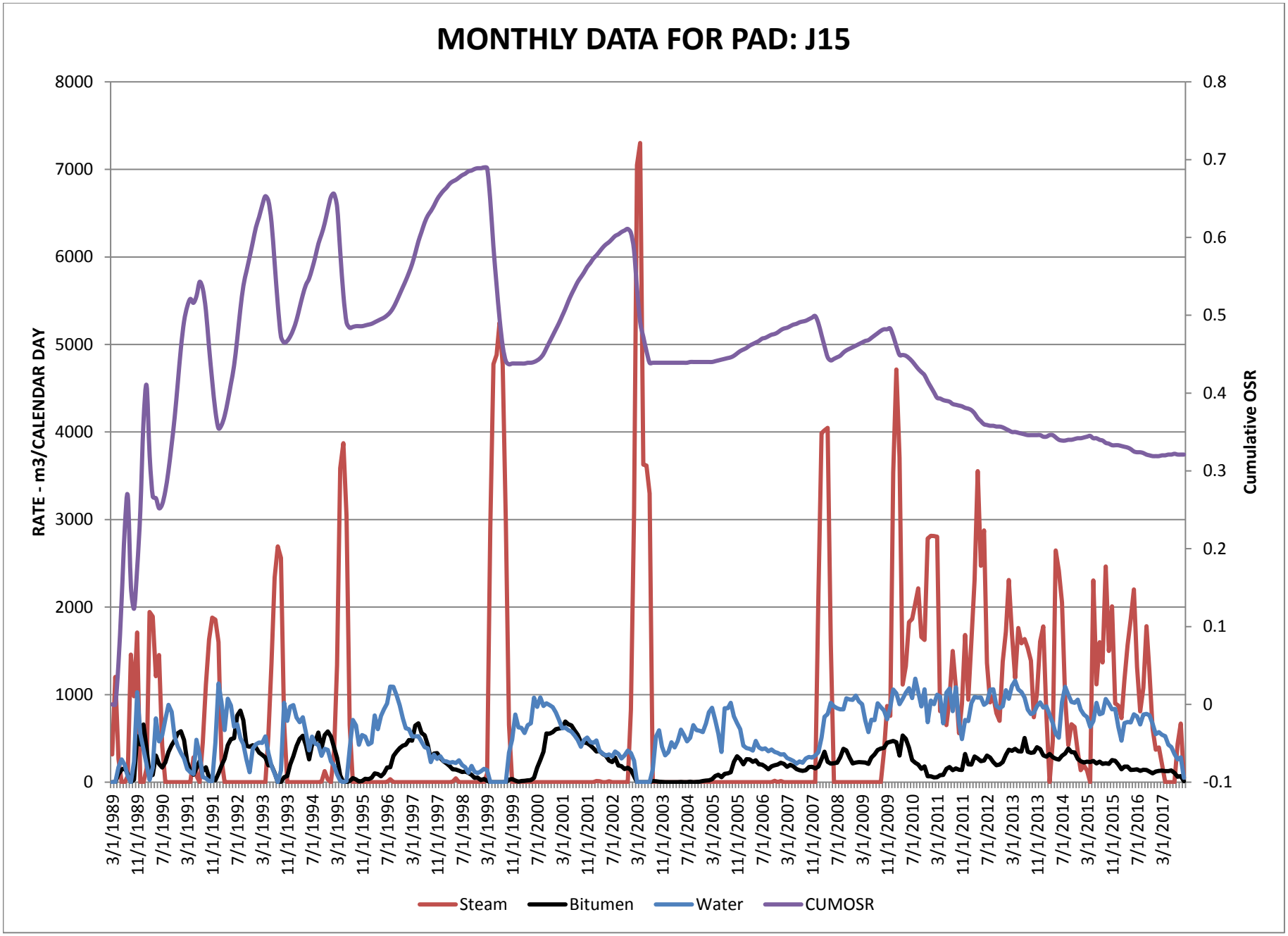
12/1/2009
8/1/2010
4/1/2011
12/1/2011
8/1/2012
4/1/2013
12/1/2013
8/1/2014
4/1/2015
12/1/2015
8/1/2016
4/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J15
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
3/1/1989
11/1/1989
7/1/1990
3/1/1991
11/1/1991
7/1/1992
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7/1/1994
3/1/1995
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7/1/1996
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7/1/2004
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3/1/2007
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7/1/2008
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7/1/2010
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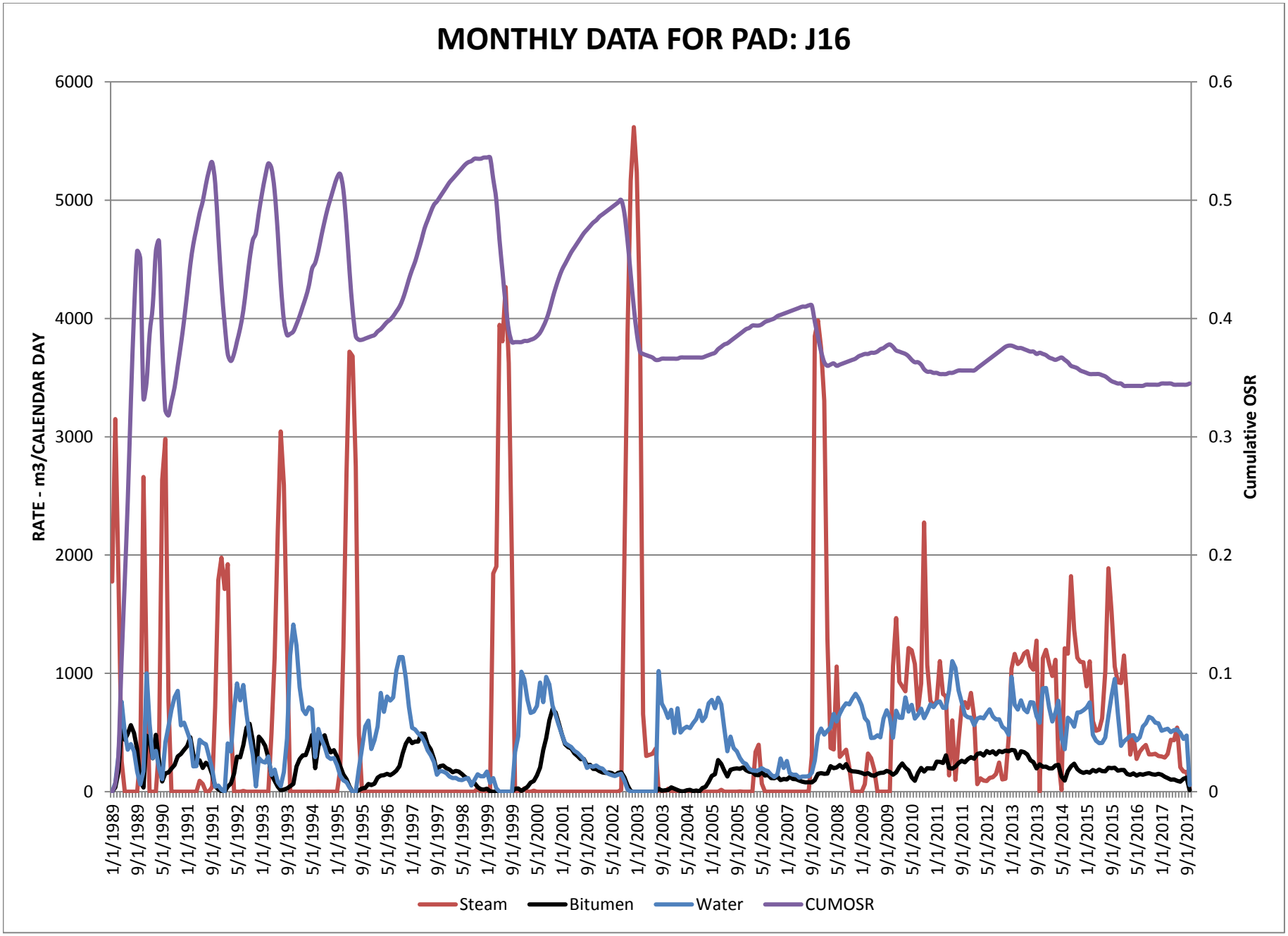
11/1/2011
7/1/2012
3/1/2013
11/1/2013
7/1/2014
3/1/2015
11/1/2015
7/1/2016
3/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J16
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/1989
9/1/1989
5/1/1990
1/1/1991
9/1/1991
5/1/1992
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9/1/1993
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5/1/1996
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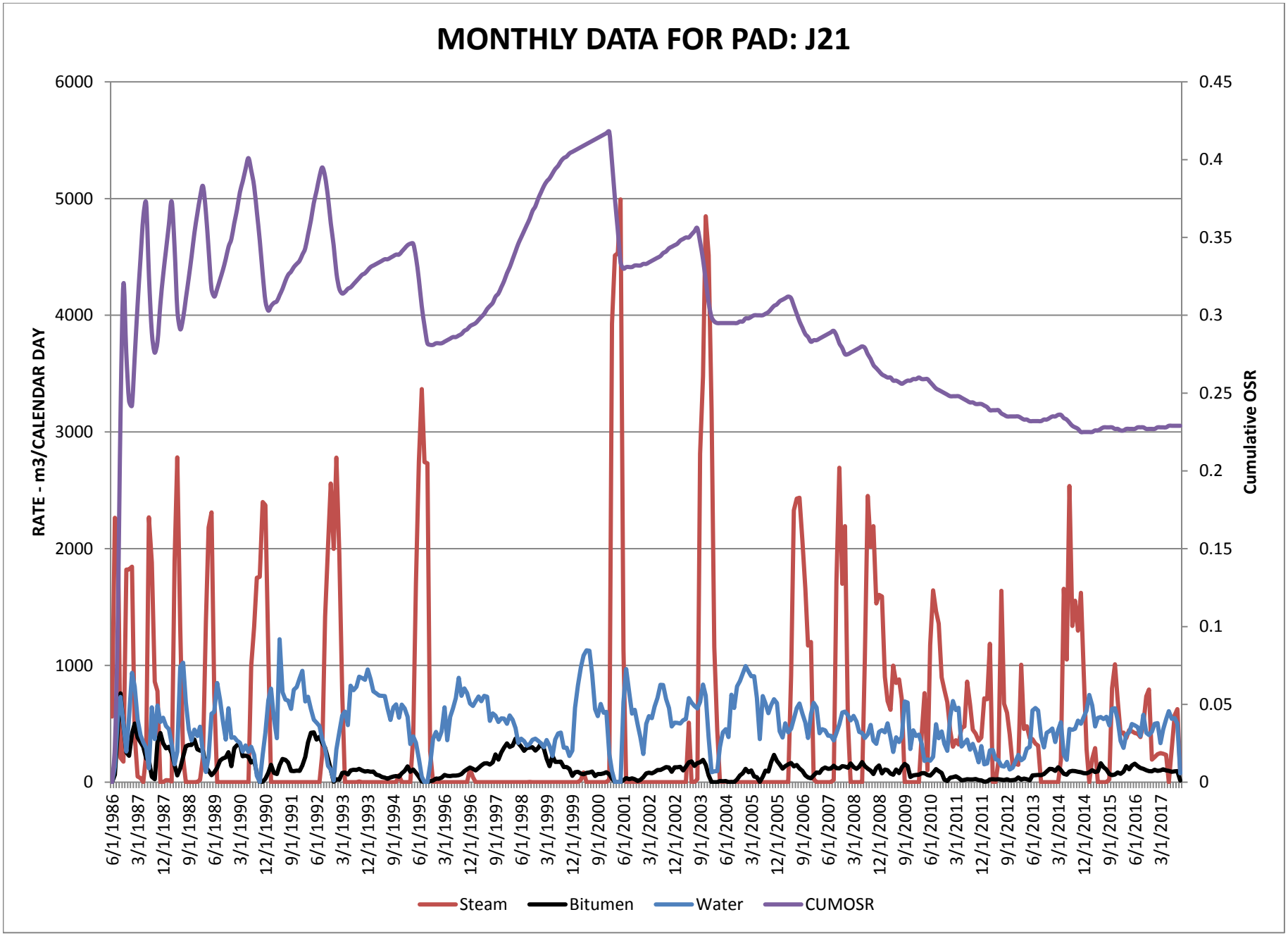
9/1/2011
5/1/2012
1/1/2013
9/1/2013
5/1/2014
1/1/2015
9/1/2015
5/1/2016
1/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J21
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/1/1986
3/1/1987
12/1/1987
9/1/1988
6/1/1989
3/1/1990
12/1/1990
9/1/1991
6/1/1992
3/1/1993
12/1/1993
9/1/1994
6/1/1995
3/1/1996
12/1/1996
9/1/1997
6/1/1998
3/1/1999
12/1/1999
9/1/2000
6/1/2001
3/1/2002
12/1/2002
9/1/2003
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12/1/2005
9/1/2006
6/1/2007
3/1/2008
12/1/2008
9/1/2009
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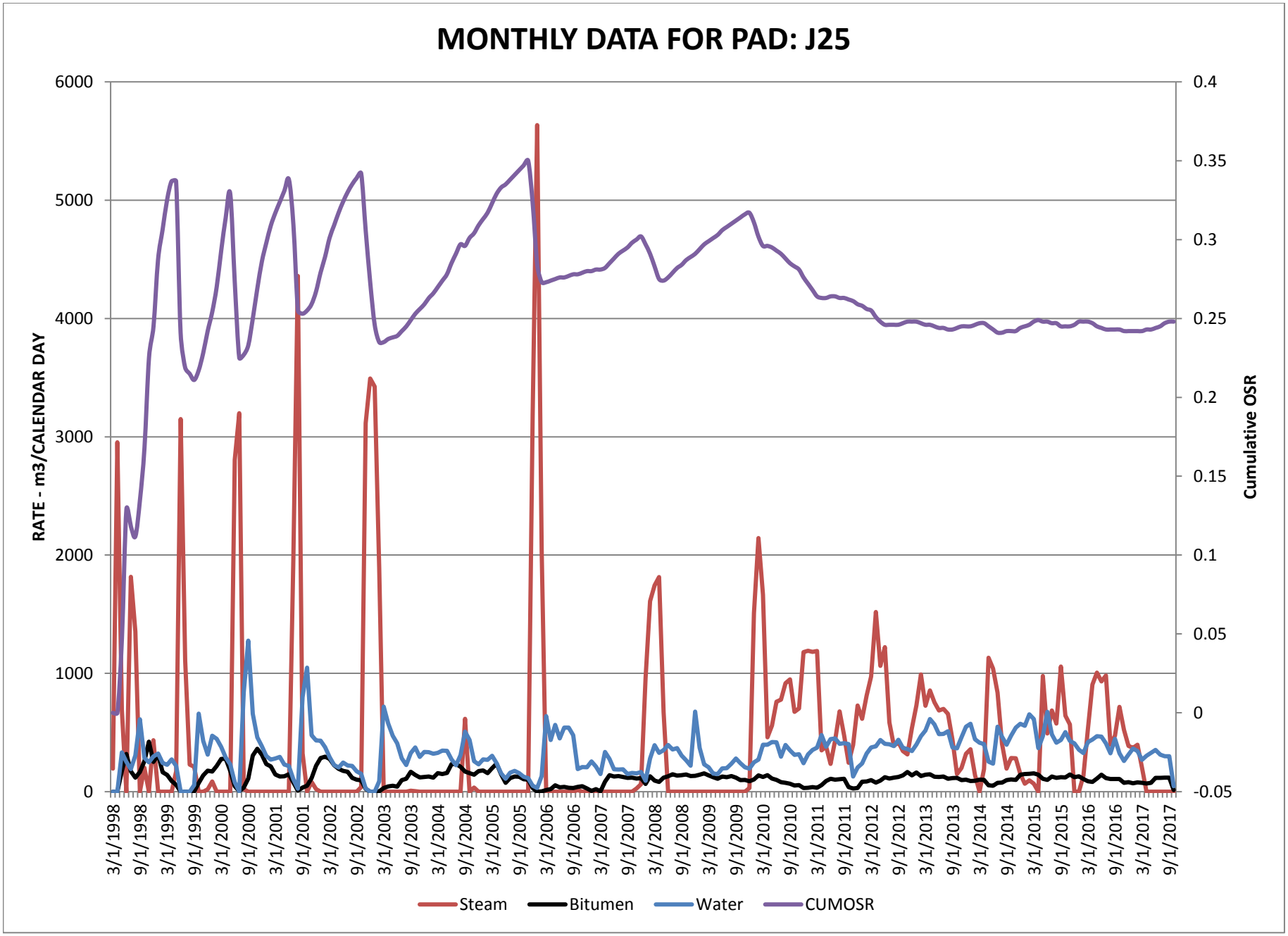
3/1/2011
12/1/2011
9/1/2012
6/1/2013
3/1/2014
12/1/2014
9/1/2015
6/1/2016
3/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J25
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/1998
9/1/1998
3/1/1999
9/1/1999
3/1/2000
9/1/2000
3/1/2001
9/1/2001
3/1/2002
9/1/2002
3/1/2003
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3/1/2010
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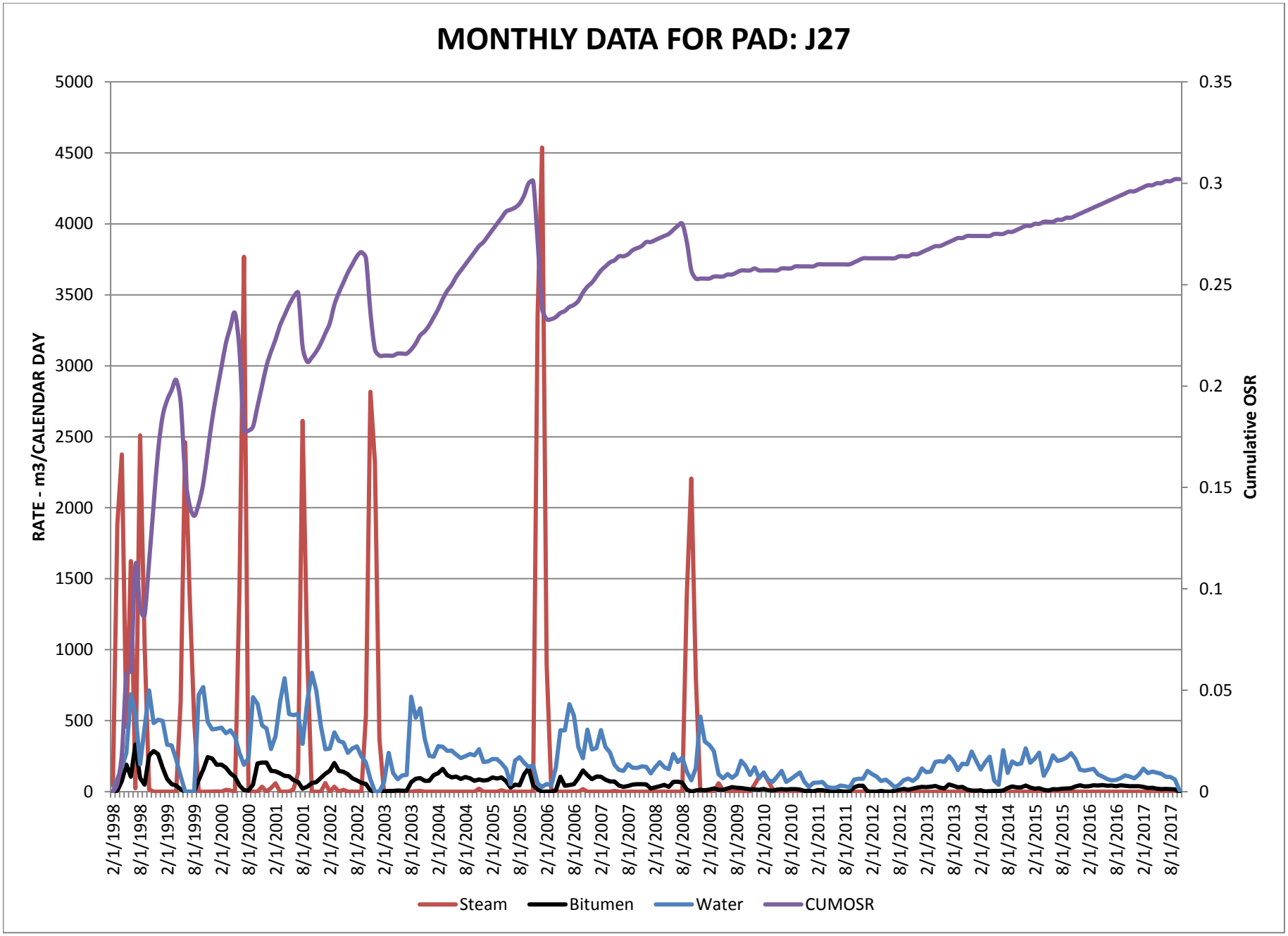
9/1/2013
3/1/2014
9/1/2014
3/1/2015
9/1/2015
3/1/2016
9/1/2016
3/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: J27
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
2/1/1998
8/1/1998
2/1/1999
8/1/1999
2/1/2000
8/1/2000
2/1/2001
8/1/2001
2/1/2002
8/1/2002
2/1/2003
8/1/2003
2/1/2004
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2/1/2005
8/1/2005
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8/1/2008
2/1/2009
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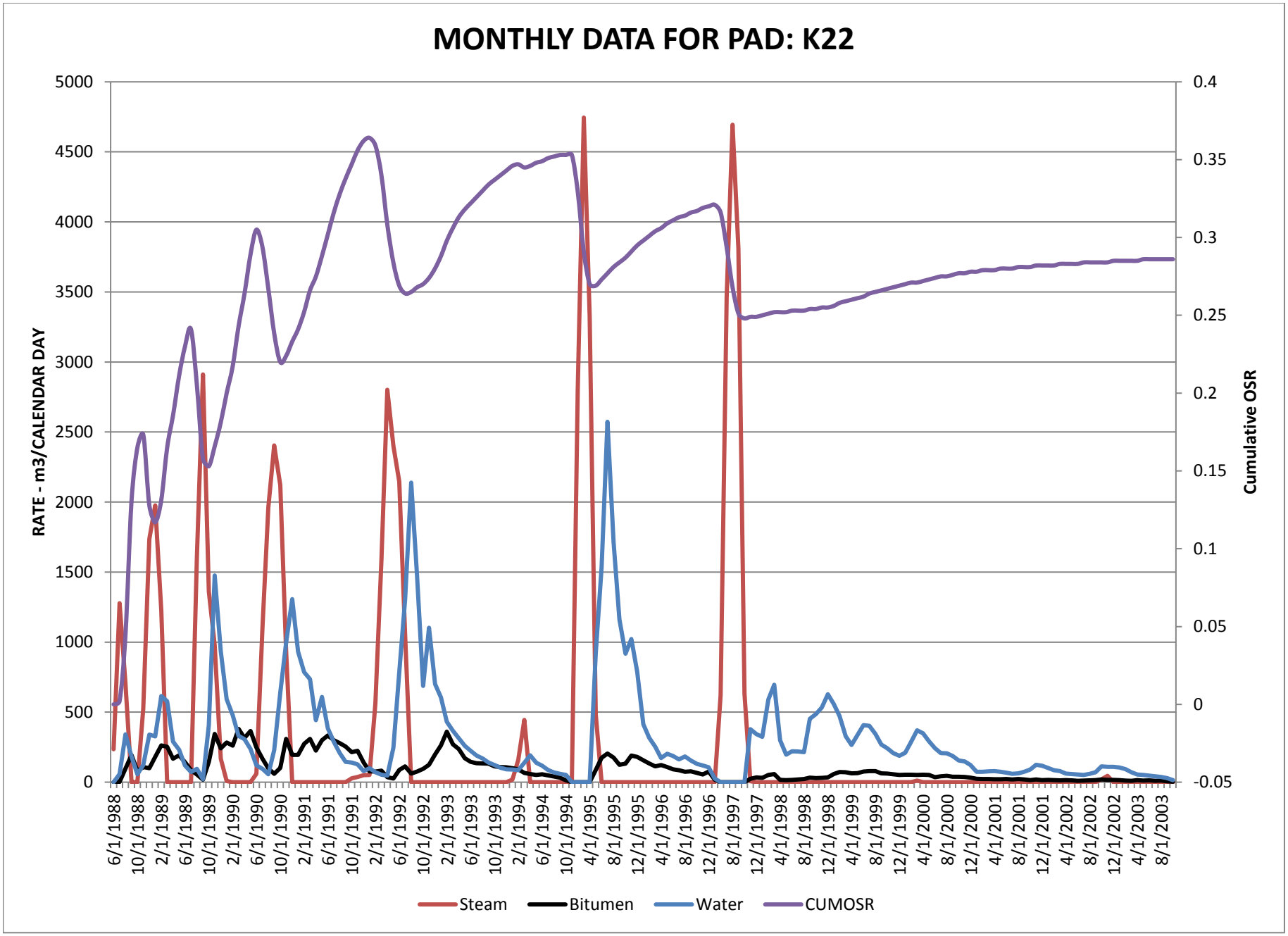
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: K22
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/1988
10/1/1988
2/1/1989
6/1/1989
10/1/1989
2/1/1990
6/1/1990
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6/1/1992
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8/1/1995
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8/1/1996
12/1/1996
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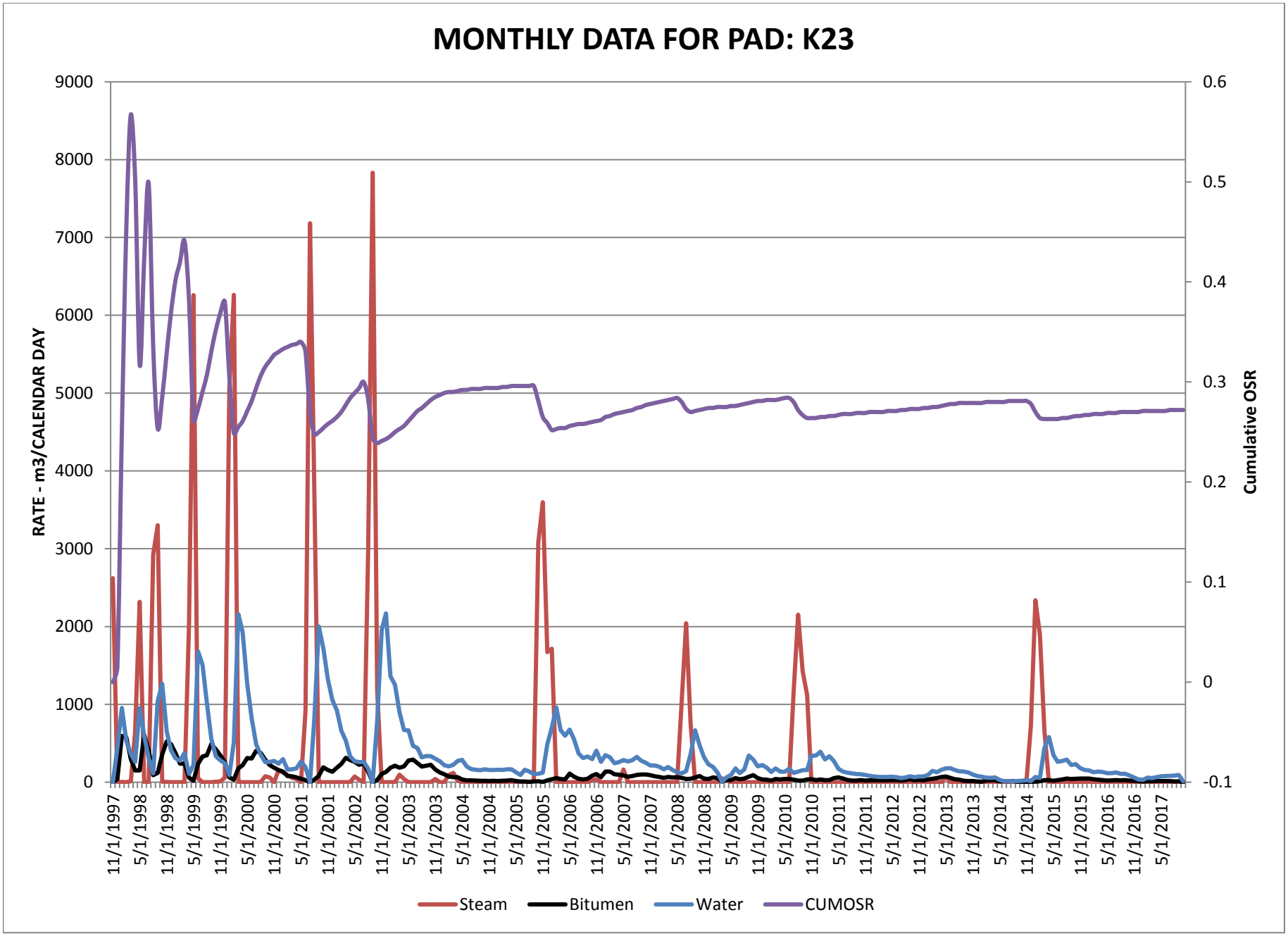
12/1/1999
4/1/2000
8/1/2000
12/1/2000
4/1/2001
8/1/2001
12/1/2001
4/1/2002
8/1/2002
12/1/2002
4/1/2003
8/1/2003
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: K23
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
11/1/1997
5/1/1998
11/1/1998
5/1/1999
11/1/1999
5/1/2000
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5/1/2002
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5/1/2003
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5/1/2005
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11/1/2006
5/1/2007
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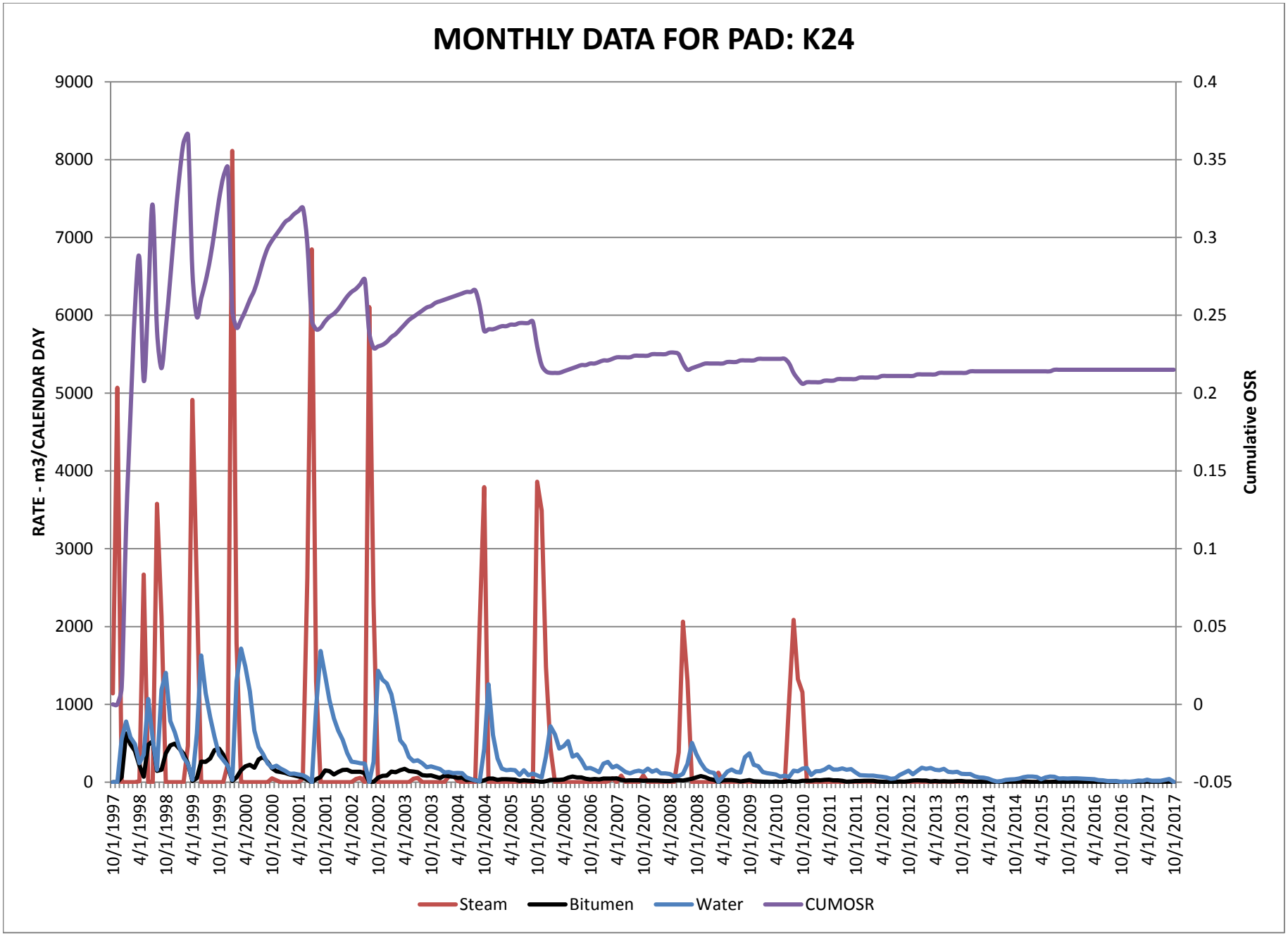
5/1/2008
11/1/2008
5/1/2009
11/1/2009
5/1/2010
11/1/2010
5/1/2011
11/1/2011
5/1/2012
11/1/2012
5/1/2013
11/1/2013
5/1/2014
11/1/2014
5/1/2015
11/1/2015
5/1/2016
11/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: K24
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/1997
4/1/1998
10/1/1998
4/1/1999
10/1/1999
4/1/2000
10/1/2000
4/1/2001
10/1/2001
4/1/2002
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4/1/2003
10/1/2003
4/1/2004
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10/1/2005
4/1/2006
10/1/2006
4/1/2007
10/1/2007
4/1/2008
10/1/2008
4/1/2009
10/1/2009
4/1/2010
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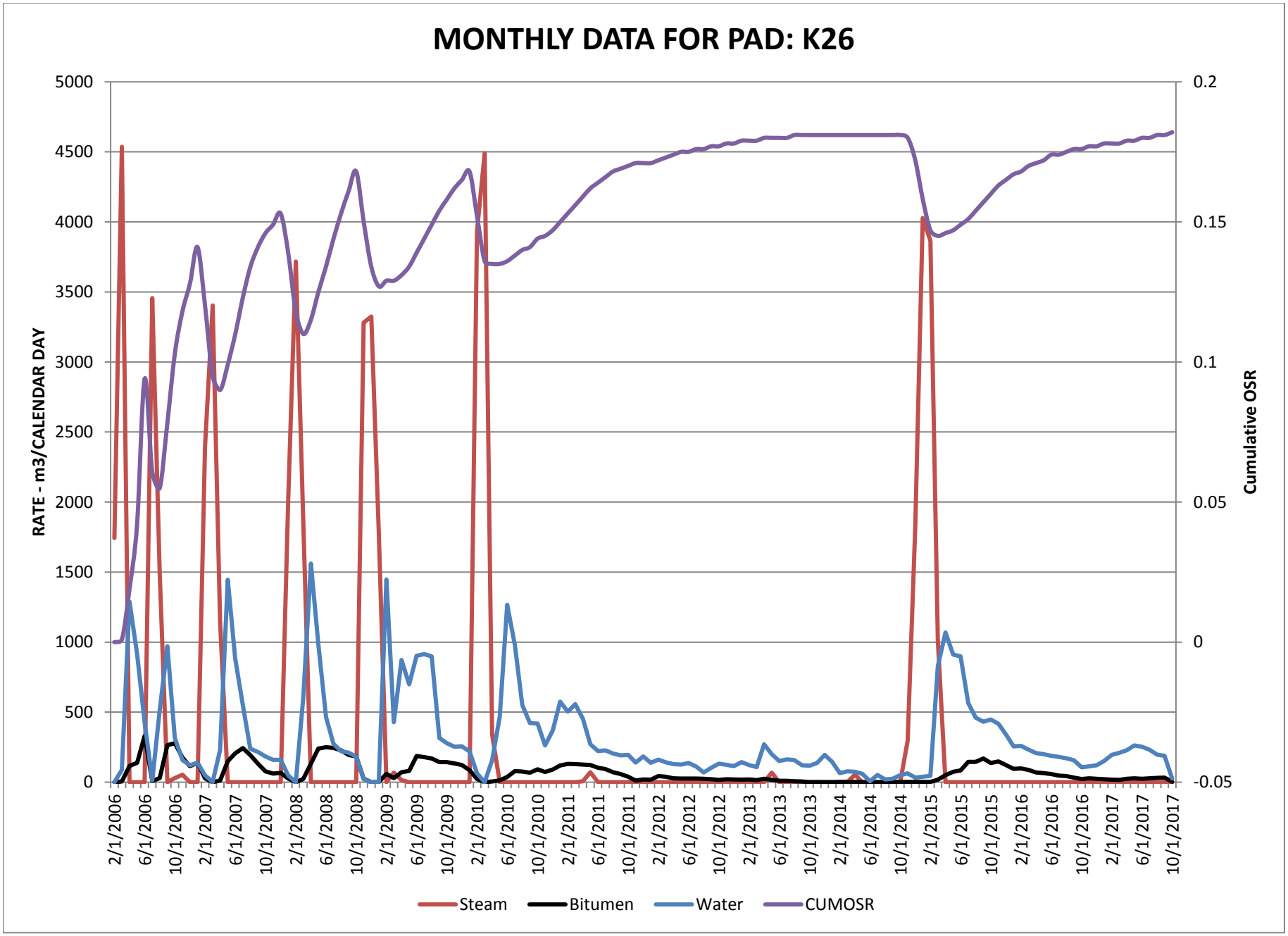
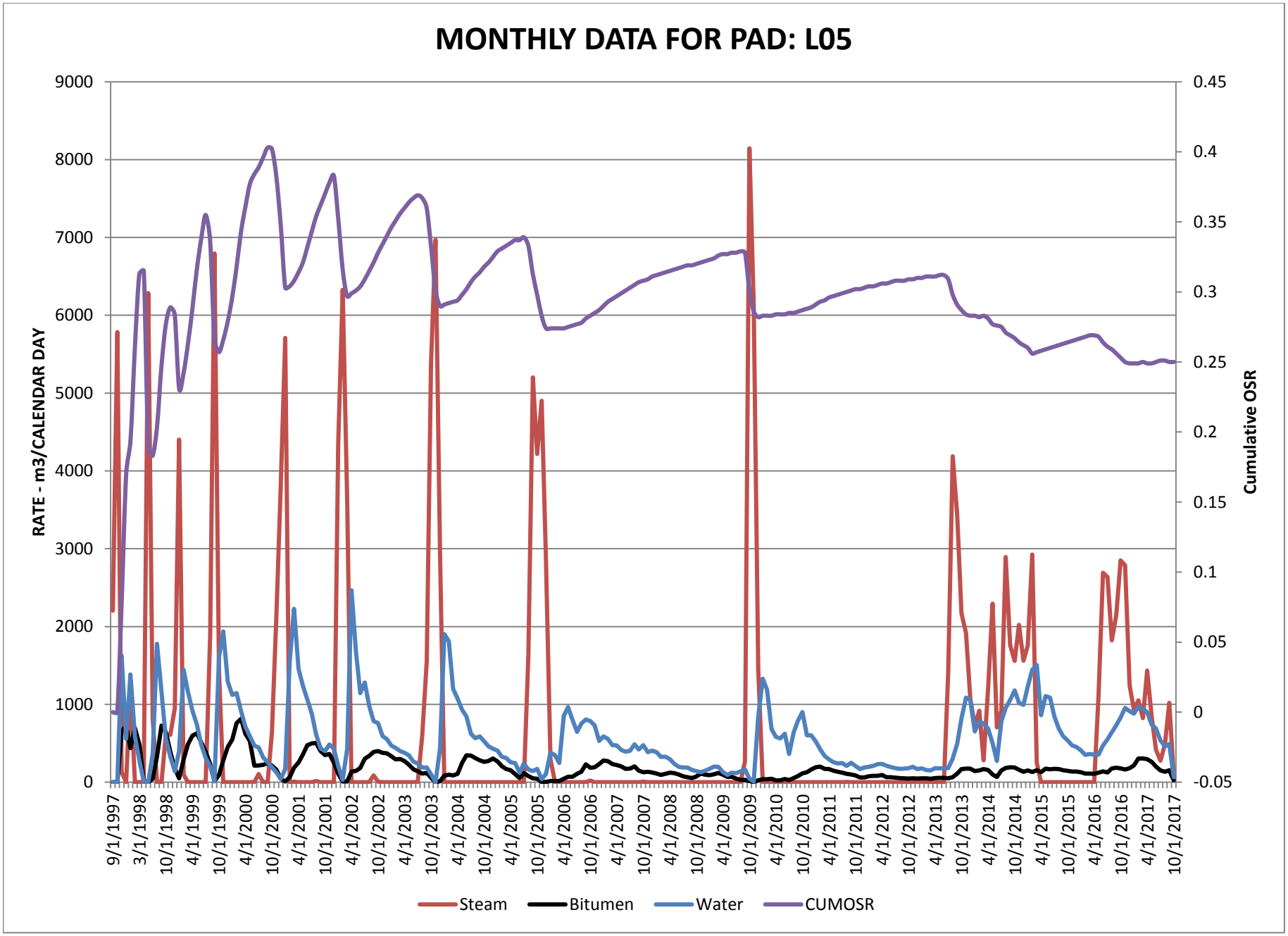
4/1/2011
10/1/2011
4/1/2012
10/1/2012
4/1/2013
10/1/2013
4/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: K26
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.2
0.15
0.1
0.05
0
-0.05
2/1/2006
6/1/2006
10/1/2006
2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
10/1/2008
2/1/2009
6/1/2009
10/1/2009
2/1/2010
6/1/2010
10/1/2010
2/1/2011
6/1/2011
10/1/2011
2/1/2012
6/1/2012
10/1/2012
2/1/2013
6/1/2013
10/1/2013
2/1/2014
6/1/2014
10/1/2014
2/1/2015
6/1/2015
10/1/2015
2/1/2016
6/1/2016
10/1/2016
2/1/2017
6/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: L05
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
9/1/1997
3/1/1998
10/1/1998
4/1/1999
10/1/1999
4/1/2000
10/1/2000
4/1/2001
10/1/2001
4/1/2002
10/1/2002
4/1/2003
10/1/2003
4/1/2004
10/1/2004
4/1/2005
10/1/2005
4/1/2006
10/1/2006
4/1/2007
10/1/2007
4/1/2008
10/1/2008
4/1/2009
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4/1/2010
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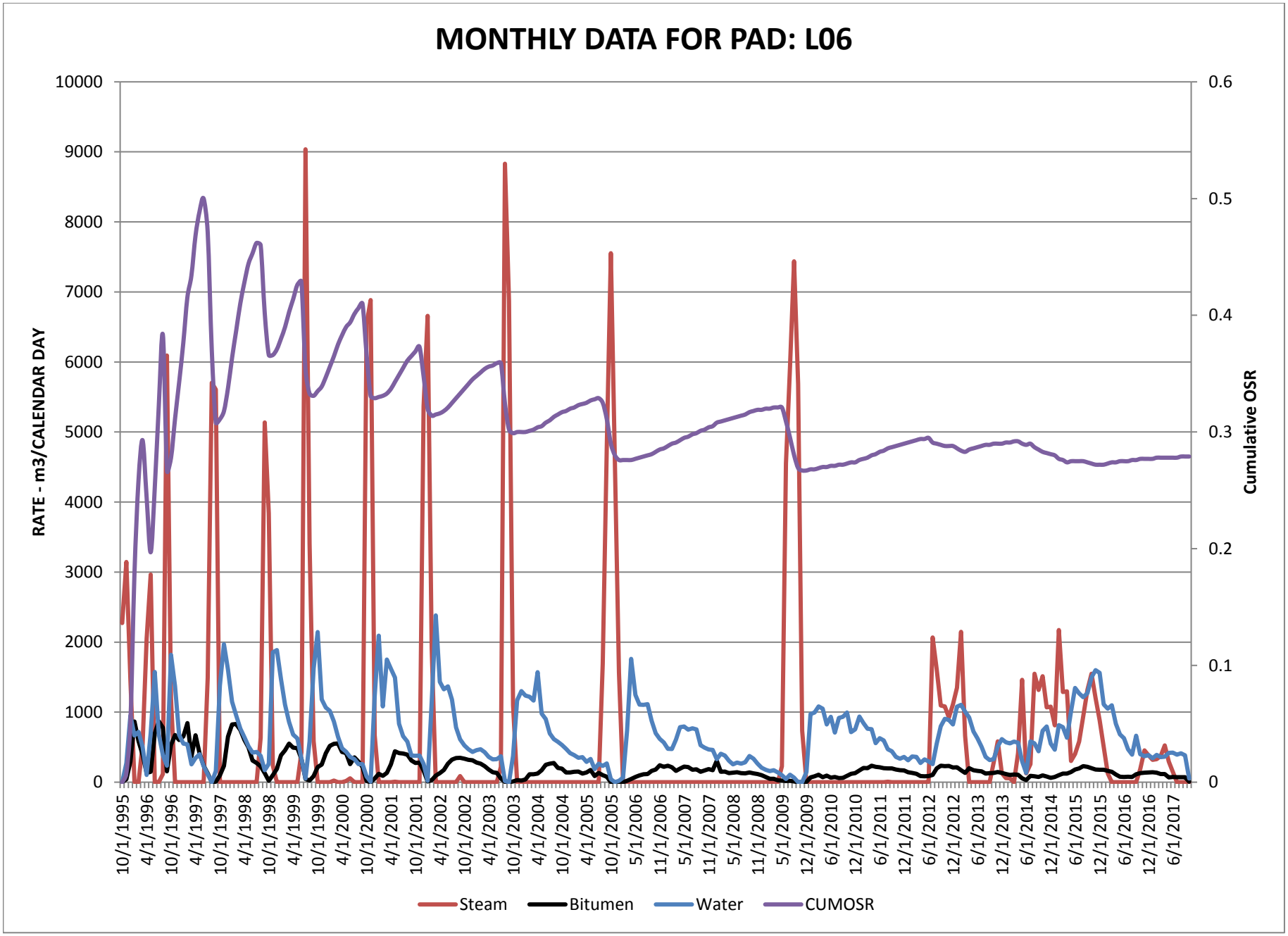
4/1/2012
10/1/2012
4/1/2013
10/1/2013
4/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: L06
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
10/1/1995
4/1/1996
10/1/1996
4/1/1997
10/1/1997
4/1/1998
10/1/1998
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10/1/1999
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4/1/2001
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4/1/2002
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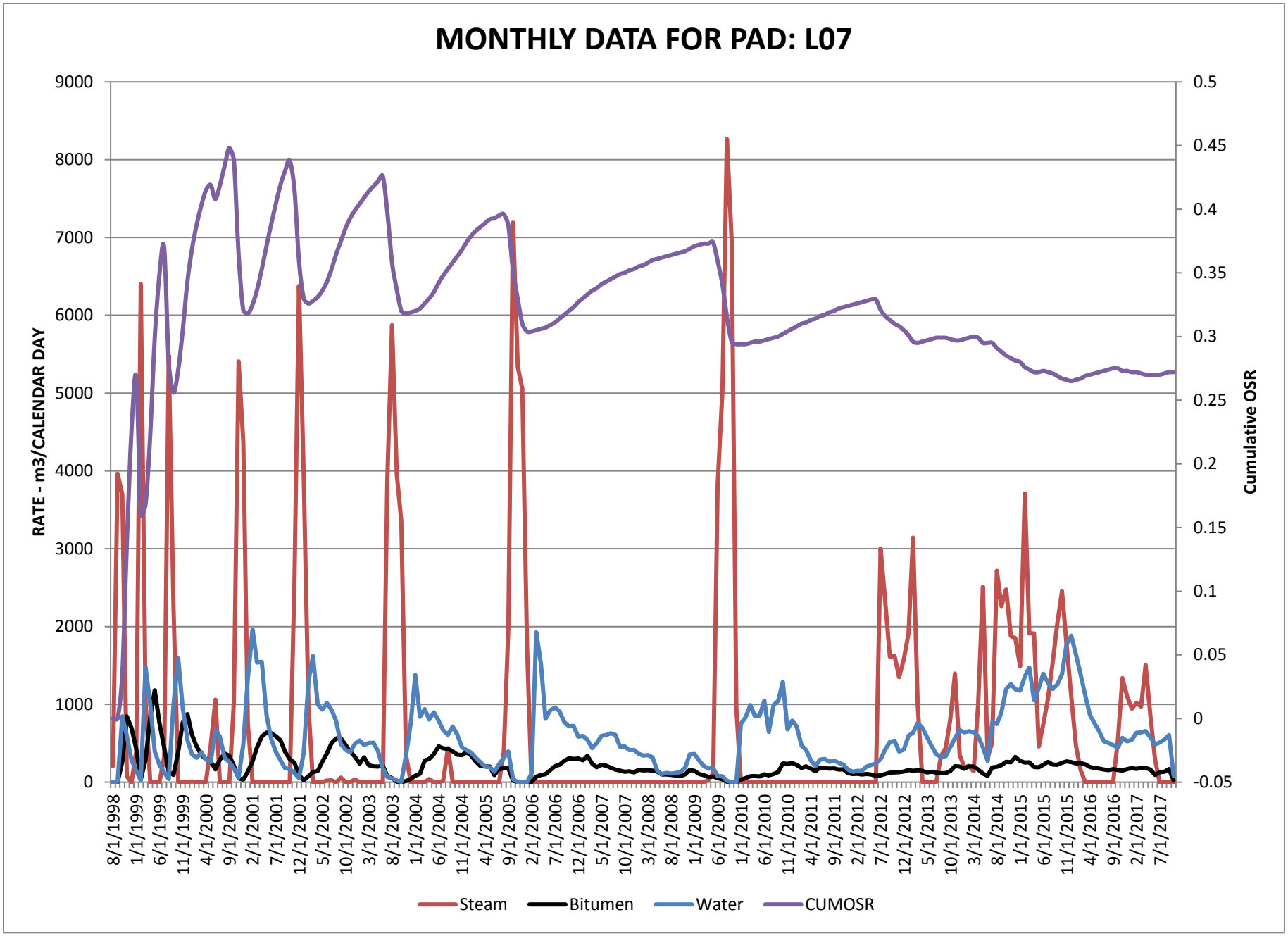
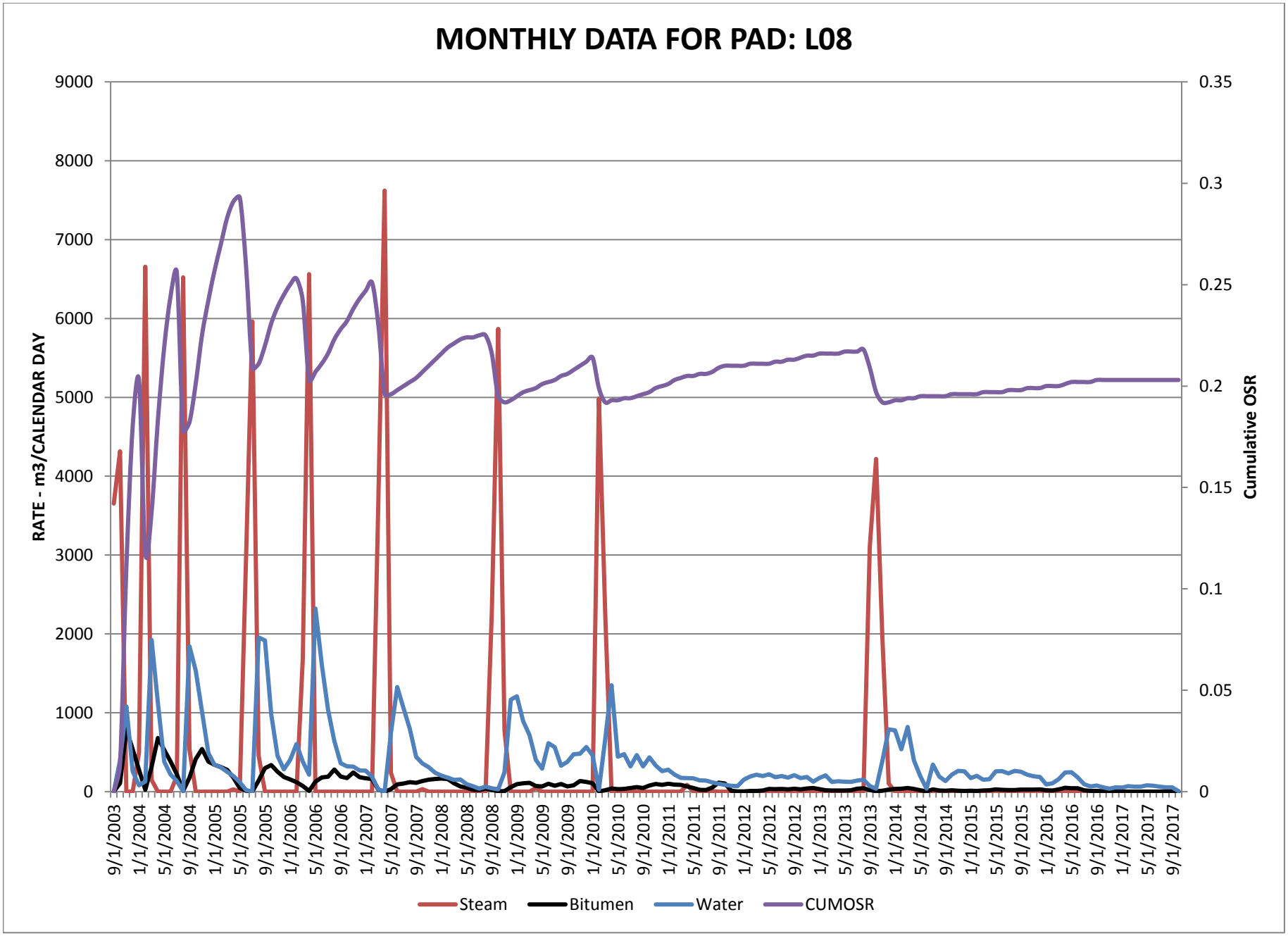
10/1/2003
4/1/2004
10/1/2004
4/1/2005
10/1/2005
5/1/2006
11/1/2006
5/1/2007
11/1/2007
5/1/2008
11/1/2008
5/1/2009
12/1/2009
6/1/2010
12/1/2010
6/1/2011
12/1/2011
6/1/2012
12/1/2012
6/1/2013
12/1/2013
6/1/2014
12/1/2014
6/1/2015
12/1/2015
6/1/2016
12/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: L07
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
8/1/1998
1/1/1999
6/1/1999
11/1/1999
4/1/2000
9/1/2000
2/1/2001
7/1/2001
12/1/2001
5/1/2002
10/1/2002
3/1/2003
8/1/2003
1/1/2004
6/1/2004
11/1/2004
4/1/2005
9/1/2005
2/1/2006
7/1/2006
12/1/2006
5/1/2007
10/1/2007
3/1/2008
8/1/2008
1/1/2009
6/1/2009
1/1/2010
6/1/2010
11/1/2010
4/1/2011
9/1/2011
2/1/2012
7/1/2012
12/1/2012
5/1/2013
10/1/2013
3/1/2014
8/1/2014
1/1/2015
6/1/2015
11/1/2015
4/1/2016
9/1/2016
2/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: L08
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
9/1/2003
1/1/2004
5/1/2004
9/1/2004
1/1/2005
5/1/2005
9/1/2005
1/1/2006
5/1/2006
9/1/2006
1/1/2007
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9/1/2007
1/1/2008
5/1/2008
9/1/2008
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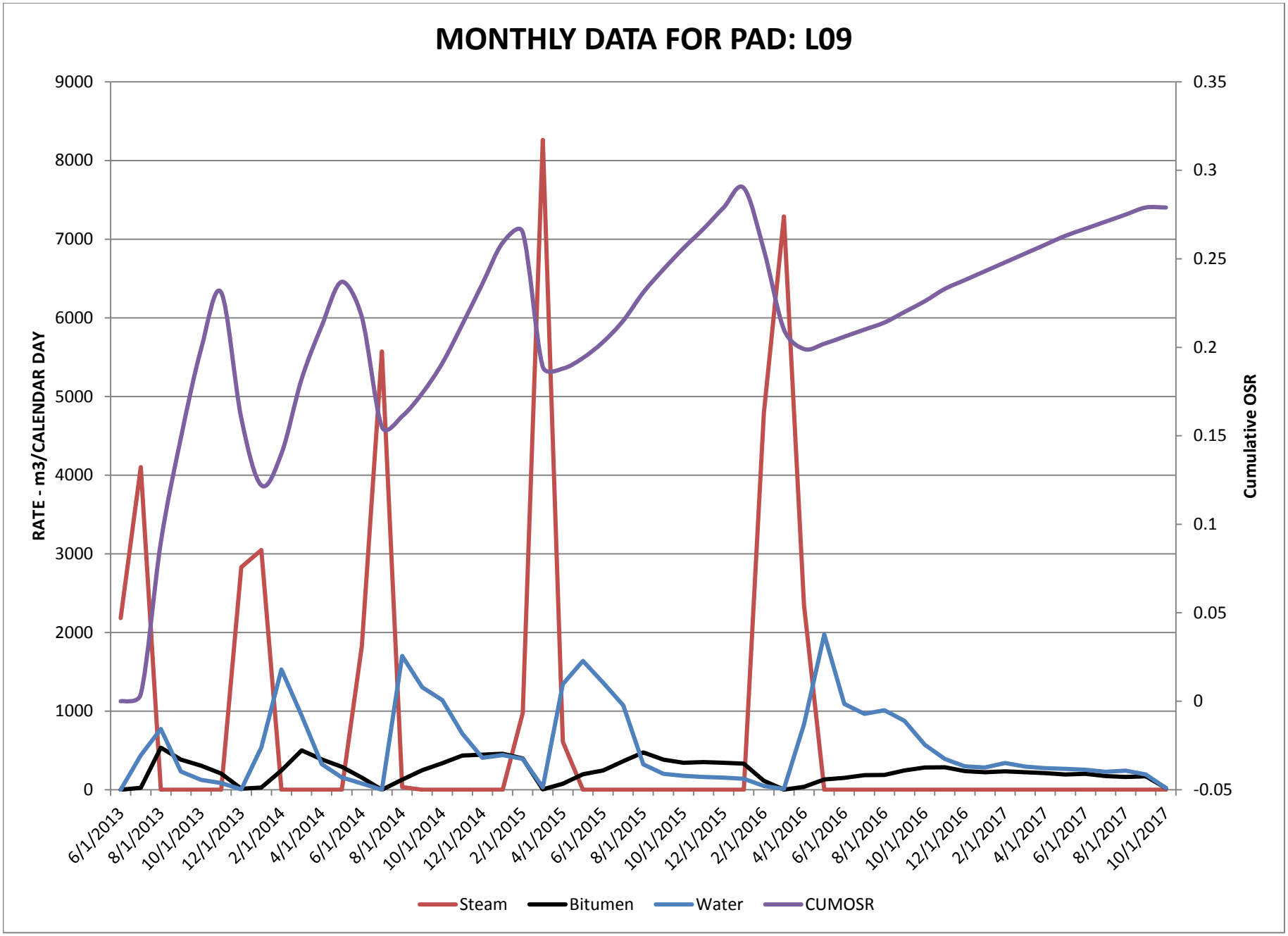
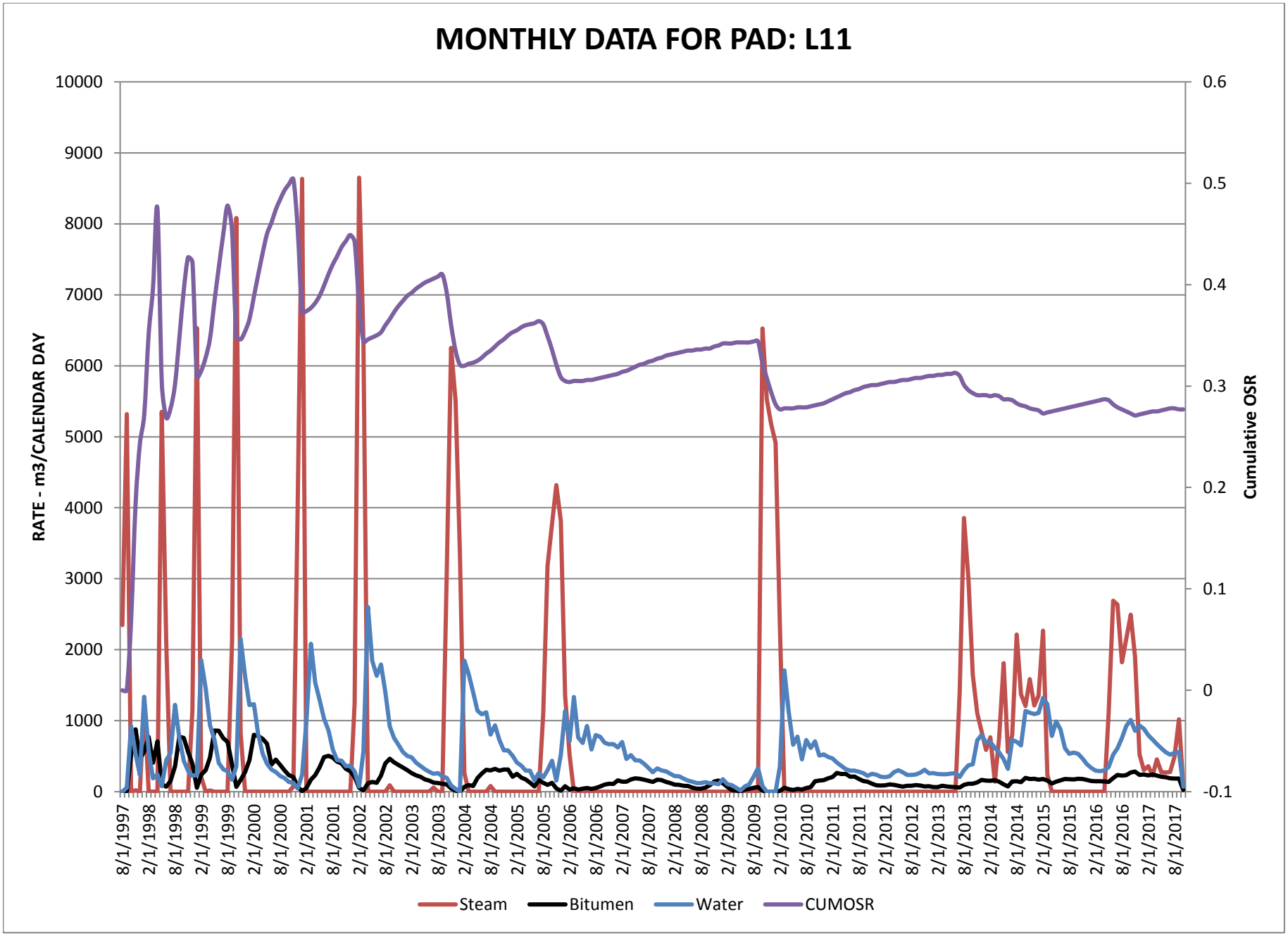
9/1/2013
1/1/2014
5/1/2014
9/1/2014
1/1/2015
5/1/2015
9/1/2015
1/1/2016
5/1/2016
9/1/2016
1/1/2017
5/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: L09
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: L11
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
8/1/1997
2/1/1998
8/1/1998
2/1/1999
8/1/1999
2/1/2000
8/1/2000
2/1/2001
8/1/2001
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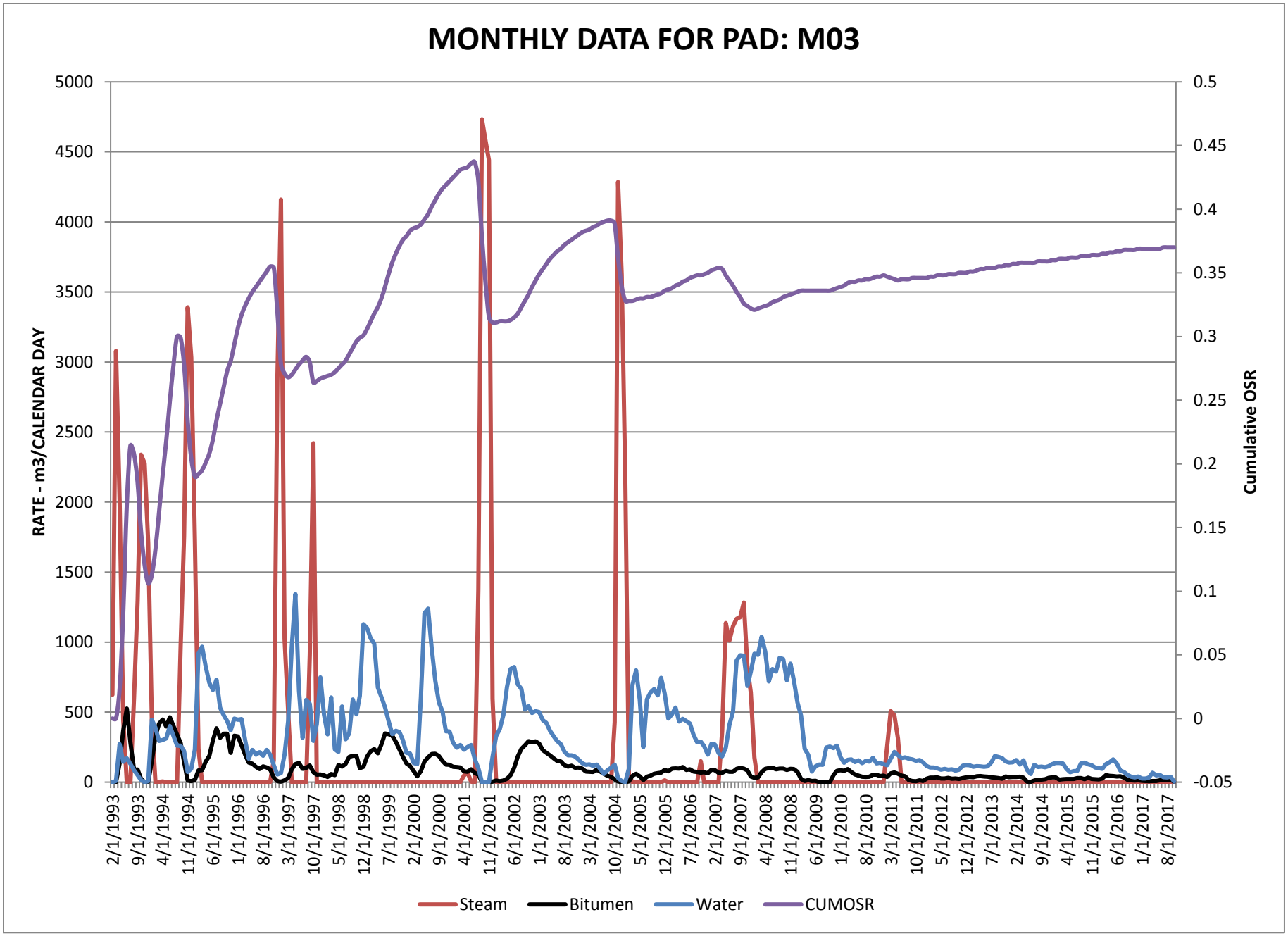
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: M03
RATE - m3/CALENDAR DAY
Cumulative OSR
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
2/1/1993
9/1/1993
4/1/1994
11/1/1994
6/1/1995
1/1/1996
8/1/1996
3/1/1997
10/1/1997
5/1/1998
12/1/1998
7/1/1999
2/1/2000
9/1/2000
4/1/2001
11/1/2001
6/1/2002
1/1/2003
8/1/2003
3/1/2004
10/1/2004
5/1/2005
12/1/2005
7/1/2006
2/1/2007
9/1/2007
4/1/2008
11/1/2008
6/1/2009
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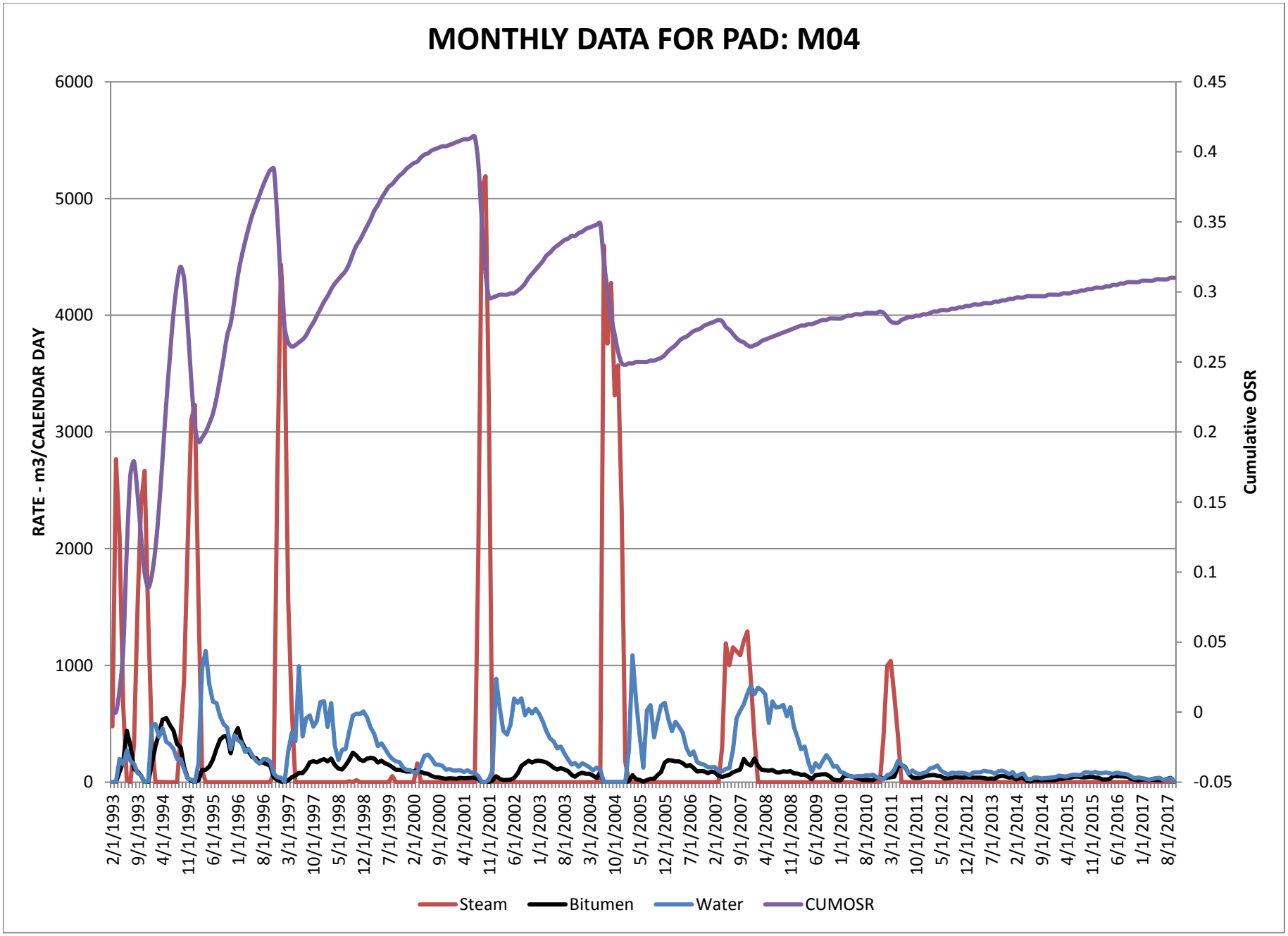
10/1/2011
5/1/2012
12/1/2012
7/1/2013
2/1/2014
9/1/2014
4/1/2015
11/1/2015
6/1/2016
1/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: M04
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
2/1/1993
9/1/1993
4/1/1994
11/1/1994
6/1/1995
1/1/1996
8/1/1996
3/1/1997
10/1/1997
5/1/1998
12/1/1998
7/1/1999
2/1/2000
9/1/2000
4/1/2001
11/1/2001
6/1/2002
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8/1/2003
3/1/2004
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7/1/2006
2/1/2007
9/1/2007
4/1/2008
11/1/2008
6/1/2009
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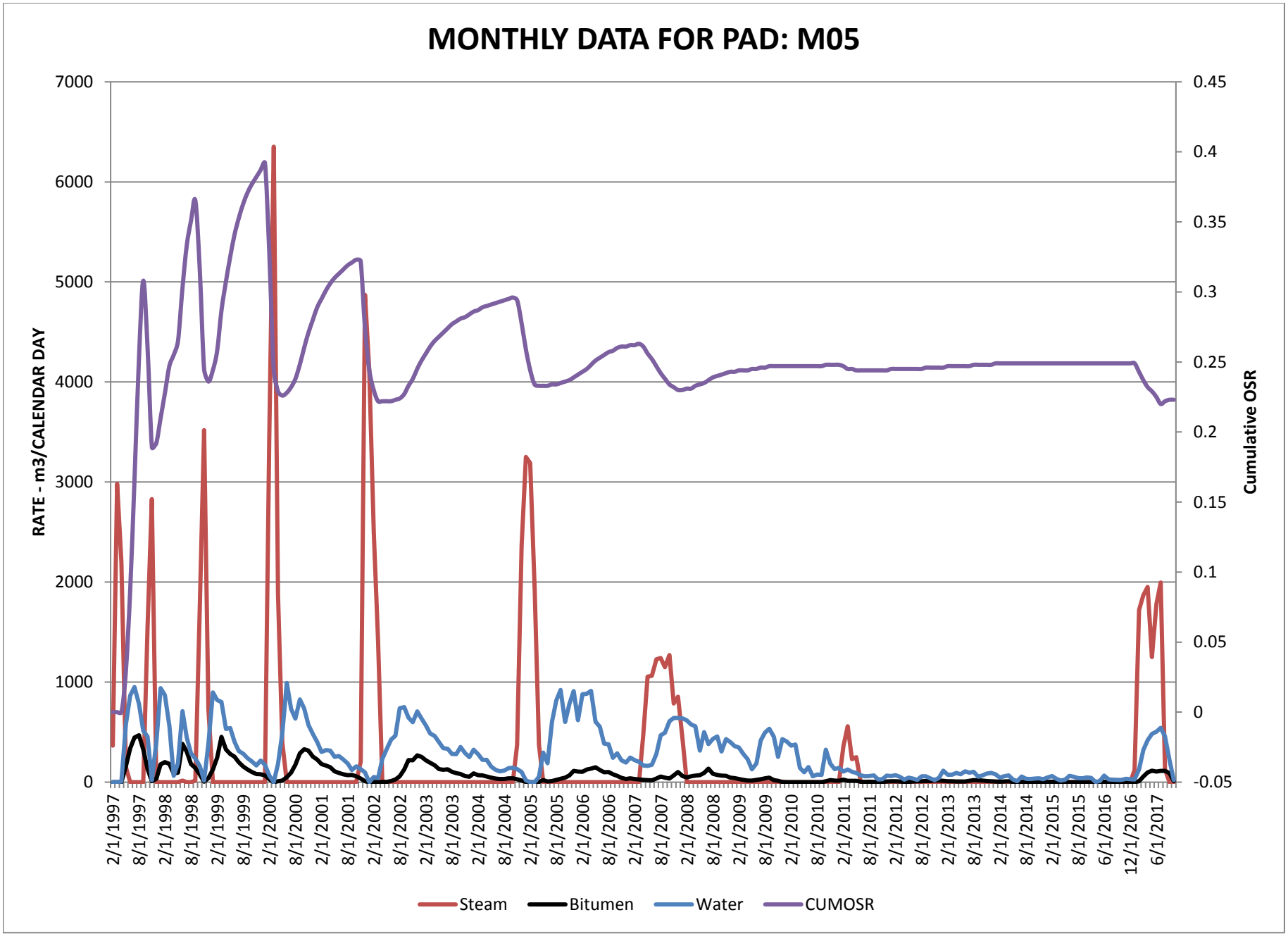
3/1/2011
10/1/2011
5/1/2012
12/1/2012
7/1/2013
2/1/2014
9/1/2014
4/1/2015
11/1/2015
6/1/2016
1/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: M05
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
2/1/1997
8/1/1997
2/1/1998
8/1/1998
2/1/1999
8/1/1999
2/1/2000
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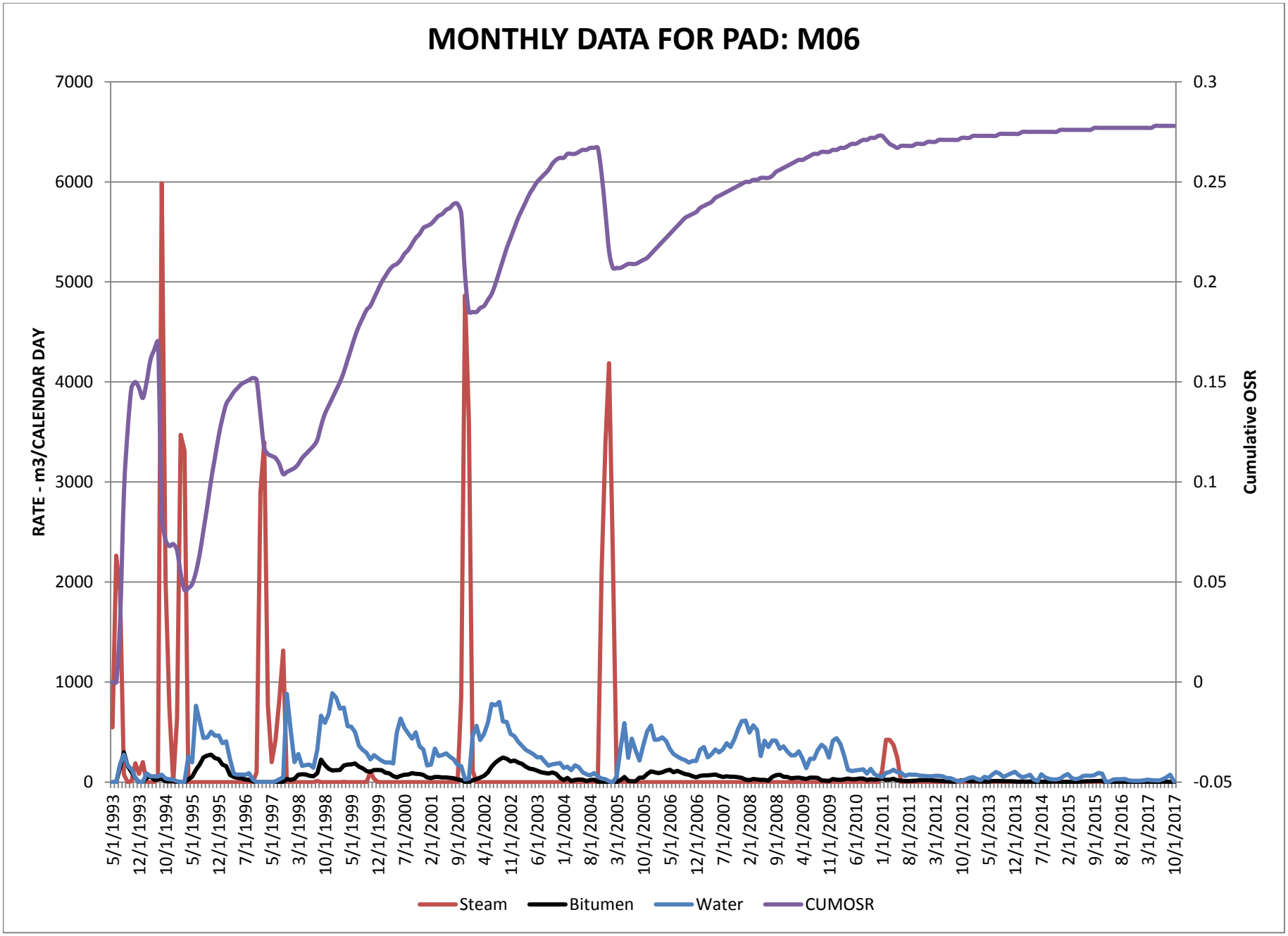
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
6/1/2016
12/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: M06
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1993
12/1/1993
10/1/1994
5/1/1995
12/1/1995
7/1/1996
5/1/1997
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10/1/1998
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12/1/1999
7/1/2000
2/1/2001
9/1/2001
4/1/2002
11/1/2002
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11/1/2009
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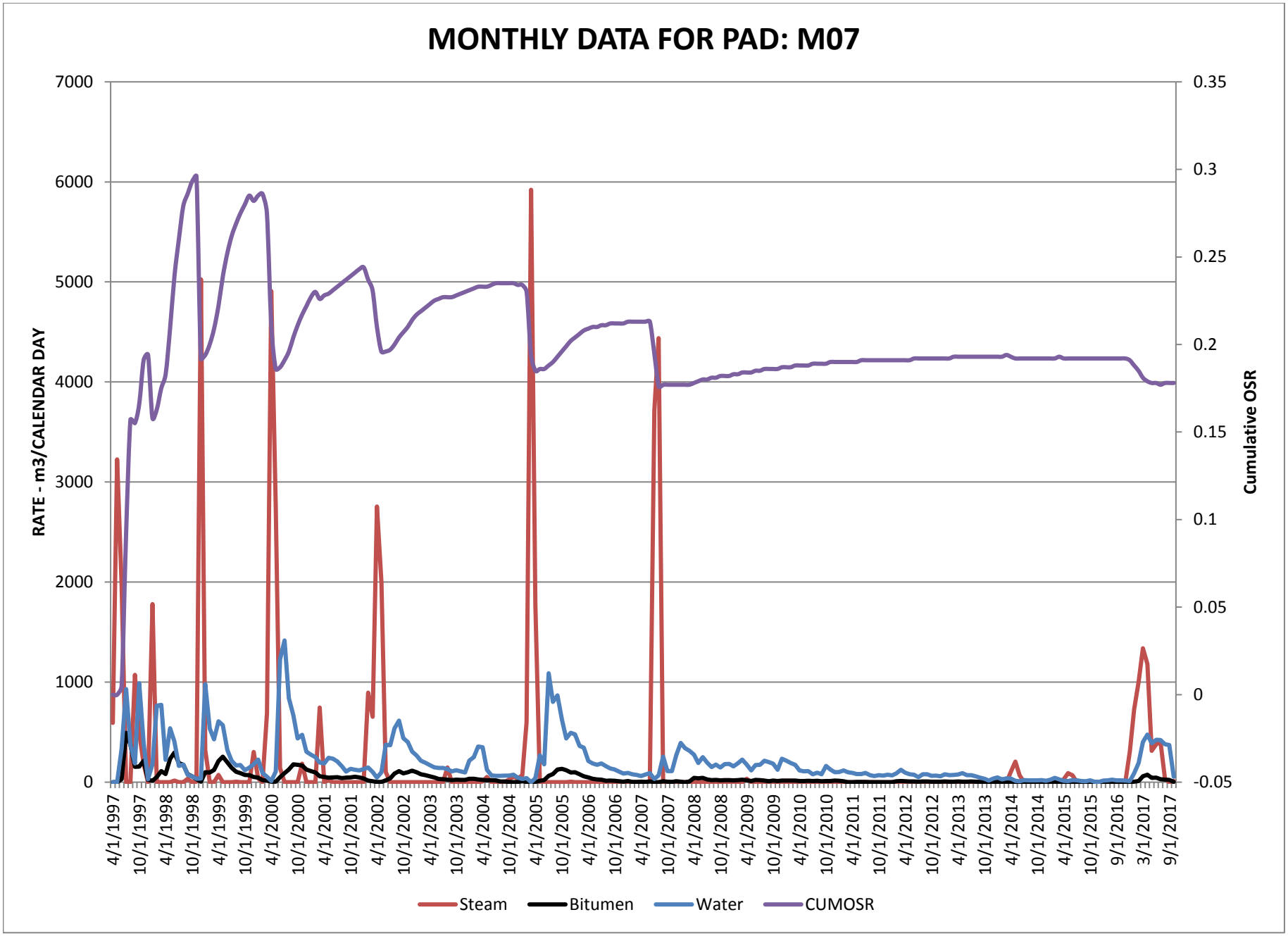
10/1/2012
5/1/2013
12/1/2013
7/1/2014
2/1/2015
9/1/2015
8/1/2016
3/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: M07
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
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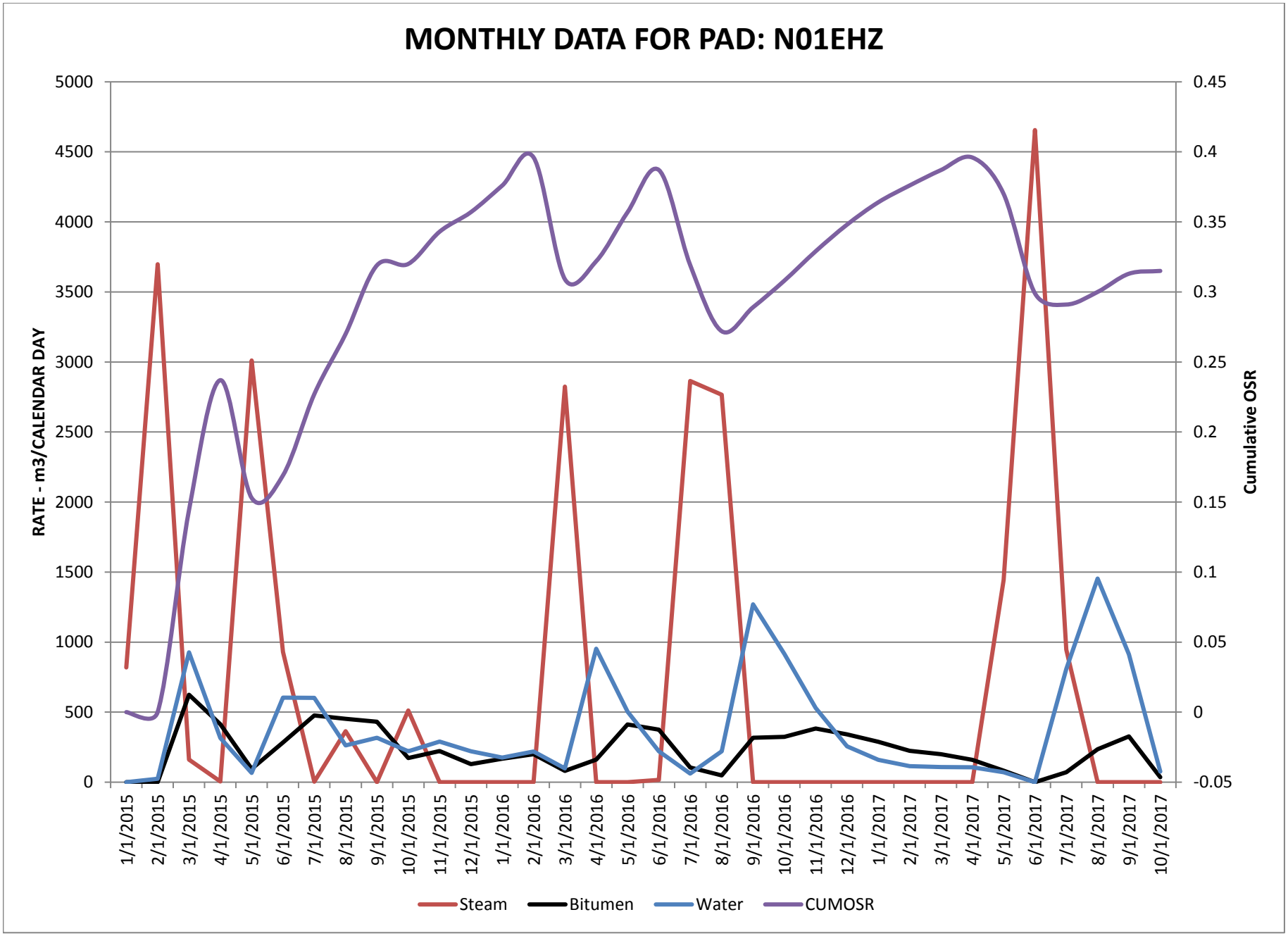
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N01EHZ
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Cumulative OSR
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500
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0.2
0.15
0.1
0.05
0
-0.05
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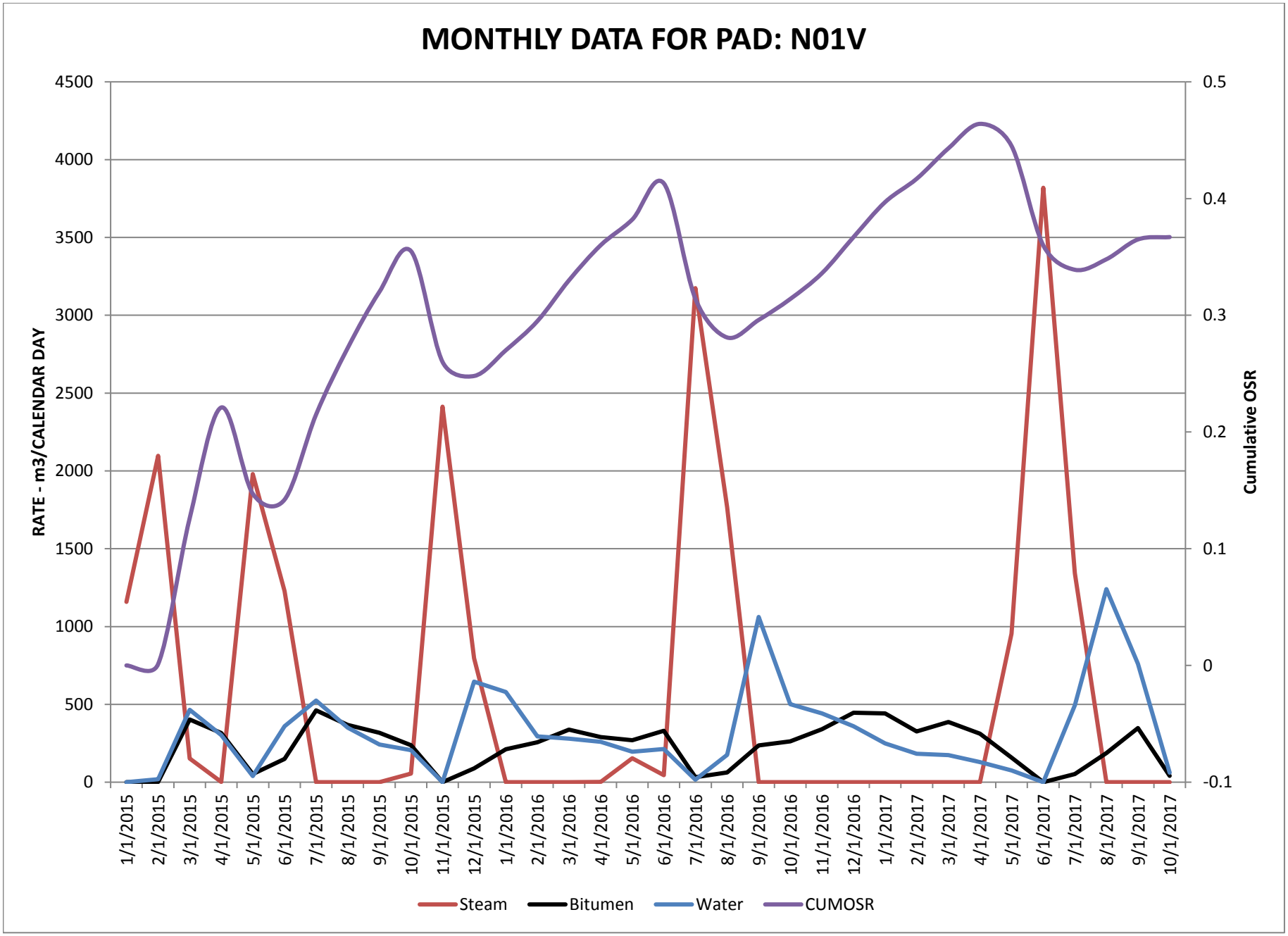
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N01V
RATE - m3/CALENDAR DAY
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0.4
0.3
0.2
0.1
0
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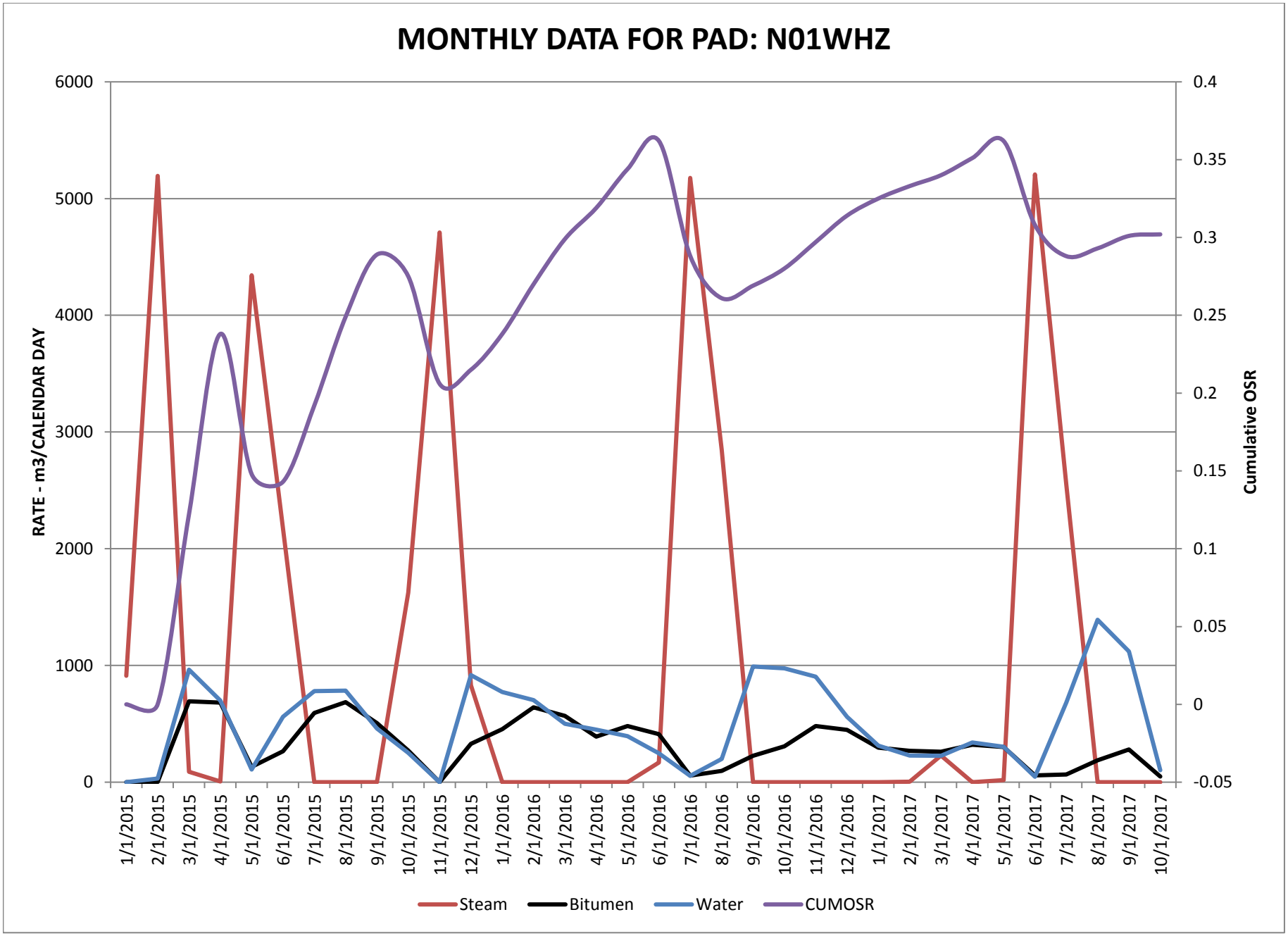
Steam
Bitumen
Water
CUMOSR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RATE - m3/CALENDAR DAY
Cumulative OSR
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0.2
0.15
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0.05
0
-0.05
1/1/2015
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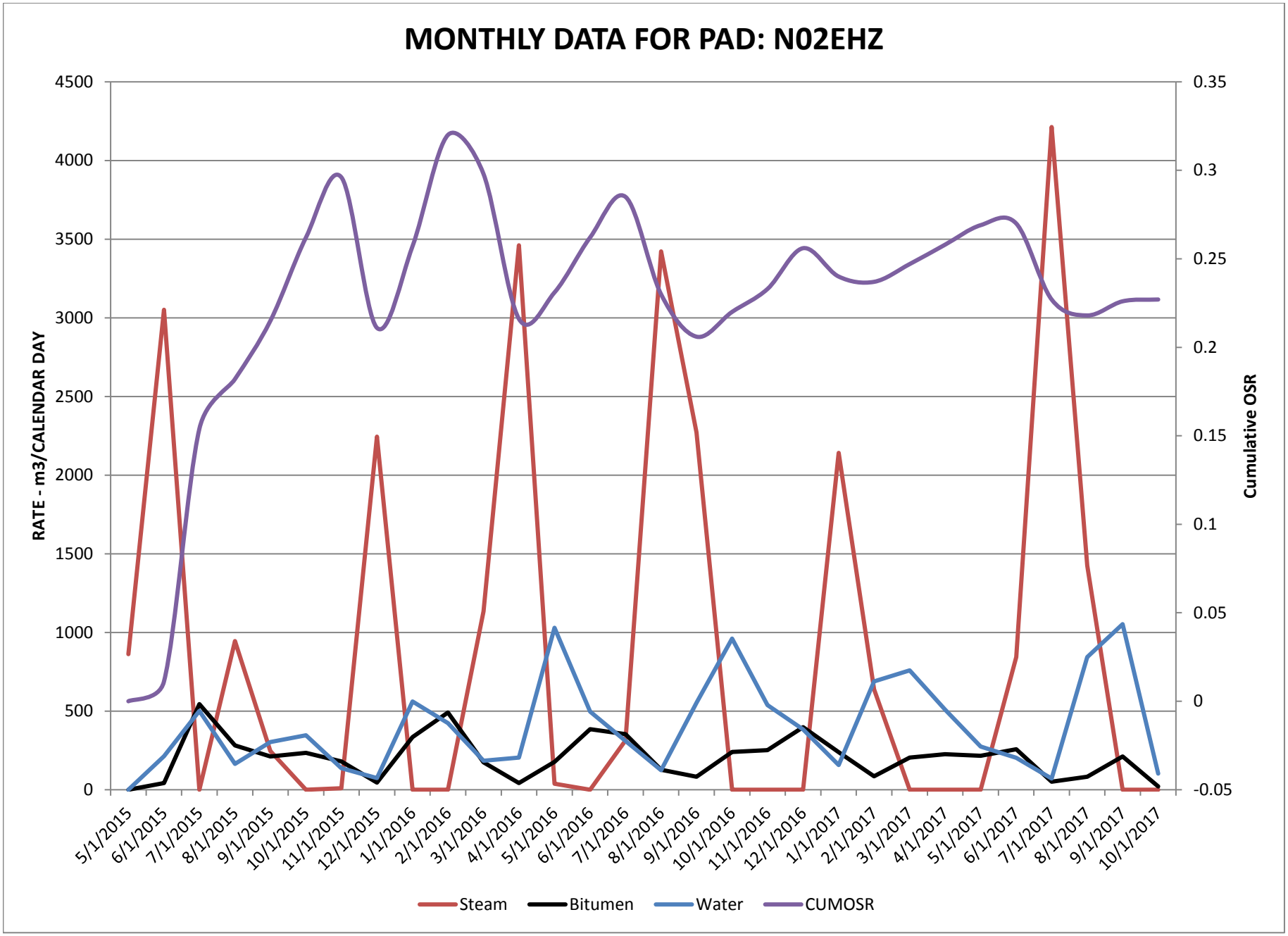
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N02EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
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2500
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1500
1000
500
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0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/2015
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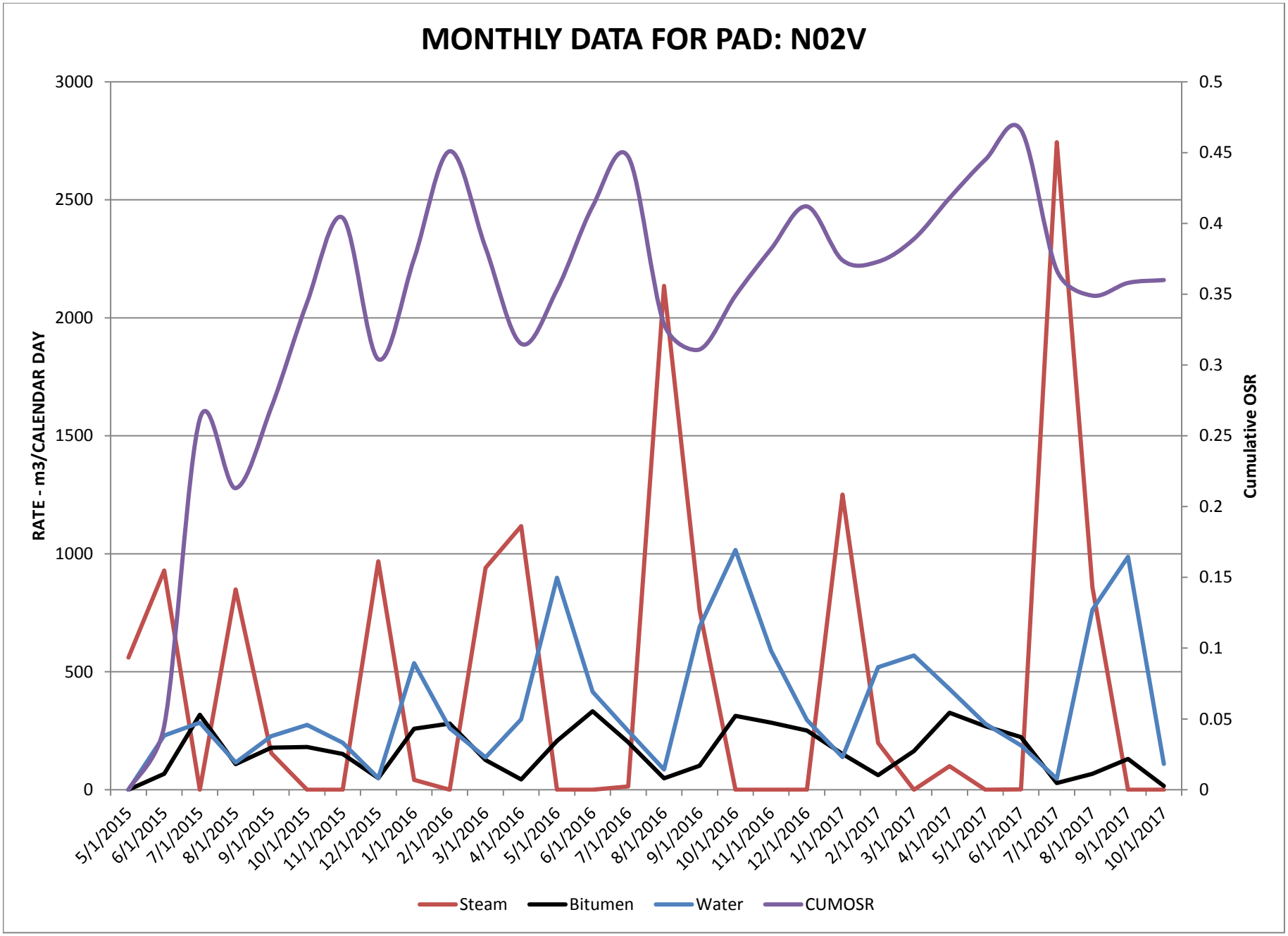
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N02V
RATE - m3/CALENDAR DAY
Cumulative OSR
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1000
500
0
0.5
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0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
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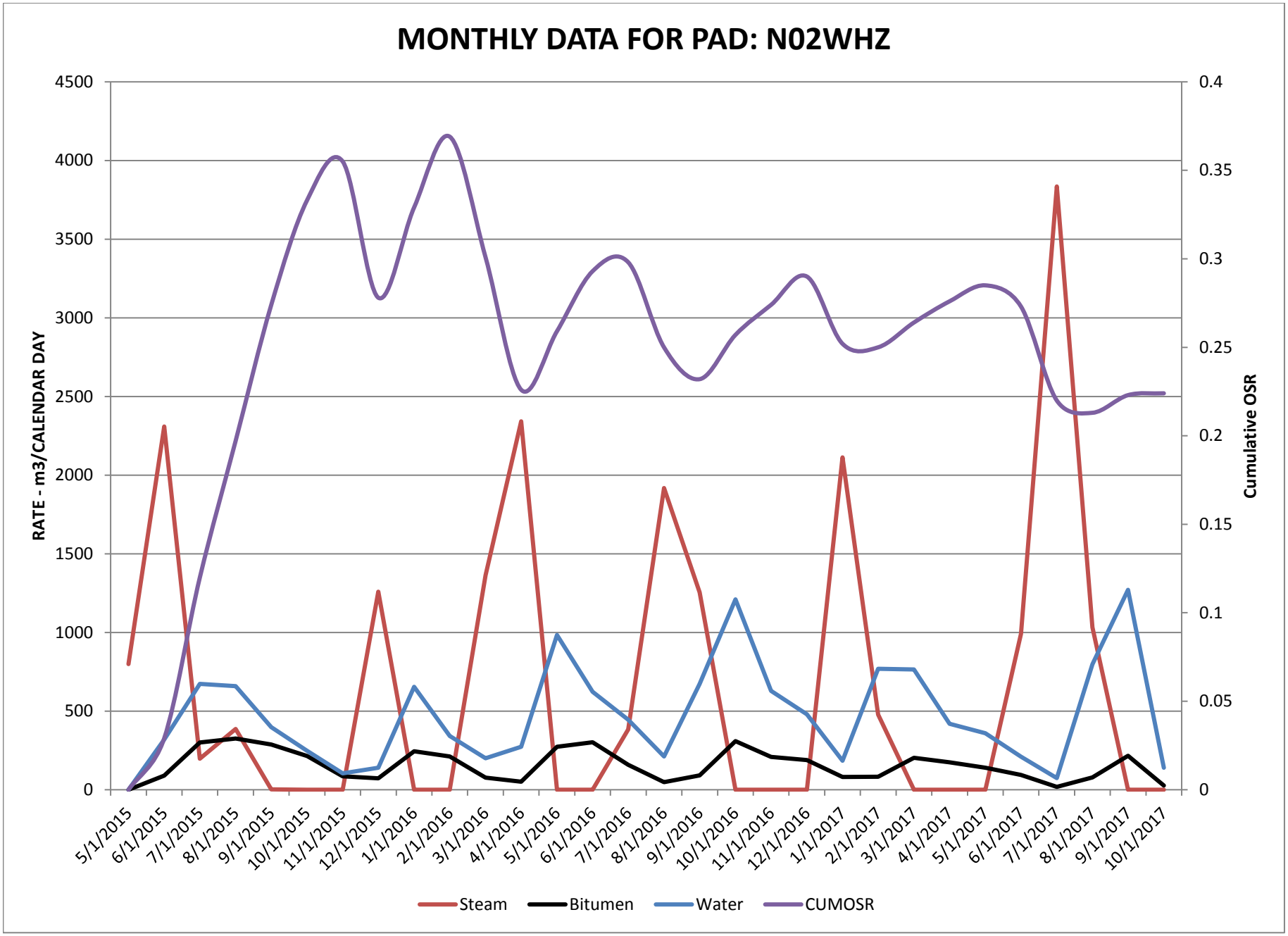
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N02WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
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2500
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1000
500
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0.25
0.2
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0
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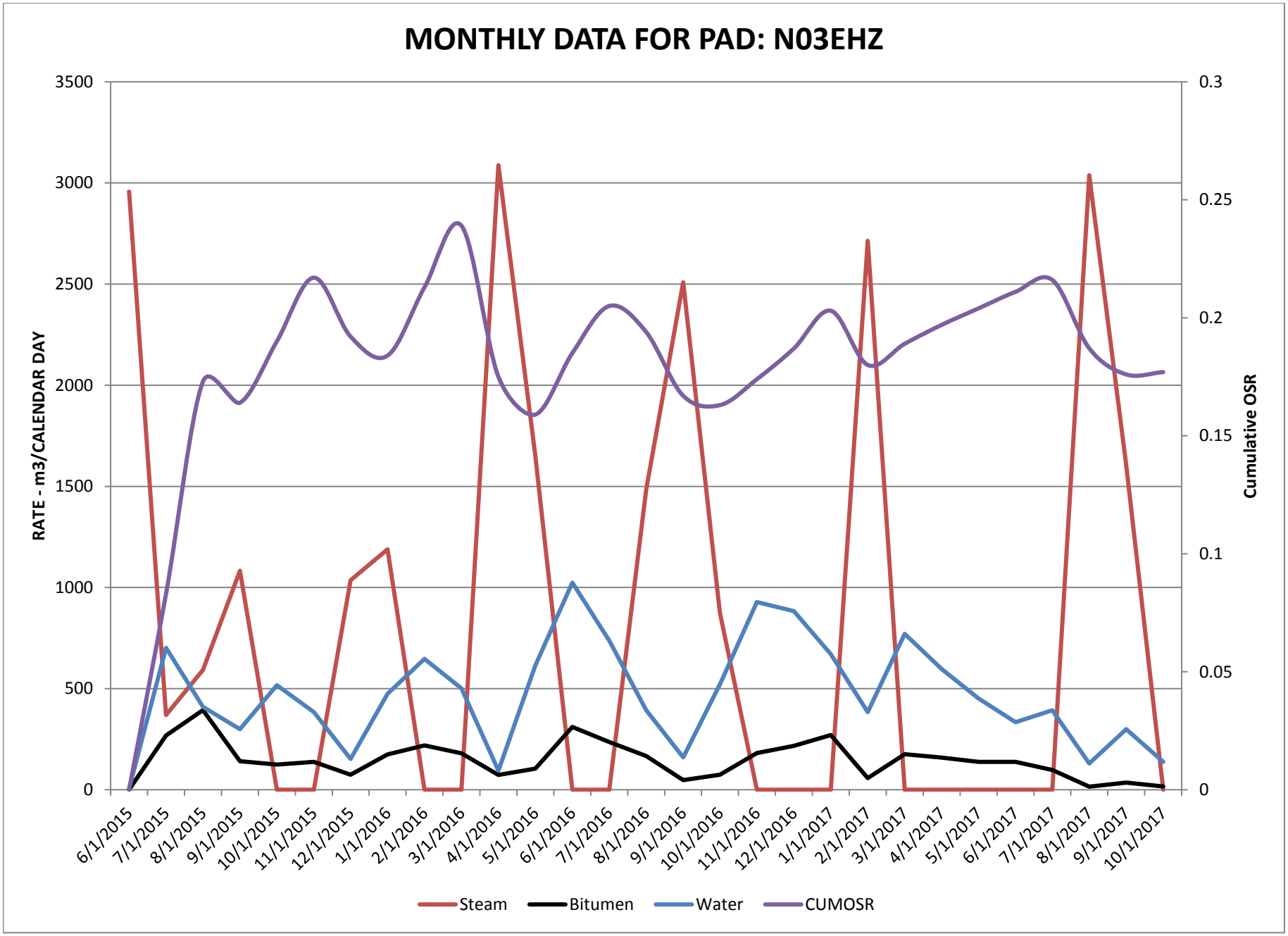
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N03EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
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2500
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1500
1000
500
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0.25
0.2
0.15
0.1
0.05
0
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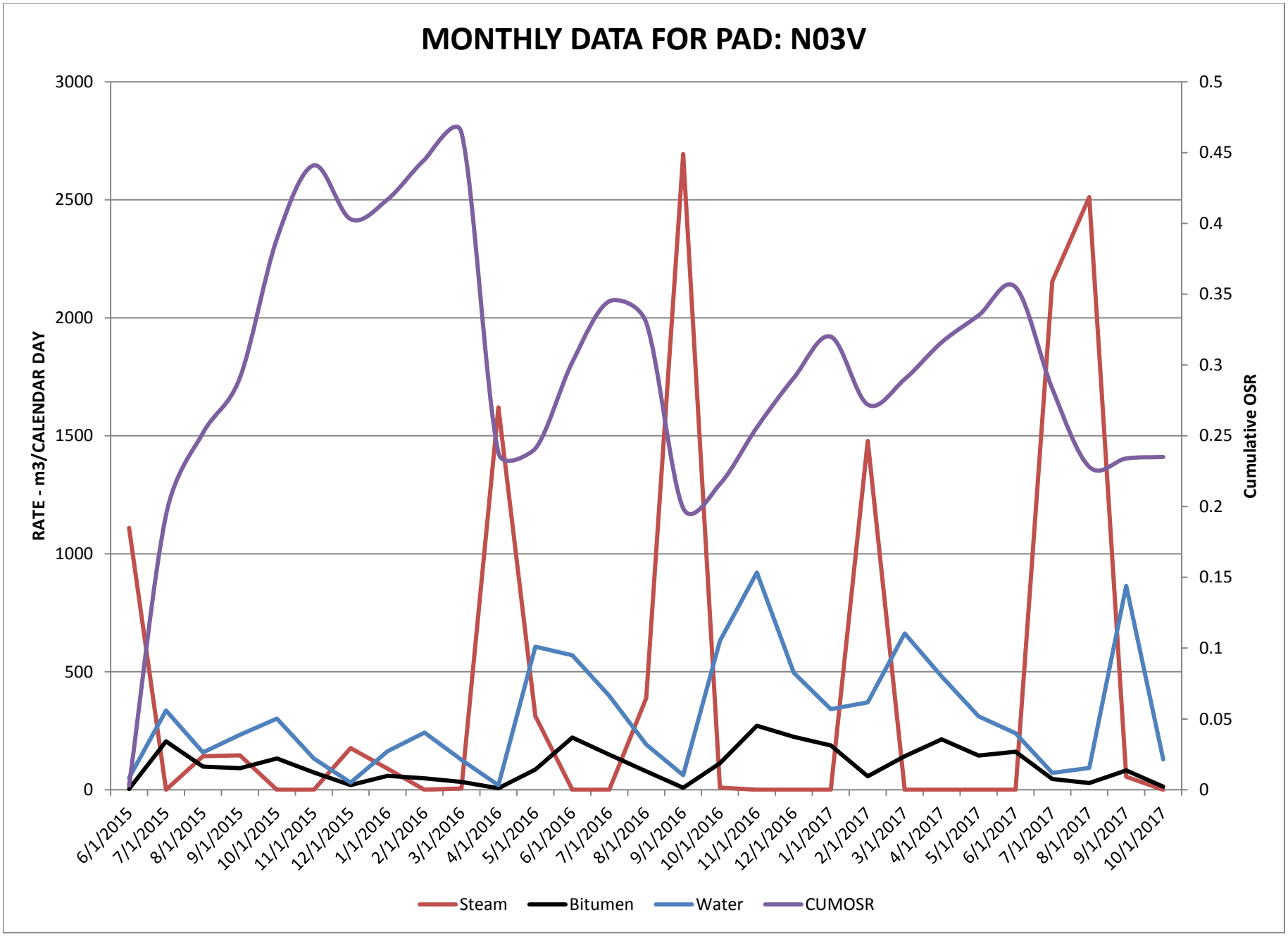
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N03V
RATE - m3/CALENDAR DAY
Cumulative OSR
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0.25
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0.15
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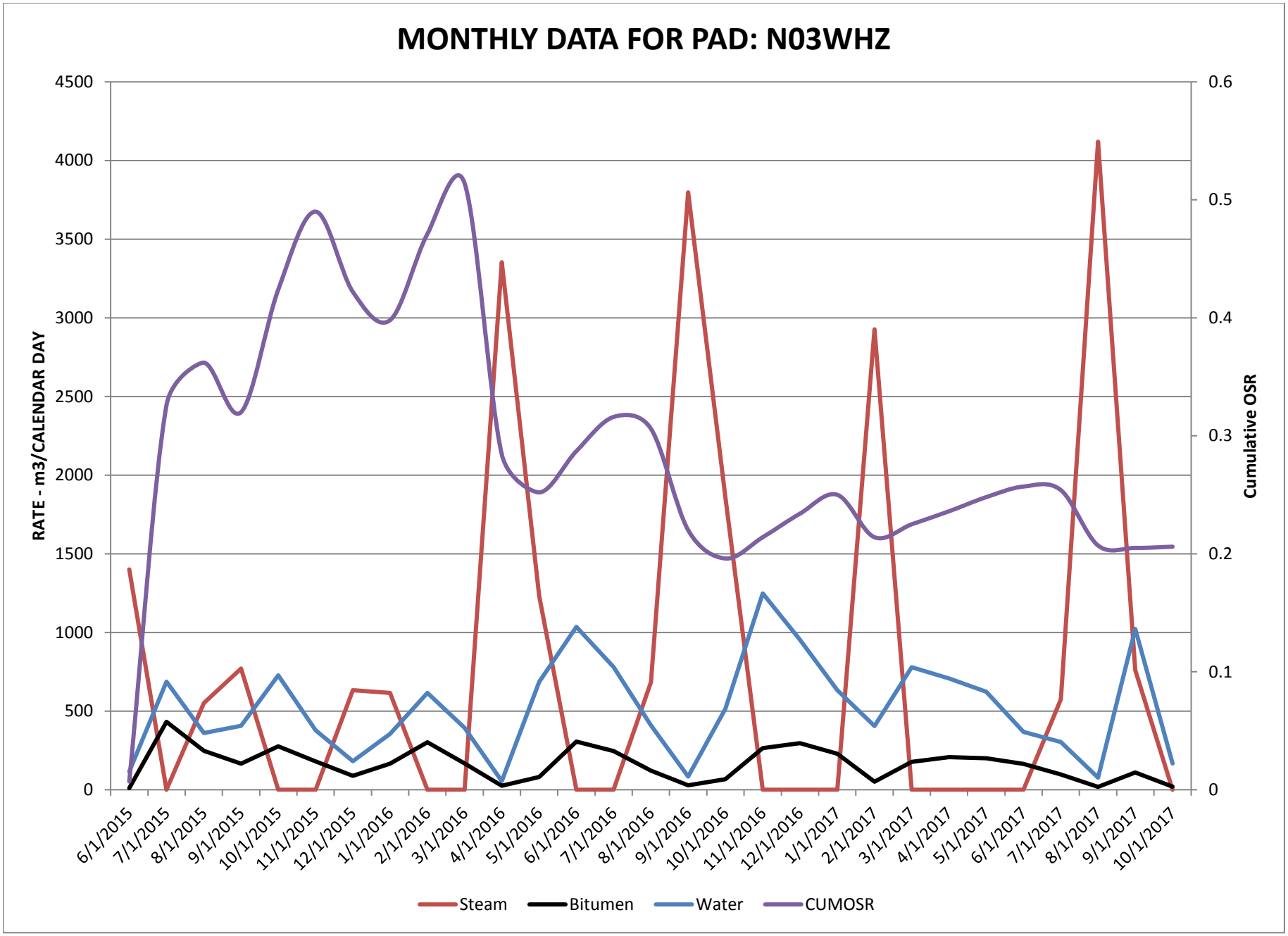
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N03WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
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2500
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500
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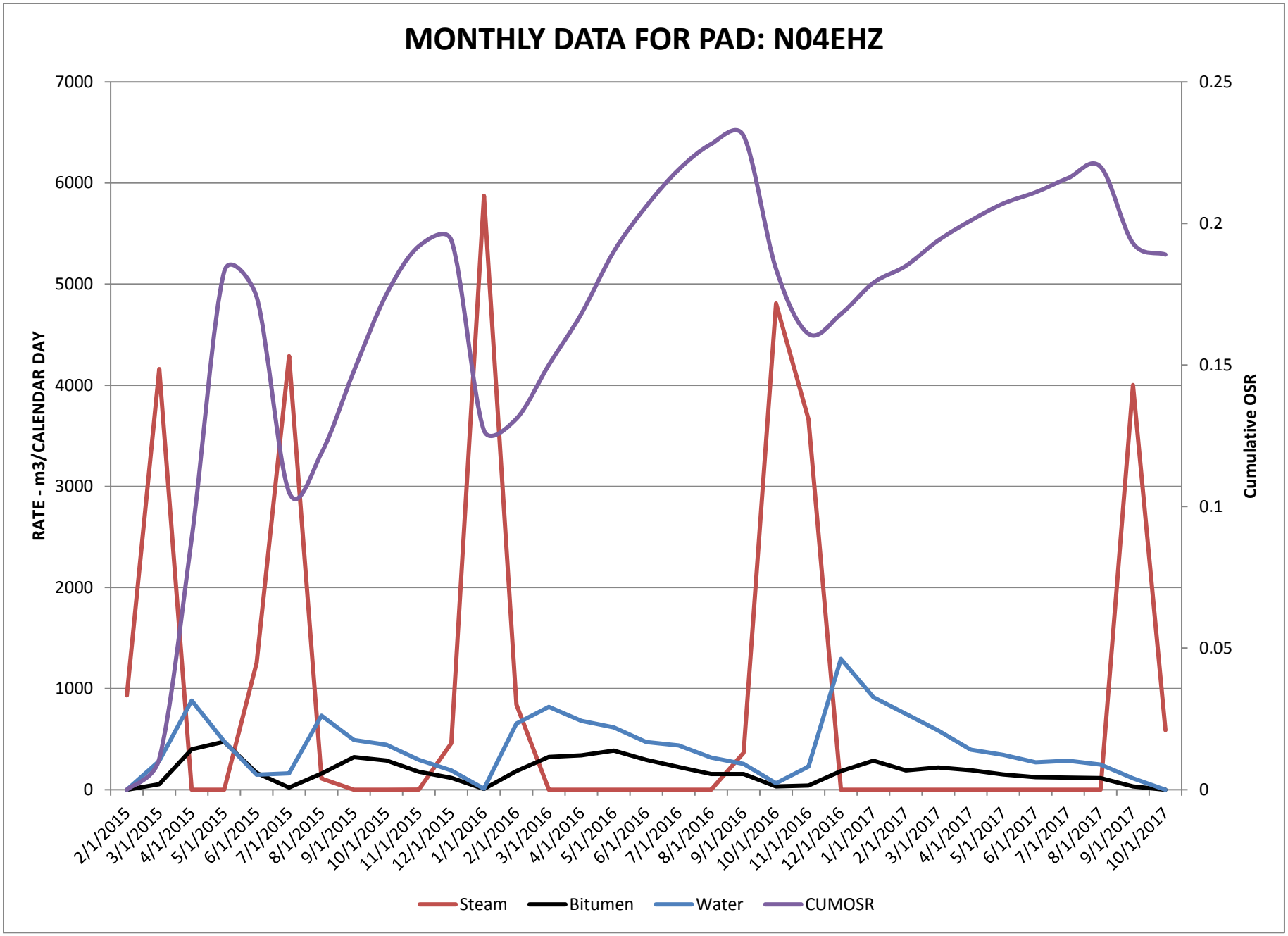
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N04EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
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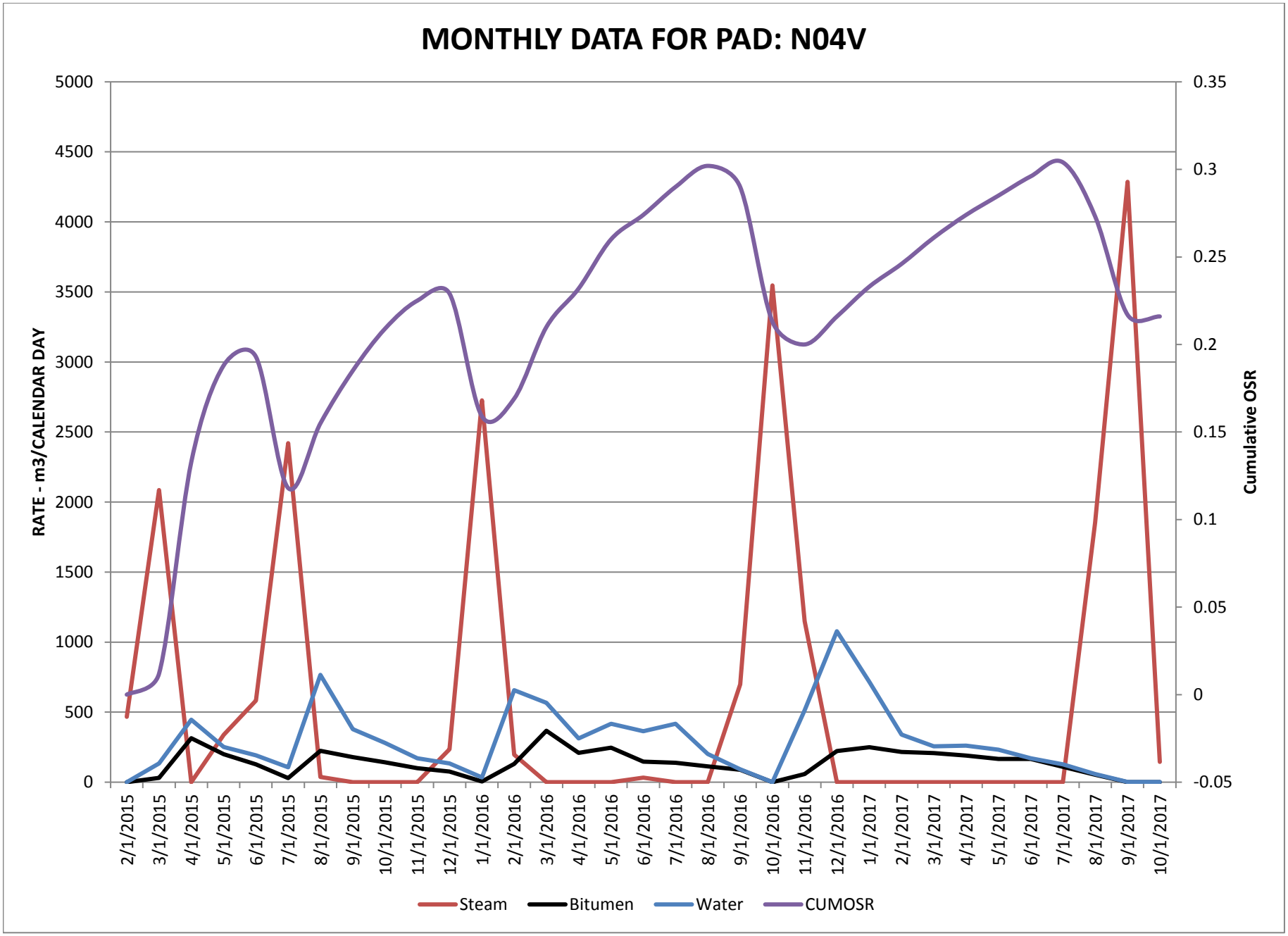
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N04V
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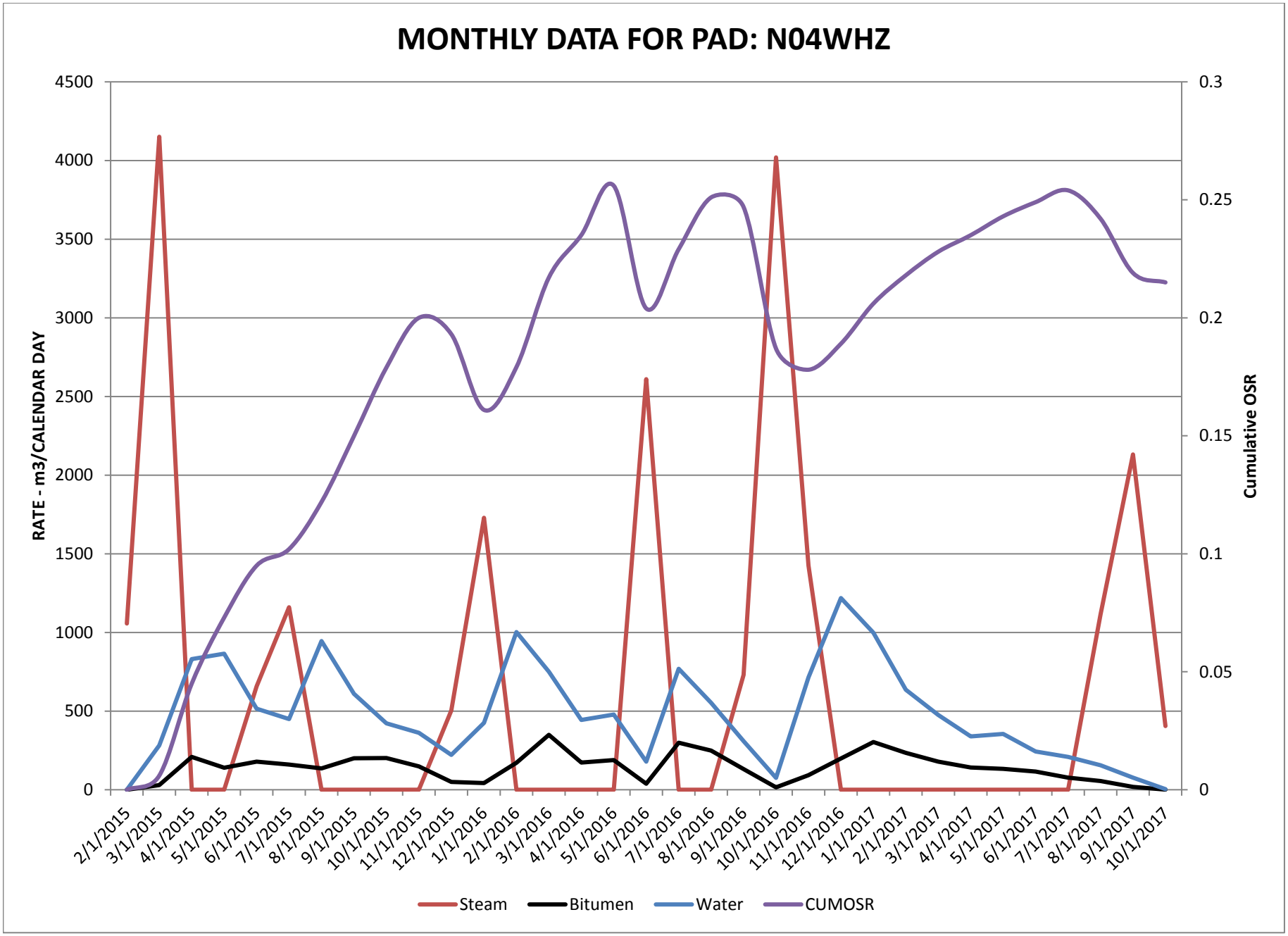
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N04WHZ
RATE - m3/CALENDAR DAY
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0.05
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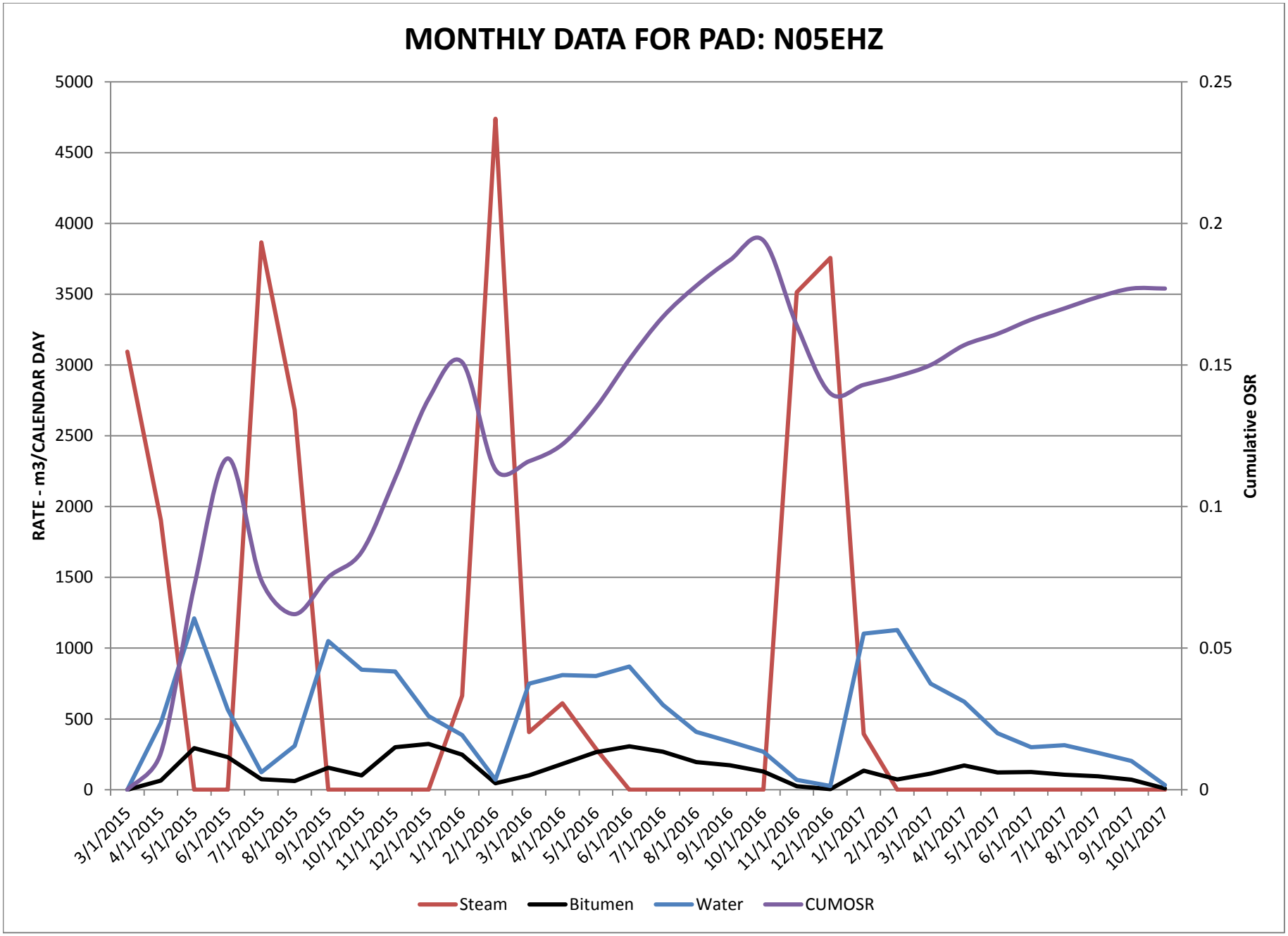
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N05EHZ
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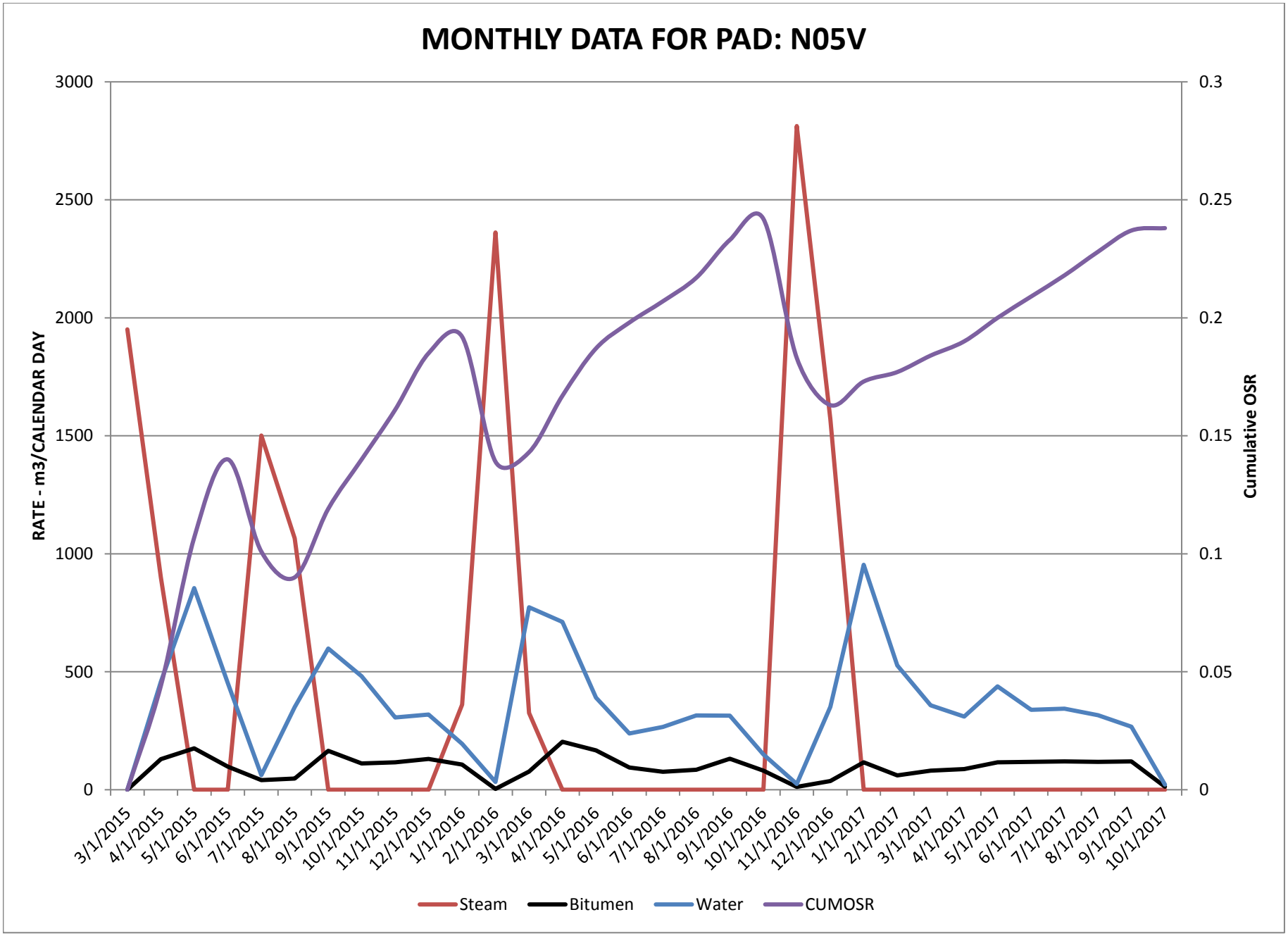
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N05V
RATE - m3/CALENDAR DAY
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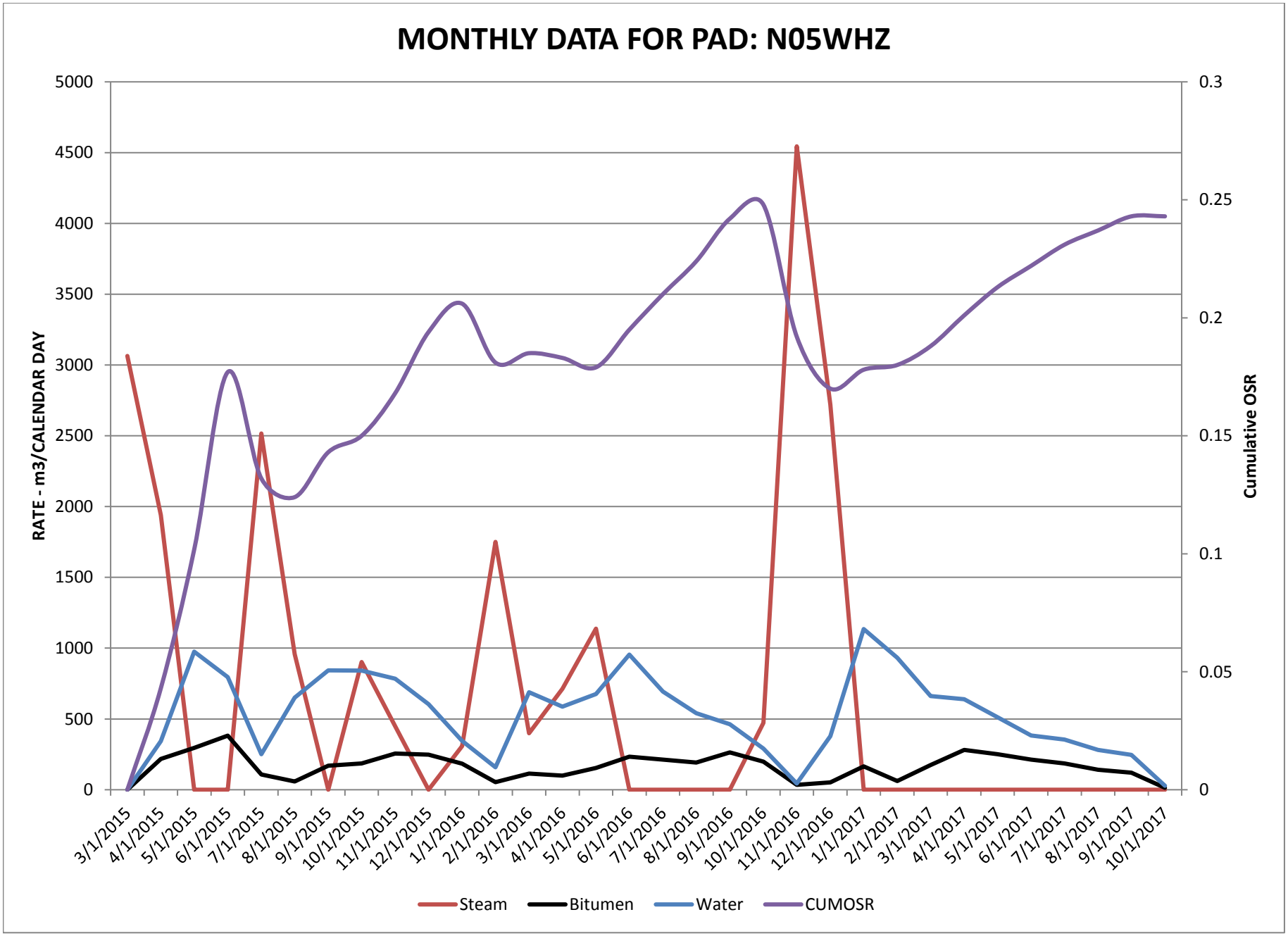
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N05WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
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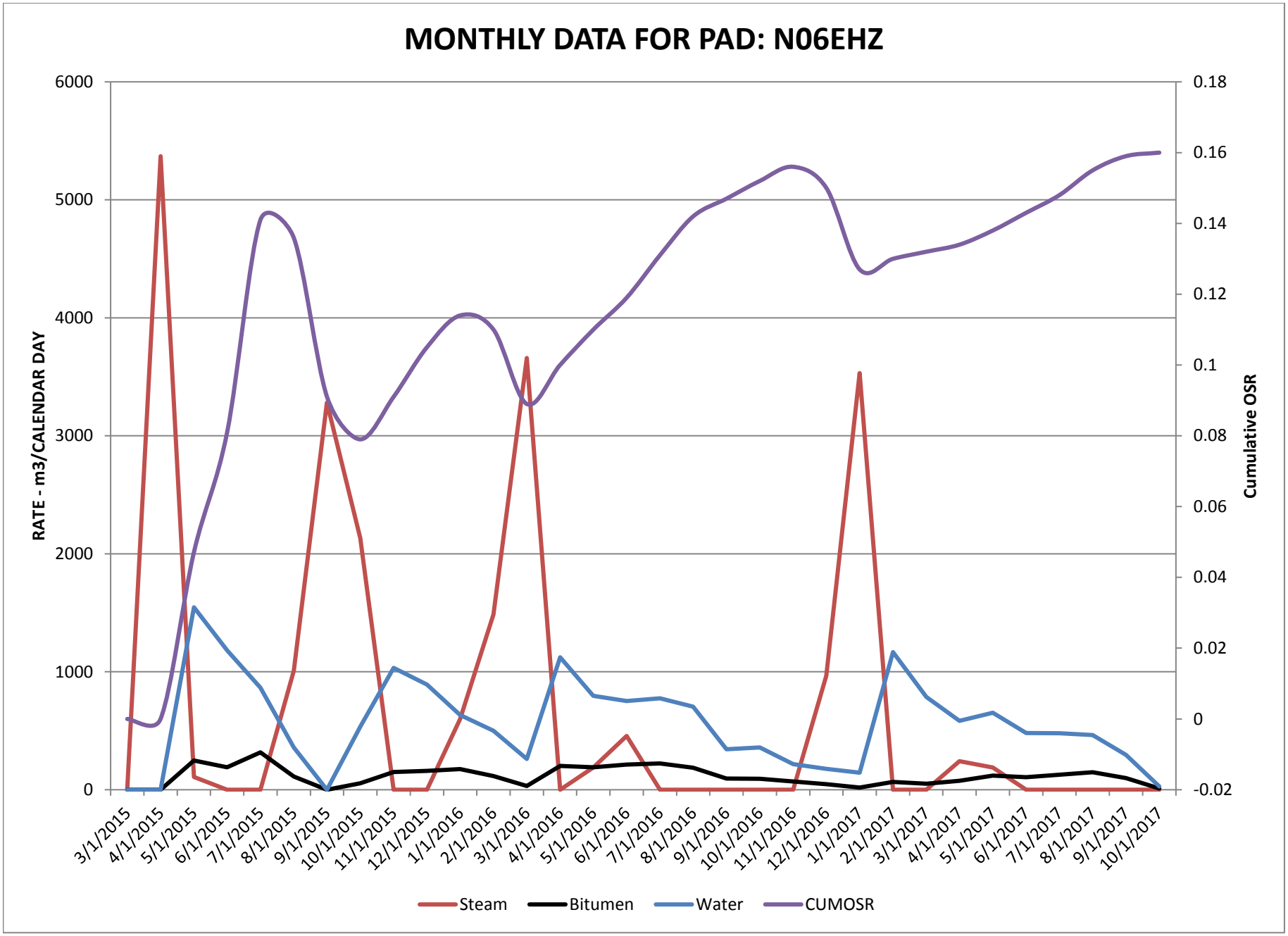
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N06EHZ
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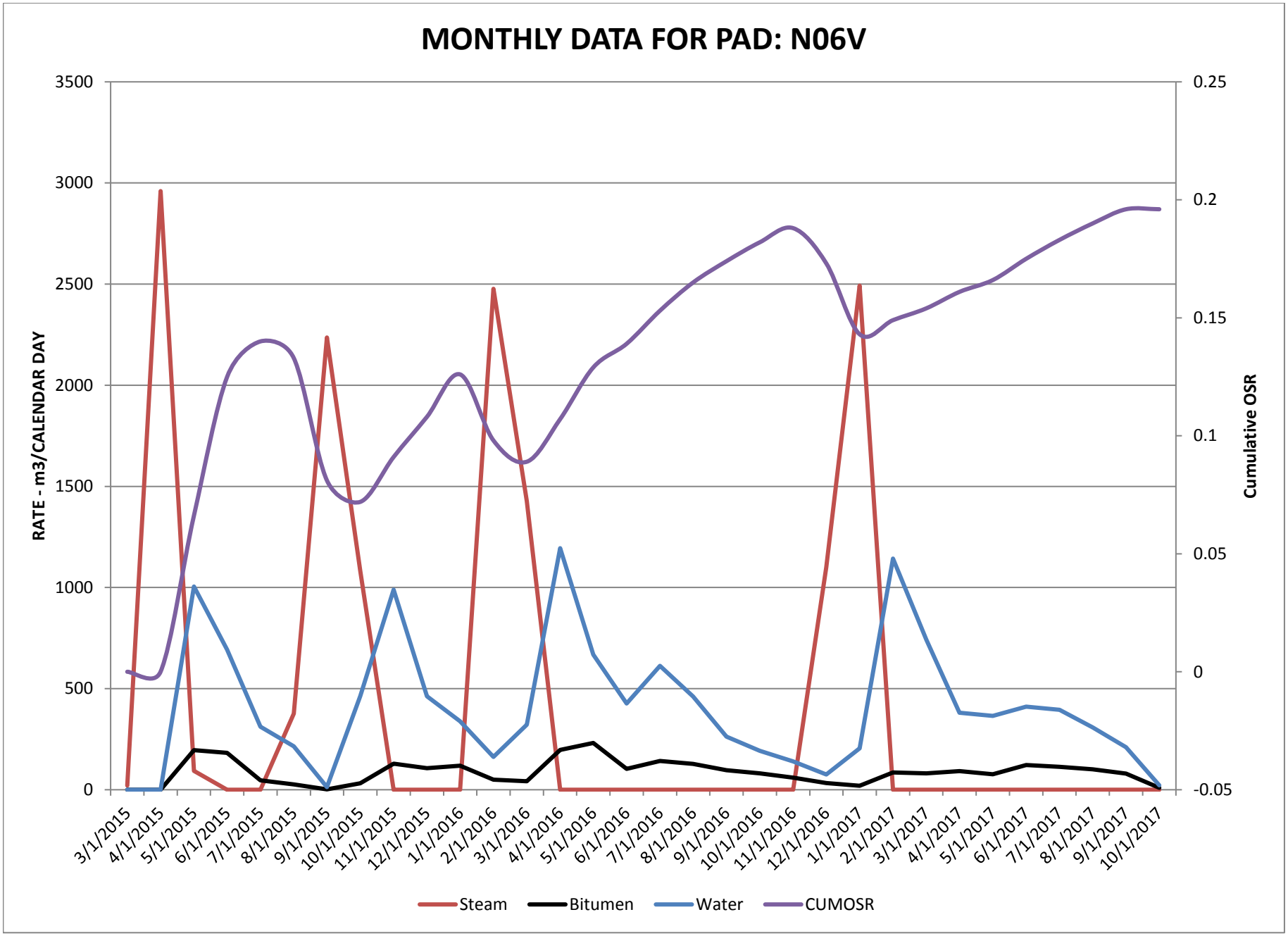
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N06V
RATE - m3/CALENDAR DAY
Cumulative OSR
3500
3000
2500
2000
1500
1000
500
0
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/2015
4/1/2015
5/1/2015
6/1/2015
7/1/2015
8/1/2015
9/1/2015
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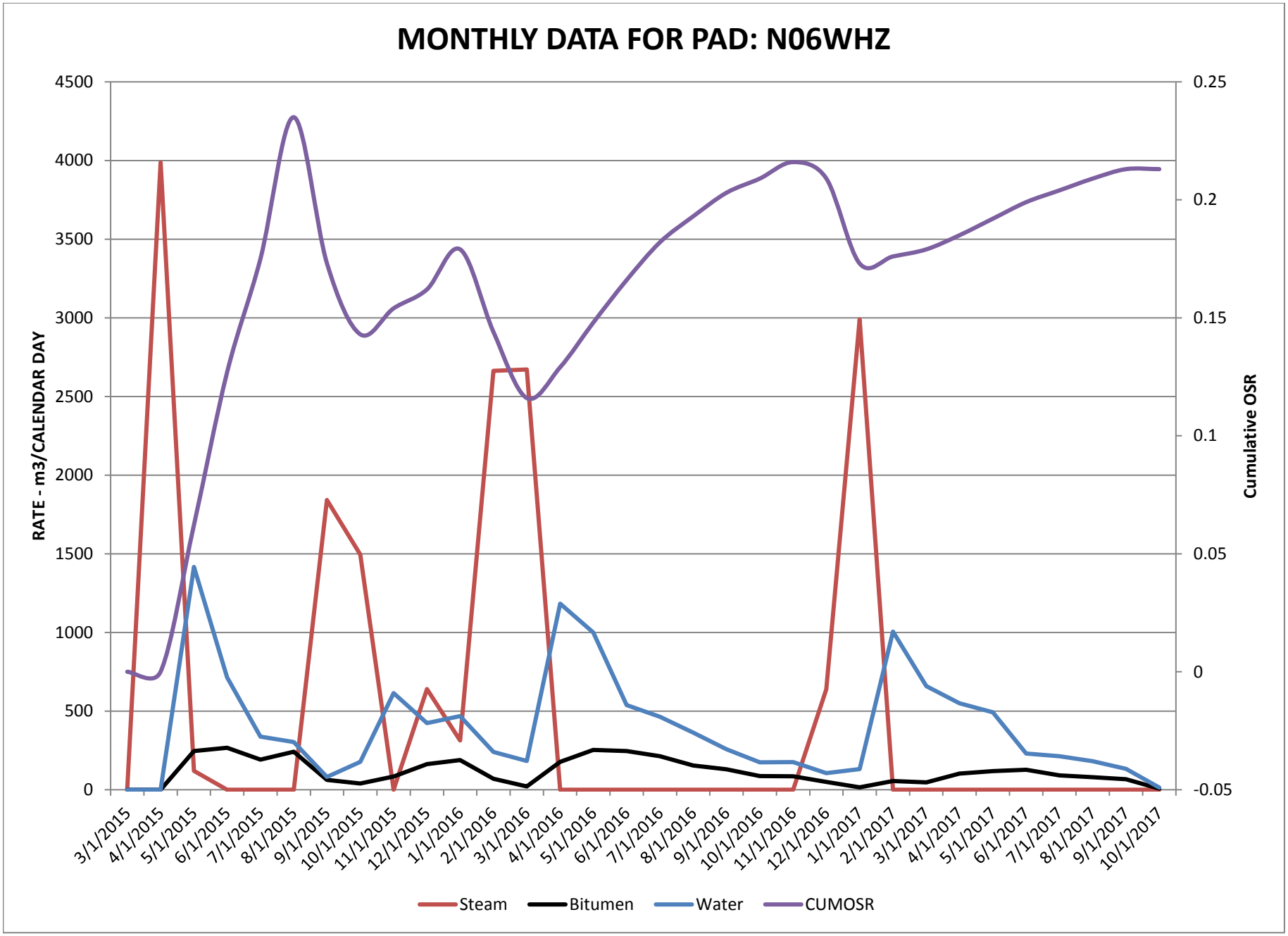
11/1/2015
12/1/2015
1/1/2016
2/1/2016
3/1/2016
4/1/2016
5/1/2016
6/1/2016
7/1/2016
8/1/2016
9/1/2016
10/1/2016
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
5/1/2017
6/1/2017
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N06WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
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3500
3000
2500
2000
1500
1000
500
0
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/2015
4/1/2015
5/1/2015
6/1/2015
7/1/2015
8/1/2015
9/1/2015
10/1/2015
11/1/2015
12/1/2015
1/1/2016
2/1/2016
3/1/2016
4/1/2016
5/1/2016
6/1/2016
7/1/2016
8/1/2016
9/1/2016
10/1/2016
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
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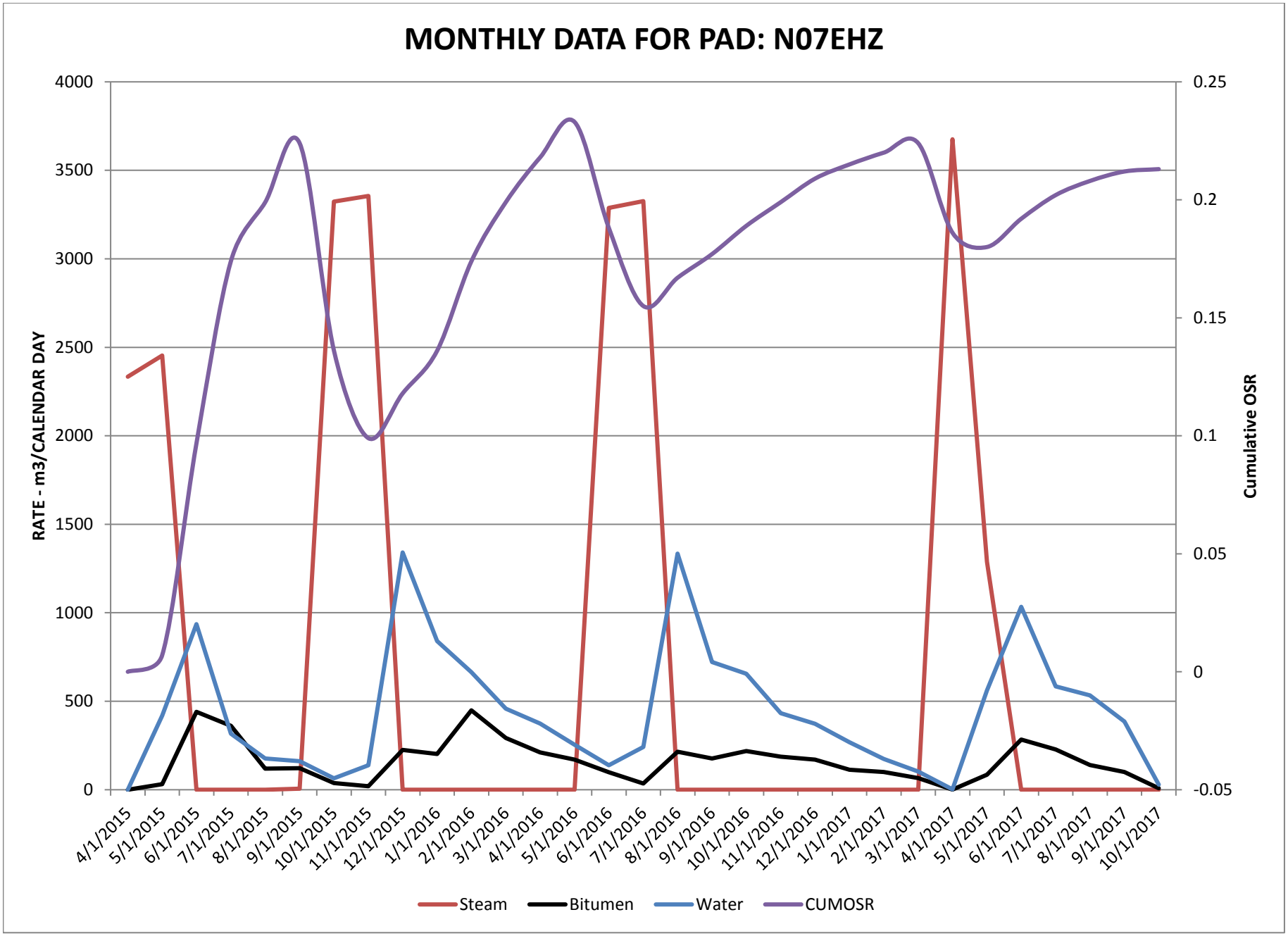
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N07EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
4000
3500
3000
2500
2000
1500
1000
500
0
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/2015
5/1/2015
6/1/2015
7/1/2015
8/1/2015
9/1/2015
10/1/2015
11/1/2015
12/1/2015
1/1/2016
2/1/2016
3/1/2016
4/1/2016
5/1/2016
6/1/2016
7/1/2016
8/1/2016
9/1/2016
10/1/2016
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
5/1/2017
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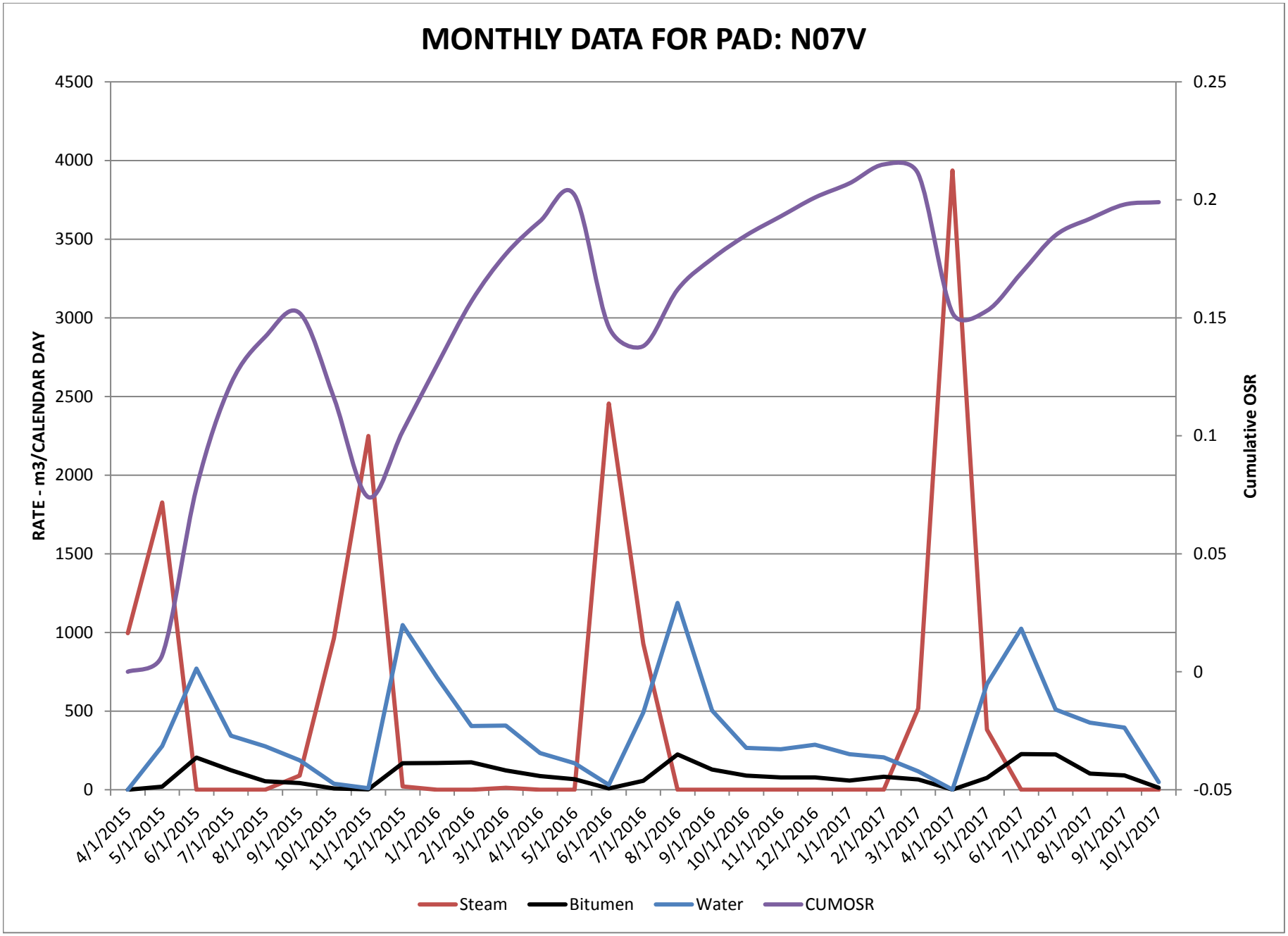
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N07V
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/2015
5/1/2015
6/1/2015
7/1/2015
8/1/2015
9/1/2015
10/1/2015
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12/1/2015
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2/1/2016
3/1/2016
4/1/2016
5/1/2016
6/1/2016
7/1/2016
8/1/2016
9/1/2016
10/1/2016
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
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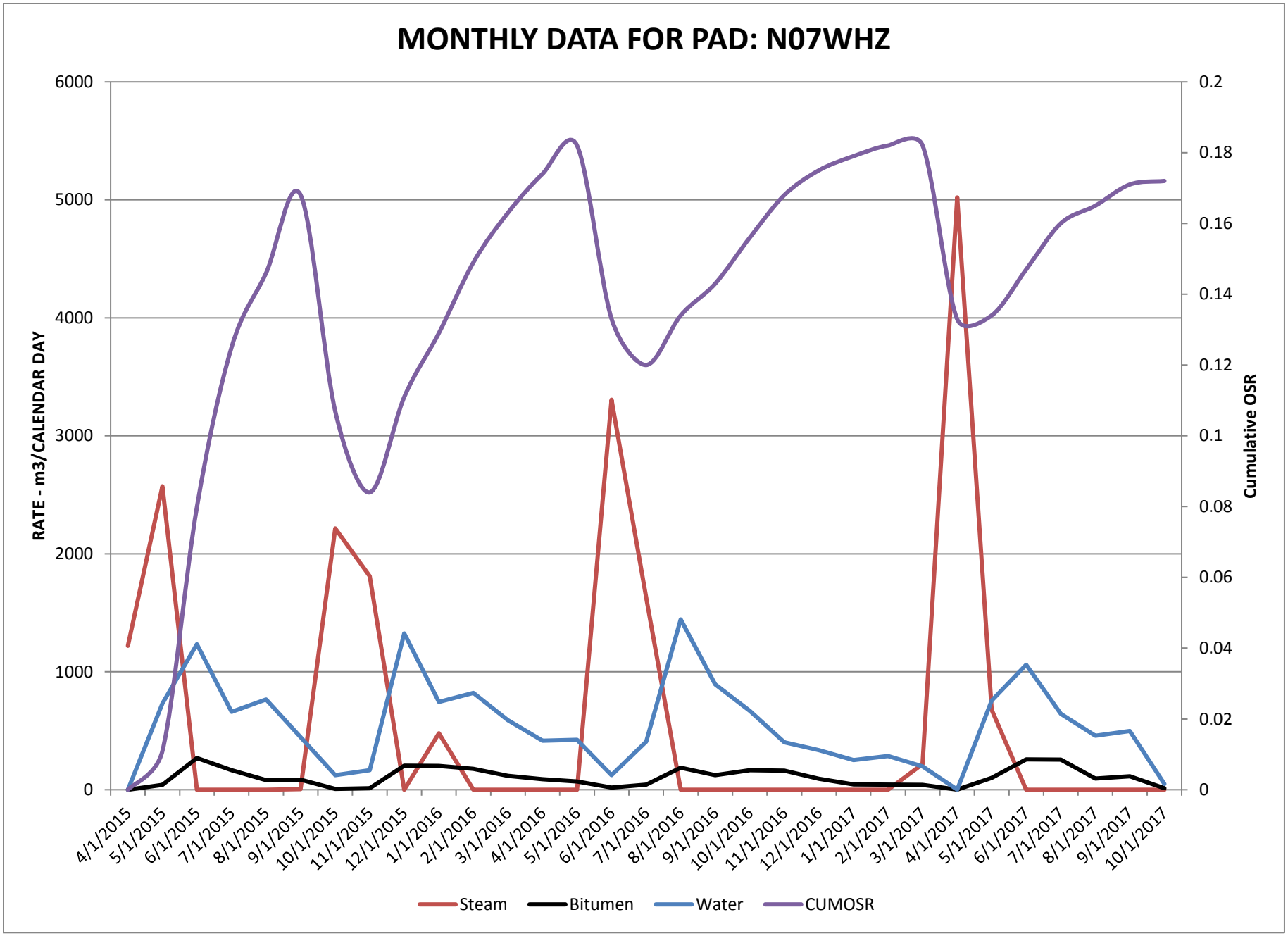
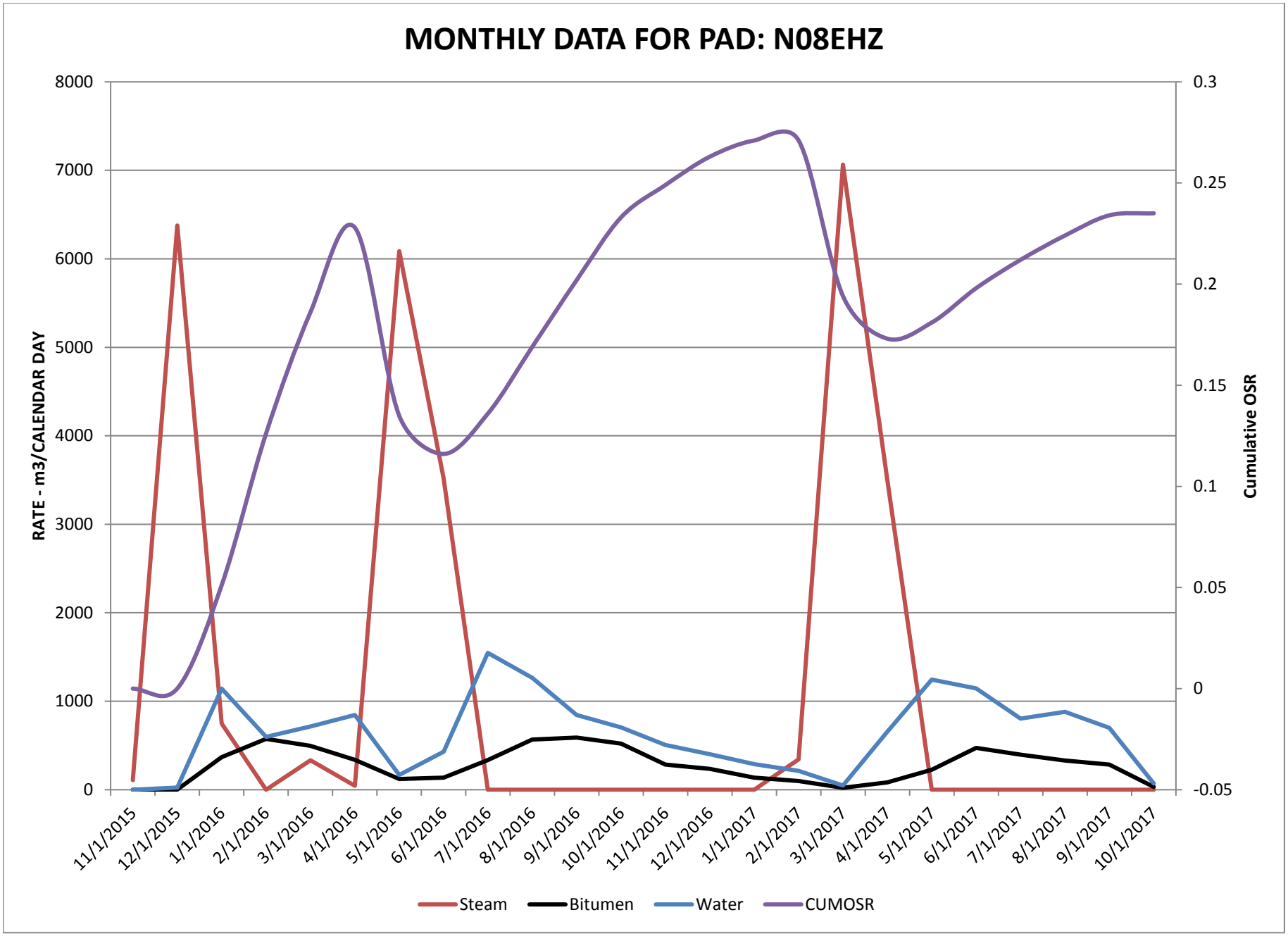
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N07WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4/1/2015
5/1/2015
6/1/2015
7/1/2015
8/1/2015
9/1/2015
10/1/2015
11/1/2015
12/1/2015
1/1/2016
2/1/2016
3/1/2016
4/1/2016
5/1/2016
6/1/2016
7/1/2016
8/1/2016
9/1/2016
10/1/2016
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
5/1/2017
6/1/2017
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N08EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
11/1/2015
12/1/2015
1/1/2016
2/1/2016
3/1/2016
4/1/2016
5/1/2016
6/1/2016
7/1/2016
8/1/2016
9/1/2016
10/1/2016
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
5/1/2017
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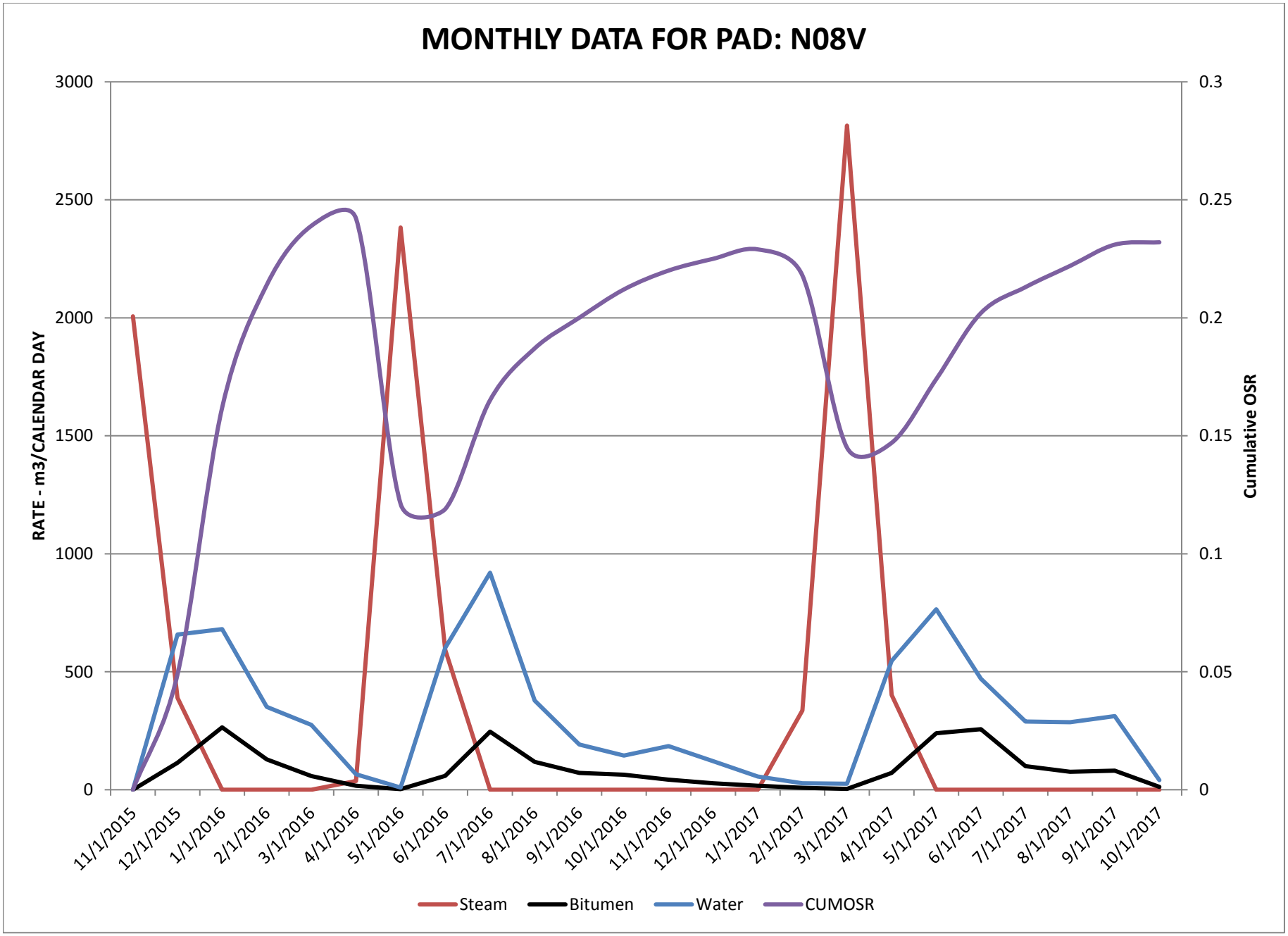
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N08V
RATE - m3/CALENDAR DAY
Cumulative OSR
3000
2500
2000
1500
1000
500
0
0.3
0.25
0.2
0.15
0.1
0.05
0
11/1/2015
12/1/2015
1/1/2016
2/1/2016
3/1/2016
4/1/2016
5/1/2016
6/1/2016
7/1/2016
8/1/2016
9/1/2016
10/1/2016
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
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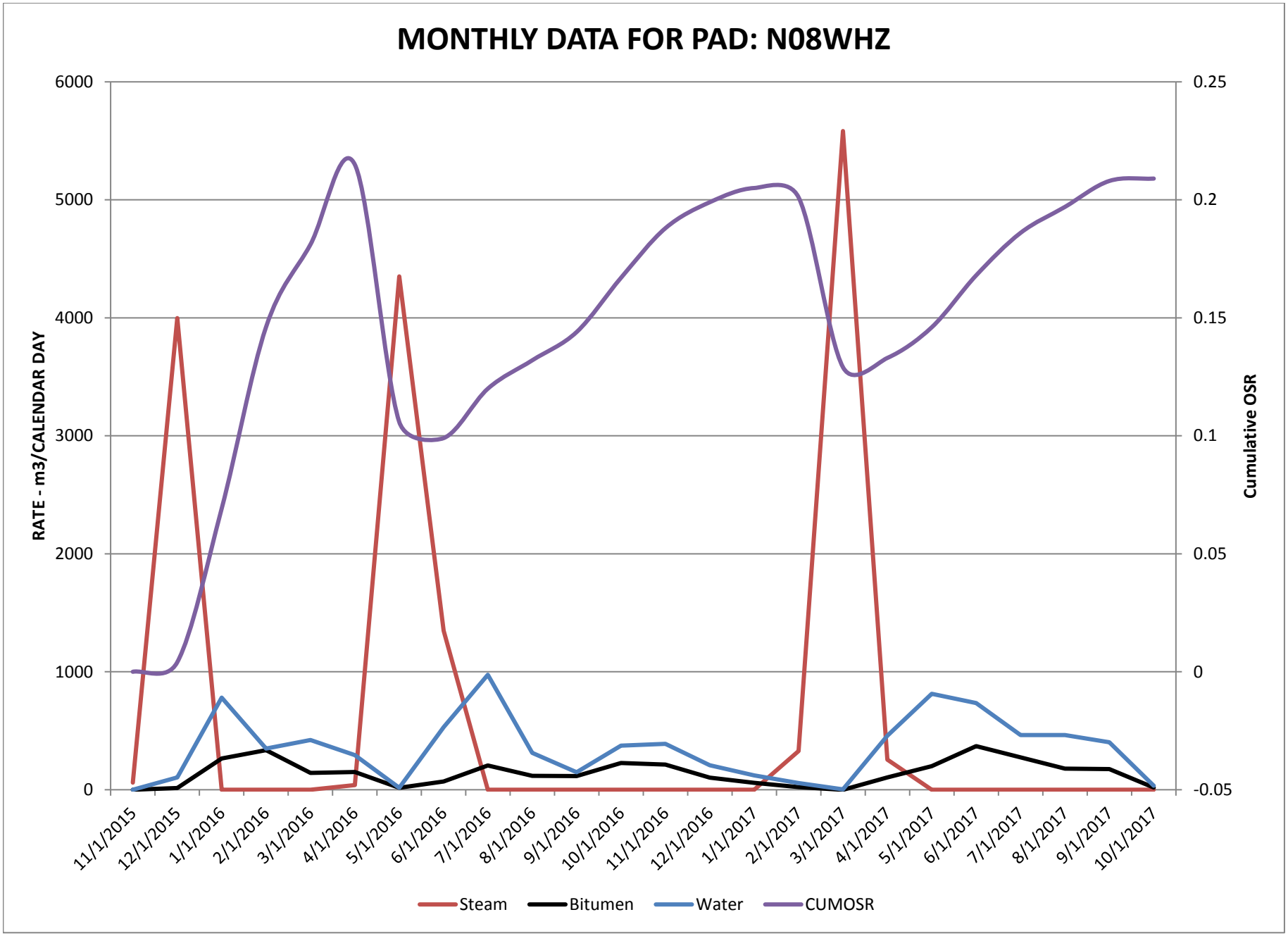
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N08WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.25
0.2
0.15
0.1
0.05
0
-0.05
11/1/2015
12/1/2015
1/1/2016
2/1/2016
3/1/2016
4/1/2016
5/1/2016
6/1/2016
7/1/2016
8/1/2016
9/1/2016
10/1/2016
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
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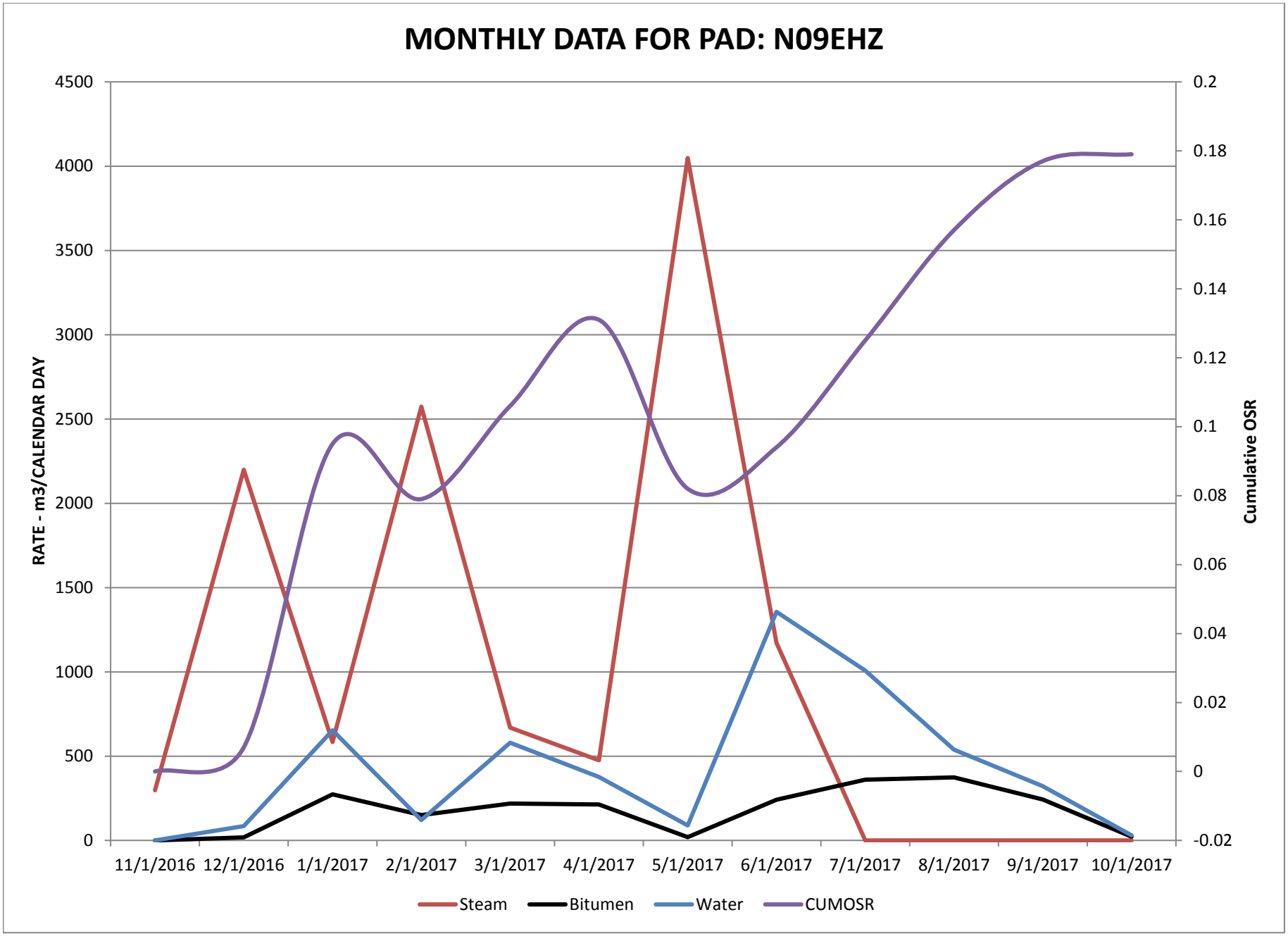
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N09EHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
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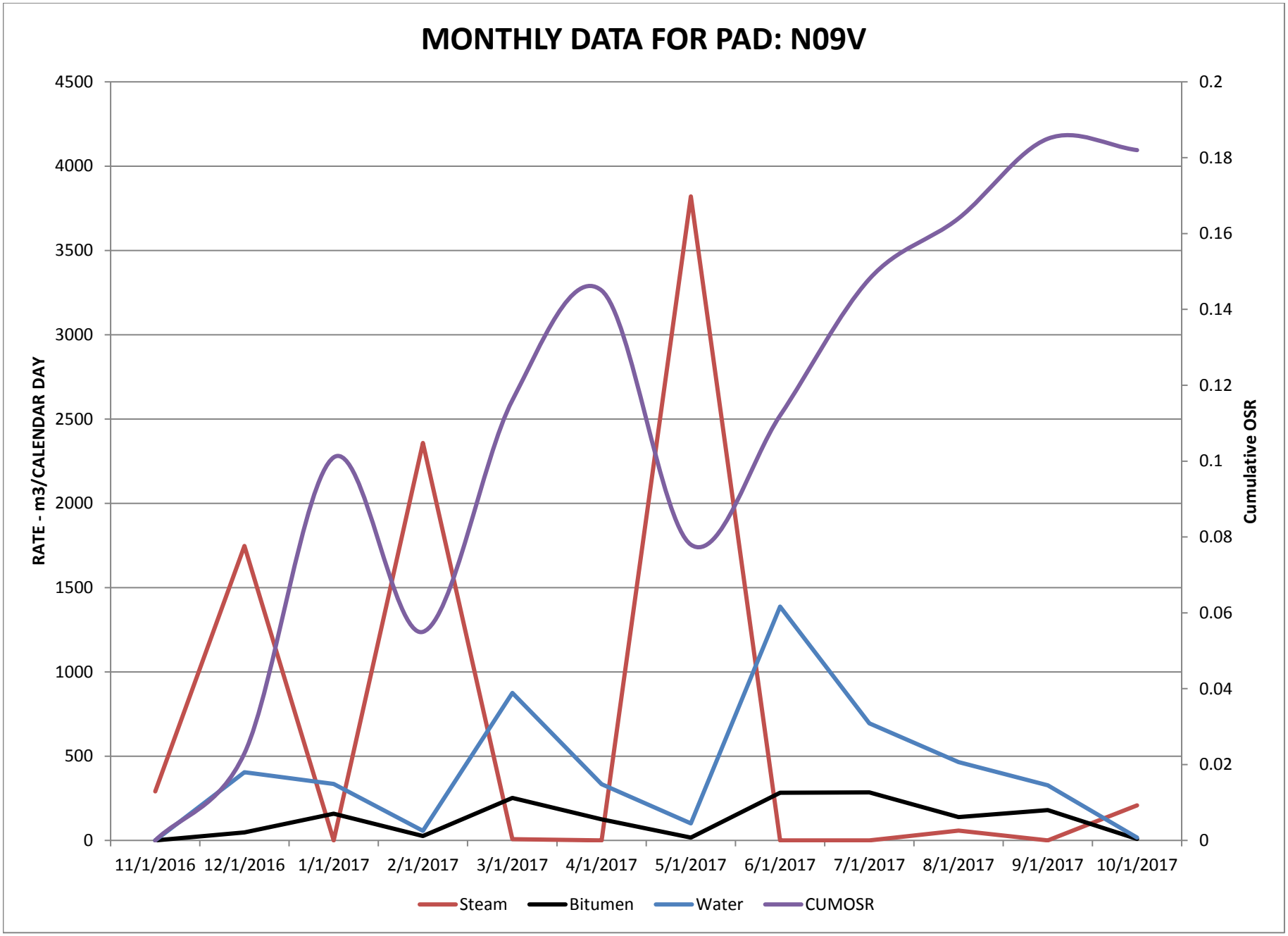
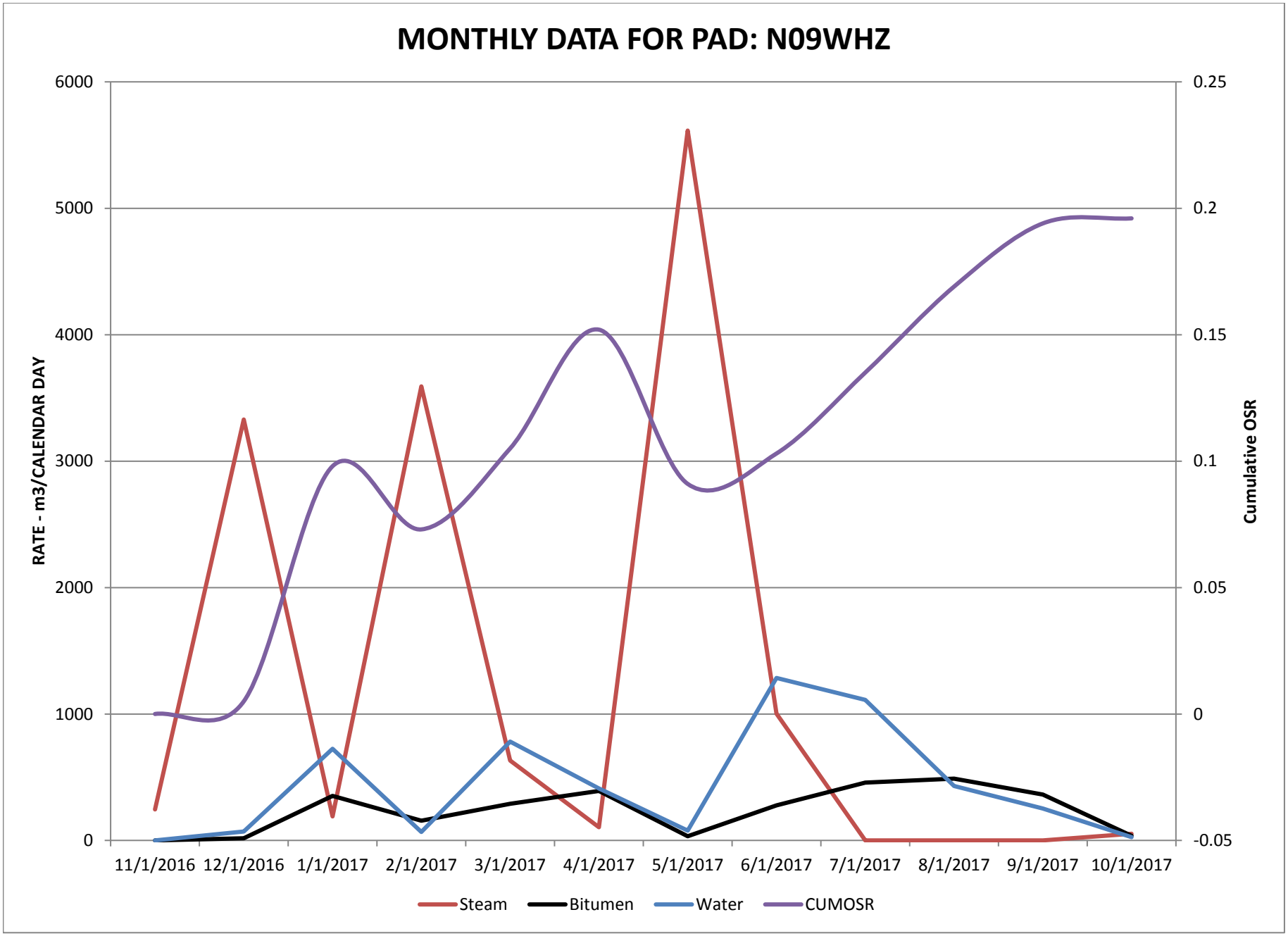
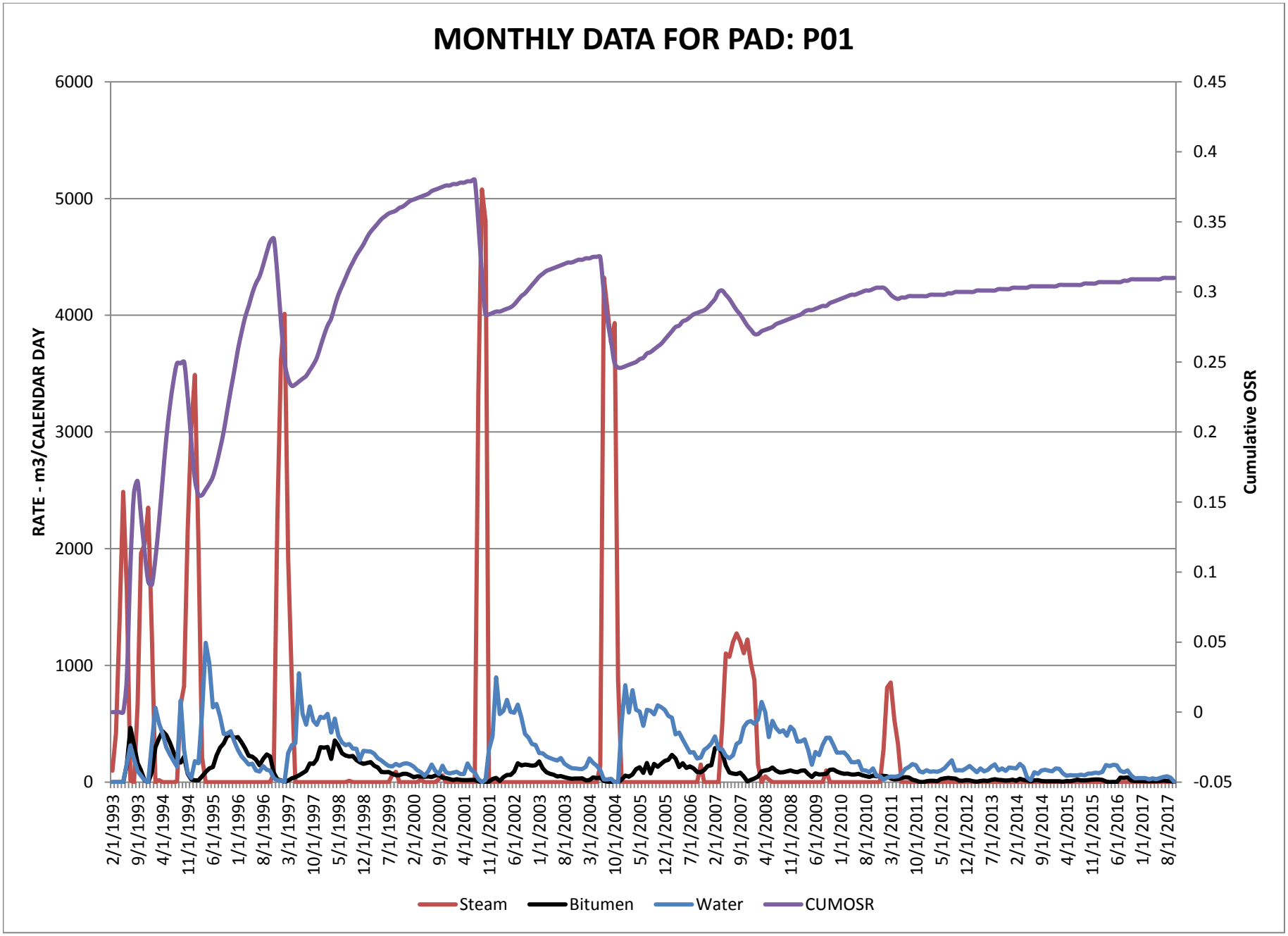
4000
3500
3000
2500
2000
1500
1000
500
0
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
5/1/2017
6/1/2017
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N09V
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
5/1/2017
6/1/2017
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: N09WHZ
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.25
0.2
0.15
0.1
0.05
0
-0.05
11/1/2016
12/1/2016
1/1/2017
2/1/2017
3/1/2017
4/1/2017
5/1/2017
6/1/2017
7/1/2017
8/1/2017
9/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: P01
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
2/1/1993
9/1/1993
4/1/1994
11/1/1994
6/1/1995
1/1/1996
8/1/1996
3/1/1997
10/1/1997
5/1/1998
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9/1/2000
4/1/2001
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6/1/2002
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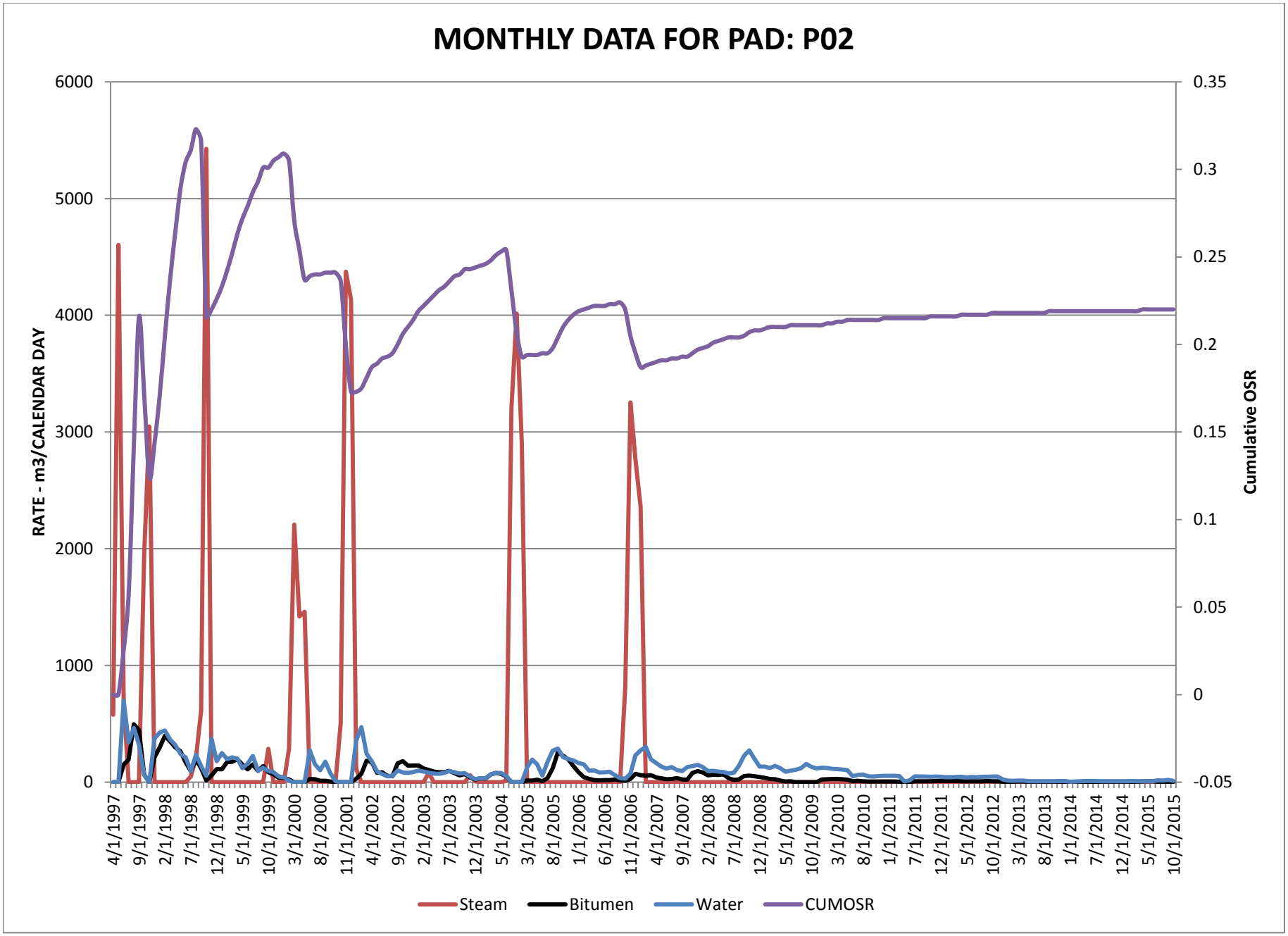
5/1/2005
12/1/2005
7/1/2006
2/1/2007
9/1/2007
4/1/2008
11/1/2008
6/1/2009
1/1/2010
8/1/2010
3/1/2011
10/1/2011
5/1/2012
12/1/2012
7/1/2013
2/1/2014
9/1/2014
4/1/2015
11/1/2015
6/1/2016
1/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: P02
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/1997
9/1/1997
2/1/1998
7/1/1998
12/1/1998
5/1/1999
10/1/1999
3/1/2000
8/1/2000
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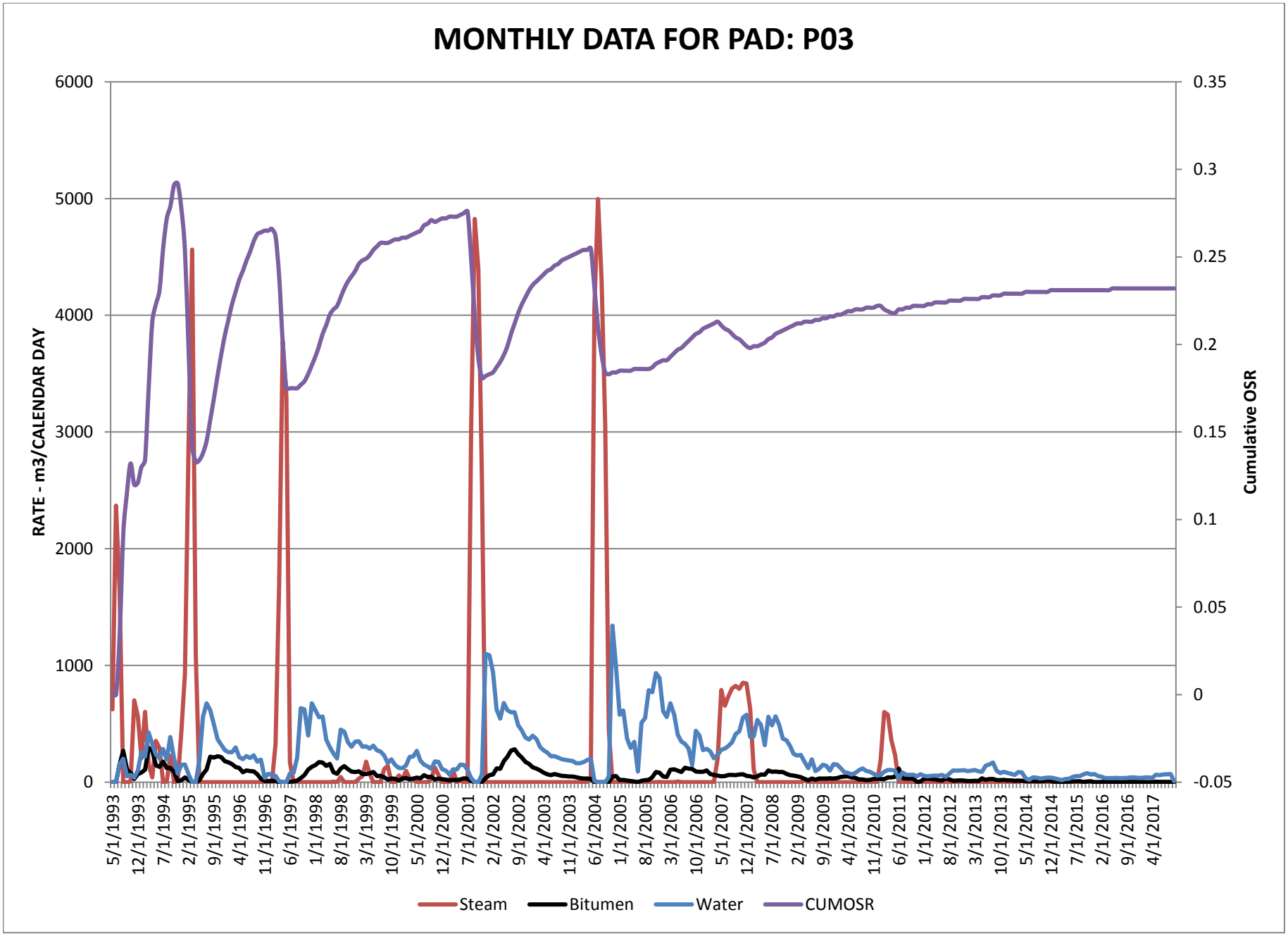
4/1/2002
9/1/2002
2/1/2003
7/1/2003
12/1/2003
5/1/2004
3/1/2005
8/1/2005
1/1/2006
6/1/2006
11/1/2006
4/1/2007
9/1/2007
2/1/2008
7/1/2008
12/1/2008
5/1/2009
10/1/2009
3/1/2010
8/1/2010
1/1/2011
7/1/2011
12/1/2011
5/1/2012
10/1/2012
3/1/2013
8/1/2013
1/1/2014
7/1/2014
12/1/2014
5/1/2015
10/1/2015
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: P03
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/1993
12/1/1993
7/1/1994
2/1/1995
9/1/1995
4/1/1996
11/1/1996
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9/1/2002
4/1/2003
11/1/2003
6/1/2004
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8/1/2005
3/1/2006
10/1/2006
5/1/2007
12/1/2007
7/1/2008
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8/1/2012
3/1/2013
10/1/2013
5/1/2014
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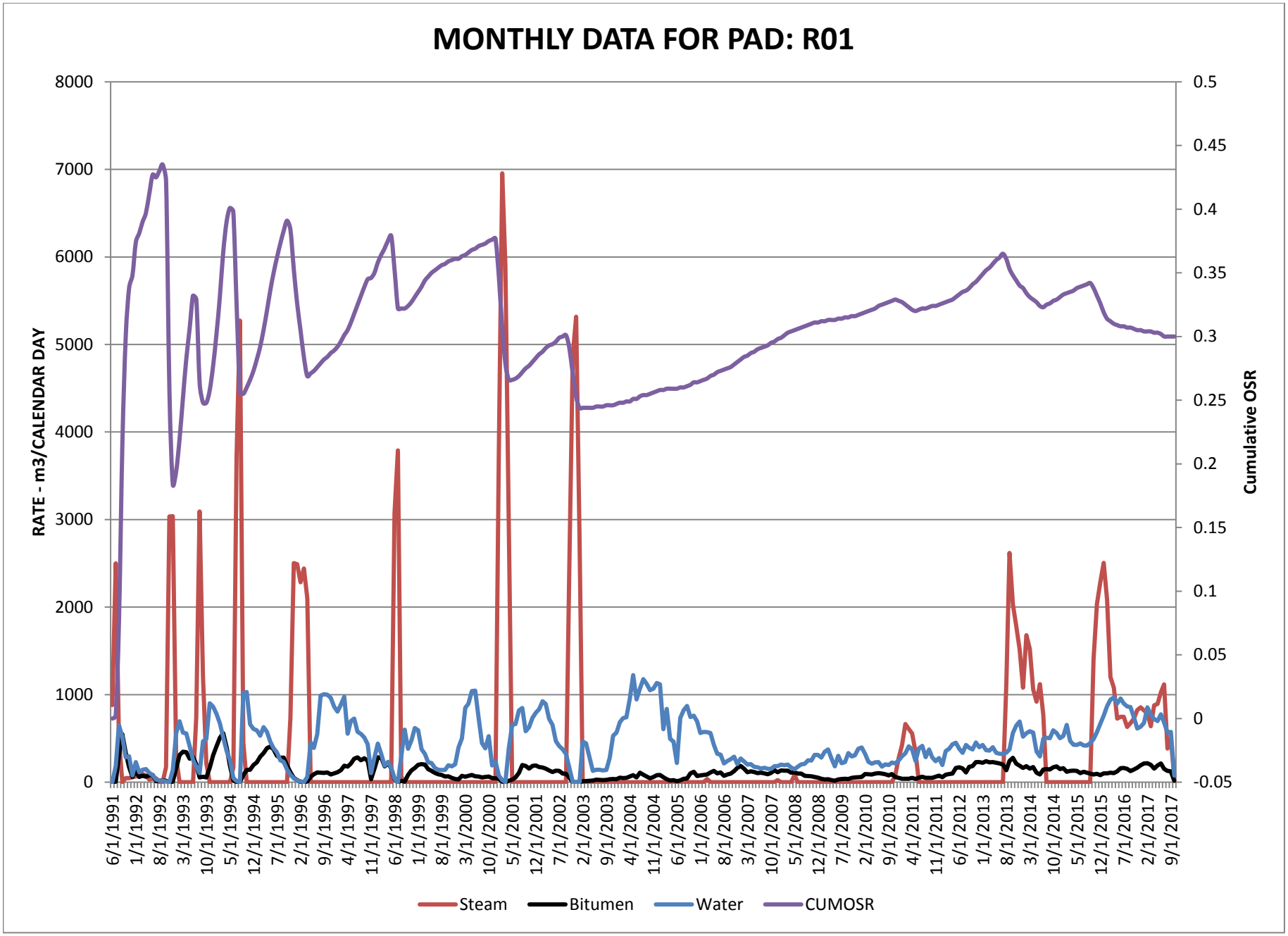
7/1/2015
2/1/2016
9/1/2016
4/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: R01
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/1991
1/1/1992
8/1/1992
3/1/1993
10/1/1993
5/1/1994
12/1/1994
7/1/1995
2/1/1996
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4/1/1997
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7/1/2002
2/1/2003
9/1/2003
4/1/2004
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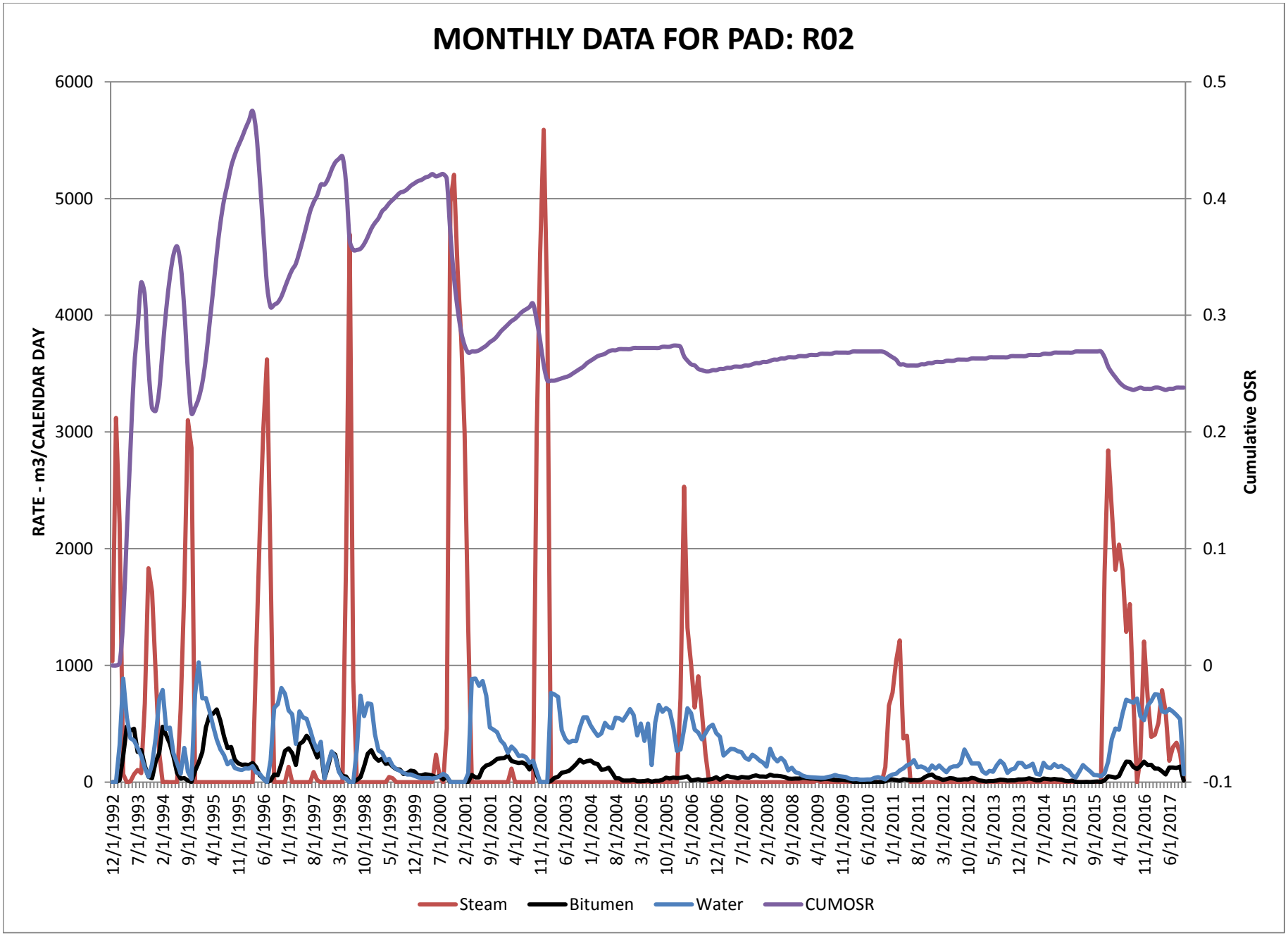
1/1/2013
8/1/2013
3/1/2014
10/1/2014
5/1/2015
12/1/2015
7/1/2016
2/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: R02
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.5
0.4
0.3
0.2
0.1
0
-0.1
12/1/1992
7/1/1993
2/1/1994
9/1/1994
4/1/1995
11/1/1995
6/1/1996
1/1/1997
8/1/1997
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7/1/2000
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9/1/2001
4/1/2002
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3/1/2005
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5/1/2013
12/1/2013
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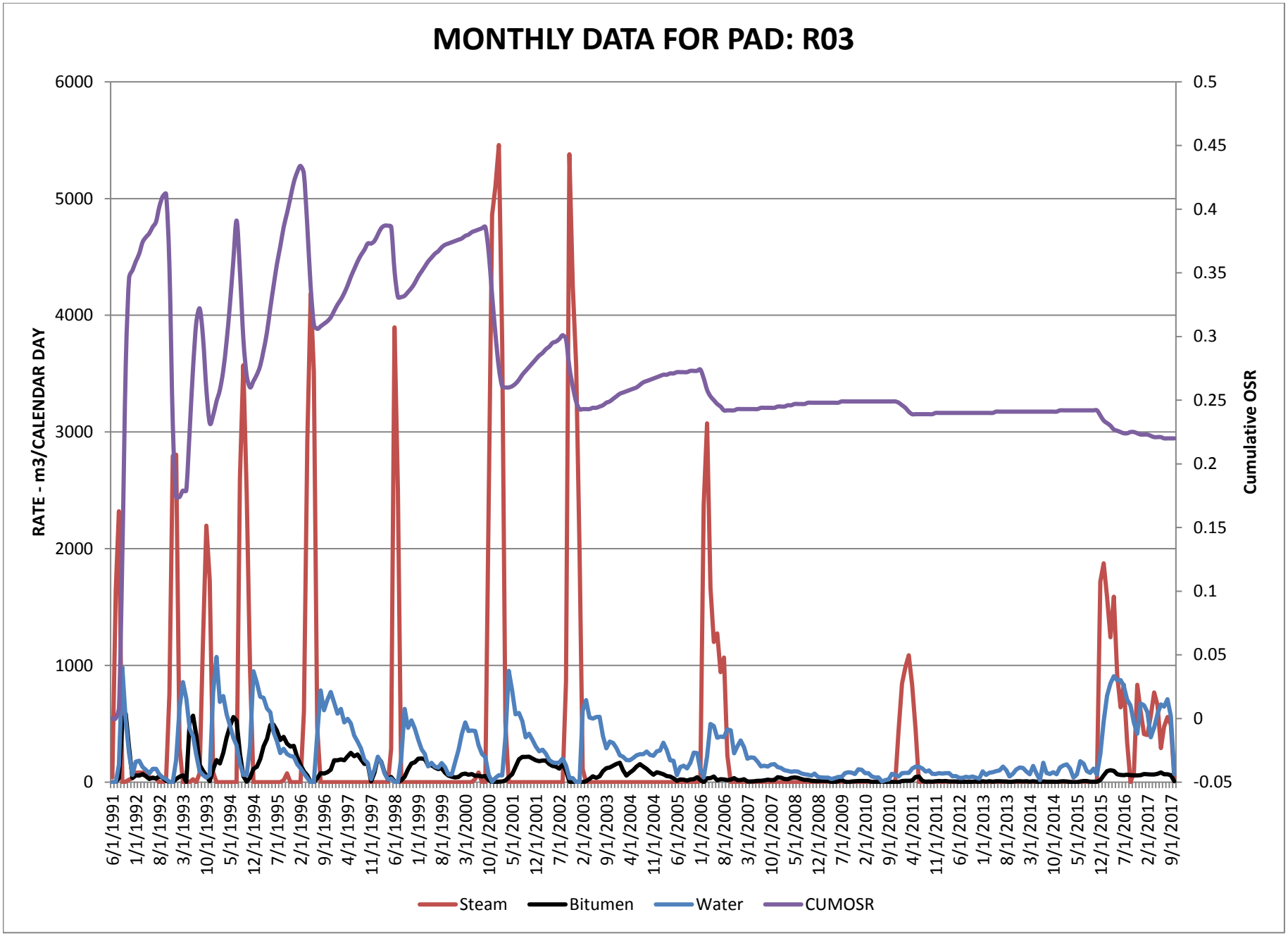
4/1/2016
11/1/2016
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: R03
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/1991
1/1/1992
8/1/1992
3/1/1993
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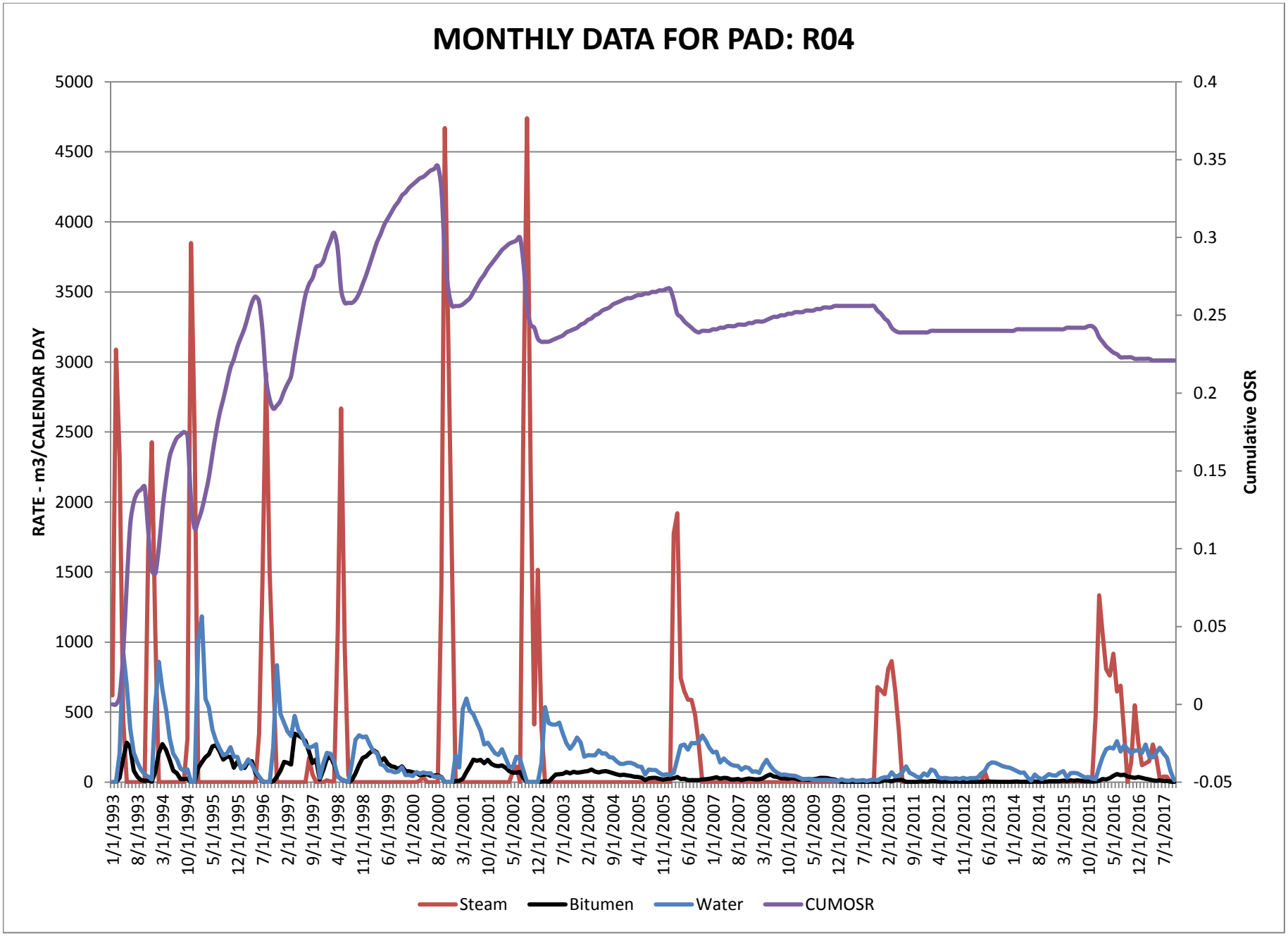
8/1/2013
3/1/2014
10/1/2014
5/1/2015
12/1/2015
7/1/2016
2/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: R04
RATE - m3/CALENDAR DAY
Cumulative OSR
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4000
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3000
2500
2000
1500
1000
500
0
0.4
0.35
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0.25
0.2
0.15
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0.05
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1/1/1993
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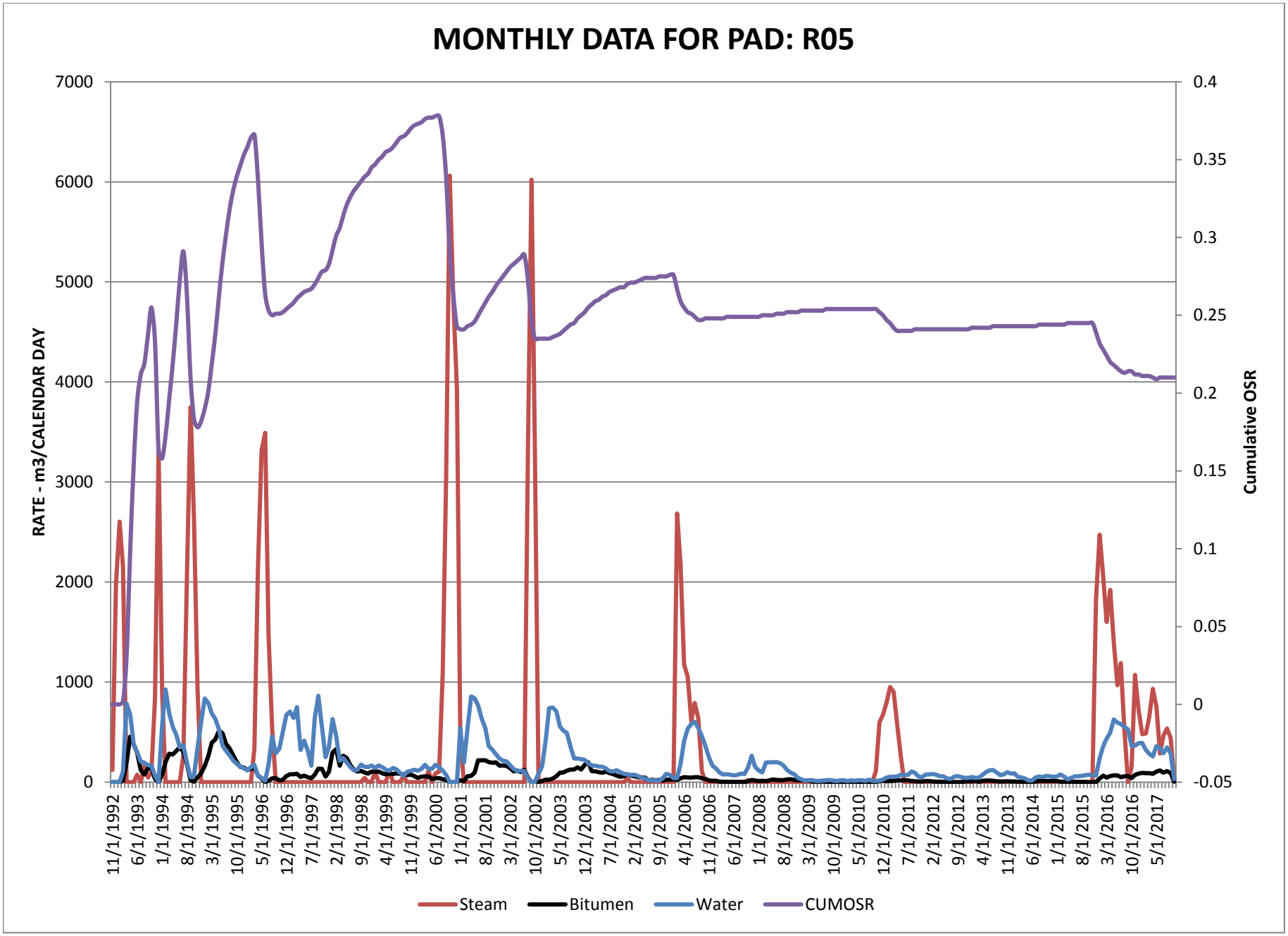
4/1/2012
11/1/2012
6/1/2013
1/1/2014
8/1/2014
3/1/2015
10/1/2015
5/1/2016
12/1/2016
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: R05
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
11/1/1992
6/1/1993
1/1/1994
8/1/1994
3/1/1995
10/1/1995
5/1/1996
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7/1/1997
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6/1/2007
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12/1/2010
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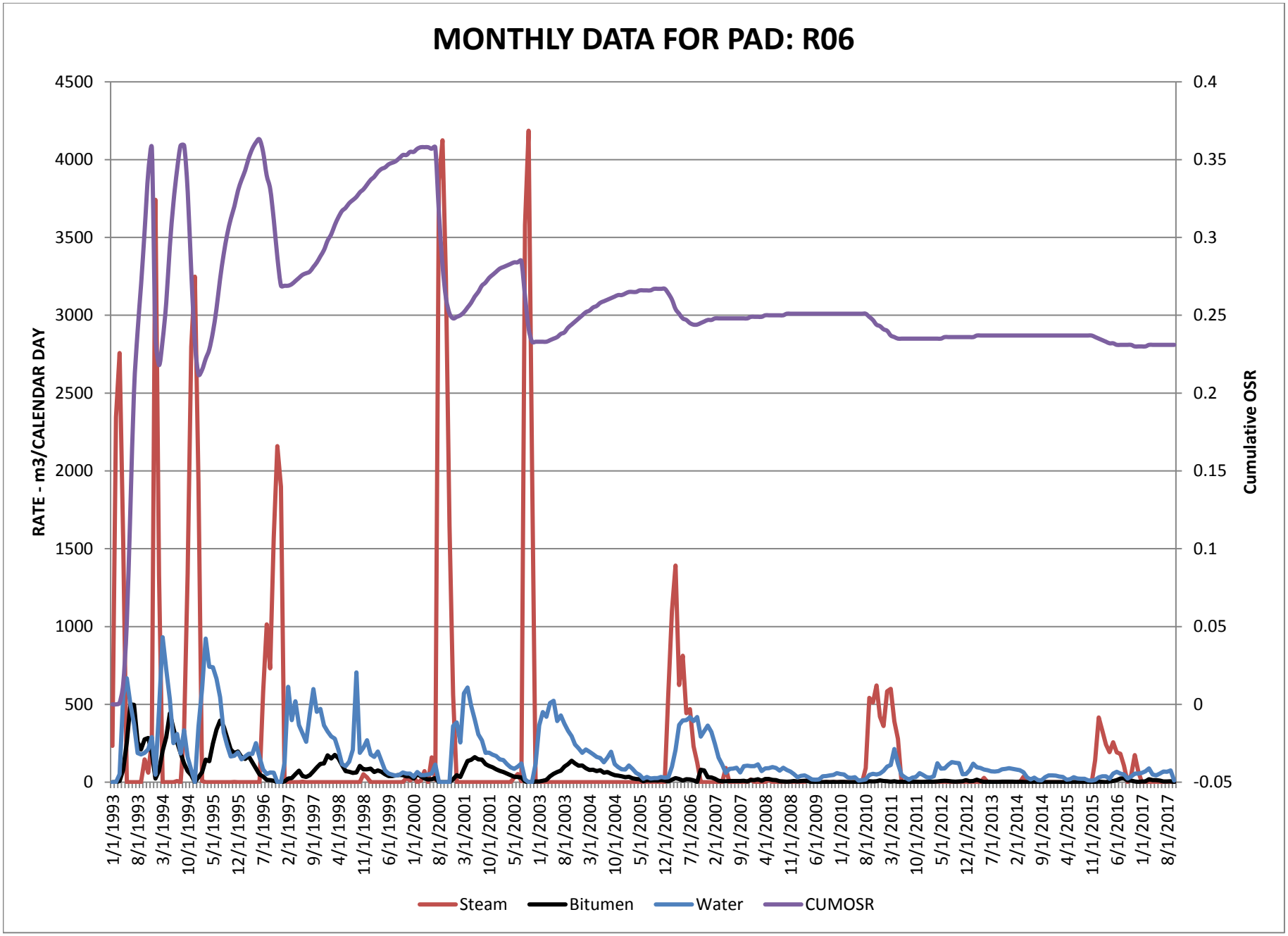
9/1/2012
4/1/2013
11/1/2013
6/1/2014
1/1/2015
8/1/2015
3/1/2016
10/1/2016
5/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: R06
RATE - m3/CALENDAR DAY
Cumulative OSR
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3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
1/1/1993
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3/1/1994
10/1/1994
5/1/1995
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7/1/1996
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9/1/1997
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10/1/2001
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3/1/2004
10/1/2004
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12/1/2005
7/1/2006
2/1/2007
9/1/2007
4/1/2008
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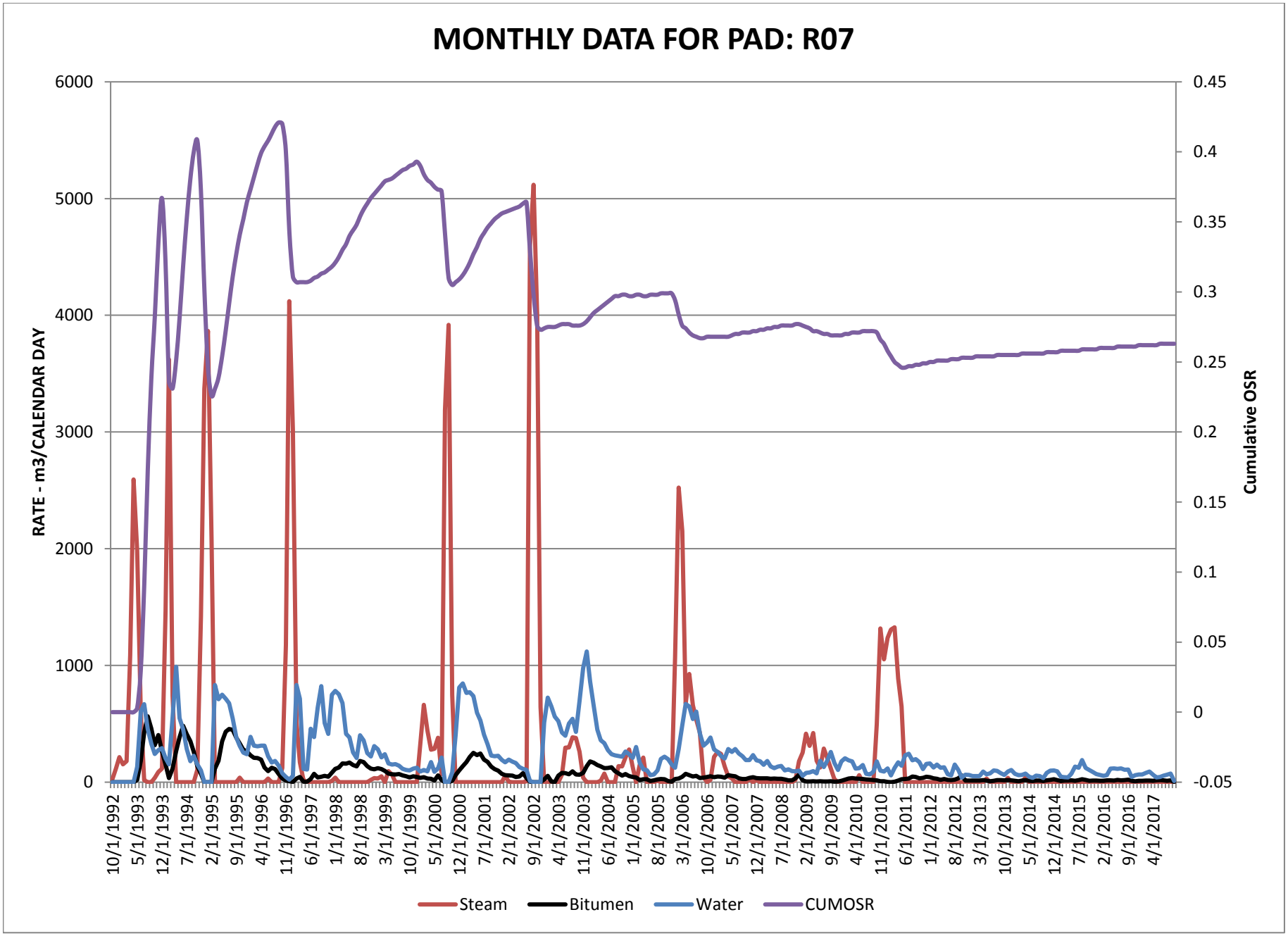
3/1/2011
10/1/2011
5/1/2012
12/1/2012
7/1/2013
2/1/2014
9/1/2014
4/1/2015
11/1/2015
6/1/2016
1/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: R07
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/1992
5/1/1993
12/1/1993
7/1/1994
2/1/1995
9/1/1995
4/1/1996
11/1/1996
6/1/1997
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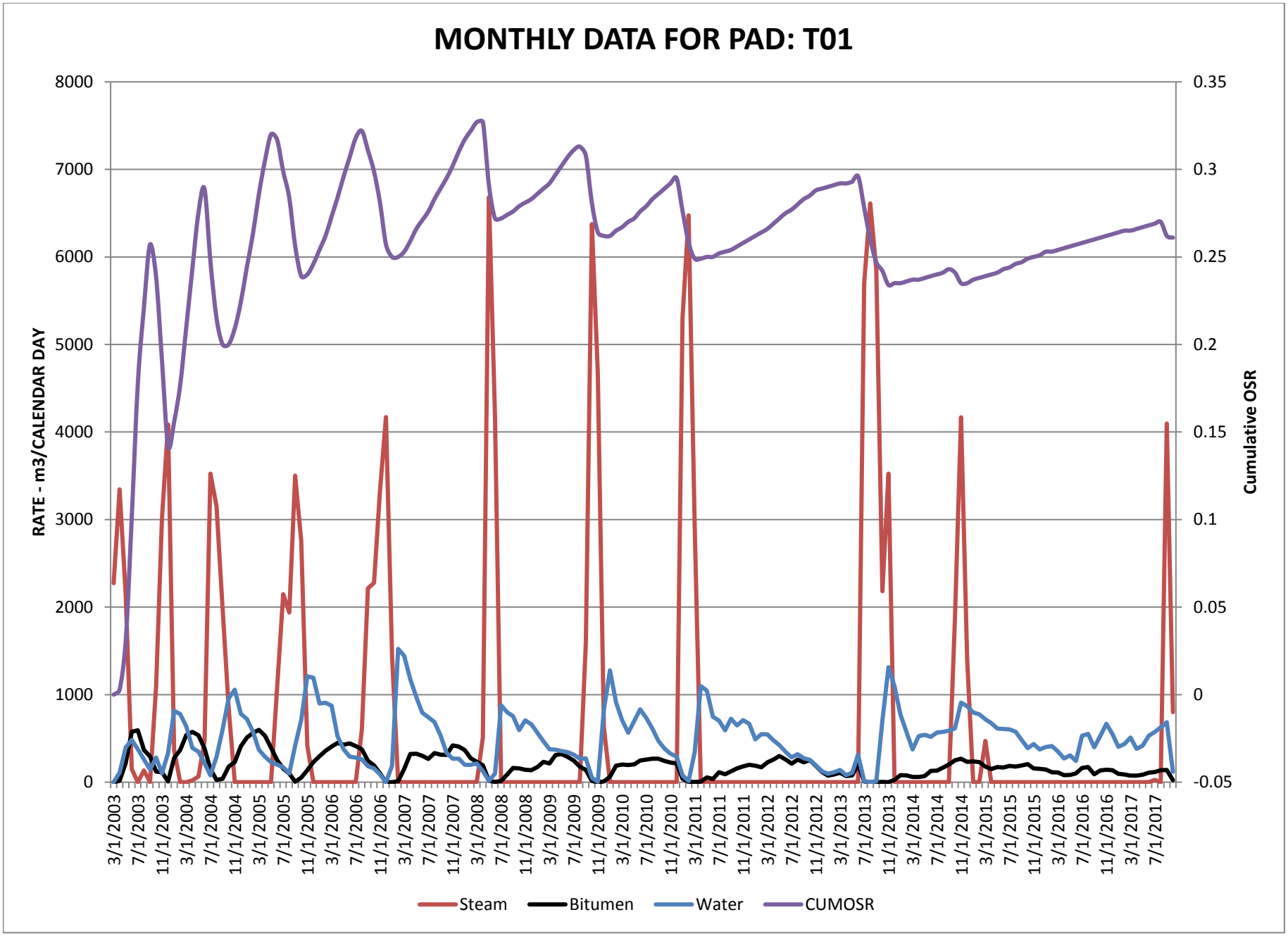
7/1/2001
2/1/2002
9/1/2002
4/1/2003
11/1/2003
6/1/2004
1/1/2005
8/1/2005
3/1/2006
10/1/2006
5/1/2007
12/1/2007
7/1/2008
2/1/2009
9/1/2009
4/1/2010
11/1/2010
6/1/2011
1/1/2012
8/1/2012
3/1/2013
10/1/2013
5/1/2014
12/1/2014
7/1/2015
2/1/2016
9/1/2016
4/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T01
RATE - m3/CALENDAR DAY
Cumulative OSR
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7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/2003
7/1/2003
11/1/2003
3/1/2004
7/1/2004
11/1/2004
3/1/2005
7/1/2005
11/1/2005
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7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
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7/1/2009
11/1/2009
3/1/2010
7/1/2010
11/1/2010
3/1/2011
7/1/2011
11/1/2011
3/1/2012
7/1/2012
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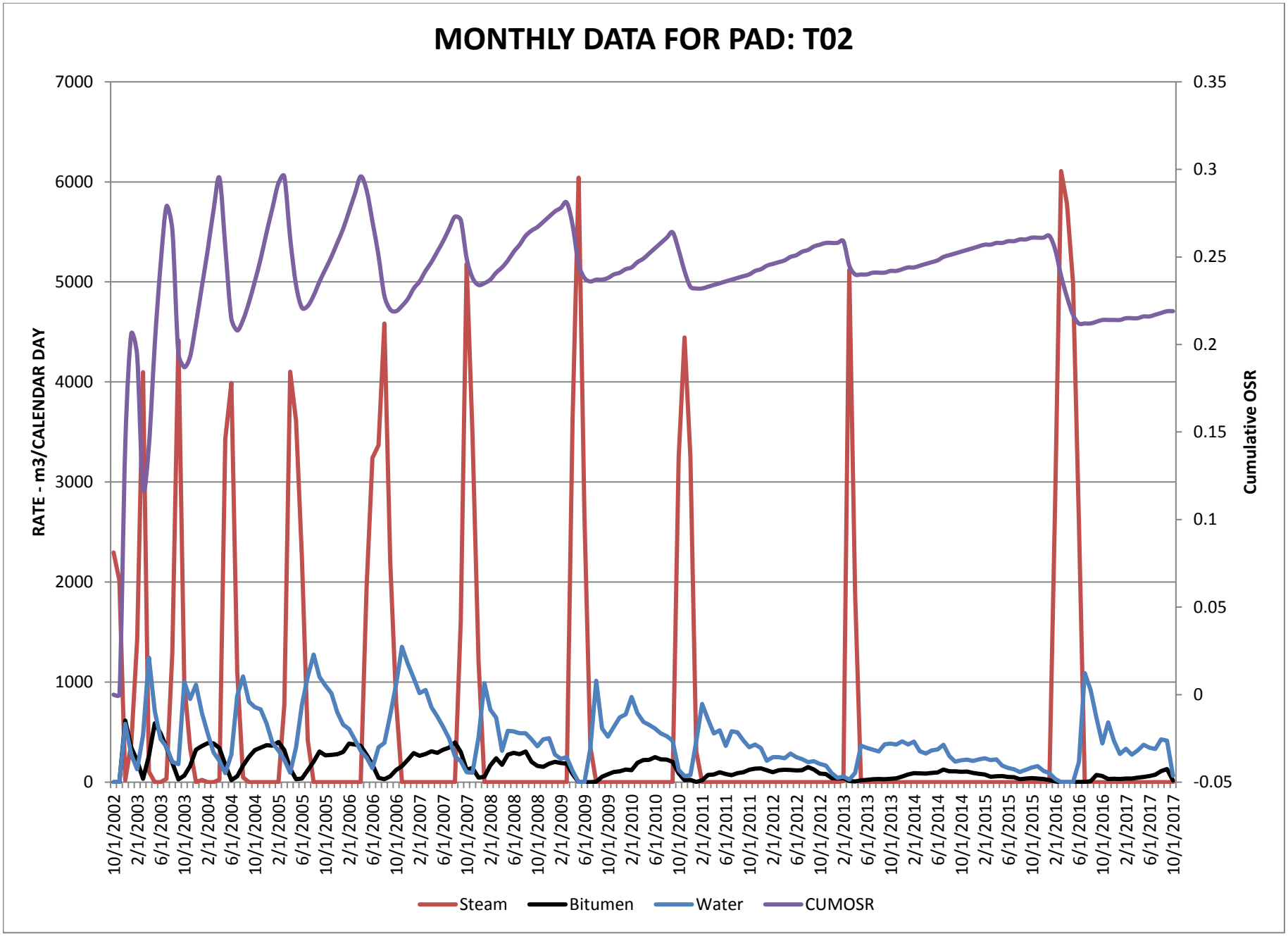
7/1/2013
11/1/2013
3/1/2014
7/1/2014
11/1/2014
3/1/2015
7/1/2015
11/1/2015
3/1/2016
7/1/2016
11/1/2016
3/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T02
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/2002
2/1/2003
6/1/2003
10/1/2003
2/1/2004
6/1/2004
10/1/2004
2/1/2005
6/1/2005
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6/1/2006
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2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
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2/1/2013
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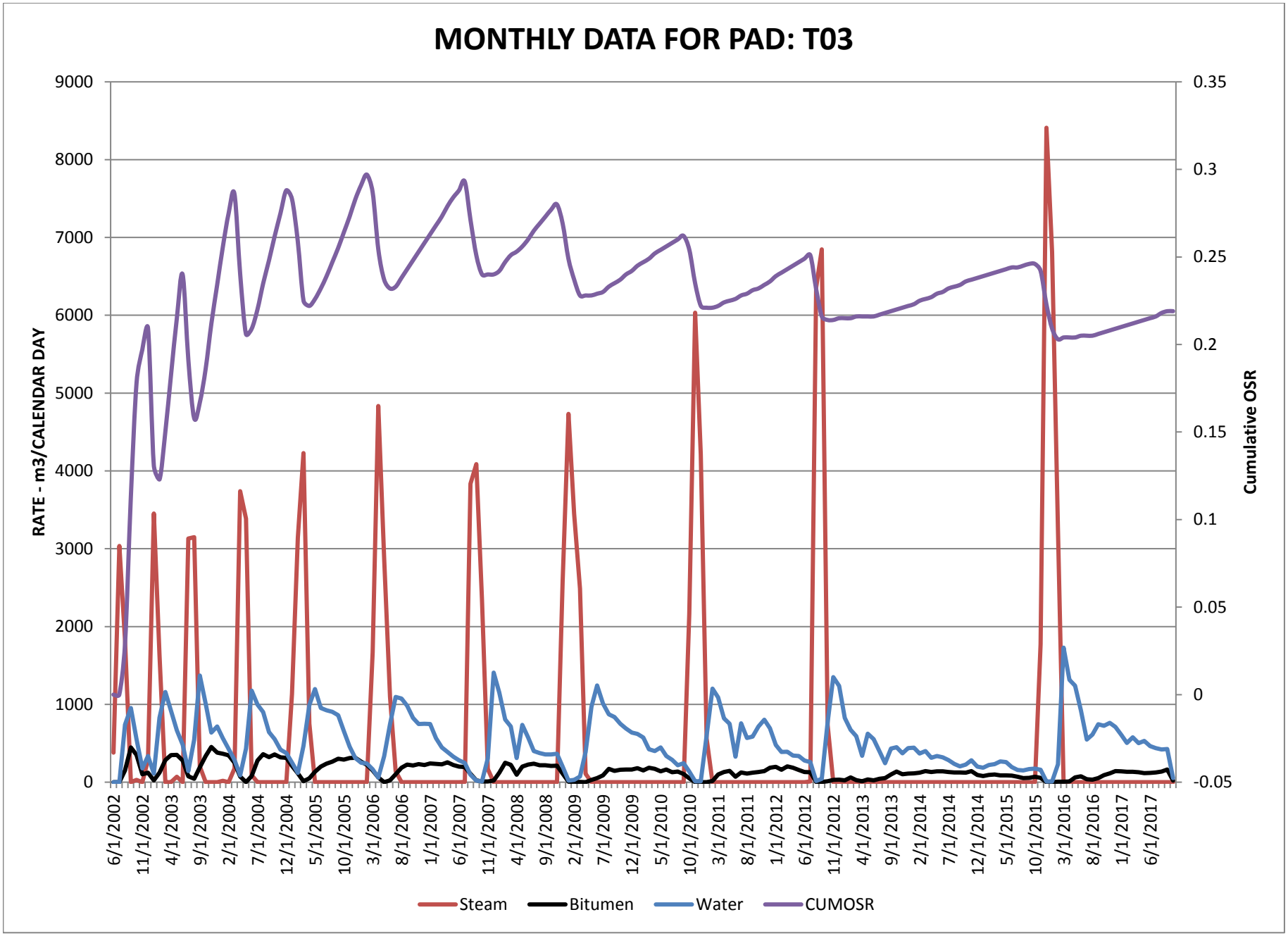
2/1/2014
6/1/2014
10/1/2014
2/1/2015
6/1/2015
10/1/2015
2/1/2016
6/1/2016
10/1/2016
2/1/2017
6/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T03
RATE - m3/CALENDAR DAY
Cumulative OSR
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8000
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/2002
11/1/2002
4/1/2003
9/1/2003
2/1/2004
7/1/2004
12/1/2004
5/1/2005
10/1/2005
3/1/2006
8/1/2006
1/1/2007
6/1/2007
11/1/2007
4/1/2008
9/1/2008
2/1/2009
7/1/2009
12/1/2009
5/1/2010
10/1/2010
3/1/2011
8/1/2011
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6/1/2012
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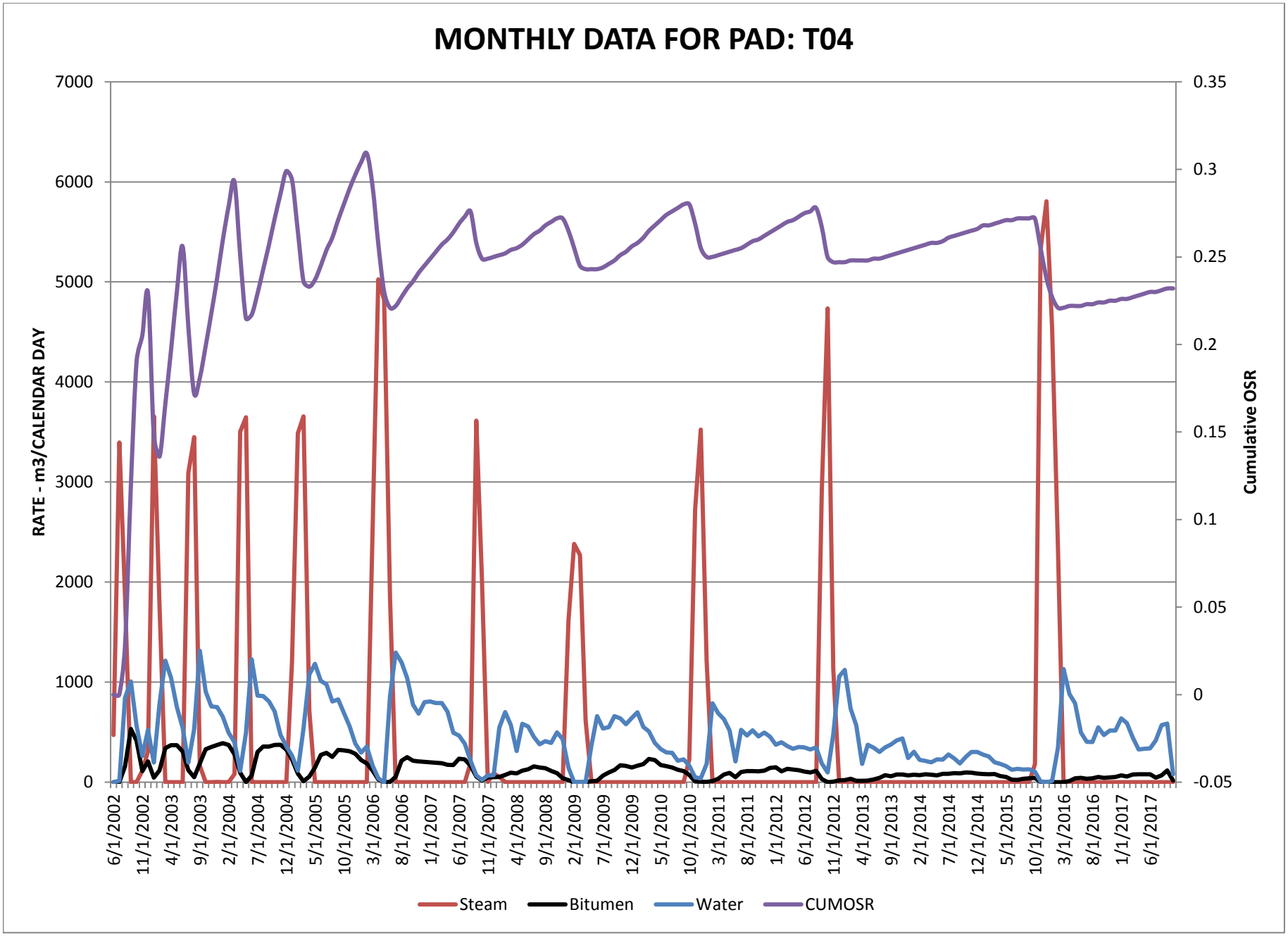
4/1/2013
9/1/2013
2/1/2014
7/1/2014
12/1/2014
5/1/2015
10/1/2015
3/1/2016
8/1/2016
1/1/2017
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T04
RATE - m3/CALENDAR DAY
Cumulative OSR
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6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
6/1/2002
11/1/2002
4/1/2003
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2/1/2004
7/1/2004
12/1/2004
5/1/2005
10/1/2005
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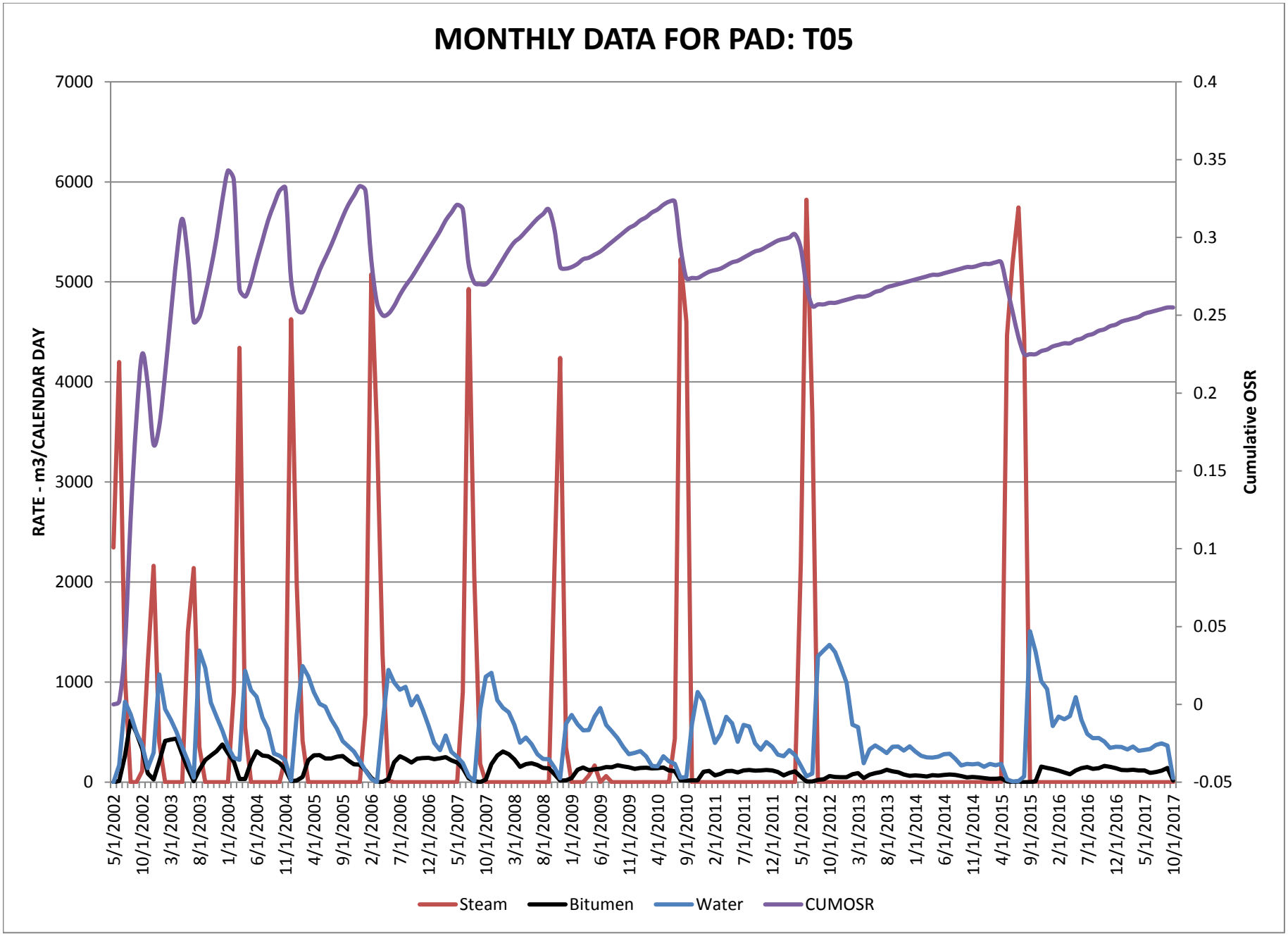
7/1/2014
12/1/2014
5/1/2015
10/1/2015
3/1/2016
8/1/2016
1/1/2017
6/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T05
RATE - m3/CALENDAR DAY
Cumulative OSR
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4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/2002
10/1/2002
3/1/2003
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1/1/2004
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11/1/2014
4/1/2015
9/1/2015
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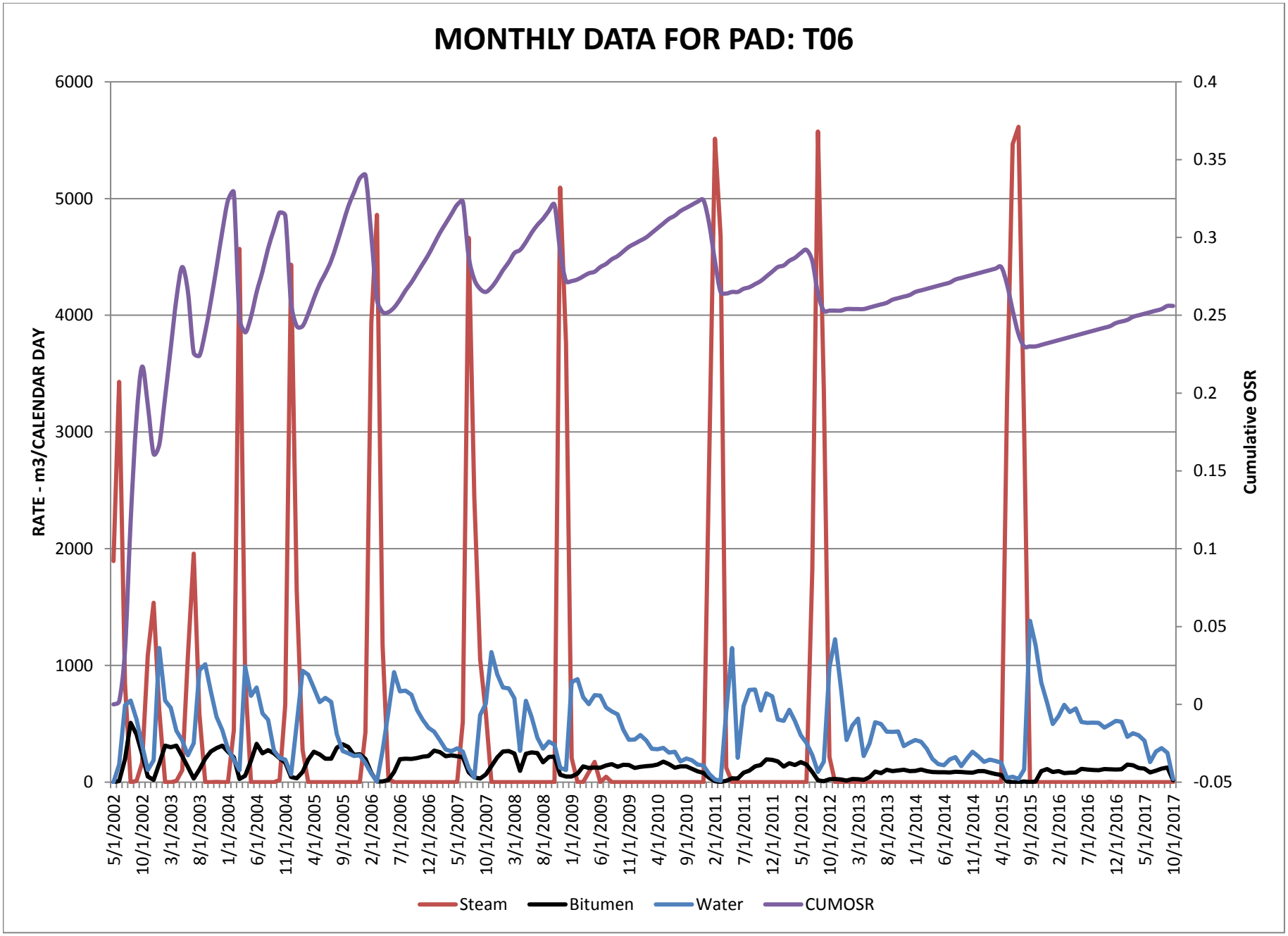
7/1/2016
12/1/2016
5/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T06
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/2002
10/1/2002
3/1/2003
8/1/2003
1/1/2004
6/1/2004
11/1/2004
4/1/2005
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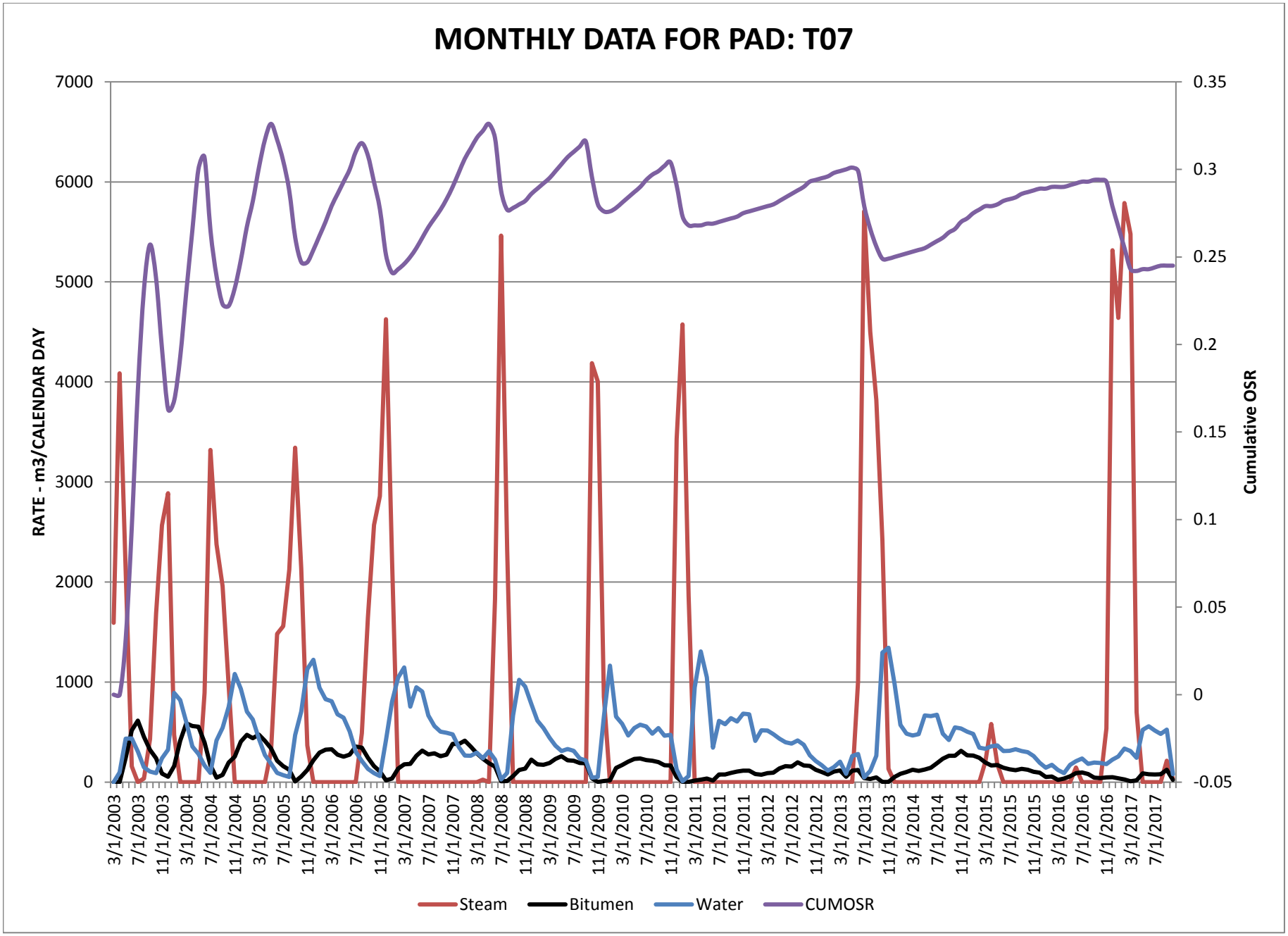
11/1/2014
4/1/2015
9/1/2015
2/1/2016
7/1/2016
12/1/2016
5/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T07
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/2003
7/1/2003
11/1/2003
3/1/2004
7/1/2004
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3/1/2005
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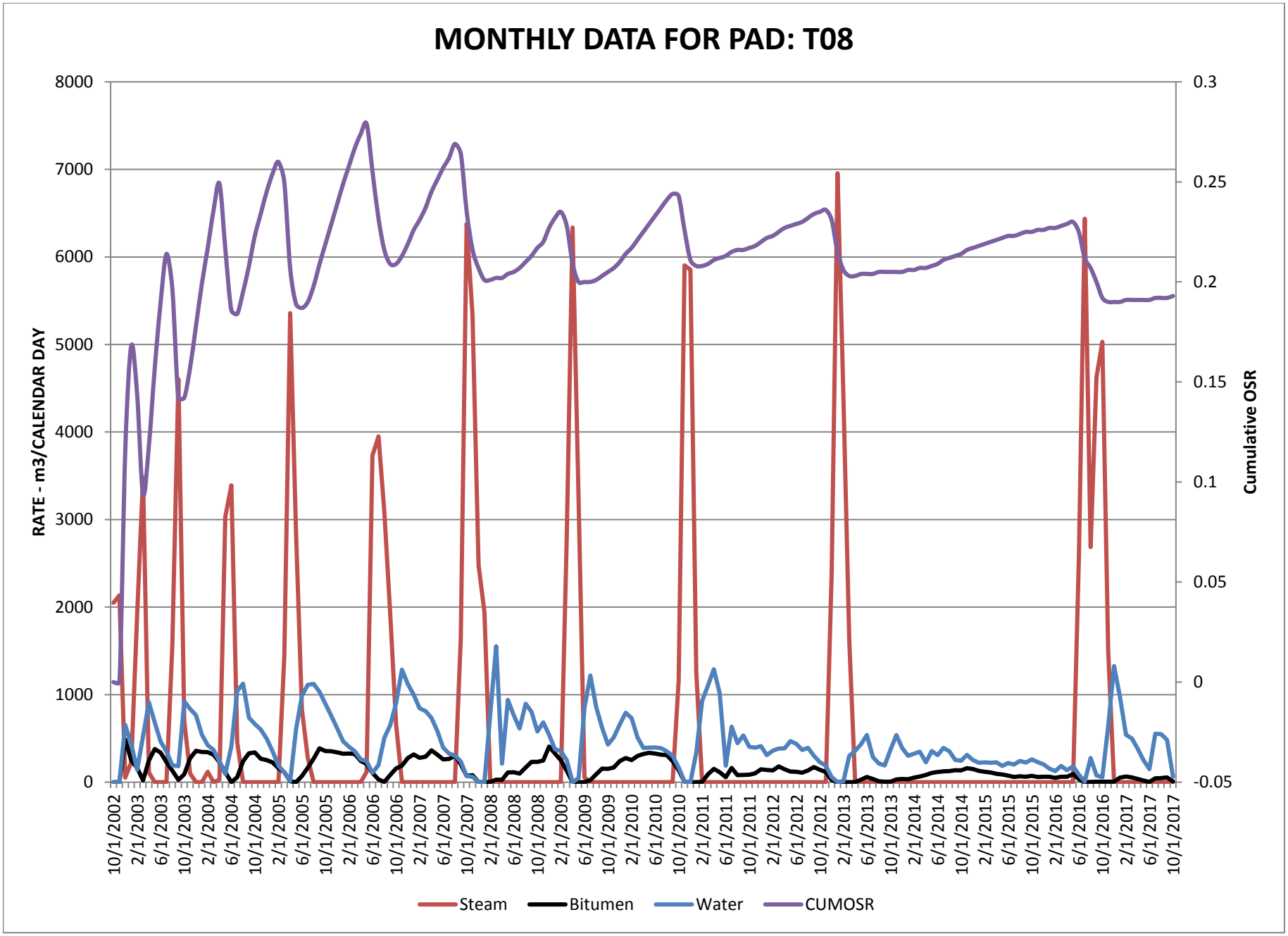
7/1/2015
11/1/2015
3/1/2016
7/1/2016
11/1/2016
3/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T08
RATE - m3/CALENDAR DAY
Cumulative OSR
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7000
6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/2002
2/1/2003
6/1/2003
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2/1/2004
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10/1/2015
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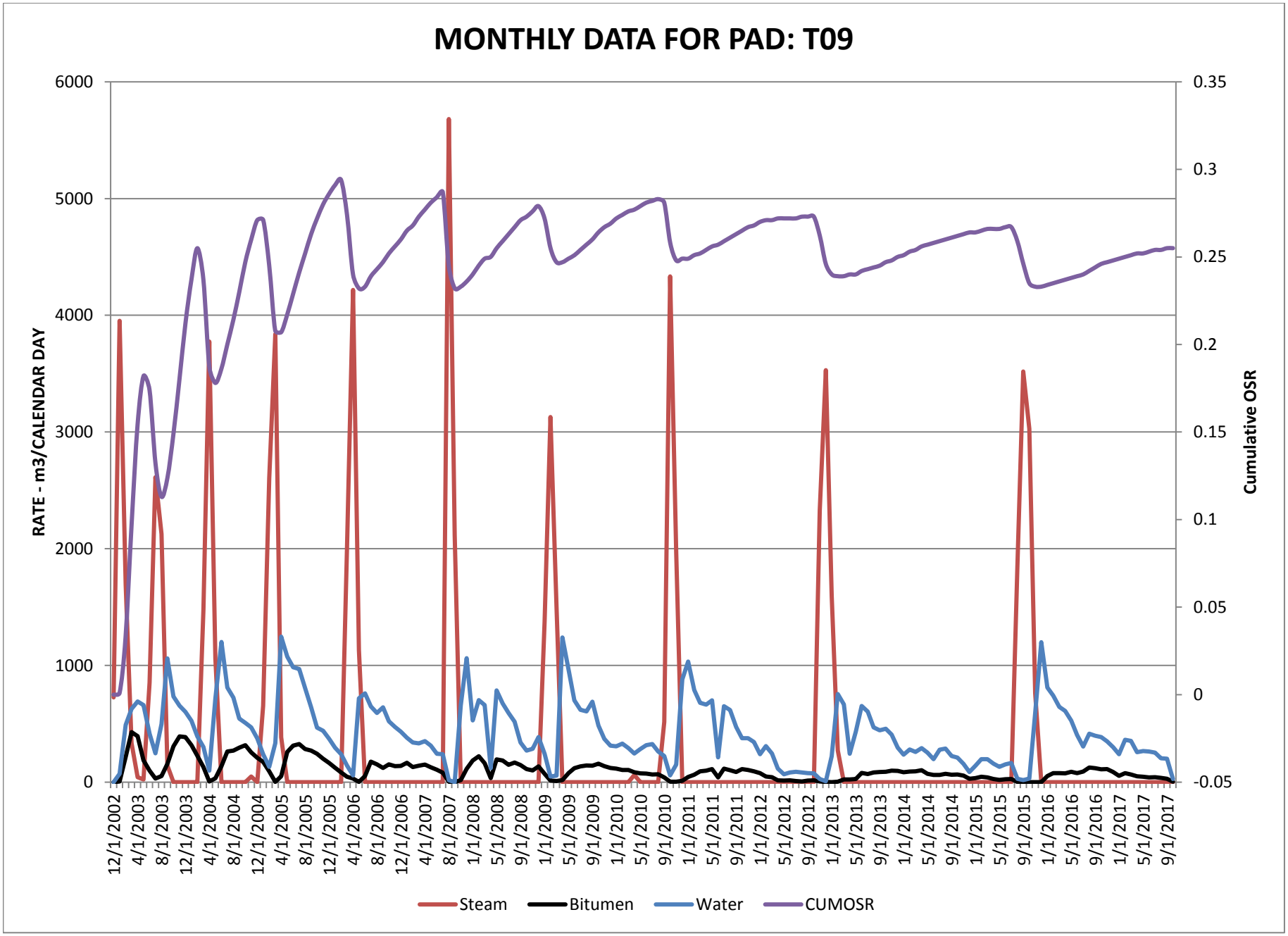
10/1/2016
2/1/2017
6/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T09
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
12/1/2002
4/1/2003
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9/1/2015
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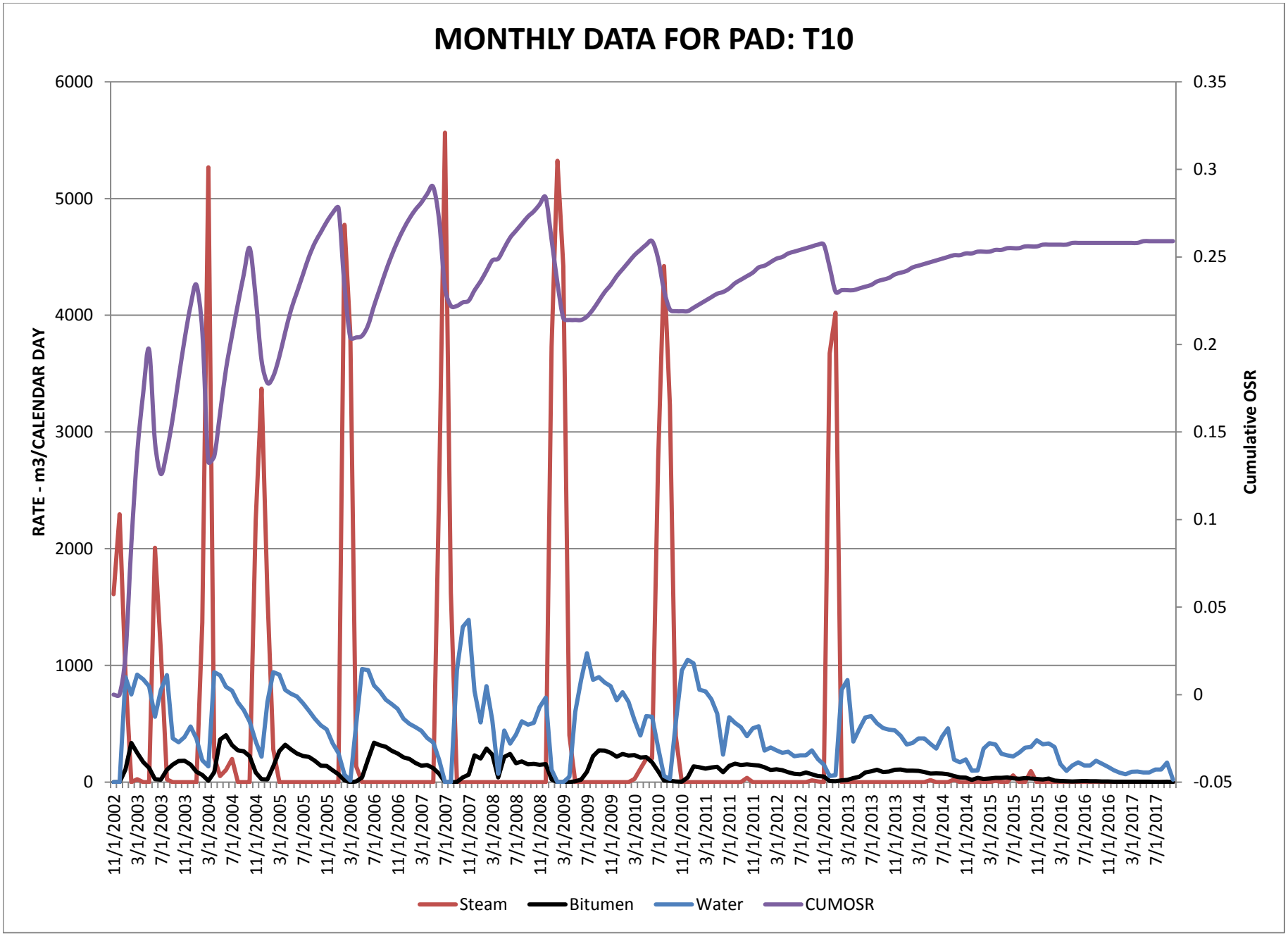
9/1/2016
1/1/2017
5/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T10
RATE - m3/CALENDAR DAY
Cumulative OSR
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5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
11/1/2002
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7/1/2015
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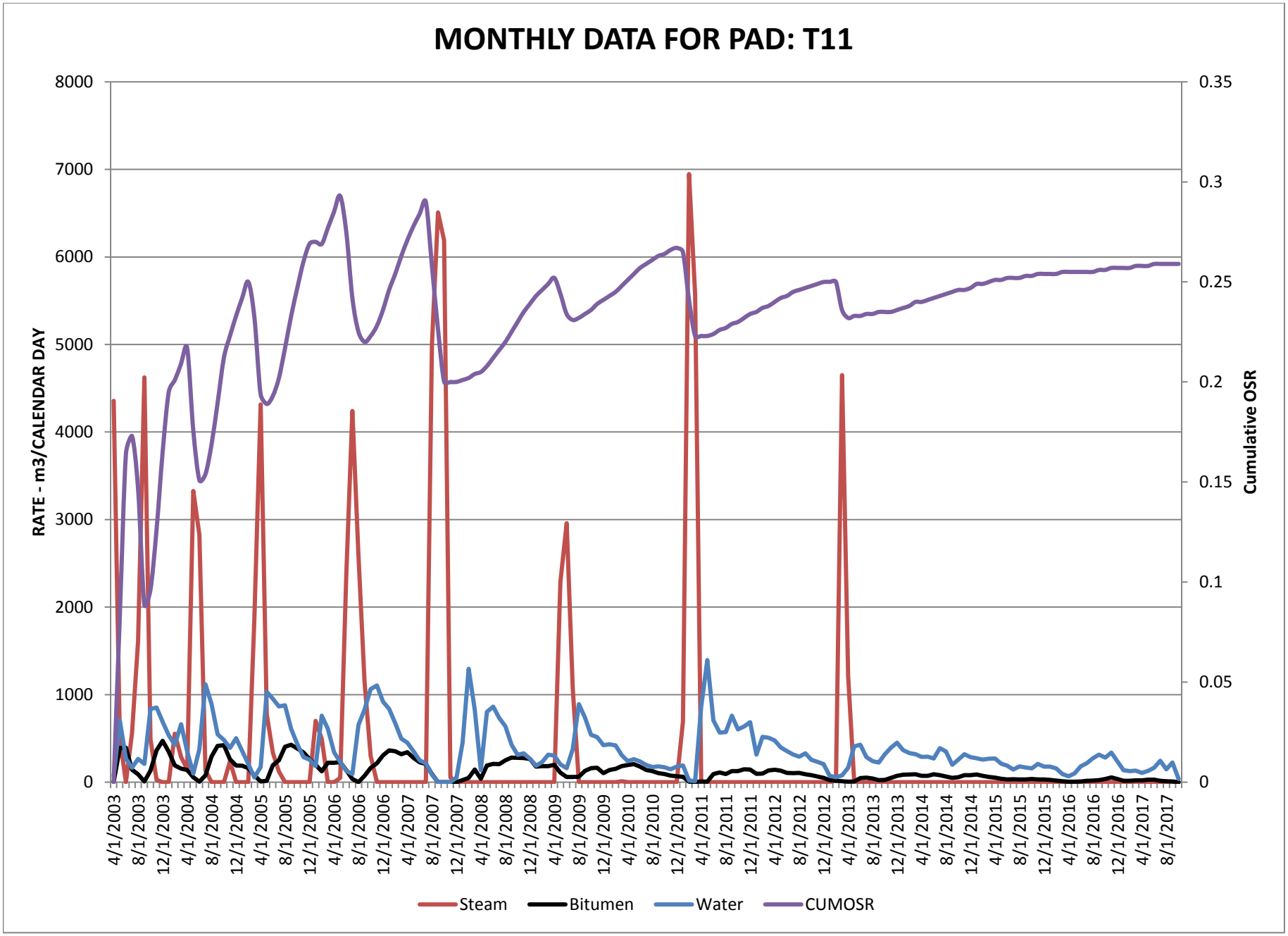
7/1/2016
11/1/2016
3/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: T11
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4/1/2003
8/1/2003
12/1/2003
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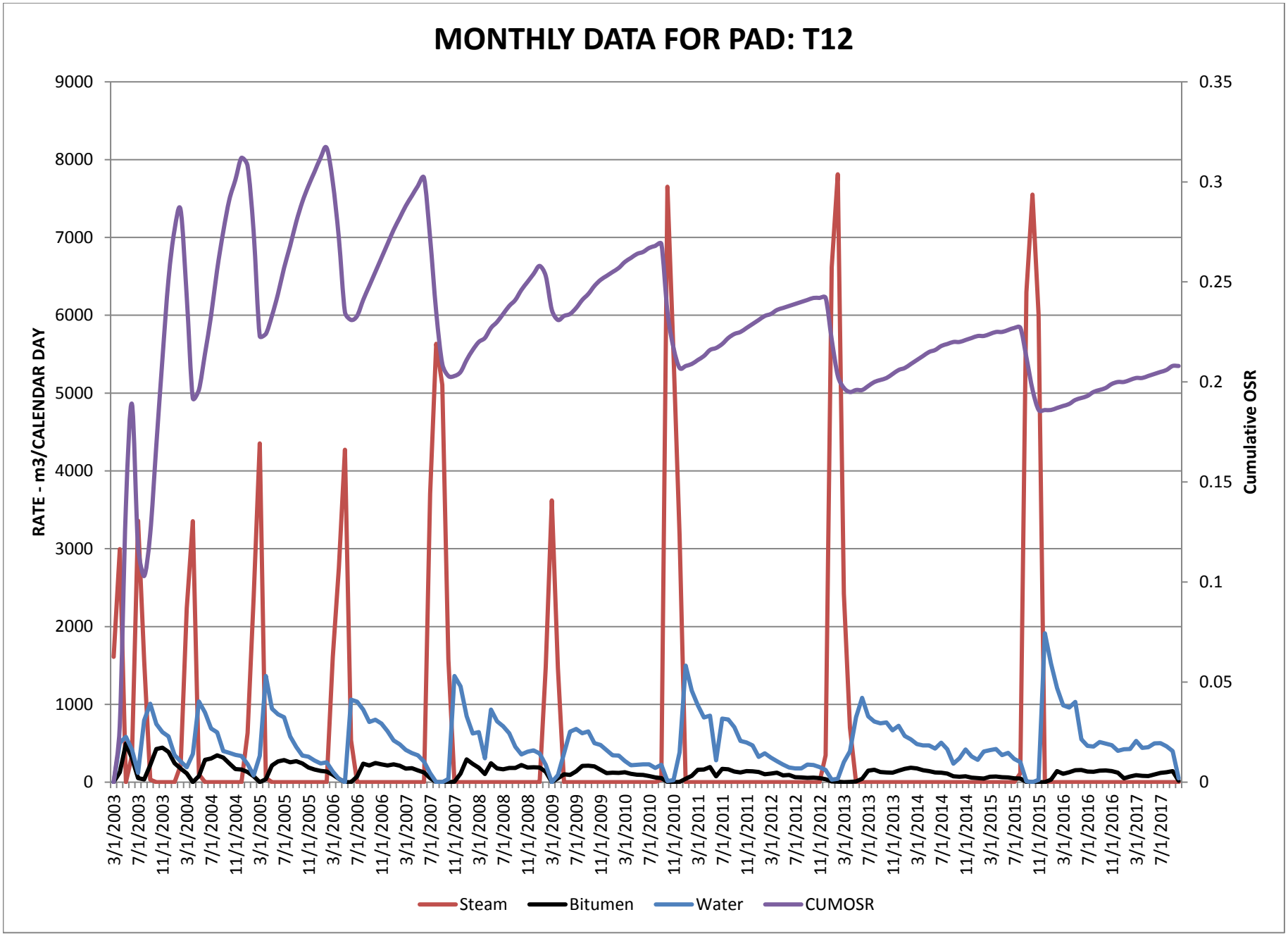
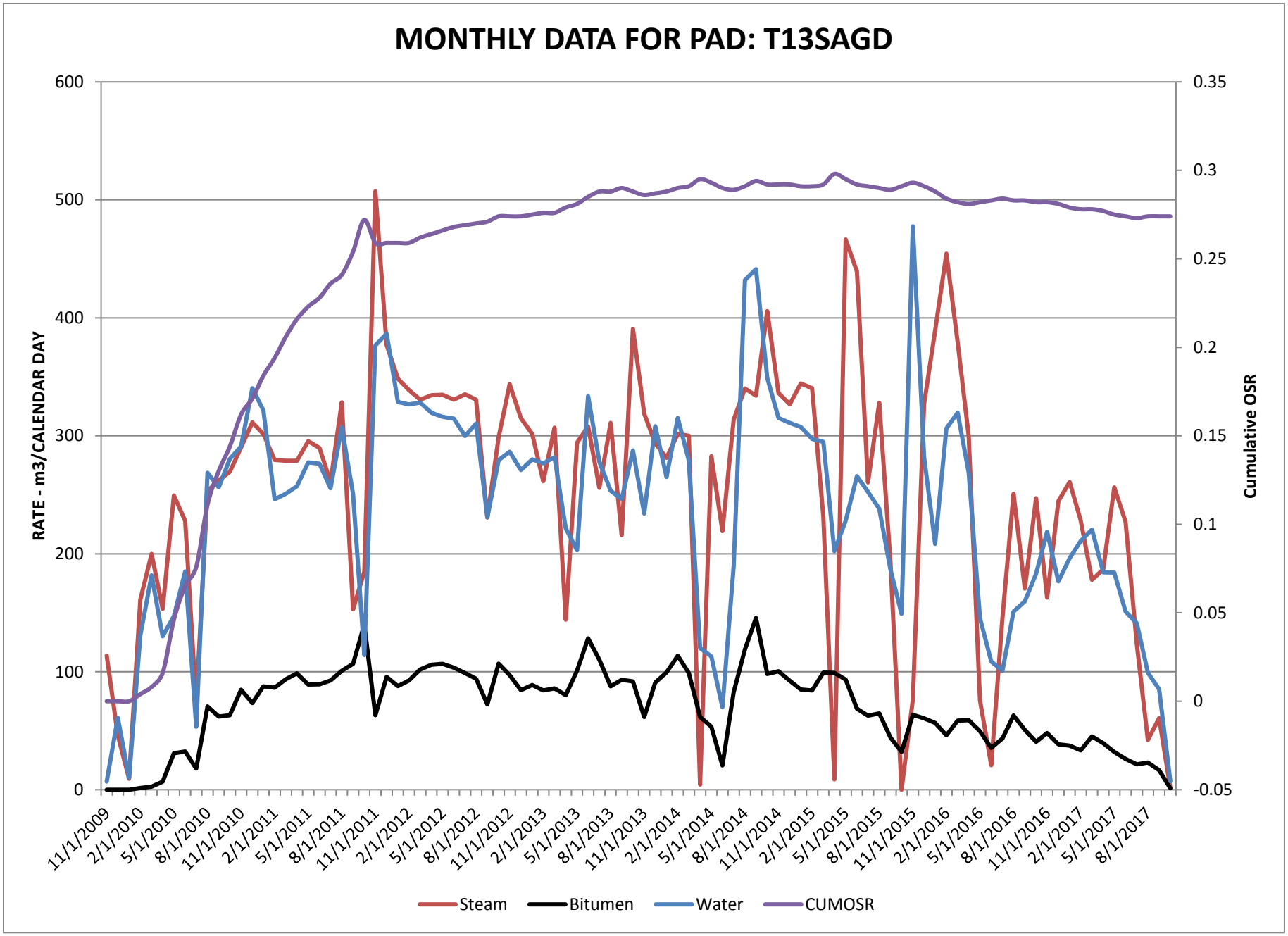
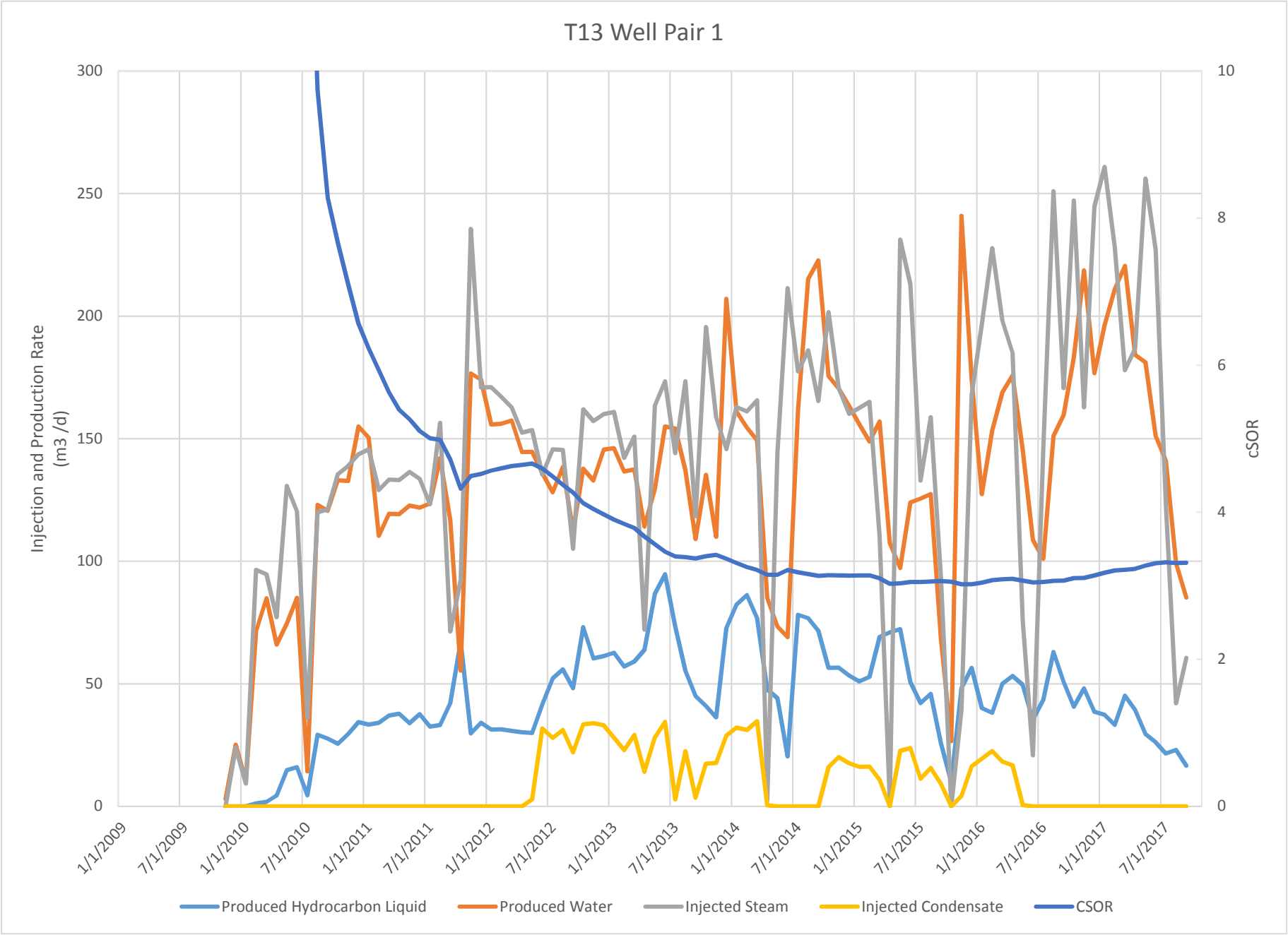
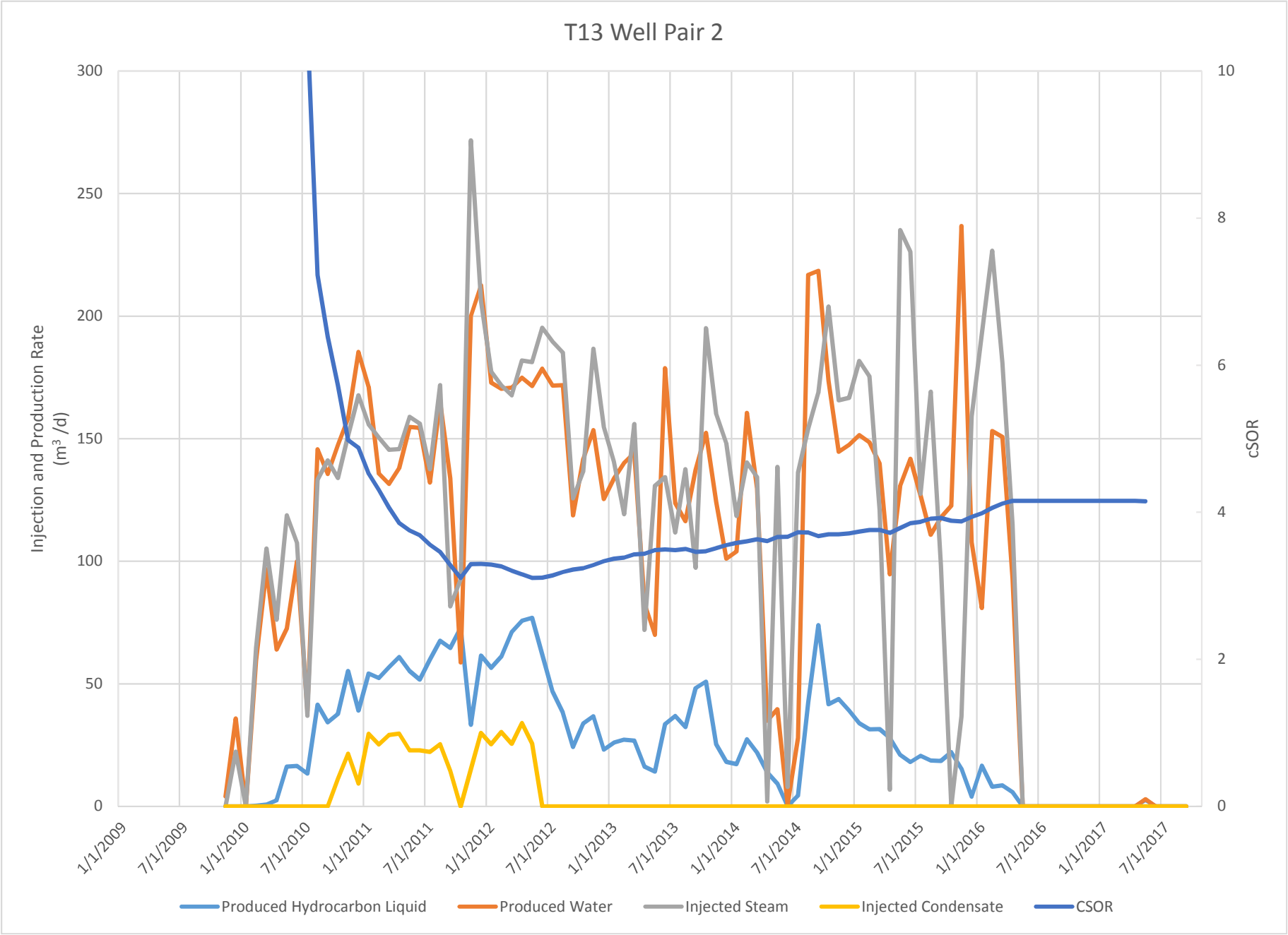
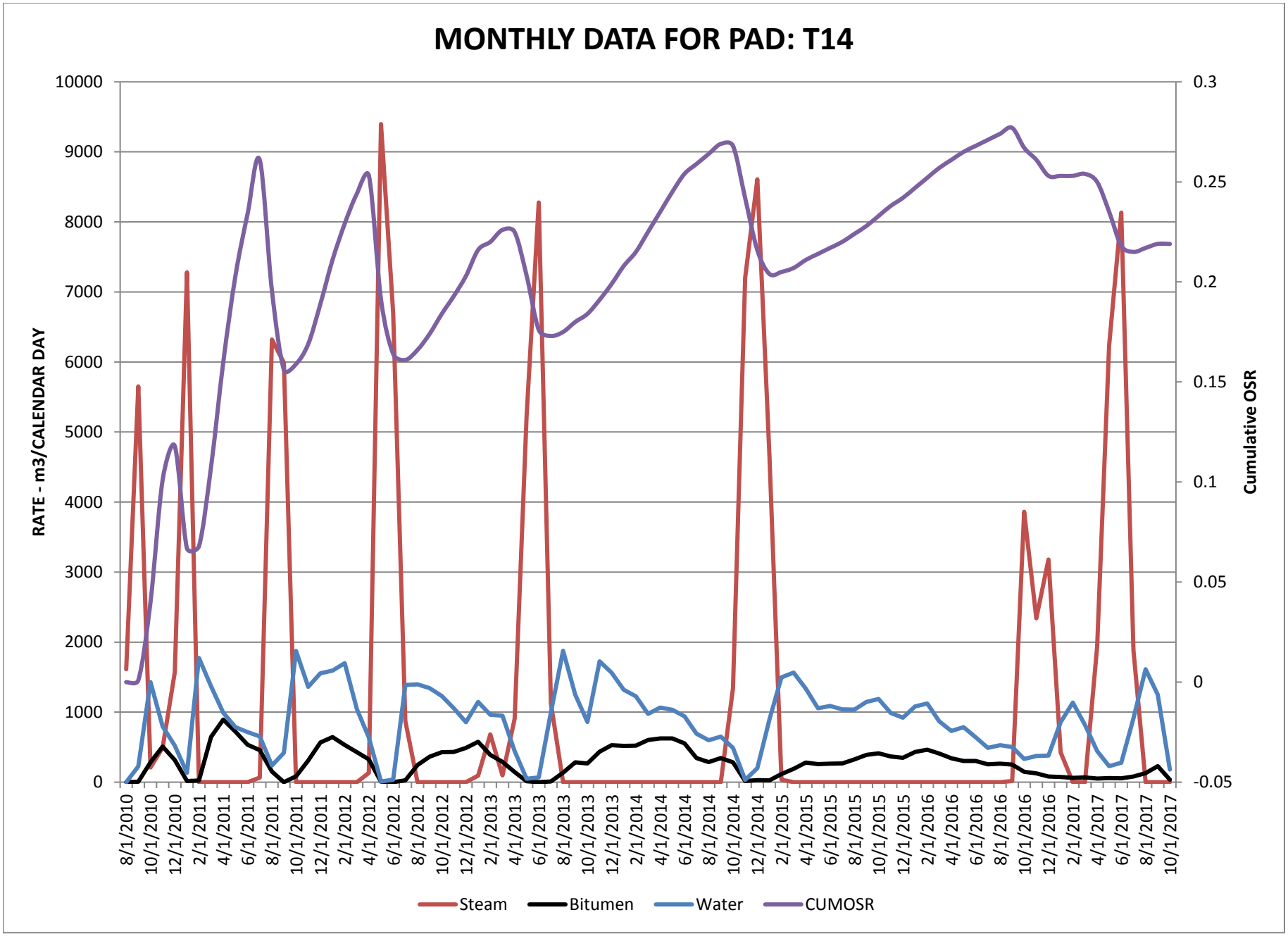
12/1/2009
4/1/2010
8/1/2010
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
8/1/2012
12/1/2012
4/1/2013
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR

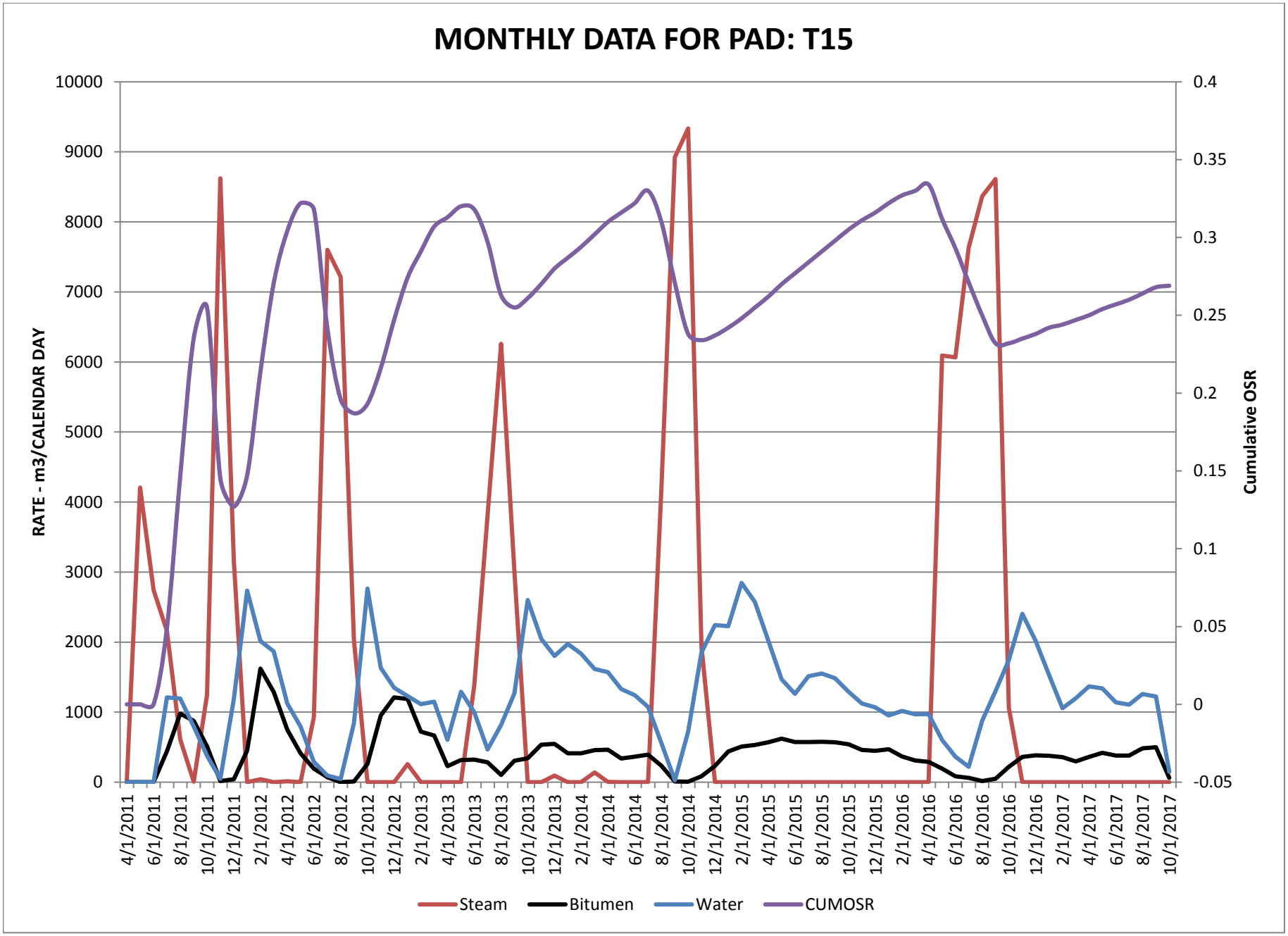

MONTHLY DATA FOR PAD: T12
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/2003
7/1/2003
11/1/2003
3/1/2004
7/1/2004
11/1/2004
3/1/2005
7/1/2005
11/1/2005
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
3/1/2010
7/1/2010
11/1/2010
3/1/2011
7/1/2011
11/1/2011
3/1/2012
7/1/2012
11/1/2012
3/1/2013
7/1/2013
11/1/2013
3/1/2014
7/1/2014
11/1/2014
3/1/2015
7/1/2015
11/1/2015
3/1/2016
7/1/2016
11/1/2016
3/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR

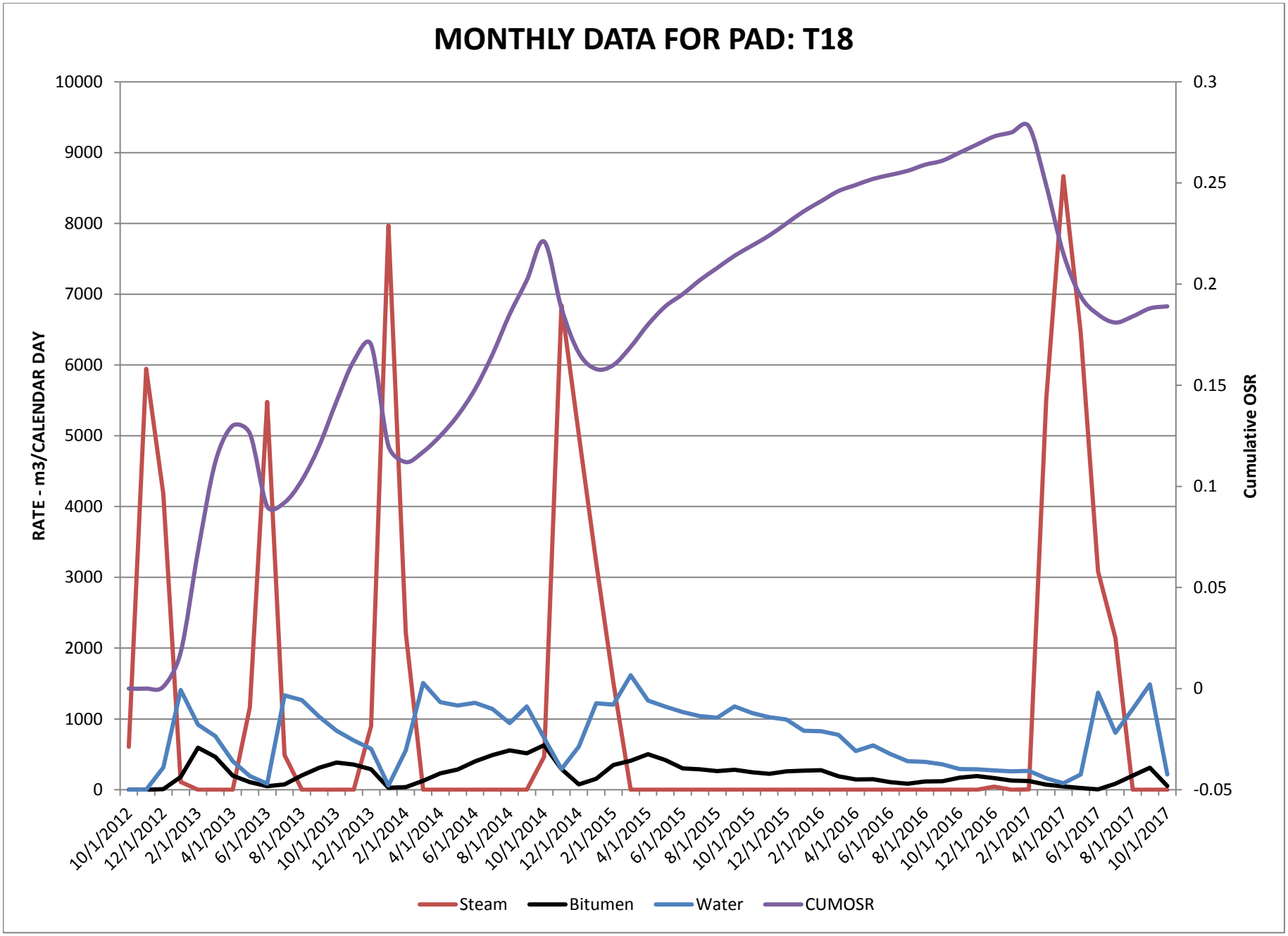

MONTHLY DATA FOR PAD: T13SAGD
RATE - m3/CALENDAR DAY
Cumulative OSR
600
500
400
300
200
100
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
11/1/2009
2/1/2010
5/1/2010
8/1/2010
11/1/2010
2/1/2011
5/1/2011
8/1/2011
11/1/2011
2/1/2012
5/1/2012
8/1/2012
11/1/2012
2/1/2013
5/1/2013
8/1/2013
11/1/2013
2/1/2014
5/1/2014
8/1/2014
11/1/2014
2/1/2015
5/1/2015
8/1/2015
11/1/2015
2/1/2016
5/1/2016
8/1/2016
11/1/2016
2/1/2017
5/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR

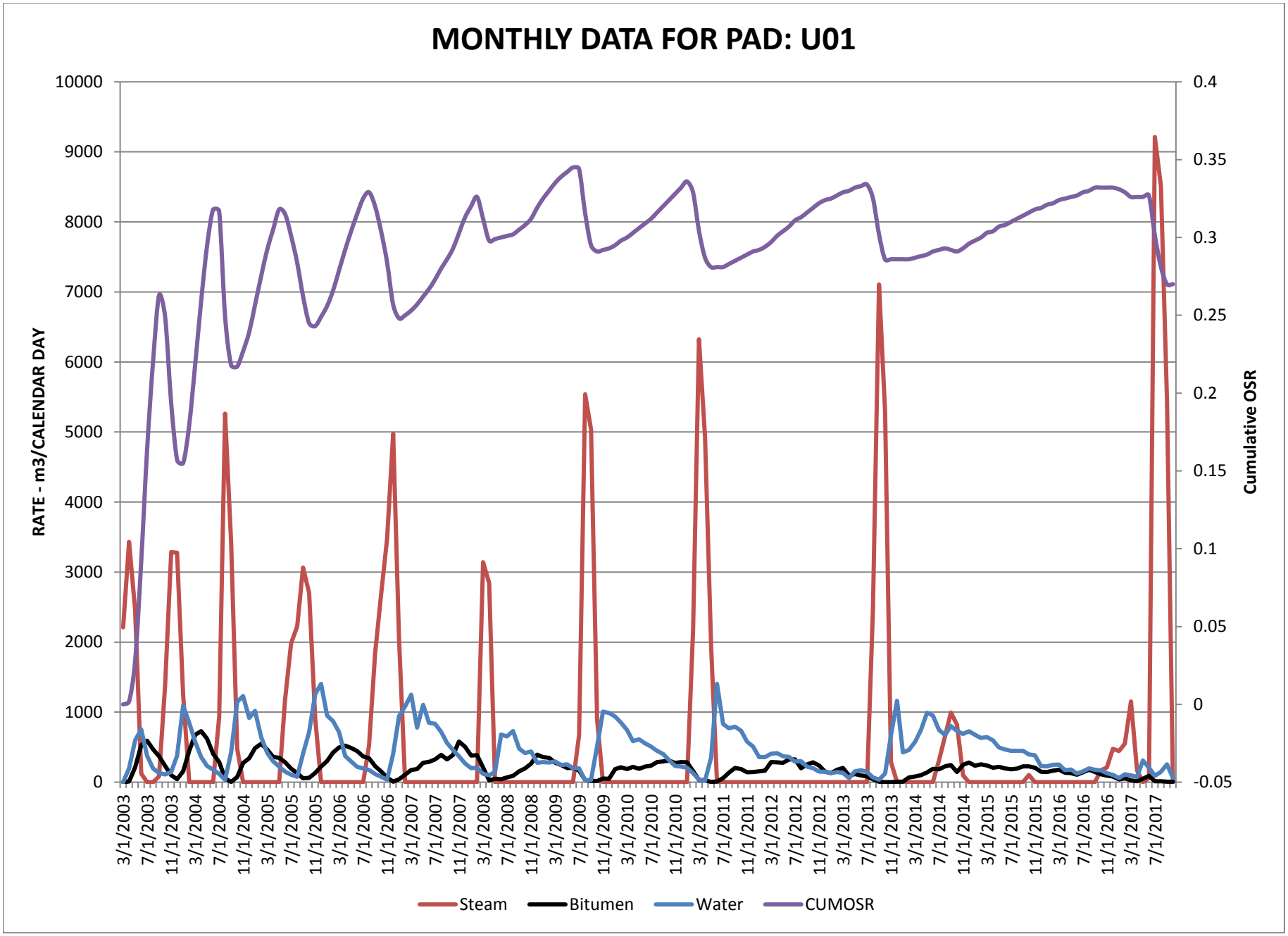

T13 Well Pair 1
Injection and Production Rate (m3 /d)
cSOR
300
250
200
150
100
50
0
10
8
6
4
2
0
1/1/2009
7/1/2009
1/1/2010
7/1/2010
1/1/2011
7/1/2011
1/1/2012
7/1/2012
1/1/2013
7/1/2013
1/1/2014
7/1/2014
1/1/2015
7/1/2015
1/1/2016
7/1/2016
1/1/2017
7/1/2017
Produced Hydrocarbon Liquid
Produced Water
Injected Steam
Injected Condensate
CSOR

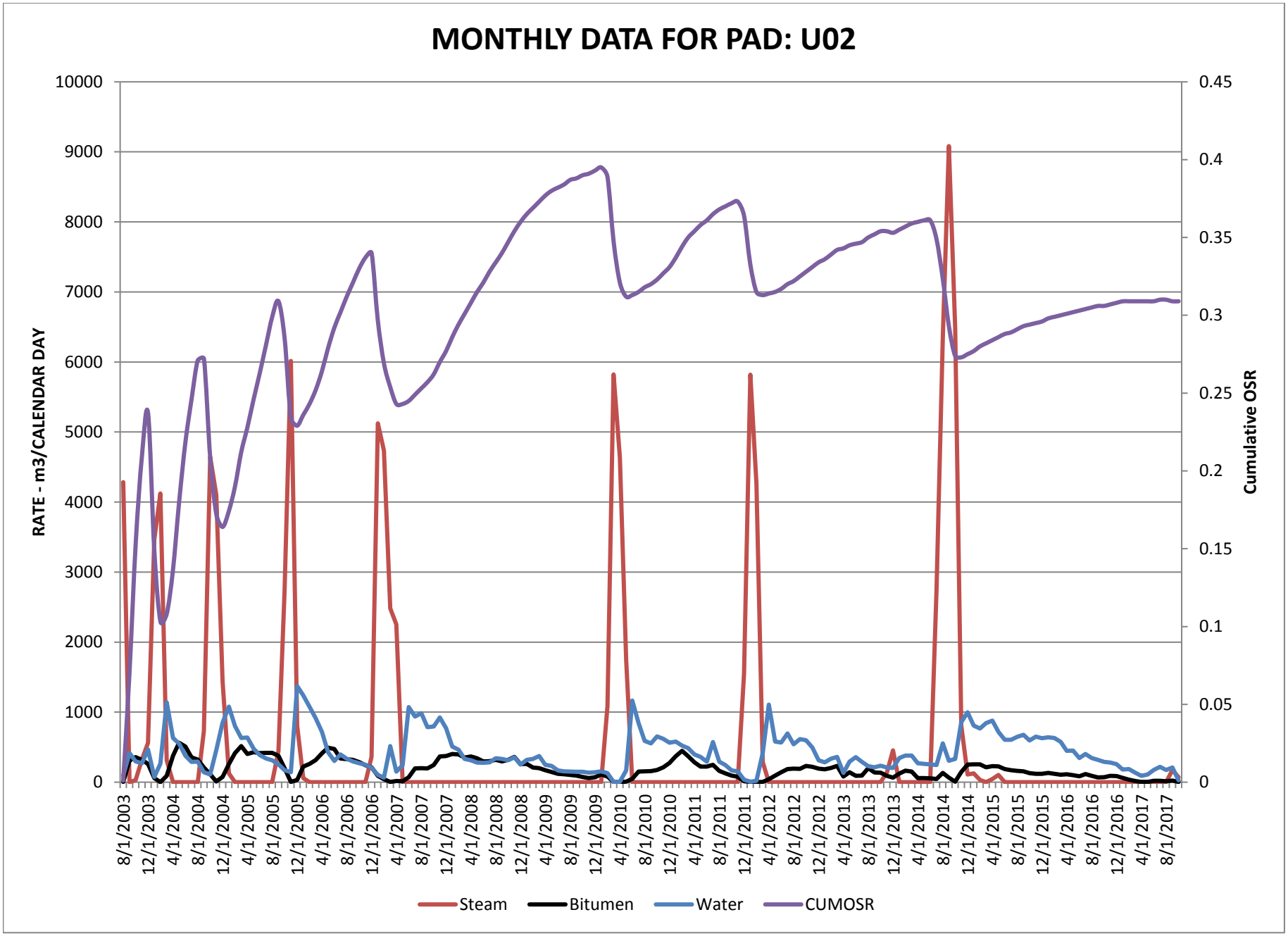

T13 Well Pair 2
Injection and Production Rate (m³ /d)
cSOR
300
250
200
150
100
50
0
10
8
6
4
2
0
1/1/2009
7/1/2009
1/1/2010
7/1/2010
1/1/2011
7/1/2011
1/1/2012
7/1/2012
1/1/2013
7/1/2013
1/1/2014
7/1/2014
1/1/2015
7/1/2015
1/1/2016
7/1/2016
1/1/2017
7/1/2017
Produced Hydrocarbon Liquid
Produced Water
Injected Steam
Injected Condensate
CSOR

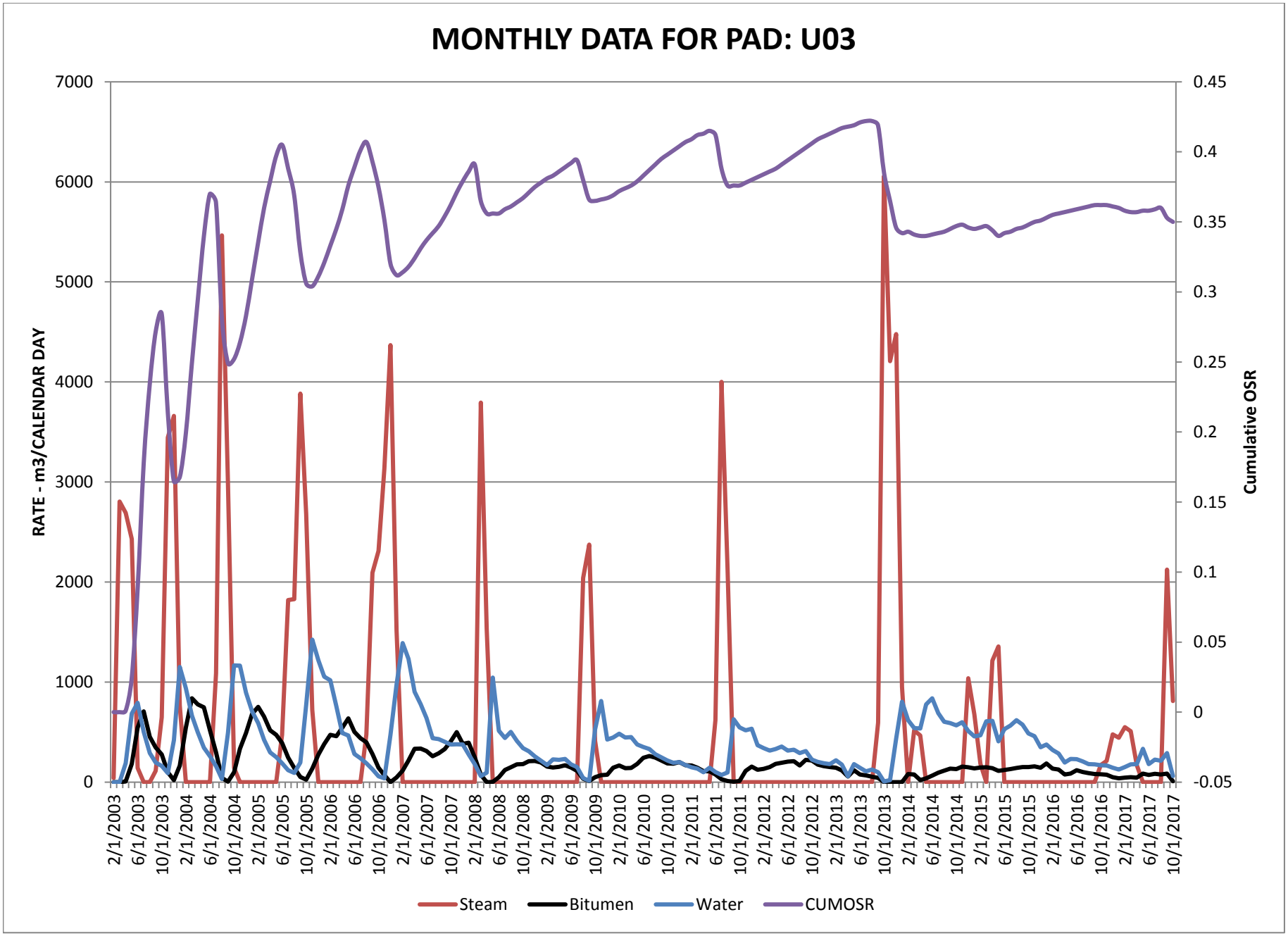

MONTHLY DATA FOR PAD: T14
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR

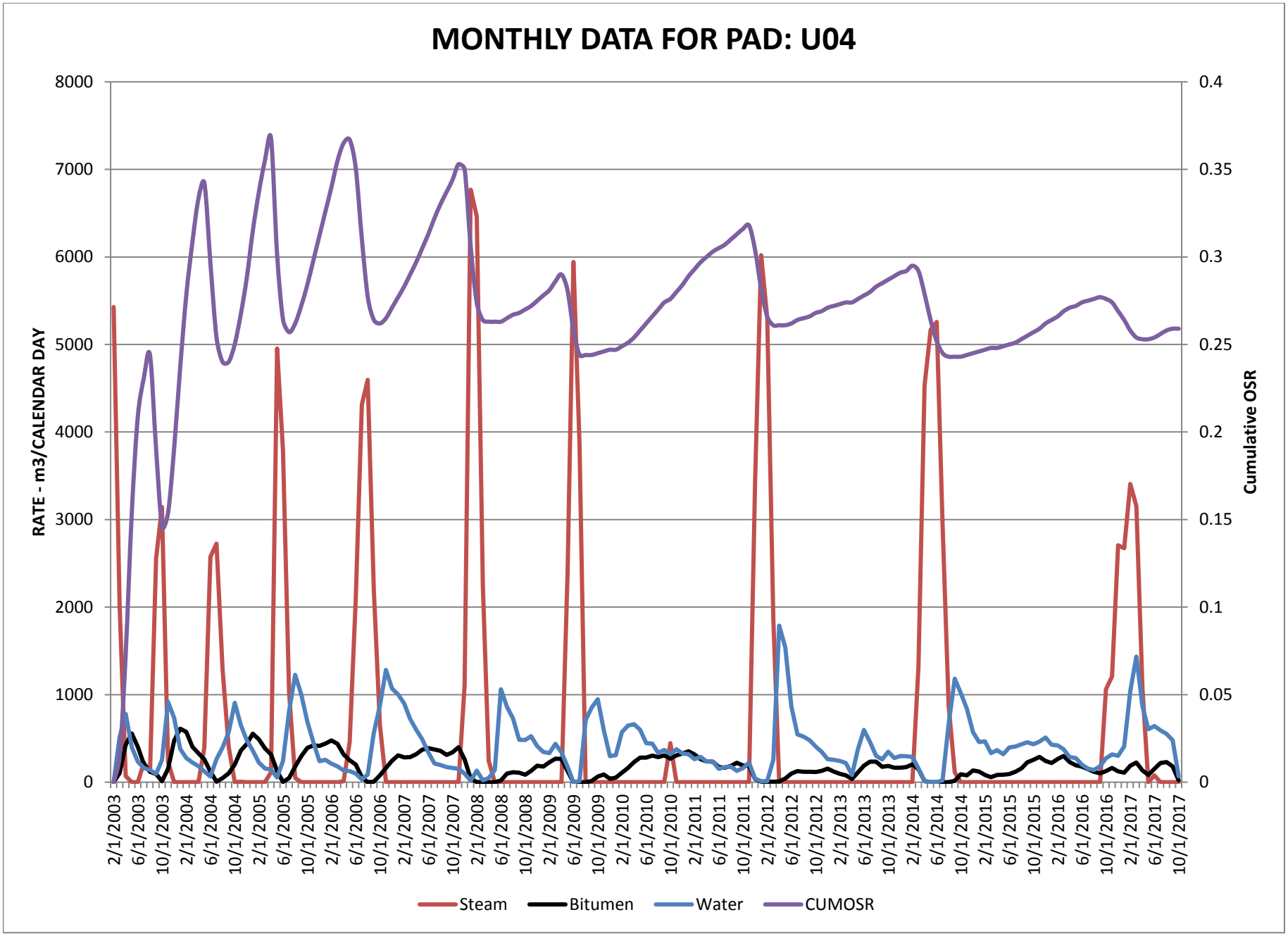

MONTHLY DATA FOR PAD: T15
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR

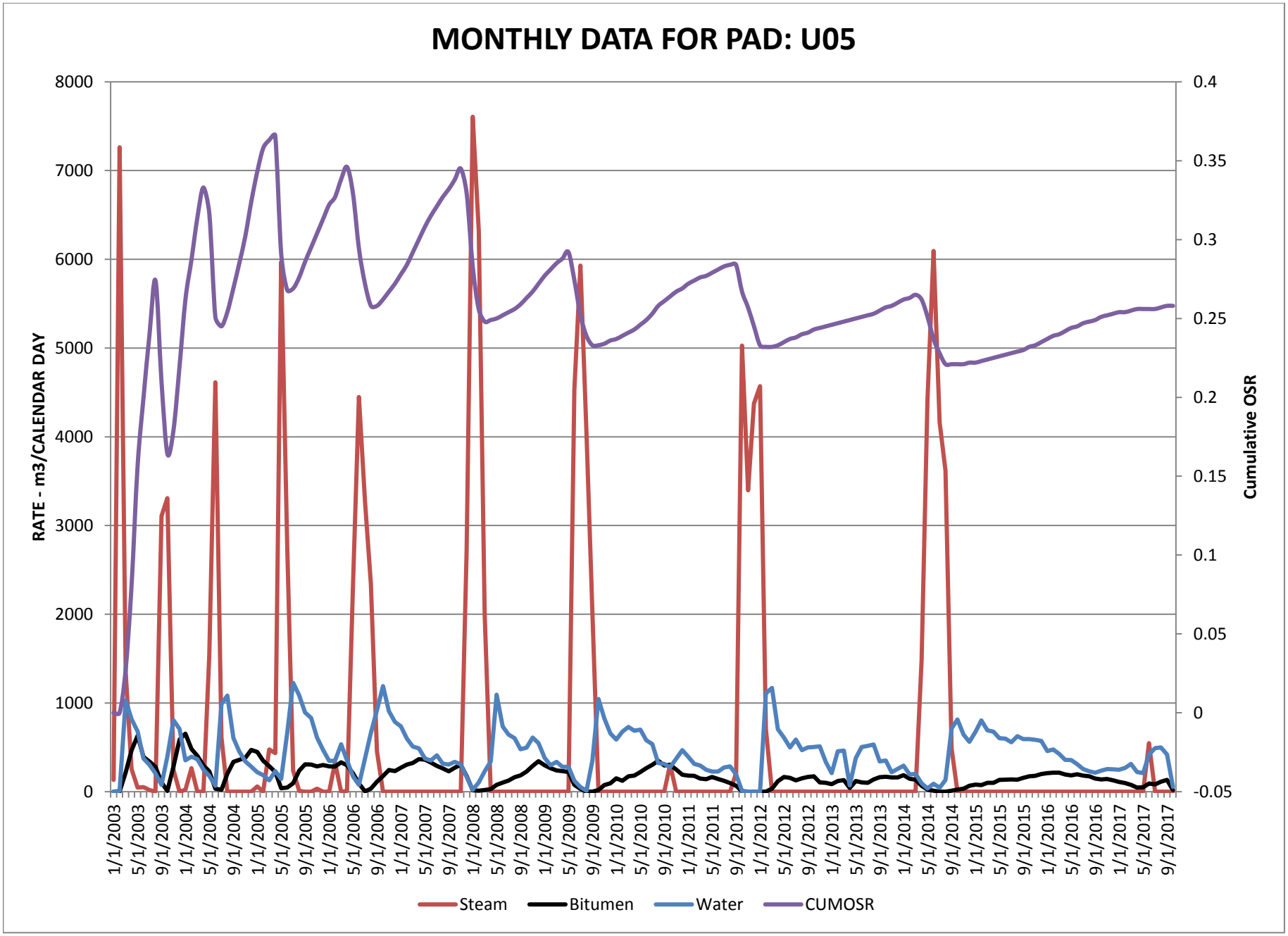

MONTHLY DATA FOR PAD: T18
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
4/1/2014
6/1/2014
8/1/2014
10/1/2014
12/1/2014
2/1/2015
4/1/2015
6/1/2015
8/1/2015
10/1/2015
12/1/2015
2/1/2016
4/1/2016
6/1/2016
8/1/2016
10/1/2016
12/1/2016
2/1/2017
4/1/2017
6/1/2017
8/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: U01
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/2003
7/1/2003
11/1/2003
3/1/2004
7/1/2004
11/1/2004
3/1/2005
7/1/2005
11/1/2005
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
3/1/2010
7/1/2010
11/1/2010
3/1/2011
7/1/2011
11/1/2011
3/1/2012
7/1/2012
11/1/2012
3/1/2013
7/1/2013
11/1/2013
3/1/2014
7/1/2014
11/1/2014
3/1/2015
7/1/2015
11/1/2015
3/1/2016
7/1/2016
11/1/2016
3/1/2017
7/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: U02
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
8/1/2003
12/1/2003
4/1/2004
8/1/2004
12/1/2004
4/1/2005
8/1/2005
12/1/2005
4/1/2006
8/1/2006
12/1/2006
4/1/2007
8/1/2007
12/1/2007
4/1/2008
8/1/2008
12/1/2008
4/1/2009
8/1/2009
12/1/2009
4/1/2010
8/1/2010
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
8/1/2012
12/1/2012
4/1/2013
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: U03
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
2/1/2003
6/1/2003
10/1/2003
2/1/2004
6/1/2004
10/1/2004
2/1/2005
6/1/2005
10/1/2005
2/1/2006
6/1/2006
10/1/2006
2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
10/1/2008
2/1/2009
6/1/2009
10/1/2009
2/1/2010
6/1/2010
10/1/2010
2/1/2011
6/1/2011
10/1/2011
2/1/2012
6/1/2012
10/1/2012
2/1/2013
6/1/2013
10/1/2013
2/1/2014
6/1/2014
10/1/2014
2/1/2015
6/1/2015
10/1/2015
2/1/2016
6/1/2016
10/1/2016
2/1/2017
6/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: U04
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
2/1/2003
6/1/2003
10/1/2003
2/1/2004
6/1/2004
10/1/2004
2/1/2005
6/1/2005
10/1/2005
2/1/2006
6/1/2006
10/1/2006
2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
10/1/2008
2/1/2009
6/1/2009
10/1/2009
2/1/2010
6/1/2010
10/1/2010
2/1/2011
6/1/2011
10/1/2011
2/1/2012
6/1/2012
10/1/2012
2/1/2013
6/1/2013
10/1/2013
2/1/2014
6/1/2014
10/1/2014
2/1/2015
6/1/2015
10/1/2015
2/1/2016
6/1/2016
10/1/2016
2/1/2017
6/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: U05
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
1/1/2003
5/1/2003
9/1/2003
1/1/2004
5/1/2004
9/1/2004
1/1/2005
5/1/2005
9/1/2005
1/1/2006
5/1/2006
9/1/2006
1/1/2007
5/1/2007
9/1/2007
1/1/2008
5/1/2008
9/1/2008
1/1/2009
5/1/2009
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9/1/2011
1/1/2012
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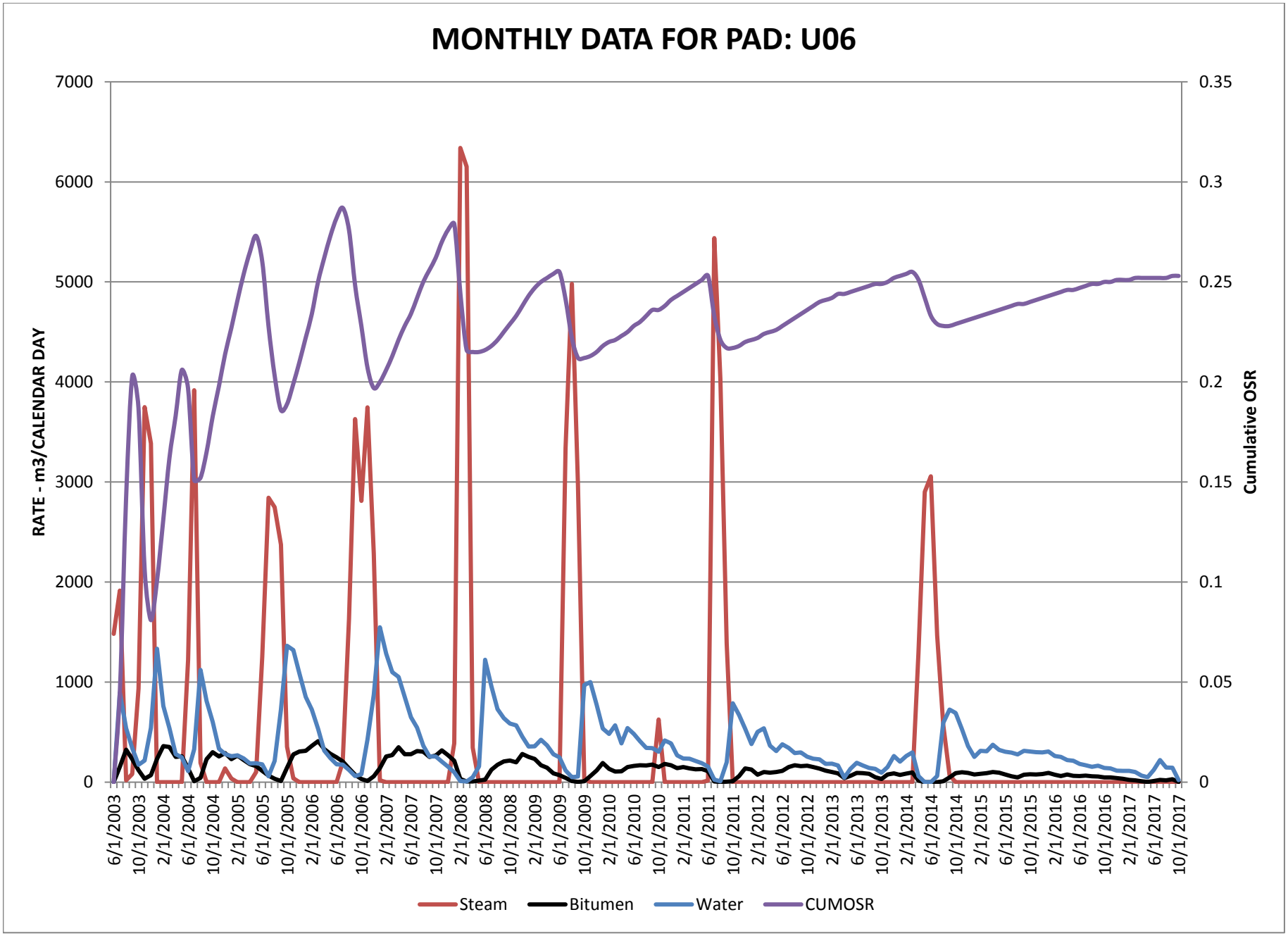
9/1/2012
1/1/2013
5/1/2013
9/1/2013
1/1/2014
5/1/2014
9/1/2014
1/1/2015
5/1/2015
9/1/2015
1/1/2016
5/1/2016
9/1/2016
1/1/2017
5/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: U06
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/1/2003
10/1/2003
2/1/2004
6/1/2004
10/1/2004
2/1/2005
6/1/2005
10/1/2005
2/1/2006
6/1/2006
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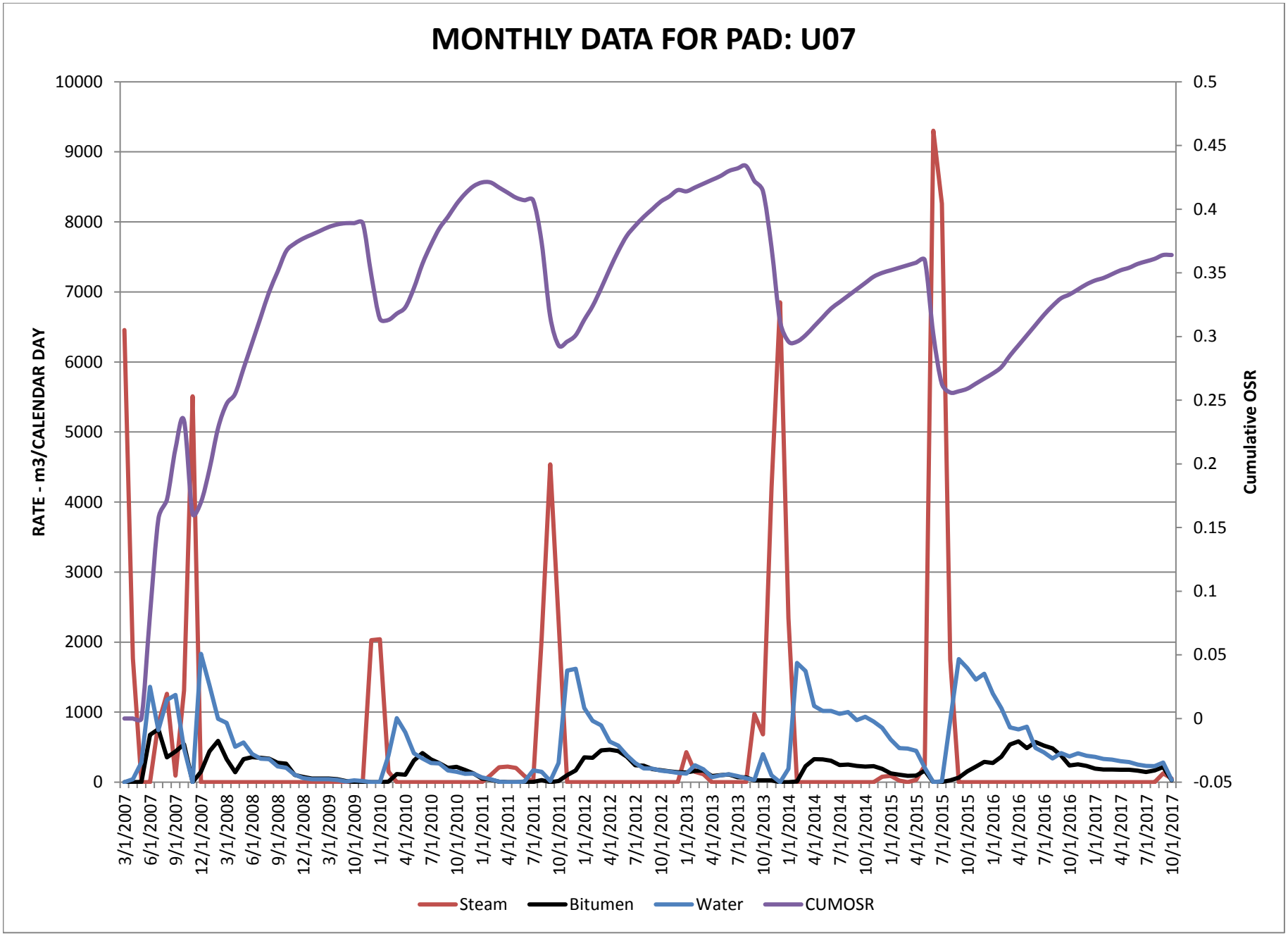
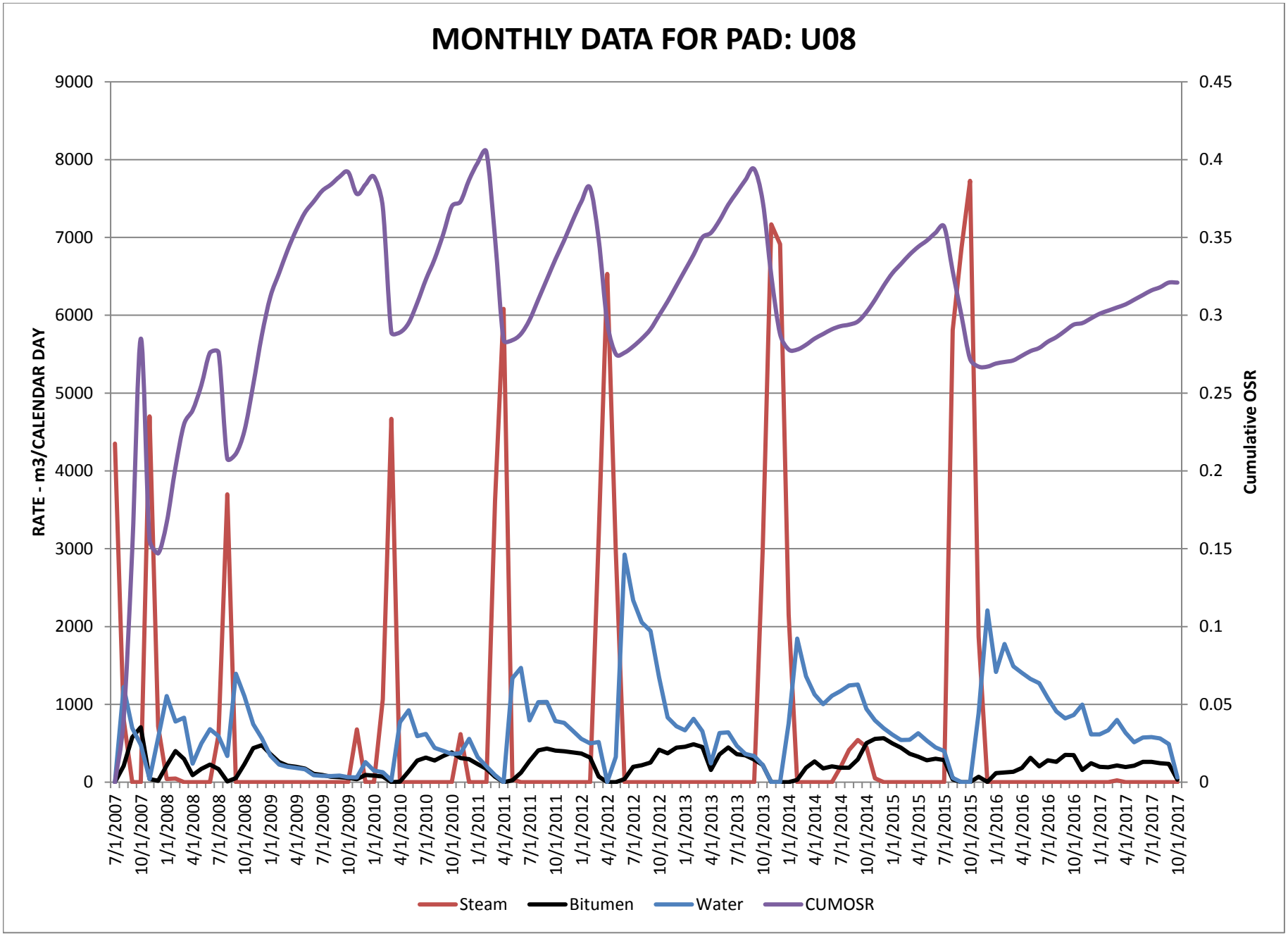
2/1/2014
6/1/2014
10/1/2014
2/1/2015
6/1/2015
10/1/2015
2/1/2016
6/1/2016
10/1/2016
2/1/2017
6/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: U07
RATE - m3/CALENDAR DAY
Cumulative OSR
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
10/1/2009
1/1/2010
4/1/2010
7/1/2010
10/1/2010
1/1/2011
4/1/2011
7/1/2011
10/1/2011
1/1/2012
4/1/2012
7/1/2012
10/1/2012
1/1/2013
4/1/2013
7/1/2013
10/1/2013
1/1/2014
4/1/2014
7/1/2014
10/1/2014
1/1/2015
4/1/2015
7/1/2015
10/1/2015
1/1/2016
4/1/2016
7/1/2016
10/1/2016
1/1/2017
4/1/2017
7/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: U08
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
7/1/2007
10/1/2007
1/1/2008
4/1/2008
7/1/2008
10/1/2008
1/1/2009
4/1/2009
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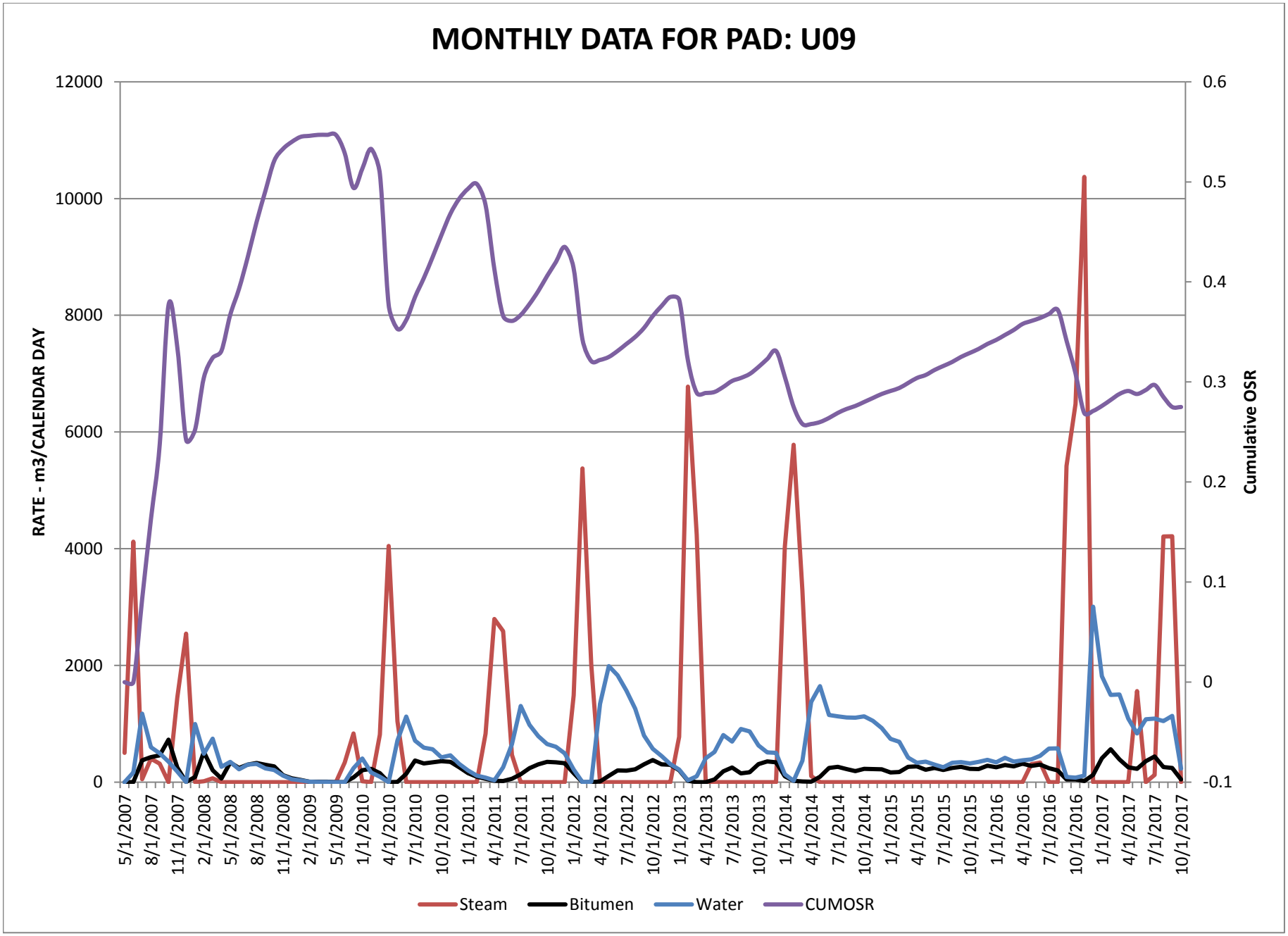
7/1/2015
10/1/2015
1/1/2016
4/1/2016
7/1/2016
10/1/2016
1/1/2017
4/1/2017
7/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: U09
RATE - m3/CALENDAR DAY
Cumulative OSR
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6000
4000
2000
0
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0.5
0.4
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0
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5/1/2007
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4/1/2012
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4/1/2013
7/1/2013
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1/1/2014
4/1/2014
7/1/2014
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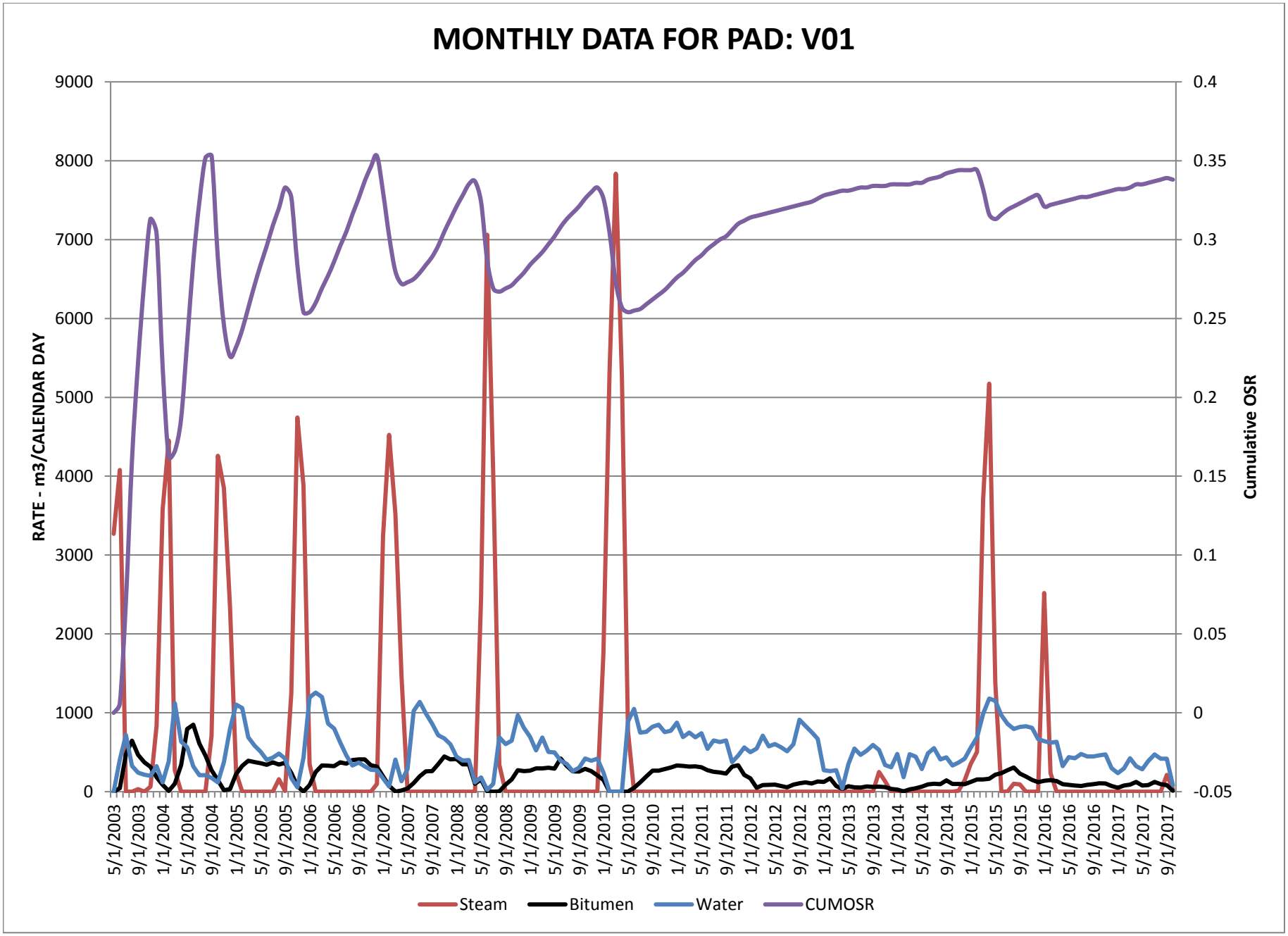
4/1/2015
7/1/2015
10/1/2015
1/1/2016
4/1/2016
7/1/2016
10/1/2016
1/1/2017
4/1/2017
7/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: V01
RATE - m3/CALENDAR DAY
Cumulative OSR
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/2003
9/1/2003
1/1/2004
5/1/2004
9/1/2004
1/1/2005
5/1/2005
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9/1/2009
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9/1/2010
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9/1/2013
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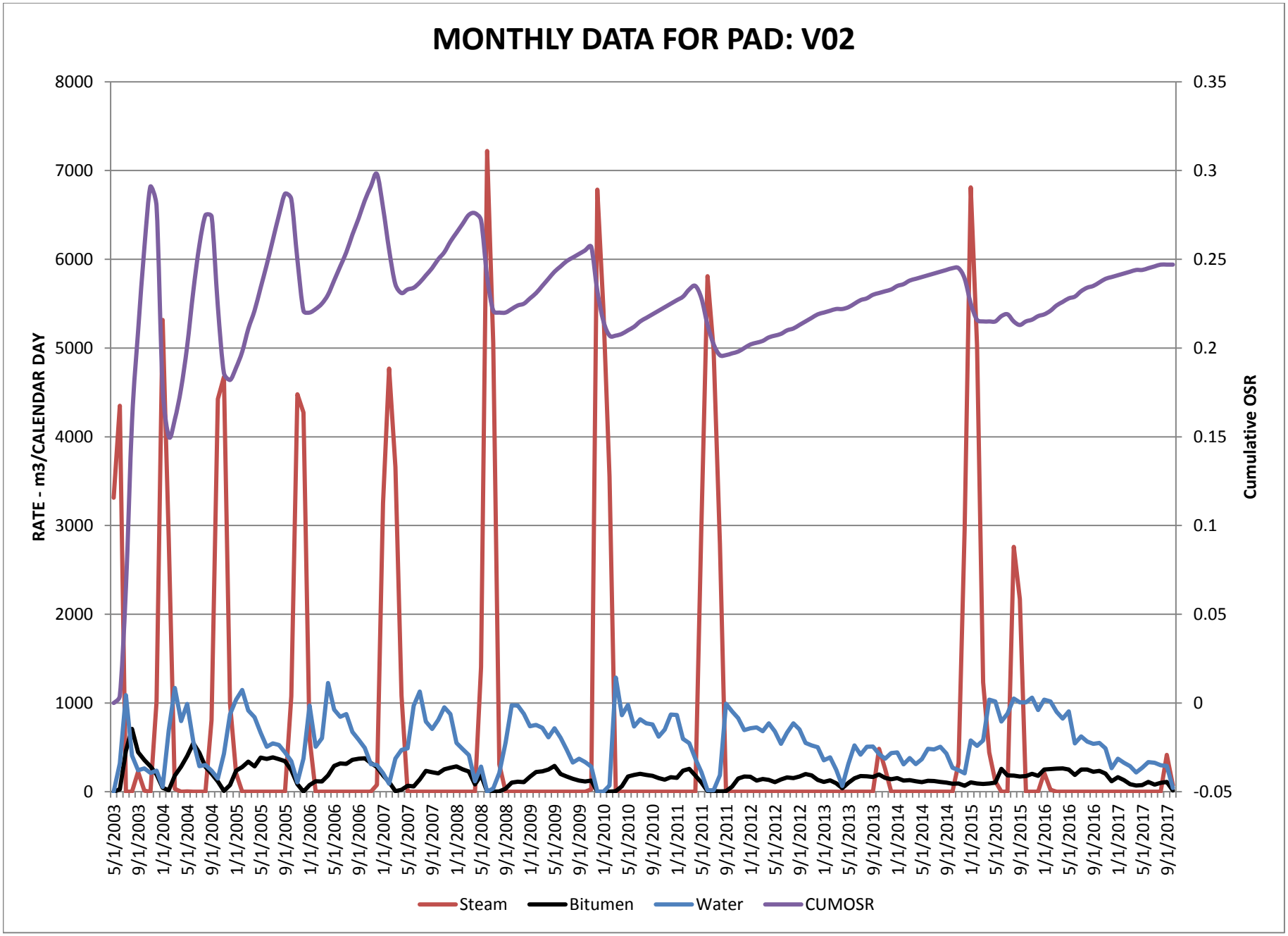
5/1/2014
9/1/2014
1/1/2015
5/1/2015
9/1/2015
1/1/2016
5/1/2016
9/1/2016
1/1/2017
5/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: V02
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/2003
9/1/2003
1/1/2004
5/1/2004
9/1/2004
1/1/2005
5/1/2005
9/1/2005
1/1/2006
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9/1/2007
1/1/2008
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9/1/2009
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9/1/2011
1/1/2012
5/1/2012
9/1/2012
1/1/2013
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9/1/2013
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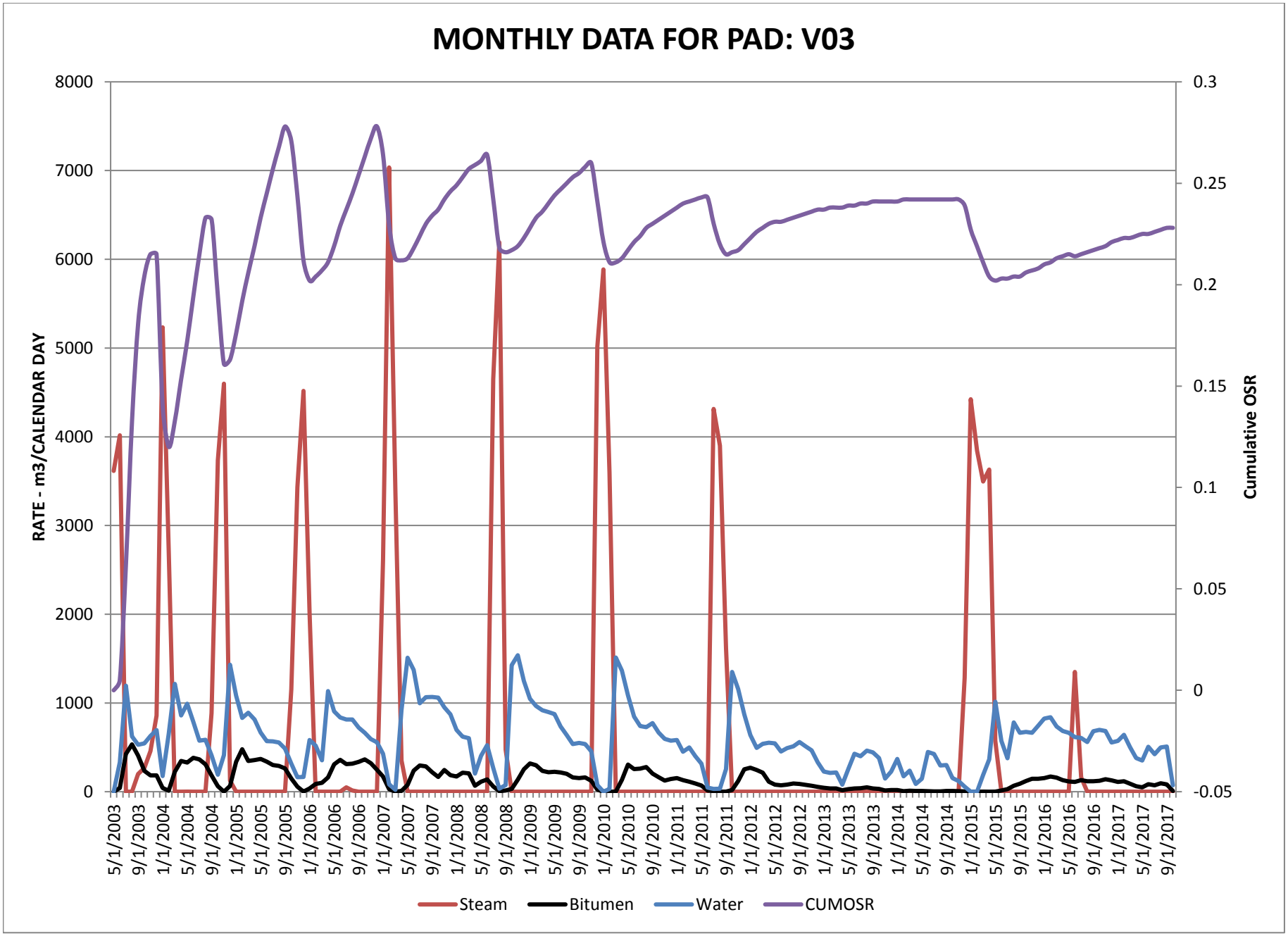
5/1/2014
9/1/2014
1/1/2015
5/1/2015
9/1/2015
1/1/2016
5/1/2016
9/1/2016
1/1/2017
5/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: V03
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/2003
9/1/2003
1/1/2004
5/1/2004
9/1/2004
1/1/2005
5/1/2005
9/1/2005
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9/1/2007
1/1/2008
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9/1/2010
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9/1/2011
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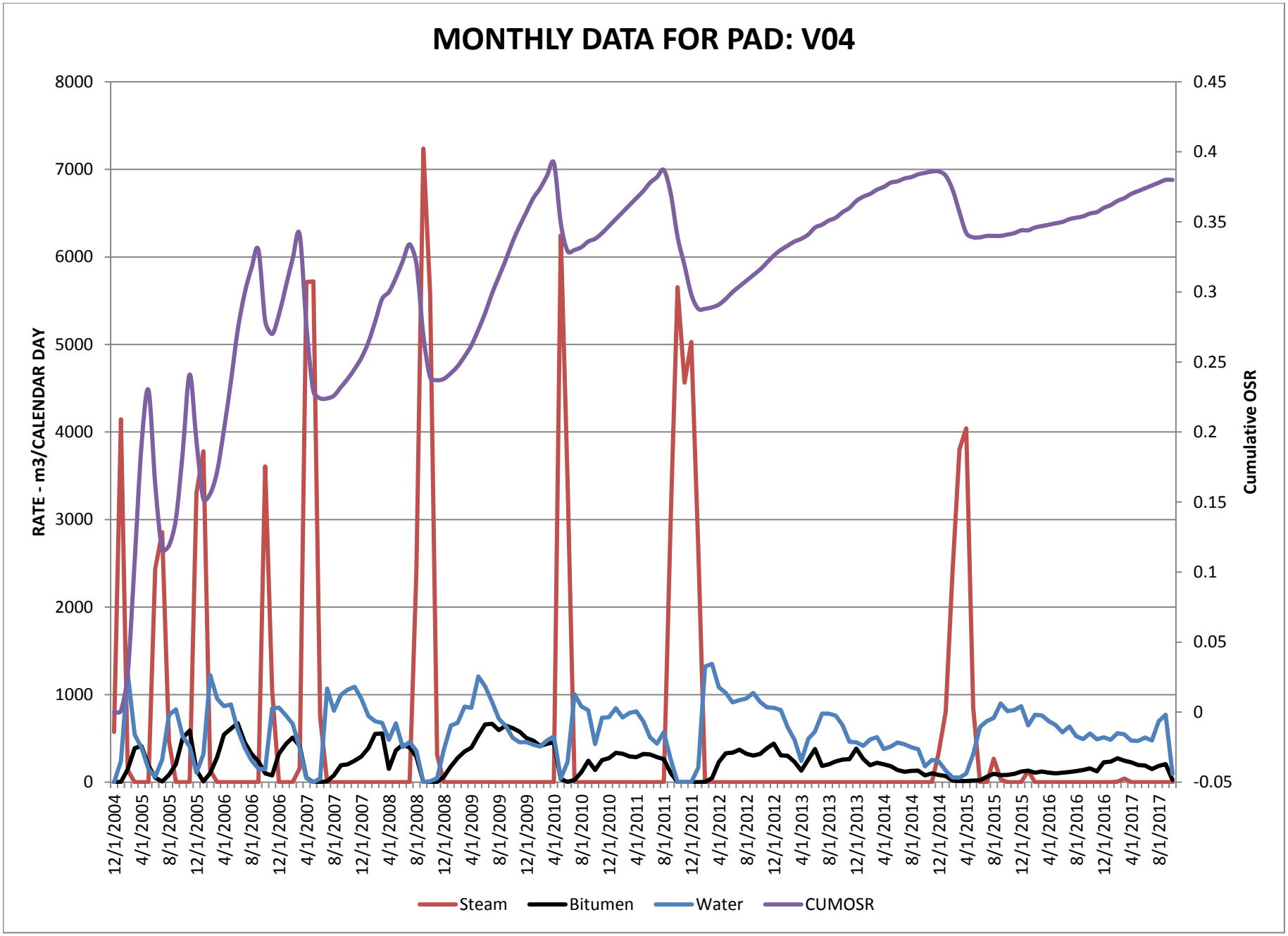
9/1/2012
1/1/2013
5/1/2013
9/1/2013
1/1/2014
5/1/2014
9/1/2014
1/1/2015
5/1/2015
9/1/2015
1/1/2016
5/1/2016
9/1/2016
1/1/2017
5/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: V04
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
12/1/2004
4/1/2005
8/1/2005
12/1/2005
4/1/2006
8/1/2006
12/1/2006
4/1/2007
8/1/2007
12/1/2007
4/1/2008
8/1/2008
12/1/2008
4/1/2009
8/1/2009
12/1/2009
4/1/2010
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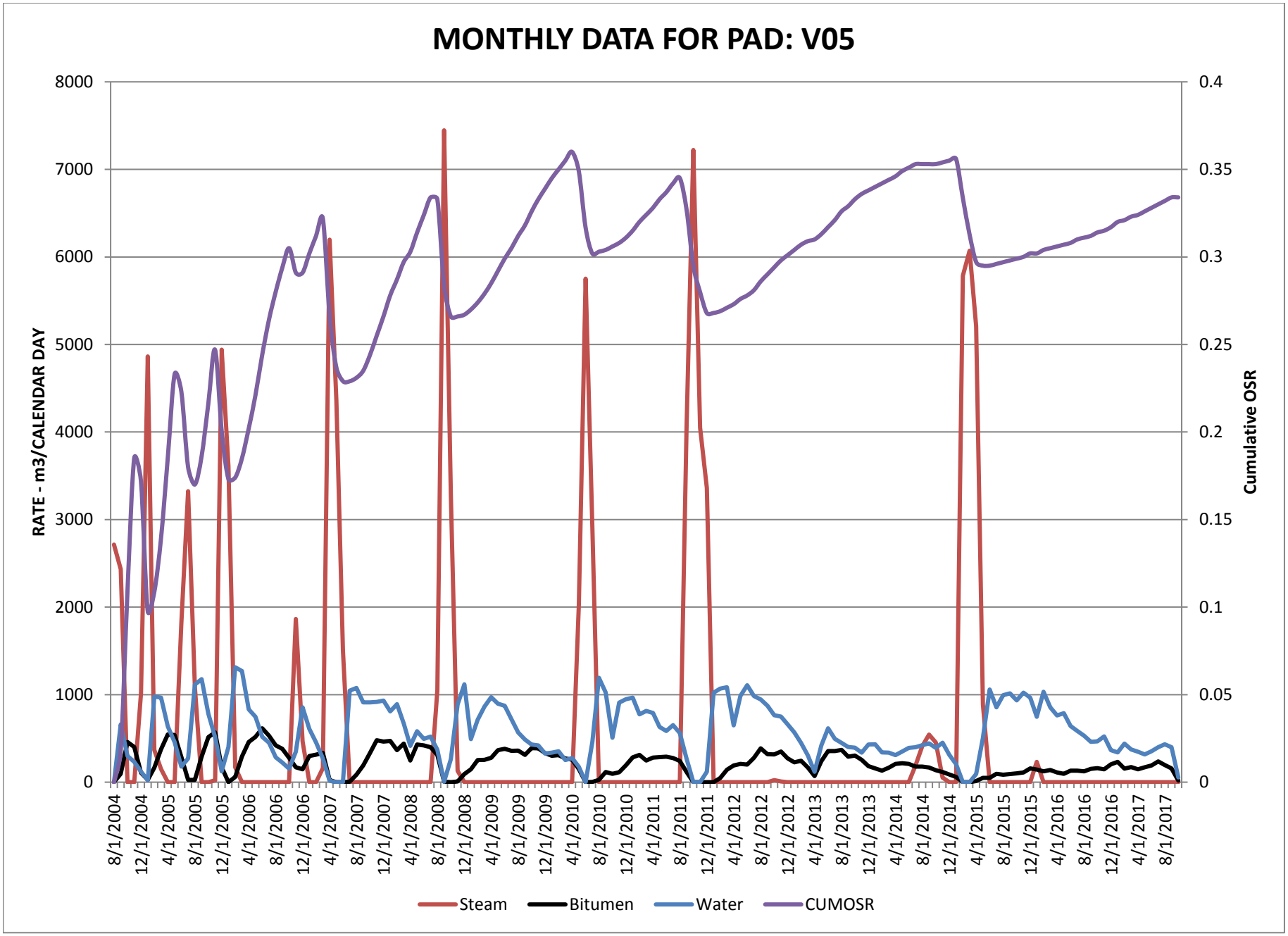
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
8/1/2012
12/1/2012
4/1/2013
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: V05
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
8/1/2004
12/1/2004
4/1/2005
8/1/2005
12/1/2005
4/1/2006
8/1/2006
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4/1/2008
8/1/2008
12/1/2008
4/1/2009
8/1/2009
12/1/2009
4/1/2010
8/1/2010
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
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4/1/2014
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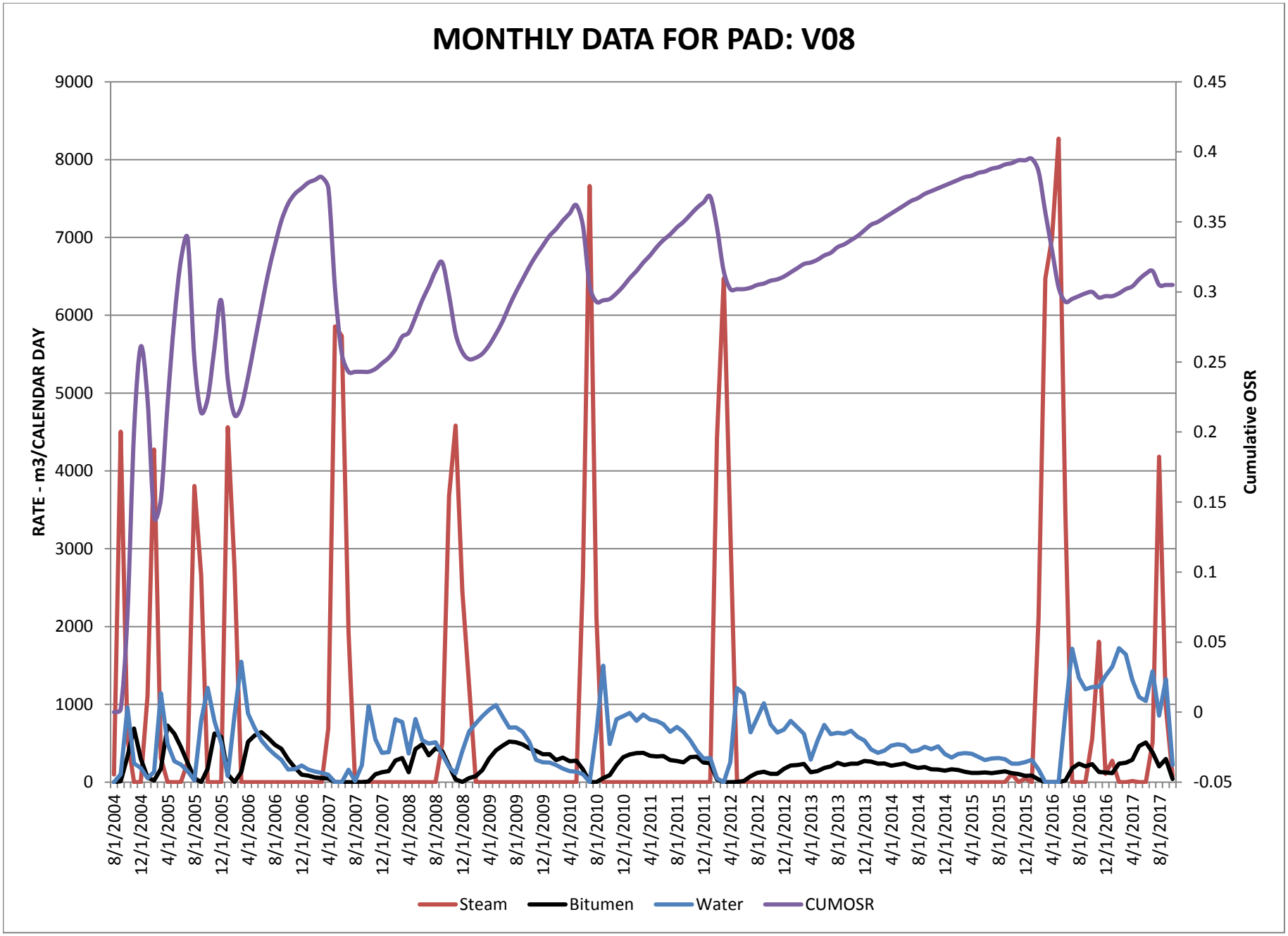
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: V08
RATE - m3/CALENDAR DAY
Cumulative OSR
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8000
7000
6000
5000
4000
3000
2000
1000
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
8/1/2004
12/1/2004
4/1/2005
8/1/2005
12/1/2005
4/1/2006
8/1/2006
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8/1/2007
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4/1/2008
8/1/2008
12/1/2008
4/1/2009
8/1/2009
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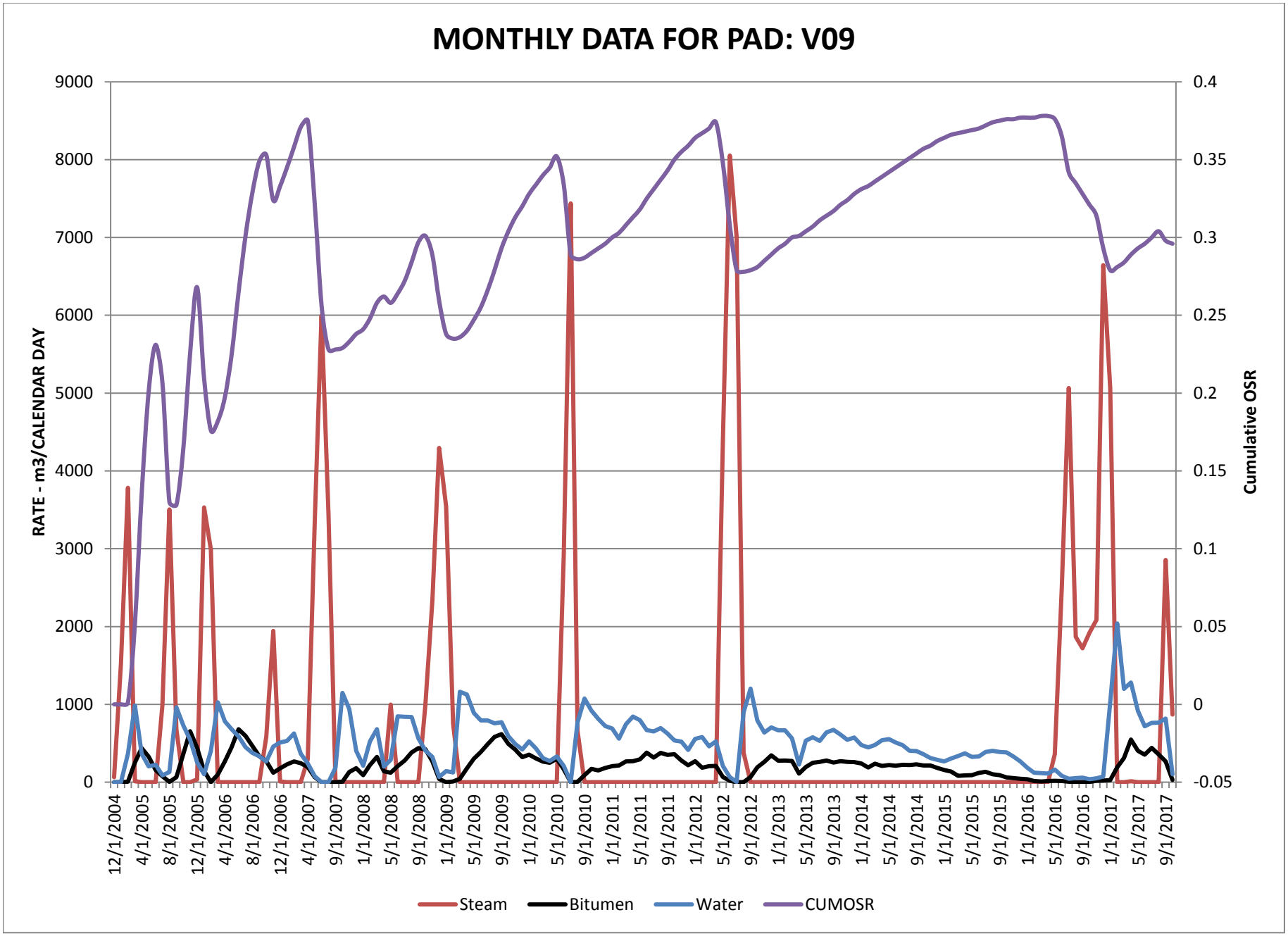
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: V09
RATE - m3/CALENDAR DAY
Cumulative OSR
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8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
12/1/2004
4/1/2005
8/1/2005
12/1/2005
4/1/2006
8/1/2006
12/1/2006
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9/1/2015
1/1/2016
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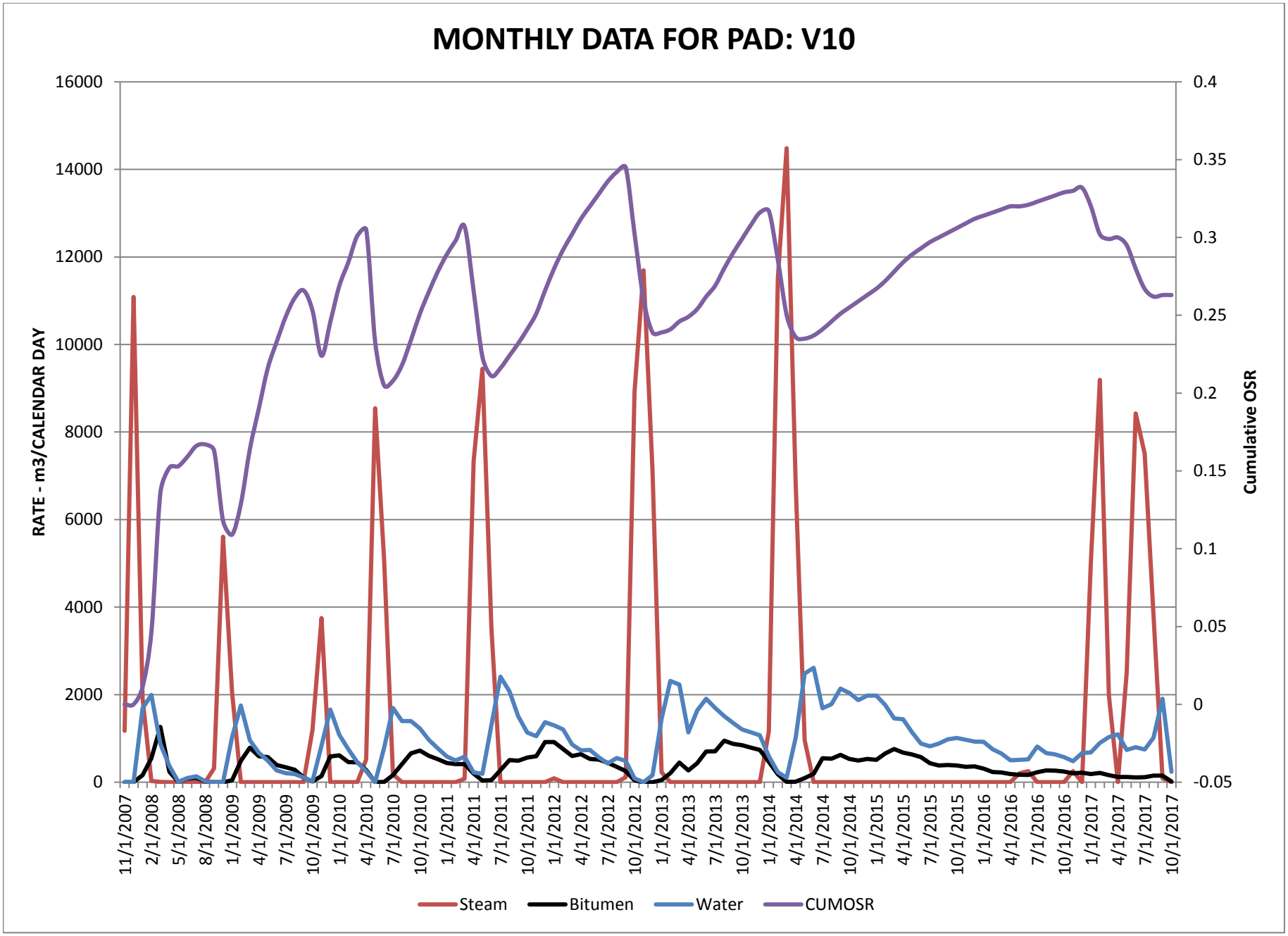
9/1/2016
1/1/2017
5/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: V10
RATE - m3/CALENDAR DAY
Cumulative OSR
16000
14000
12000
10000
8000
6000
4000
2000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
11/1/2007
2/1/2008
5/1/2008
8/1/2008
1/1/2009
4/1/2009
7/1/2009
10/1/2009
1/1/2010
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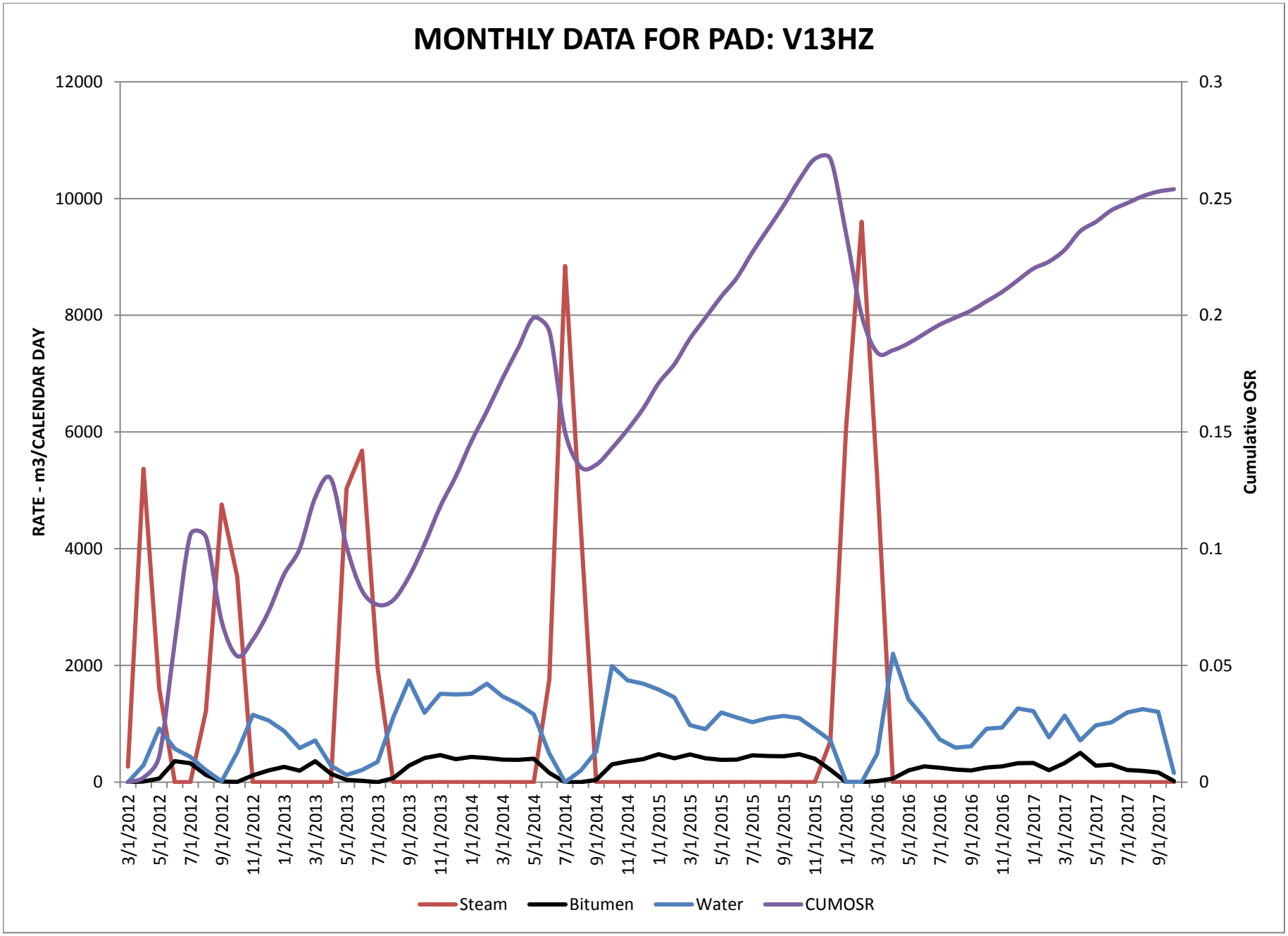
4/1/2016
7/1/2016
10/1/2016
1/1/2017
4/1/2017
7/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: V13HZ
RATE - m3/CALENDAR DAY
Cumulative OSR
12000
10000
8000
6000
4000
2000
0
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
3/1/2013
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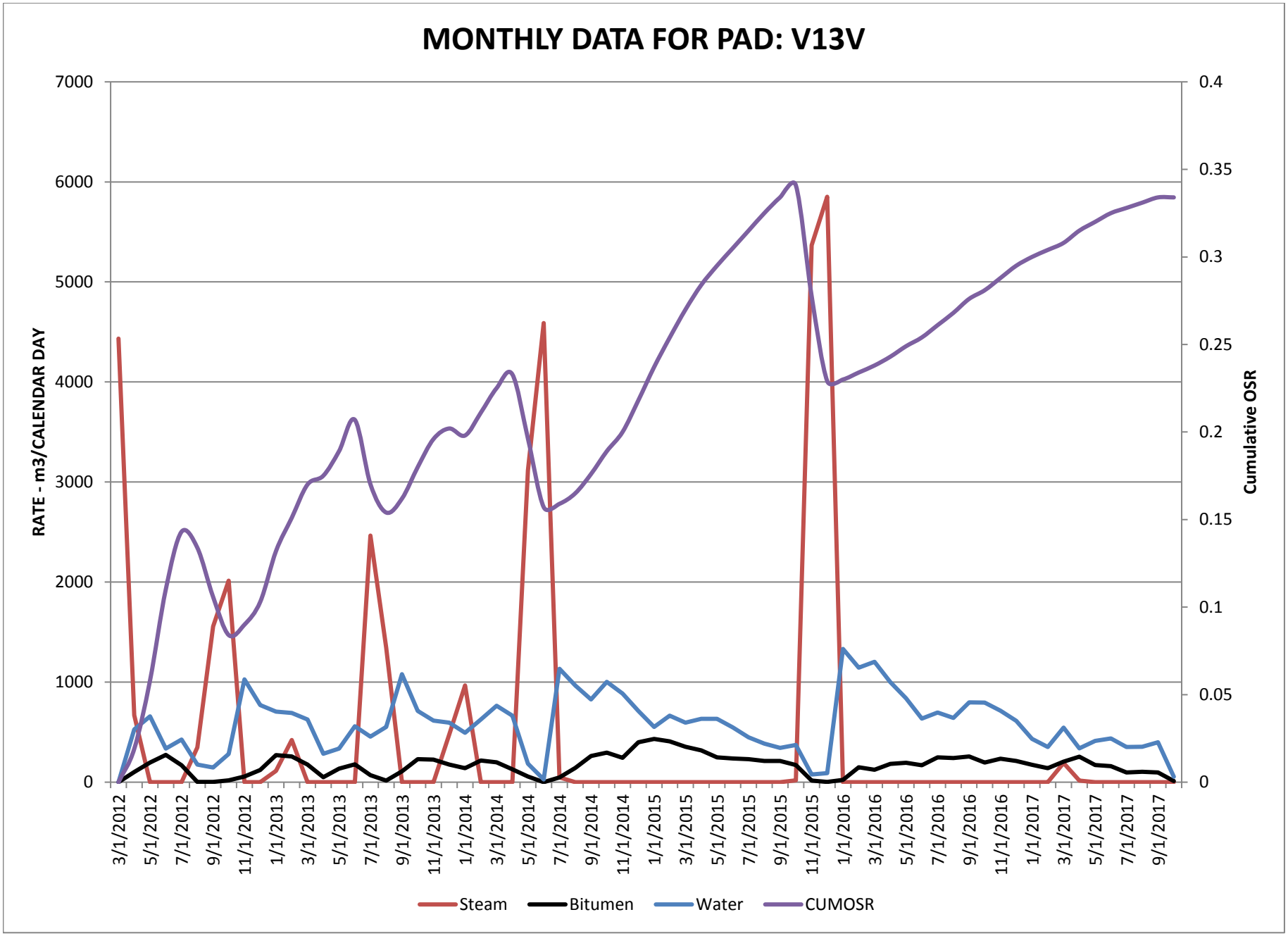
7/1/2016
9/1/2016
11/1/2016
1/1/2017
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: V13V
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
3/1/2013
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9/1/2014
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9/1/2016
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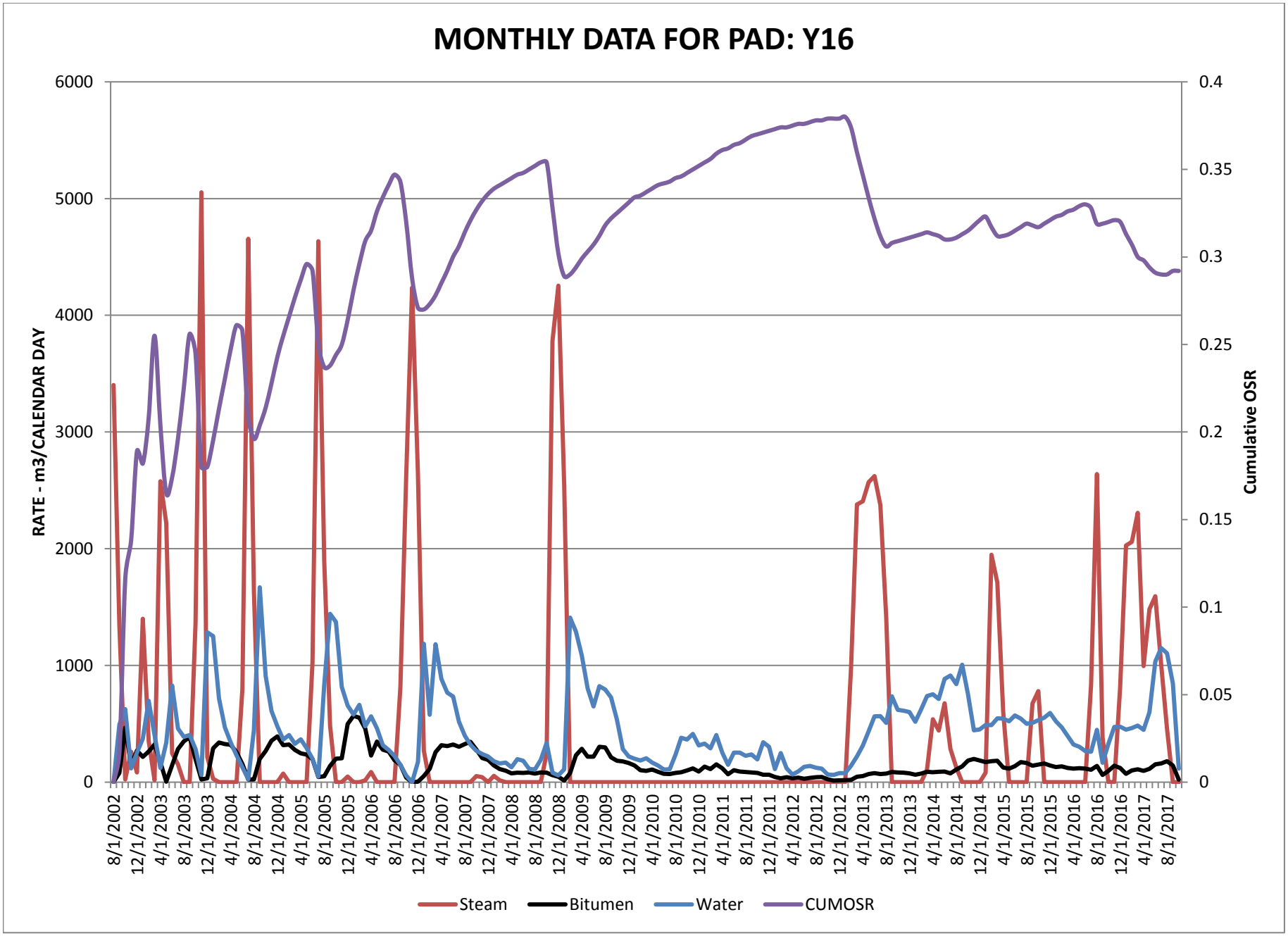
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: Y16
RATE - m3/CALENDAR DAY
Cumulative OSR
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
8/1/2002
12/1/2002
4/1/2003
8/1/2003
12/1/2003
4/1/2004
8/1/2004
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8/1/2006
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4/1/2015
8/1/2015
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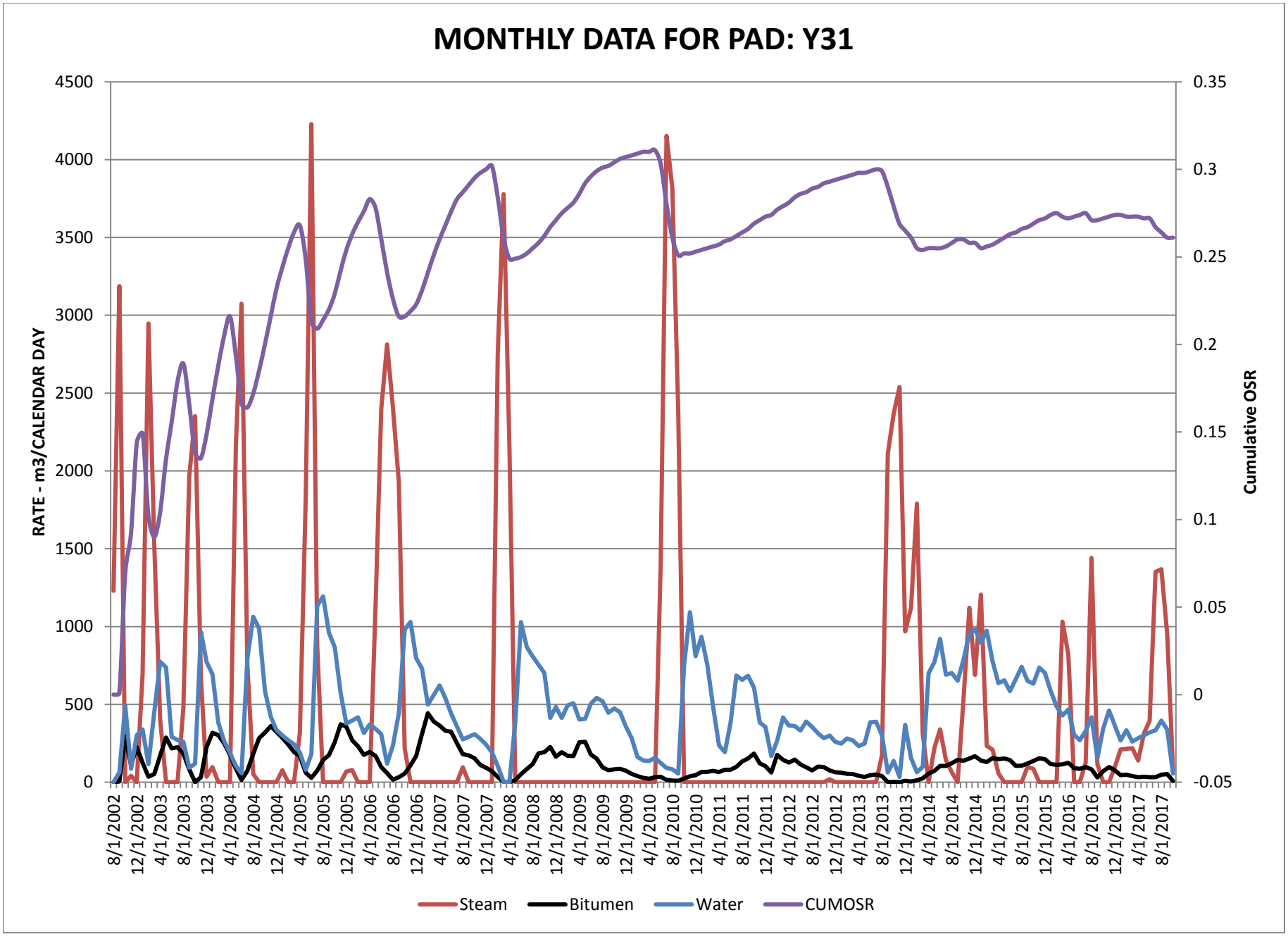
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: Y31
RATE - m3/CALENDAR DAY
Cumulative OSR
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
8/1/2002
12/1/2002
4/1/2003
8/1/2003
12/1/2003
4/1/2004
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4/1/2005
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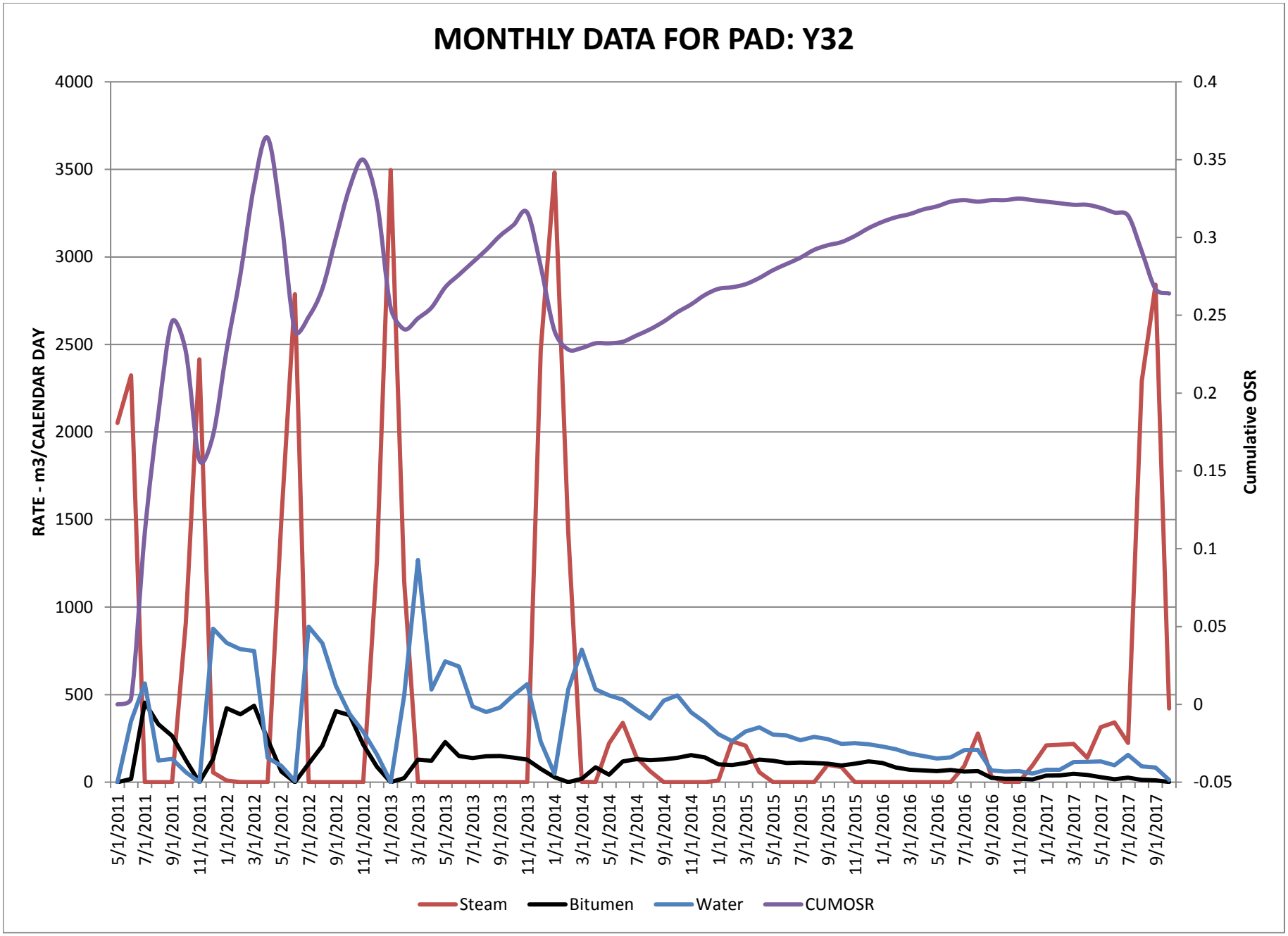
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: Y32
RATE - m3/CALENDAR DAY
Cumulative OSR
4000
3500
3000
2500
2000
1500
1000
500
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
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7/1/2014
9/1/2014
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5/1/2016
7/1/2016
9/1/2016
11/1/2016
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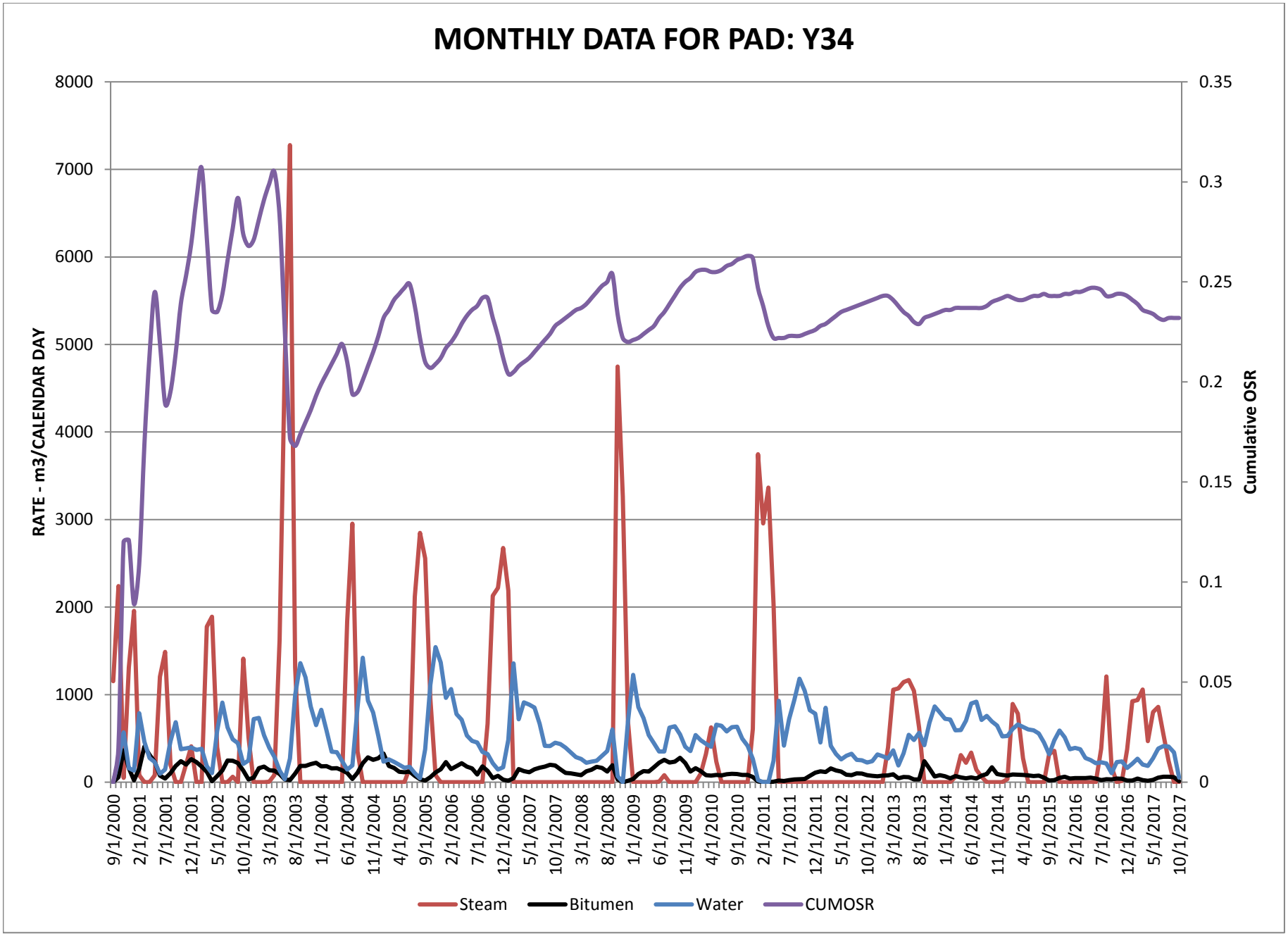
3/1/2017
5/1/2017
7/1/2017
9/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: Y34
RATE - m3/CALENDAR DAY
Cumulative OSR
8000
7000
6000
5000
4000
3000
2000
1000
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
9/1/2000
2/1/2001
7/1/2001
12/1/2001
5/1/2002
10/1/2002
3/1/2003
8/1/2003
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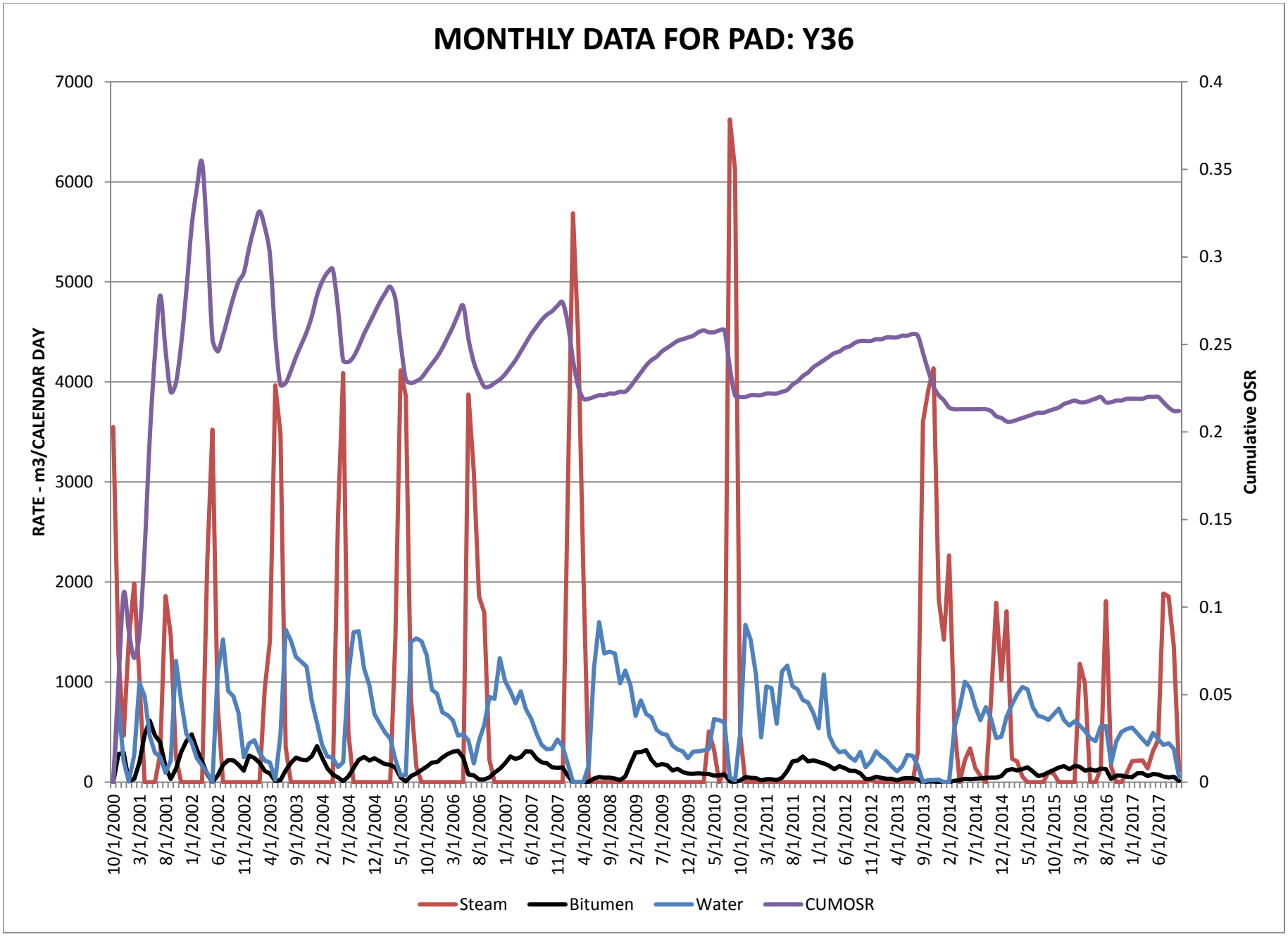
7/1/2016
12/1/2016
5/1/2017
10/1/2017
Steam
Bitumen
Water
CUMOSR


MONTHLY DATA FOR PAD: Y36
RATE - m3/CALENDAR DAY
Cumulative OSR
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
10/1/2000
3/1/2001
8/1/2001
1/1/2002
6/1/2002
11/1/2002
4/1/2003
9/1/2003
2/1/2004
7/1/2004
12/1/2004
5/1/2005
10/1/2005
3/1/2006
8/1/2006
1/1/2007
6/1/2007
11/1/2007
4/1/2008
9/1/2008
2/1/2009
7/1/2009
12/1/2009
5/1/2010
10/1/2010
3/1/2011
8/1/2011
1/1/2012
6/1/2012
11/1/2012
4/1/2013
9/1/2013
2/1/2014
7/1/2014
12/1/2014
5/1/2015
10/1/2015
3/1/2016
8/1/2016
1/1/2017
6/1/2017
Steam
Bitumen
Water
CUMOSR