

WASKADA UNIT NO. 13

WATERFLOOD PROGRESS REPORT

January 1, through December 31, 2012

PennWest Exploration

**Prepared by:
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Senior Waterflood Exploitation Engineer**

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INTRODUCTION

The WASKADA UNIT NO.13 pressure maintenance project commenced water injection into the Lower Amaranth designed and in accordance with Manitoba Energy and Mines Approval No. PM 58.

PRESSURE MAINTENANCE: Governed by Board Order No. PM 58

Unit Information:

UNITIZED ZONE: Lower Amaranth

Original Unit Nov.1, 1985 Board Order - Voluntary

POOL: Waskada Lower Amaranth A (03 29A)

This report documents the performance of the Waskada Unit # 13 pressure maintenance project for the period of January 1 to December 31, 2012.

Unit # 13 is part of main Waskada. The Waskada field is situated on the northeast rim of the Williston Basin in southern Manitoba. It comprises a large portion of Township 1 and 2, Ranges 25 and 26 (WPM).

The Waskada Fields produce light density crude (approximately 36° API), predominantly from the Lower Amaranth formation. The interlaminated, shallow marine to subtidal succession of sandstones, siltstones, and shale progressively onlaps the Mississippian unconformity surface from basin center, up dip to the north and eastern basin limits in Saskatchewan and Manitoba. The fine grained reservoir rock has a complex reservoir characterization with 13 to 16 % porosity and permeability on the order of 0.5 to 15 md. The lower Amaranth, the oldest Mesozoic unit is a clastic red bed sequence lying directly on the Paleozoic erosional surface. It consists of a series of dolomitic siltstones and sandstones interbedded with argillaceous siltstones and shales. The section is usually subdivided into a lower sandy unit and an overlying shale unit. The lower sequence is the oil production zone. The bulk of pay is founded in the laminated sandstone/siltstone facies.

The Lower Amaranth has been classified into four general lithological types:

1. Interbedded shale/siltstone/sandstone by grain size, color and texture
2. Siltstone – This lithology occurs in distinct intervals up to two or three meters in thickness. It is generally light green in color and dolomitic.
3. Laminated sandstone – This occurs in distinct sandy intervals with a wide range of grain sizes and primary sedimentary structures.
4. Massive sandstone – This lithology occurs in thin intervals and usually associated with the laminated sandstones facies. Beds are usually light grey to reddish grey in color and coarse to medium – grained.

UNIT HISTORY

Waskada Unit #13 (Unit History)

CPA Pretty Well ID	Date Well Spudded	On Prod YYYY/MM/DD	Org Operator Name	Ground Elevation (m)	TVD (m)
100/01-01-002-26W1/00	8/4/1984	9/1/1984	Omega Hydcbns Ltd	467.2	953
100/02-01-002-26W1/00	8/8/1984	9/1/1984	Omega Hydcbns Ltd	466	956
100/03-01-002-26W1/00	5/29/1984	7/1/1984	Omega Hydcbns Ltd	464.5	950
100/04-01-002-26W1/00	6/2/1984	6/1/1984	Omega Hydcbns Ltd	465.4	950
102/04-01-002-26W1/00	9/30/2010	12/1/2010	Penn West Enrg Trust	467.5	910.3
103/04-01-002-26W1/00	1/31/2011	8/1/2011	Penn West Petrl	467.1	912.3
104/04-01-002-26W1/00	2/7/2011	9/1/2011	Penn West Enrg Trust	466.9	908
105/04-01-002-26W1/00	2/14/2011	8/1/2011	Penn West Petrl Ltd	466.9	911
100/05-01-002-26W1/00	5/25/1984	6/1/1984	Omega Hydcbns Ltd	466	949
102/05-01-002-26W1/00	9/26/2010	12/1/2010	Penn West Enrg Trust	467.5	908.1
103/05-01-002-26W1/00	9/21/2010	12/1/2010	Penn West Enrg Trust	467.4	909
104/05-01-002-26W1/00	9/12/2010	12/1/2010	Penn West Enrg Trust	467.5	909.4
105/05-01-002-26W1/00	9/16/2010	12/1/2010	Penn West Enrg Trust	467.5	911.7
100/06-01-002-26W1/00	5/22/1984	6/1/1984	Omega Hydcbns Ltd	464.7	949
100/07-01-002-26W1/00	8/13/1984	9/1/1984	Omega Hydcbns Ltd	466.7	952
100/08-01-002-26W1/00	7/30/1984	9/1/1984	Omega Hydcbns Ltd	467.7	950
102/08-01-002-26W1/00	8/24/2010	11/1/2010	Penn West Enrg Trust	466.6	904.1
100/09-01-002-26W1/00	6/6/1985	7/1/1985	Omega Hydcbns Ltd	467.3	946
102/09-01-002-26W1/00	8/19/2010	11/1/2010	Penn West Enrg Trust	466.6	903
100/10-01-002-26W1/00	10/25/1984	11/1/1984	Omega Hydcbns Ltd	467.2	955
100/11-01-002-26W1/00	11/20/1984	12/1/1984	Omega Hydcbns Ltd	464.8	949
100/12-01-002-26W1/00	12/14/1984	1/1/1985	Omega Hydcbns Ltd	466.4	960
102/12-01-002-26W1/00	10/20/2010	12/1/2010	Penn West Enrg Trust	467.7	901.8

100/13-01-002-26W1/00	12/8/1983	1/1/1984	Sasko O&G Lmtd	465.4	965
102/13-01-002-26W1/00	11/5/2010	12/1/2010	Penn West Enrg Trust	470.5	904.2
100/14-01-002-26W1/00	1/10/1984	2/1/1984	Sasko O&G Lmtd	468.5	975
100/15-01-002-26W1/00	7/9/1985	8/1/1985	Omega Hydcbns Ltd	469.4	946

Waskada Unit #13 (Production & Injection History)

CPA Pretty Well ID	First Prod YYYY/MM	On Inject. YYYY/MM/DD	Last Prod. YYYY/MM	Cumulative OIL Prod. (m3)	Cumulative WTR Prod. (m3)	Last Inject. YYYY/MM
100/01-01-002-26W1/00	1984/09		1989/02	901	1029	
100/02-01-002-26W1/00	1984/09		2012/10	6334	959	
100/03-01-002-26W1/00	1984/07		2008/05	5993	2667	
100/04-01-002-26W1/00	1984/06		2011/07	7803	1383	
102/04-01-002-26W1/00	2010/12		2012/10	4780	6481	
103/04-01-002-26W1/00	2011/08		2012/10	2258	1897	
104/04-01-002-26W1/00	2011/09		2012/10	1949	1343	
105/04-01-002-26W1/00	2011/08		2012/10	1688	1935	
100/05-01-002-26W1/00	1984/06	2/1/1987	1986/12	2256	516	2000/01
102/05-01-002-26W1/00	2010/12		2012/10	3546	4469	
103/05-01-002-26W1/00	2010/12		2012/10	3272	4505	
104/05-01-002-26W1/00	2010/12		2012/10	3055	4142	
105/05-01-002-26W1/00	2010/12		2012/10	3127	4016	
100/06-01-002-26W1/00	1984/06		2012/10	7408	1124	
100/07-01-002-26W1/00	1984/09	2/1/1987	1986/11	1211	622	2001/09
100/08-01-002-26W1/00	1984/09		1996/01	1943	1681	
102/08-01-002-26W1/00	2010/11		2012/10	3490	6301	
100/09-01-002-26W1/00	1985/07		1988/07	319	626	
102/09-01-002-26W1/00	2010/11		2012/10	3810	5165	
100/10-01-002-26W1/00	1984/11		2012/10	4816	1184	
100/11-01-002-26W1/00	1984/12		2011/08	5677	1546	
100/12-01-002-26W1/00	1985/01		2011/02	5432	1019	
102/12-01-002-26W1/00	2010/12		2012/10	4501	2056	
100/13-01-002-26W1/00	1984/01	12/1/1986	1986/10	936	315	1998/04
102/13-01-002-26W1/00	2010/12		2012/10	4777	3484	
100/14-01-002-26W1/00	1984/02		1999/11	3024	498	
100/15-01-002-26W1/00	1985/08	1/1/1987	1986/12	486	364	1998/04

DISCUSSION:

Production Performance

Production Response versus Injection: Since injection began, late 1986, injection rates fluctuated to the same degree amongst the injectors; it is difficult to link any production responses to any specific injector. Although injection rate was high recently, it did not affect the produced oil and water. Water breakthrough of certain producers could not be identified with over injection of associated injectors. Some wells showed not much change in oil rate when injection was ceased in 2001.

Voidage Replacement Ratio Calculation

What could be described as very limited success, the waterflood was not maintained properly and injection rate was dropped year after year in most cases. The cumulative VRR in the pool is about 1.01 and current monthly VRR is zero. All the injectors are currently shut in, and PennWest has no plan to reactivate any of the old injectors. (see Appendix C)

To understand the past performance of the Lower Amaranth waterflood, we are doing some reservoir engineering work to come up with potential solutions. One of our plans is to do a pilot program in section 2: The objective of the pilot is to:

1. See if we can inject water continuously into the Lower Amaranth Formation
 - i. Particle size less than 1 micron
 - ii. Total Suspended Solid (TSS) less than 10 ppm
 - iii. Oil less than 10 ppm
2. Inject below the frac pressure
3. Test the simulation model that we have built.

2012 Waskada Lower Amaranth Waterflood Pilot Location

The pilot producer is 102/12-01-02-26W1/00 (the existing horizontal well) and the injectors are two vertical wells; 100/12-01-02-26W1 and 100/11-01-02-26 (converted to

injectors). The pilot started late 2012, but because of some technical issues and cold weather the operation suspended, and it was postponed until spring 2013.

Corrosion and Scale Prevention Program

We currently inject ScalCor down all the new horizontal wells. Plus, PennWest will be installing cathodic protection on the wells. Also, the new gathering system is Fiberglass and as such is not susceptible to corrosion.

SUMMARY AND RECOMMENDATIONS

[Producers]

Current Producing Wells

100/02-01-002-26W1/00
102/04-01-002-26W1/00
103/04-01-002-26W1/00
104/04-01-002-26W1/00
105/04-01-002-26W1/00
102/05-01-002-26W1/00
103/05-01-002-26W1/00
104/05-01-002-26W1/00
105/05-01-002-26W1/00
100/06-01-002-26W1/00
102/08-01-002-26W1/00
102/09-01-002-26W1/00
100/10-01-002-26W1/00
102/12-01-002-26W1/00
102/13-01-002-26W1/00

Current Suspended Wells

100/03-01-002-26W1/00 (since 2008/06)
100/04-01-002-26W1/00 (since 2011/08)
100/11-01-002-26W1/00 (since 2011/09)
100/12-01-002-26W1/00 (since 2011/03)
100/14-01-002-26W1/00 (since 1999/12)

Abandoned Wells

00/01-01-002-26W1/0 (since 1989/03)
00/08-01-002-26W1/0 (since 1996/02)
00/09-01-002-26W1/0 (since 1988/08)

[Injectors]

Current Injecting Wells

None

Current Suspended Wells

00/13-01-002-26W1/0 (since 1998/05)
00/15-01-002-26W1/0 (since 1998/05)
00/05-01-002-26W1/0 (since 2000/02)

Abandoned Wells

00/07-01-002-26W1/0 (since 2001/10)

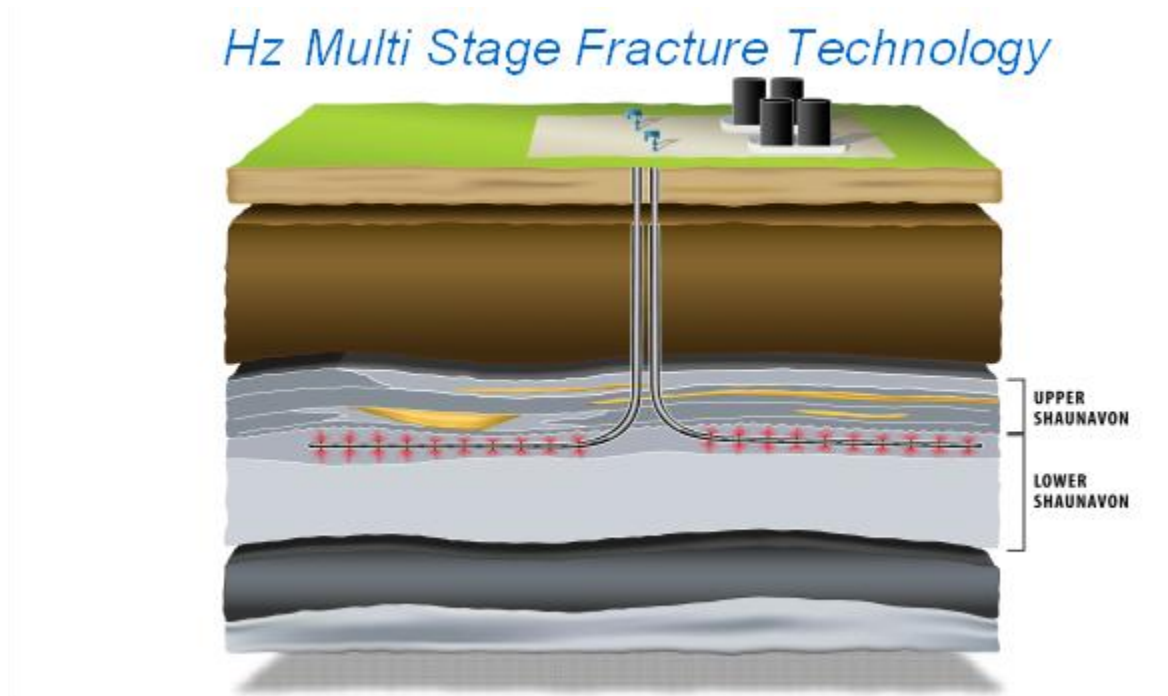
The behavior of a Waskada Unit 13 producers are indicated by examining the oil rate versus time plots (see Appendix B). Unit 13 exhibited relatively high initial oil productivity (most of the wells drilled in the past were verticals), rapidly declining to flat/low decline rates, with almost no discernible water flood response.

It is believed that fracture stimulation treatments, performed on these wells prior to initiation of water injection, “broke” through into the higher productivity Mississippian and that majority of injected water to date has entered this zone. This is one of the major

explanations for lack of waterflood response to date and the continued decline in oil productivities.

The Waskada Lower Amaranth is becoming a non-conventional tight oil resources play that utilizes horizontal multistage drilling technology (small multistage stimulations on newly drilled wells will remain “in zone” within the Lower Amaranth) to re-develop the thick low perm oil zones adjacent to the conventional Amaranth zone that was discovered in the 1980’s. PennWest has drilled ten wells in 2010, 102/01-01-002-26W1, 102/04-01-002-26W1, 102/05-01-002-26W1, 103/05-01-002-26W1, 104/05-01-002-26W1, 105/05-01-002-26W1, 102/08-01-002-26W1, 102/09-01-002-26W1, 102/12-01-002-26W1 and 102/13-01-002-26W1. PennWest also drilled three horizontal wells in 2011. Our next plan is once we drilled more horizontal wells in the unit, convert some of the recent horizontal producing wells to injection wells to increase the sweep efficiency, ultimately increase the recoverable oil in place.

The following is the HZ Multi Stage Fracture Technology development programs that we are using:



TABLES

Waskada Unit #13

Table 1: Rate History

Production Data						
Date	Oil		Water		Injection Water	
Year	m3/year	m3/day	m3/year	m3/day	m3/year	m3/day
1982	746	2.04	116	0.32	0	0.00
1985	7,234	19.82	3,043	8.34	0	0.00
1986	4,259	11.67	1,699	4.66	1,530	4.19
1987	2,417	6.62	1,118	3.06	27,340	74.90
1988	2,887	7.91	1,045	2.86	12,821	35.12
1989	2,393	6.56	516	1.41	5,873	16.09
1990	2,733	7.49	330	0.90	3,919	10.74
1991	2,966	8.12	373	1.02	2,521	6.91
1992	2,638	7.23	365	1.00	3,493	9.57
1993	2,518	6.90	306	0.84	6,013	16.47
1994	2,516	6.89	724	1.98	4,084	11.19
1995	2,613	7.16	1,488	4.08	3,903	10.69
1996	1,903	5.21	430	1.18	3,873	10.61
1997	1,282	3.51	214	0.59	2,950	8.08
1998	729	2.00	44	0.12	1,354	3.71
1999	509	1.39	51	0.14	816	2.24
2000	982	2.69	107	0.29	1,696	4.65
2001	680	1.86	87	0.24	463	1.27
2002	805	2.20	57	0.16	0	0.00
2003	994	2.72	37	0.10	0	0.00
2004	1,160	3.18	49	0.13	0	0.00
2005	773	2.12	39	0.11	0	0.00
2006	1,067	2.92	312	0.86	0	0.00
2007	746	2.04	303	0.83	0	0.00
2008	677	1.86	107	0.29	0	0.00
2009	379	1.04	77	0.21	0	0.00
2010	3,673	10.06	3,398	9.31	0	0.00
2011	27,439	75.18	30,232	82.83	0	0.00
2012	9,910	27.15	12,532	34.33	0	0.00

Waskada Unit #13

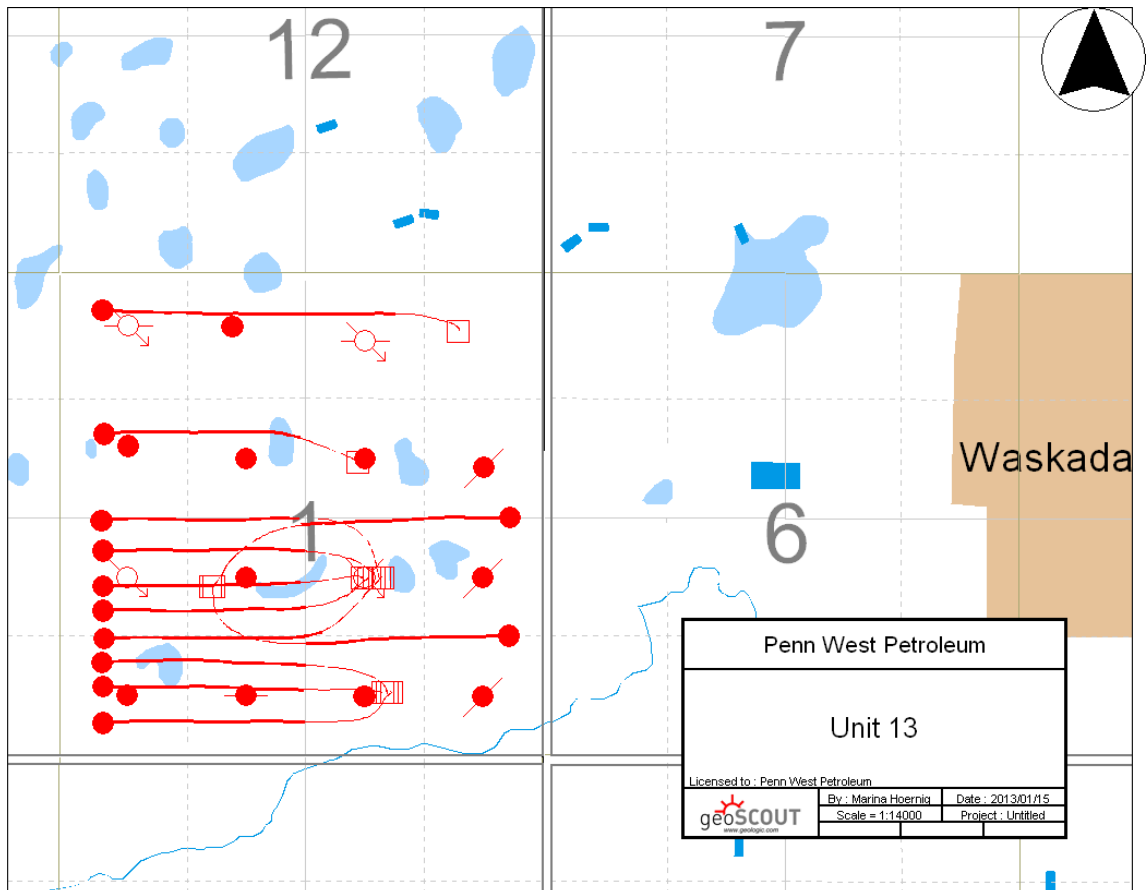
Table 2: Pressure Survey

Location	Shut In Date	Date of Survey	Type of Survey	Pressure @ Datum Depth (kPa)
00/03-01-002-26W1/0		10-Jan-10	BHP, Assuming WC from Last Prod'n	9338
00/06-01-002-26W1/0	(16 days)	11-Dec-06	Acoustic Build Up	7229
00/14-01-002-26W1/0		10-Jan-10	BHP, Assuming WC from Last Prod'n	7887
104/05-01-002-26W1/0		30-July-11	Results of the test are attached to the report	

Recent pressure test was performed on 104/05-01-002-26W1/00 on July 2011 and the results of the test are attached to the report

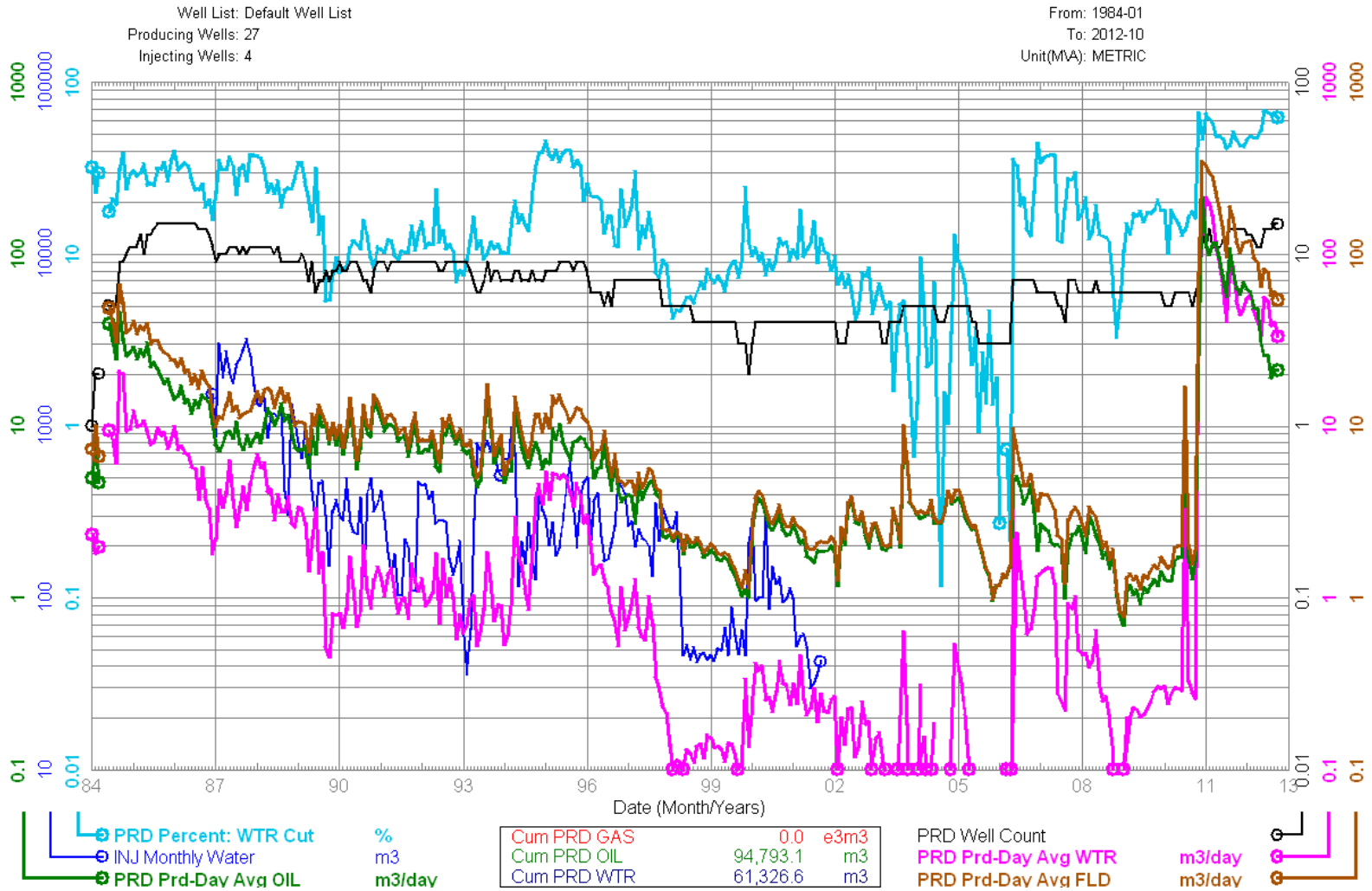
APPENDIX A

Appendix A – Area Map



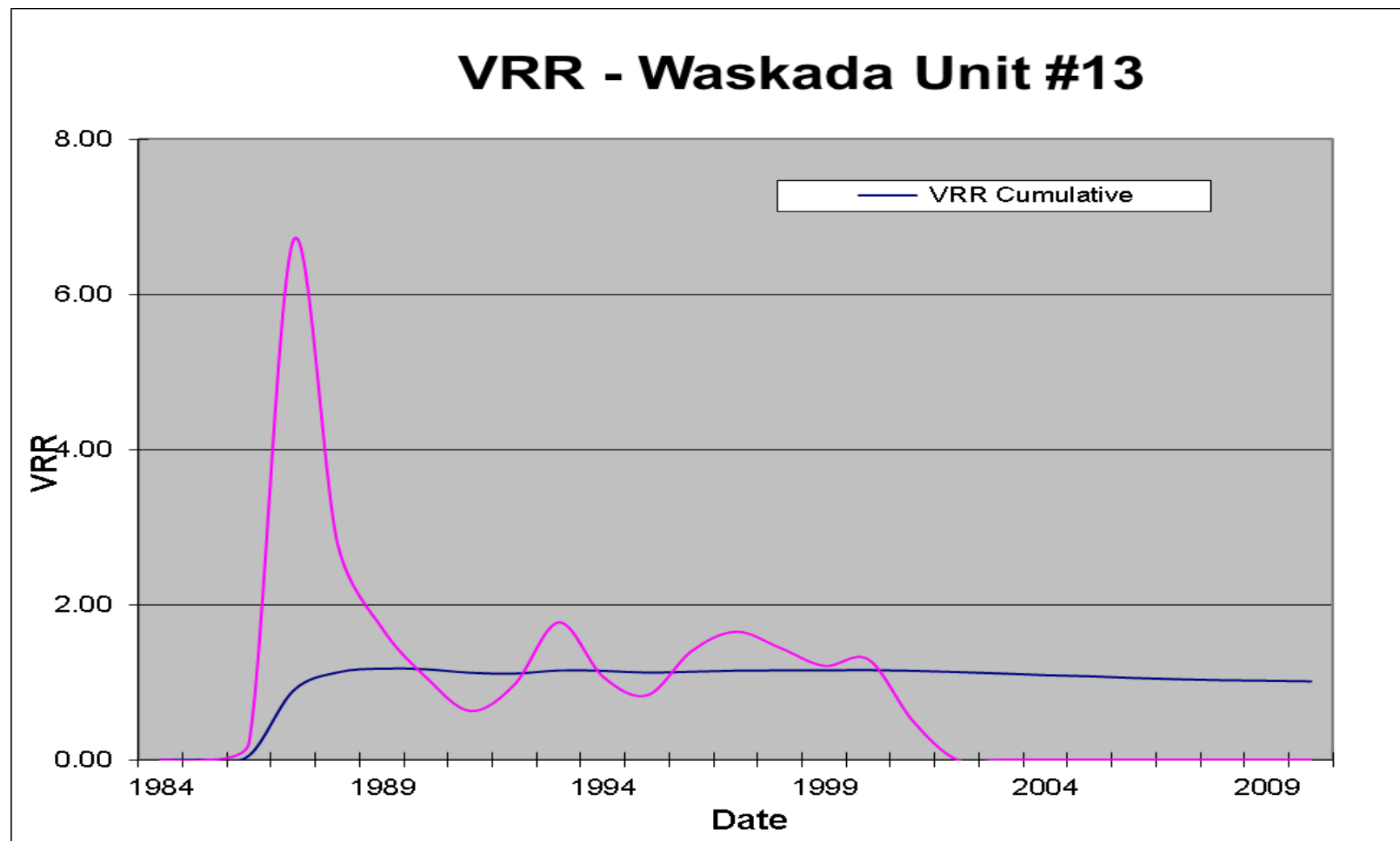
APPENDIX B

Appendix B – Production and Injection History plot



APPENDIX C

Appendix C – Voidage Replacement Ratio VRR



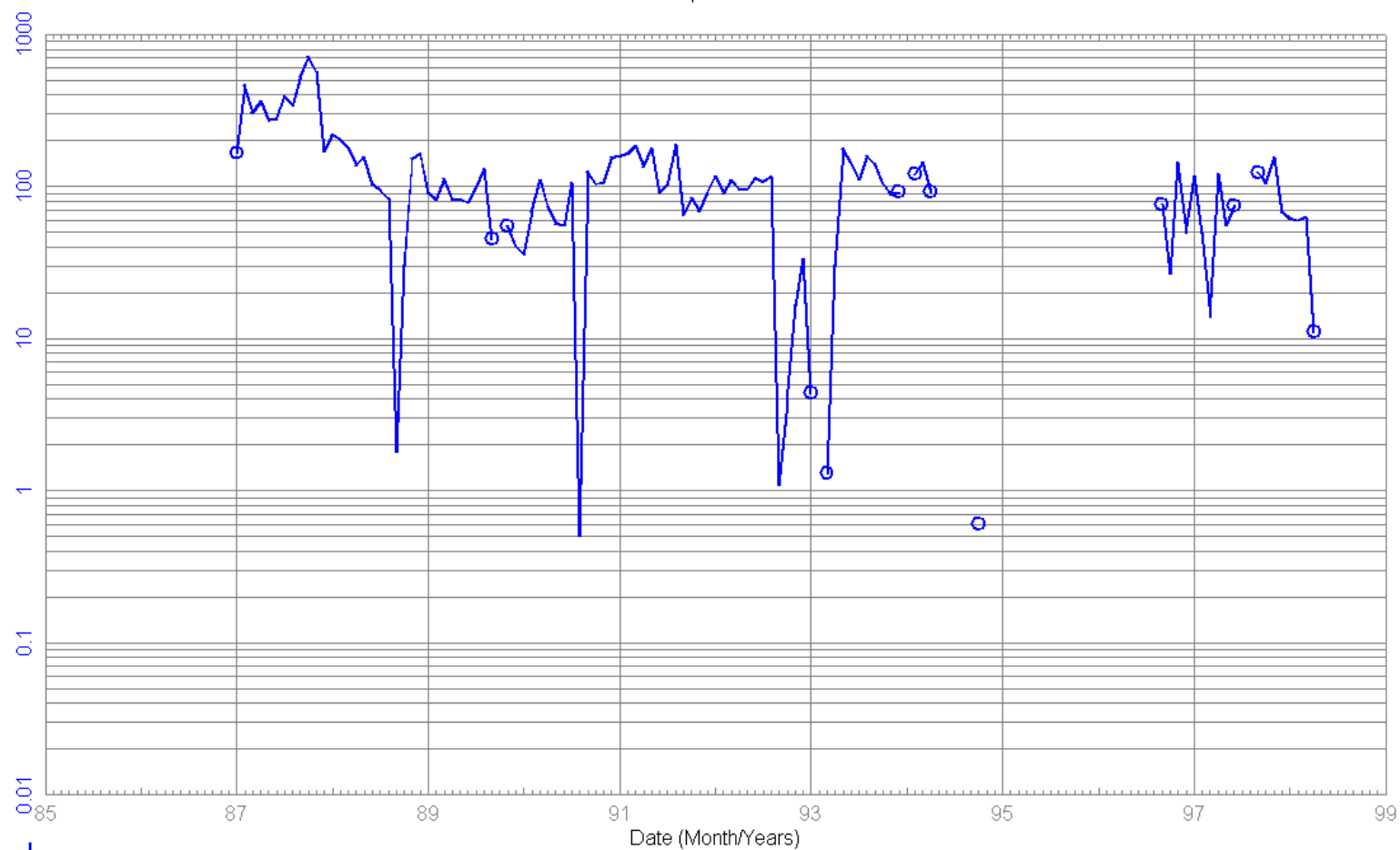
APPENDIX D

Appendix D – Production and Injection Profiles

Data As Of: 2012-10 (MB)
From: 1985-08
To: 1986-12

100/15-01-002-26W1/00
Waskada Unit No. 13 WW
WW - Suspended

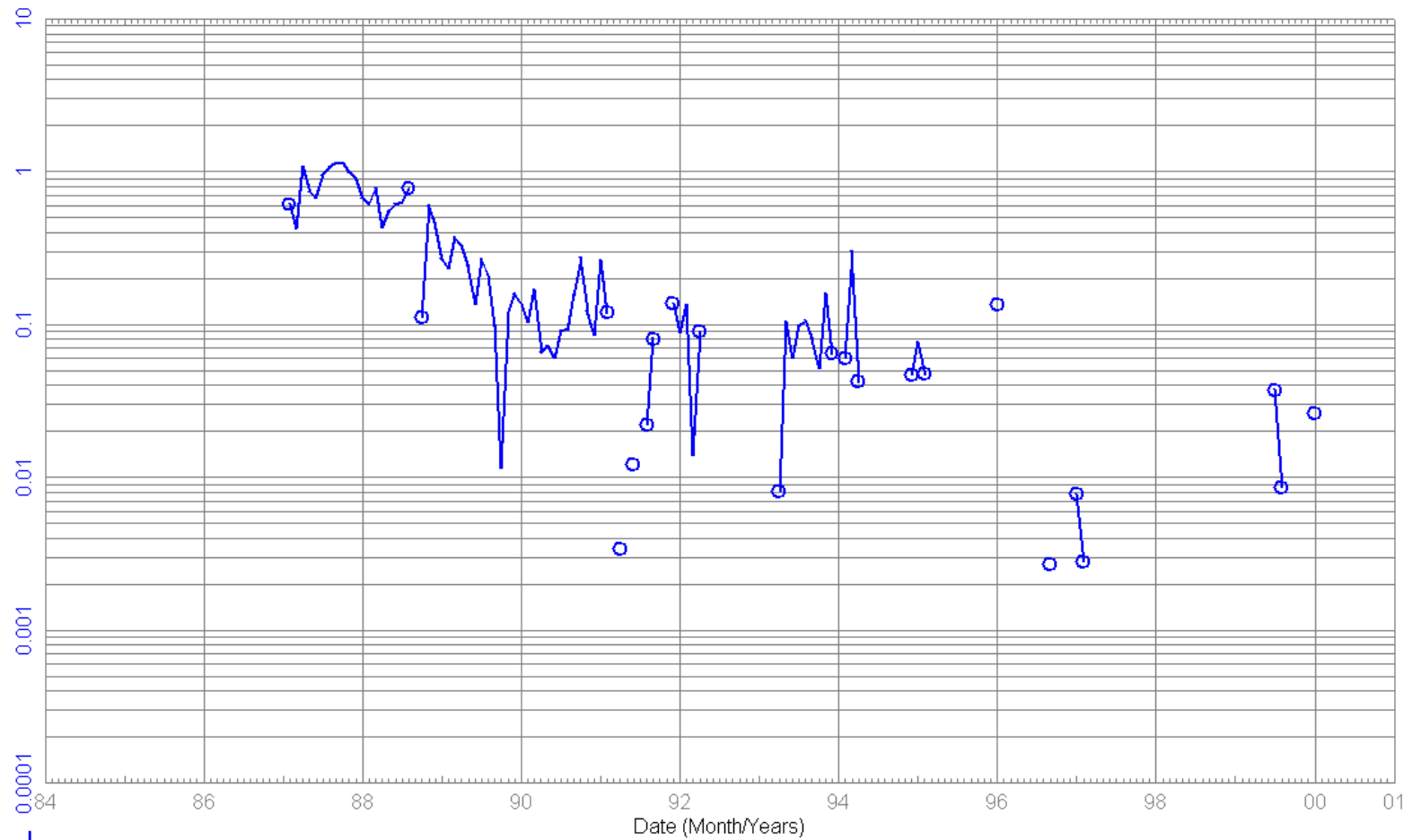
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)
Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
From: 1984-06
To: 1986-12

100/05-01-002-26W1/00
Waskada Unit No. 13 WW
Water Inj Well

Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)
Unit: WASKADA UNIT NO. 13



INJ Monthly Water

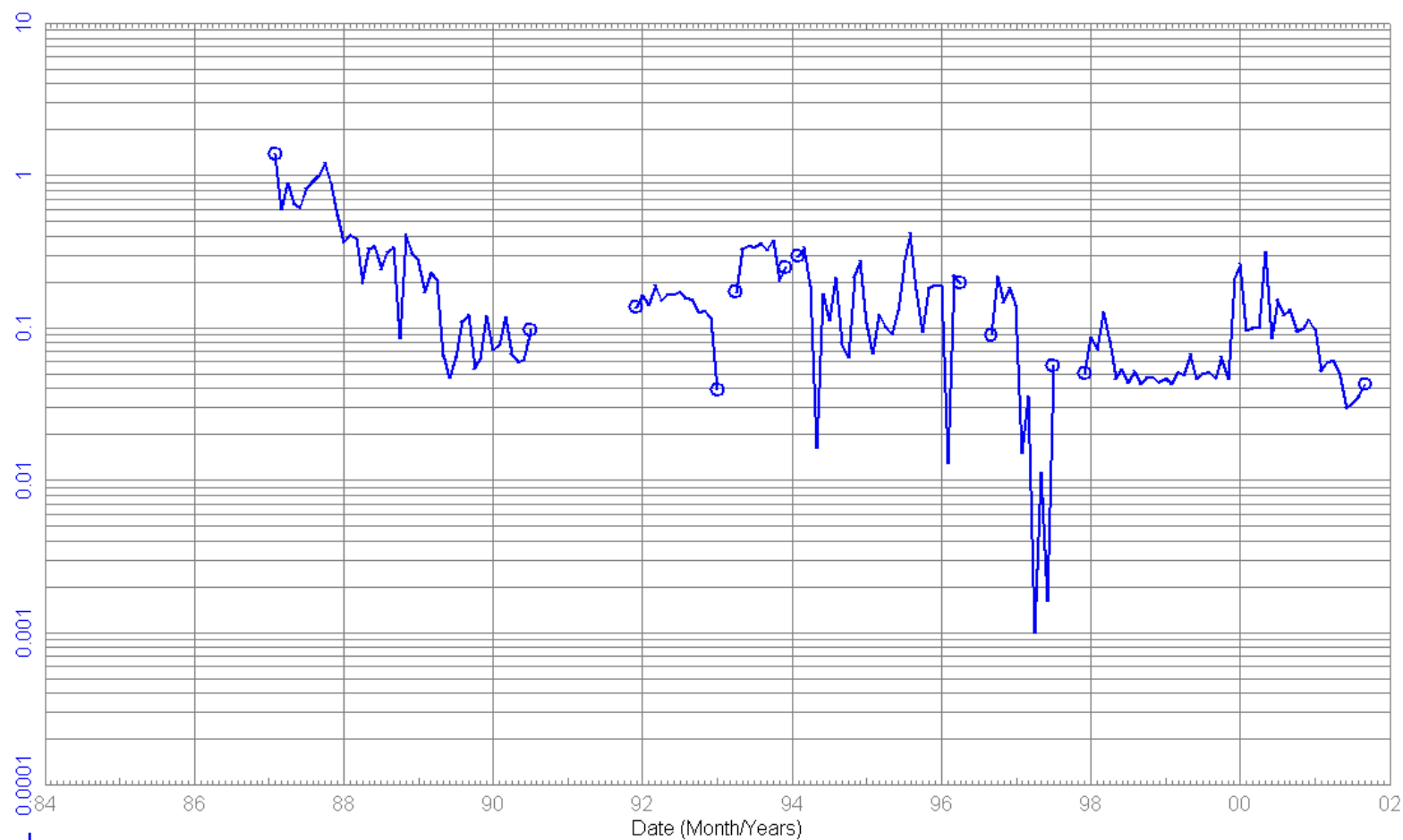
e3m3

Cum PRD WTR	515.9	m3
Cum PRD GAS	0.0	e3m3
Cum INJ CO2	0.0	e3m3

Data As Of: 2012-10 (MB)
From: 1984-09
To: 1986-11

100/07-01-002-26W1/00
Waskada Unit No. 13 WW
Abandoned Water Inj Well

Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)
Unit: WASKADA UNIT NO. 13



INJ Monthly Water

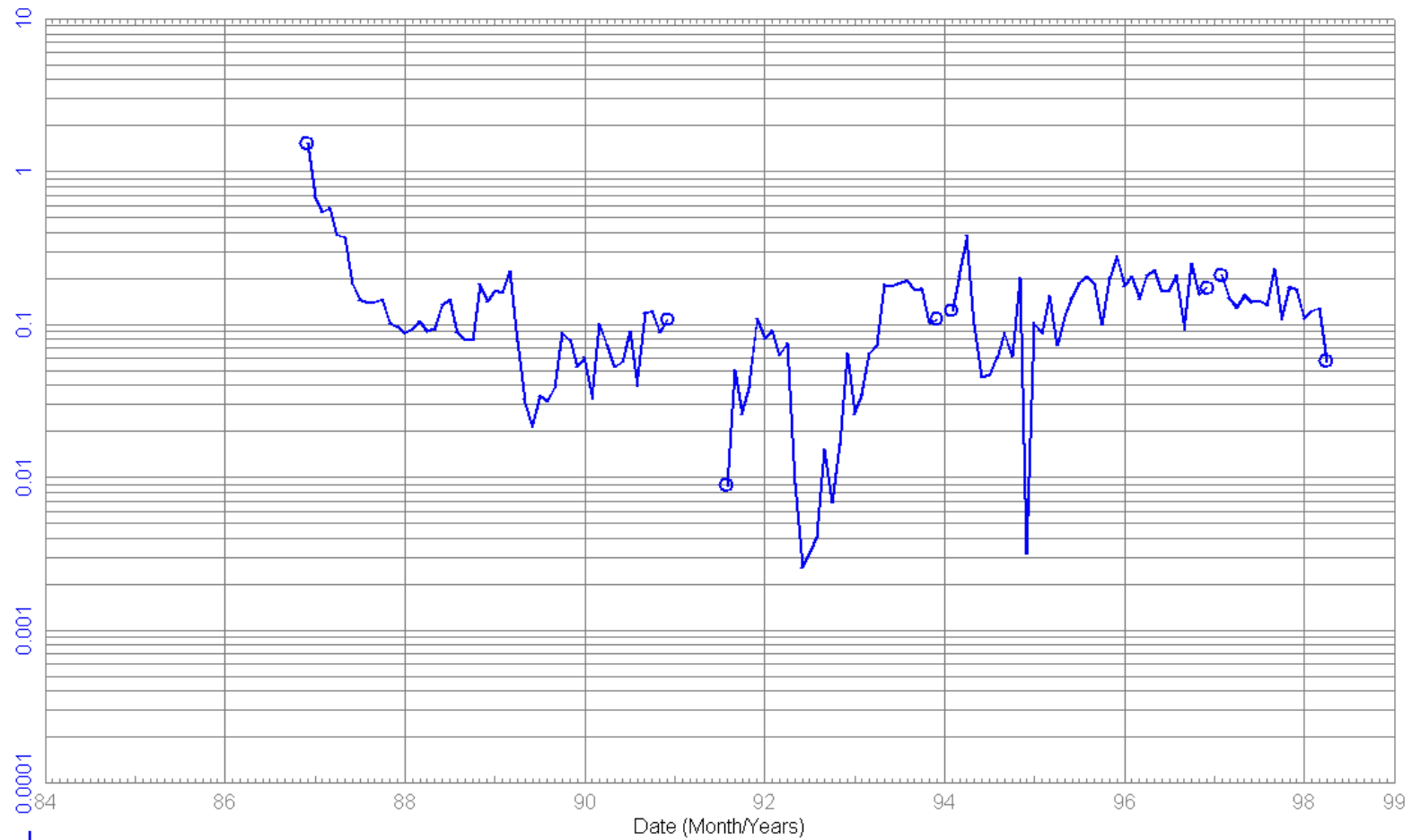
e3m3

Cum PRD WTR	622.3	m3
Cum PRD GAS	0.0	e3m3
Cum INJ CO2	0.0	e3m3

Data As Of: 2012-10 (MB)
From: 1984-01
To: 1986-10

100/13-01-002-26W1/00
Waskada Unit No. 13 WIW
WIW - Suspended

Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)
Unit: WASKADA UNIT NO. 13



INJ Monthly Water

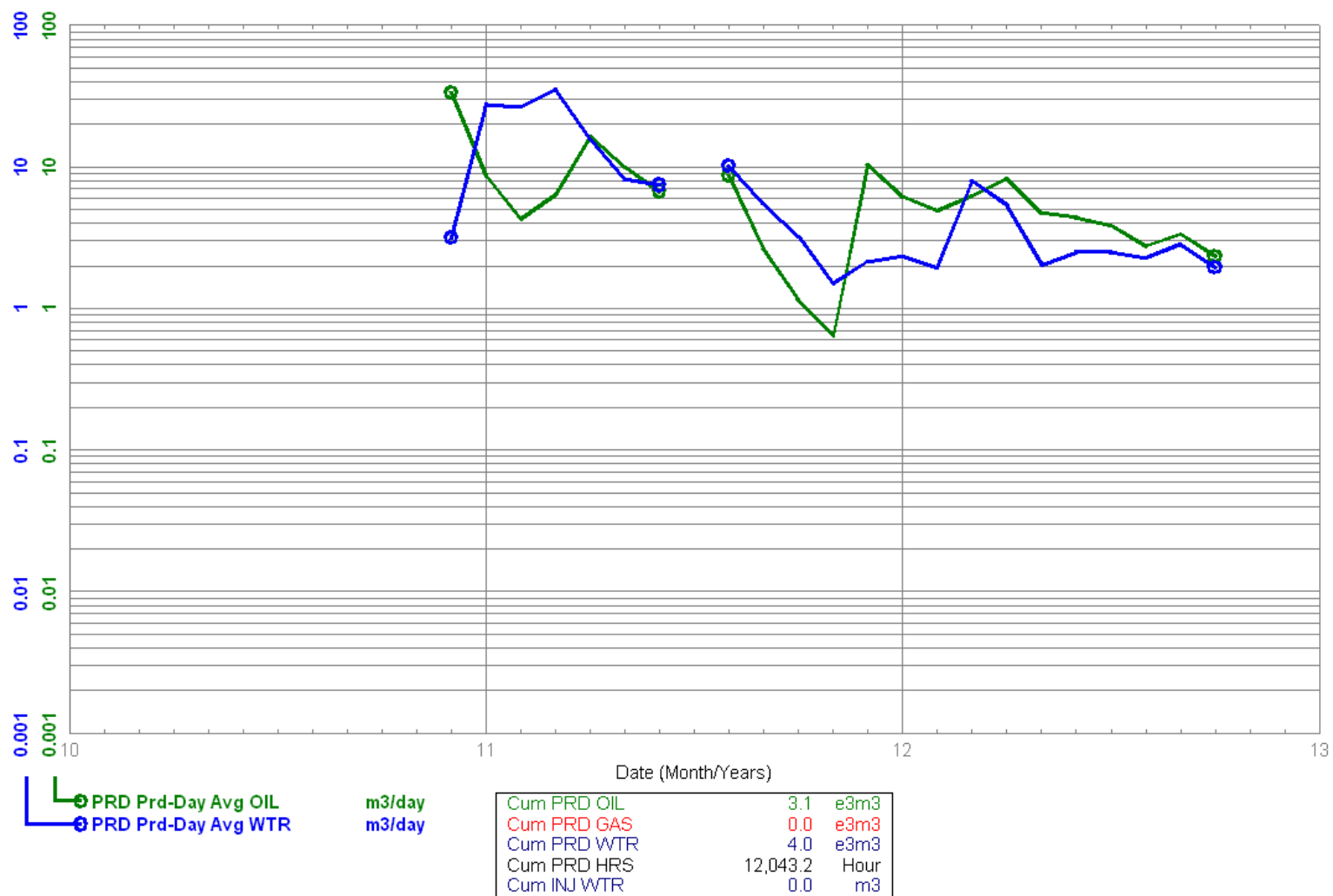
e3m3

Cum PRD WTR	314.8	m3
Cum PRD GAS	0.0	e3m3
Cum INJ CO2	0.0	e3m3

Data As Of: 2012-10 (MB)
 From: 2010-12
 To: 2012-10

105/05-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

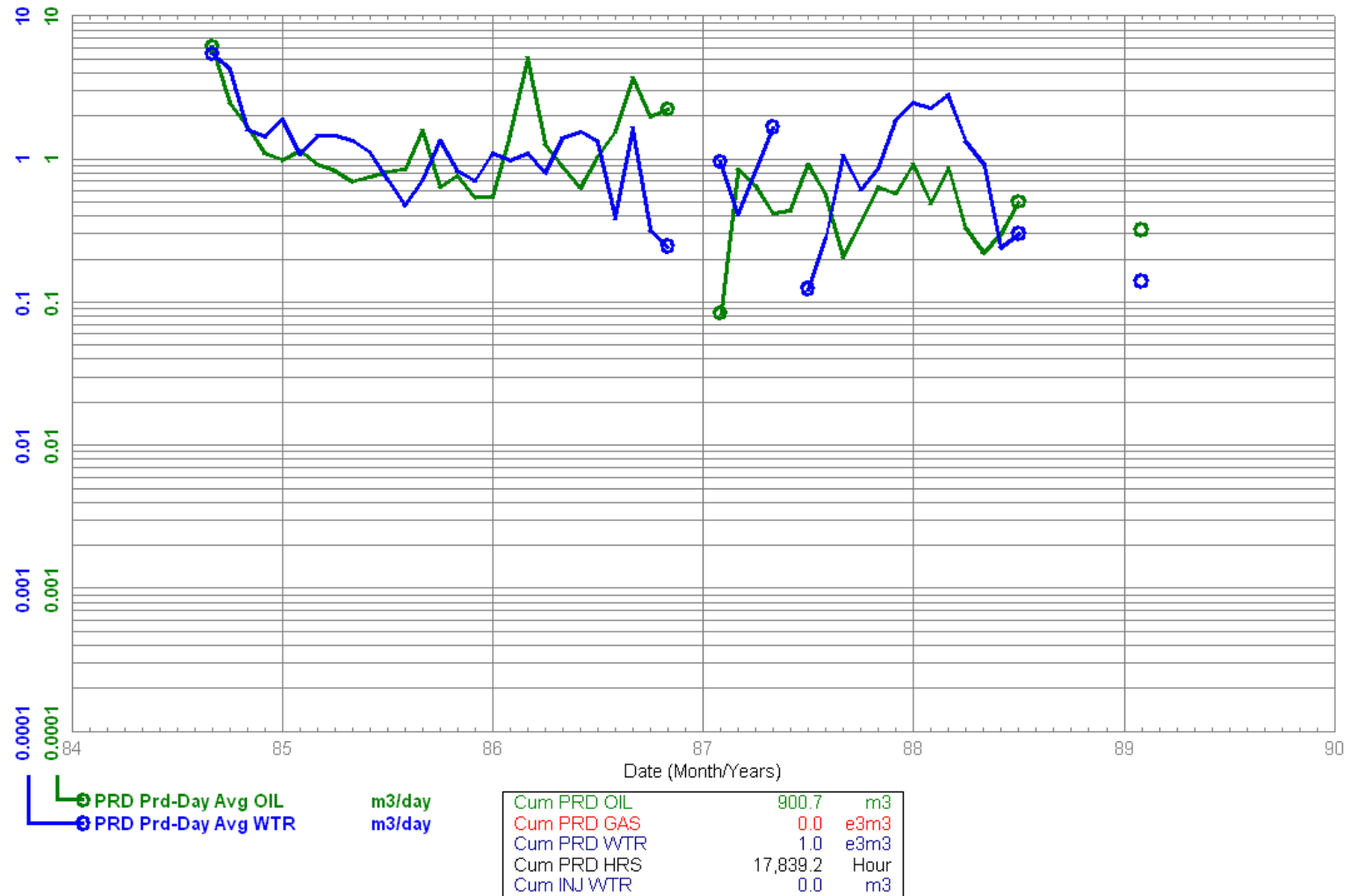
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1984-09
 To: 1989-02

100/01-01-002-26W1/00
 Omega Andex Waskada
 Abandoned Producer

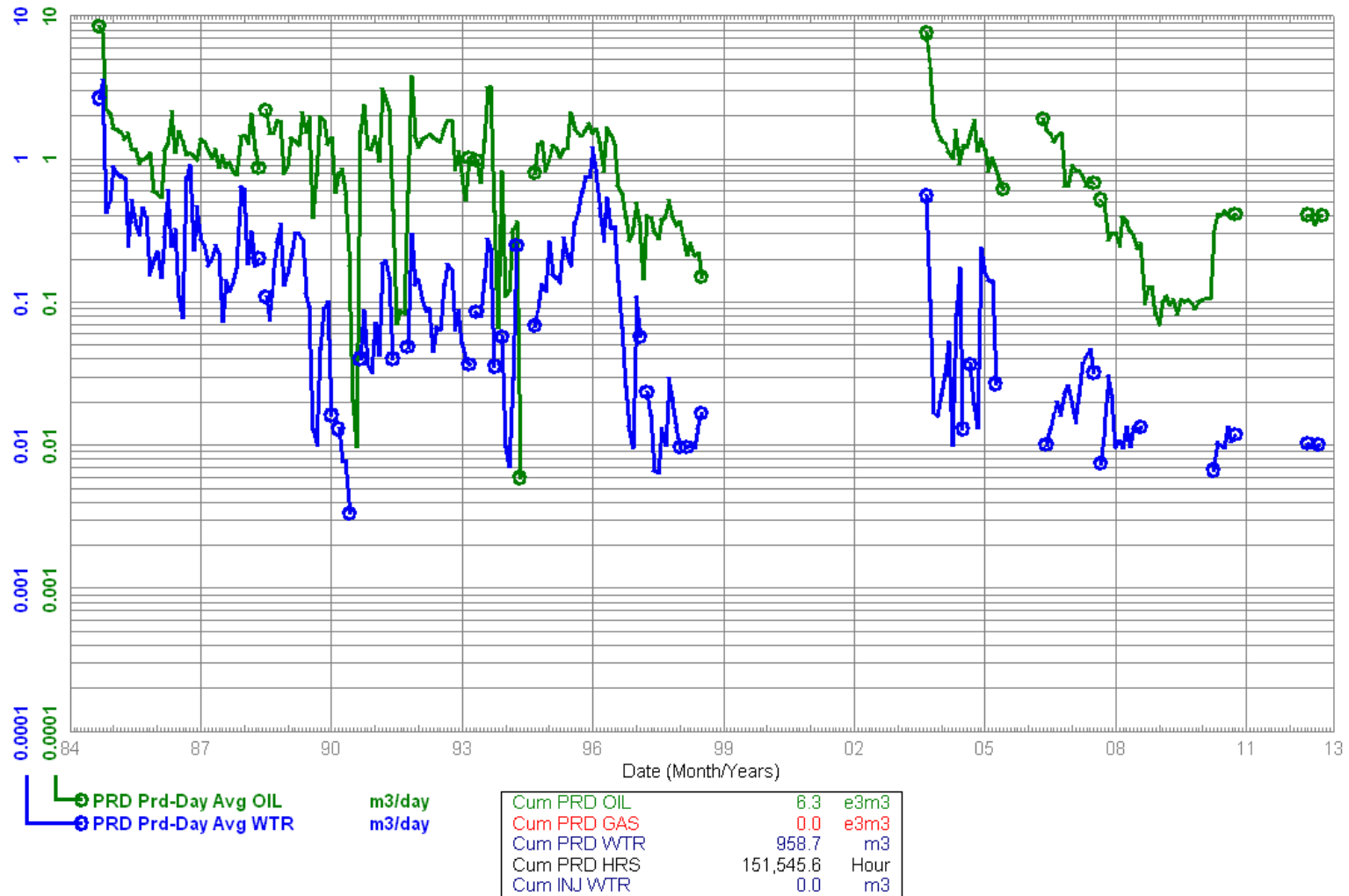
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 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1984-09
 To: 2012-10

100/02-01-002-26W1/00
 Waskada Unit No. 13
 Capable Of Oil Prod

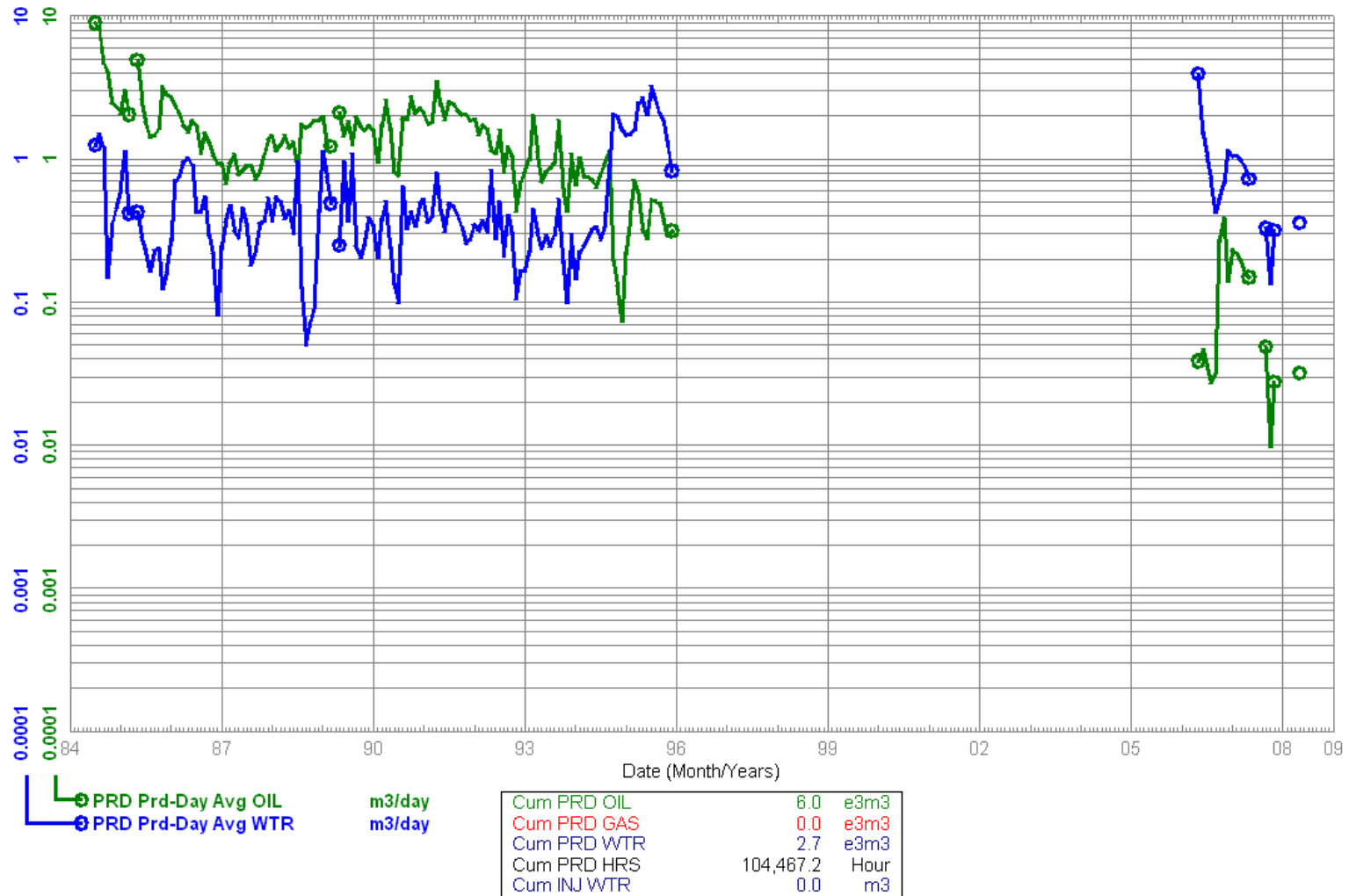
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 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1984-07
 To: 2008-05

100/03-01-002-26W1/00
 Waskada Unit No. 13
 COOP - Suspended

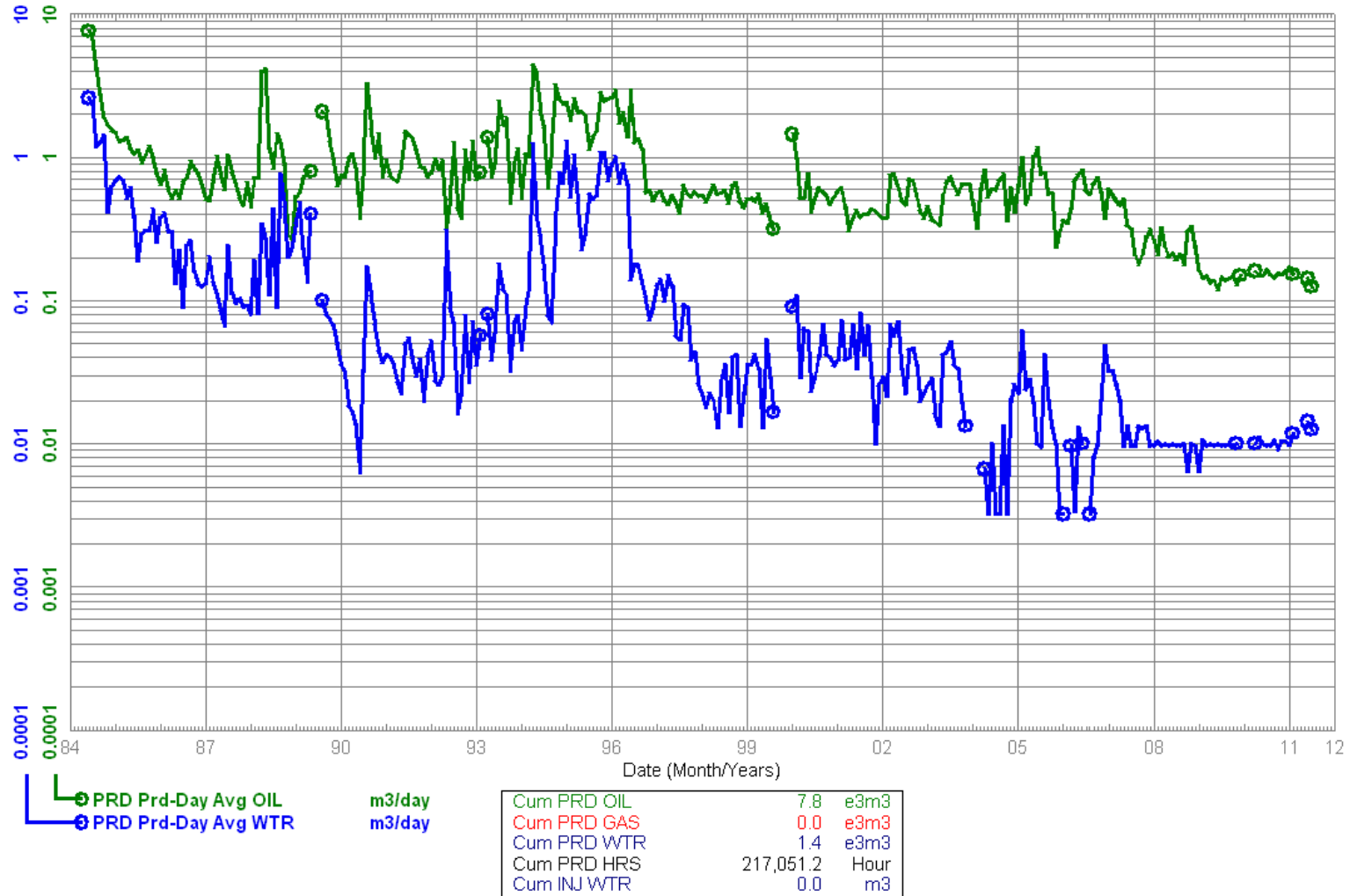
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
From: 1984-06
To: 2011-07

100/04-01-002-26W1/00
Waskada Unit No. 13
Capable Of Oil Prod

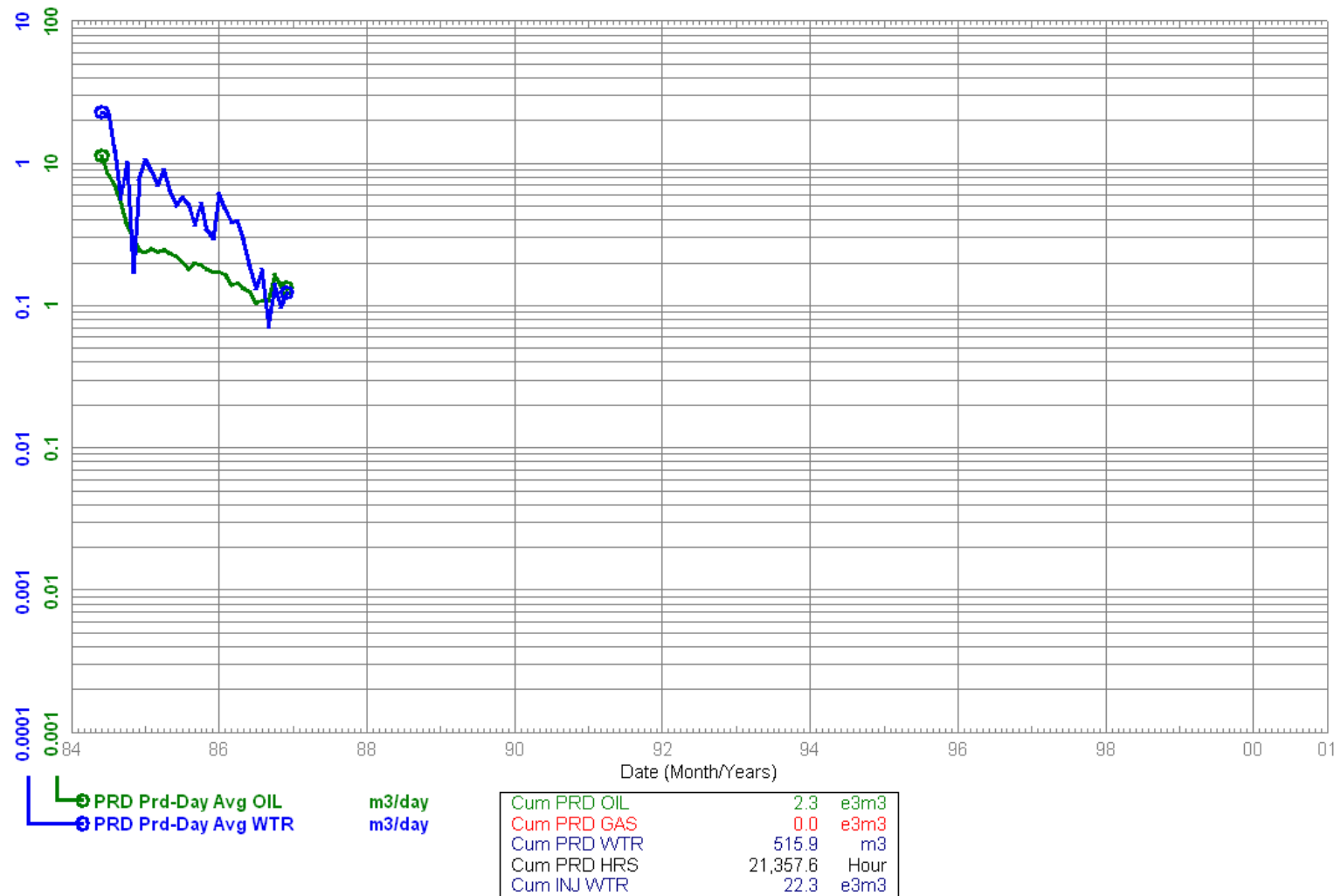
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)
Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1984-06
 To: 1986-12

100/05-01-002-26W1/00
 Waskada Unit No. 13 WIW
 Water Inj Well

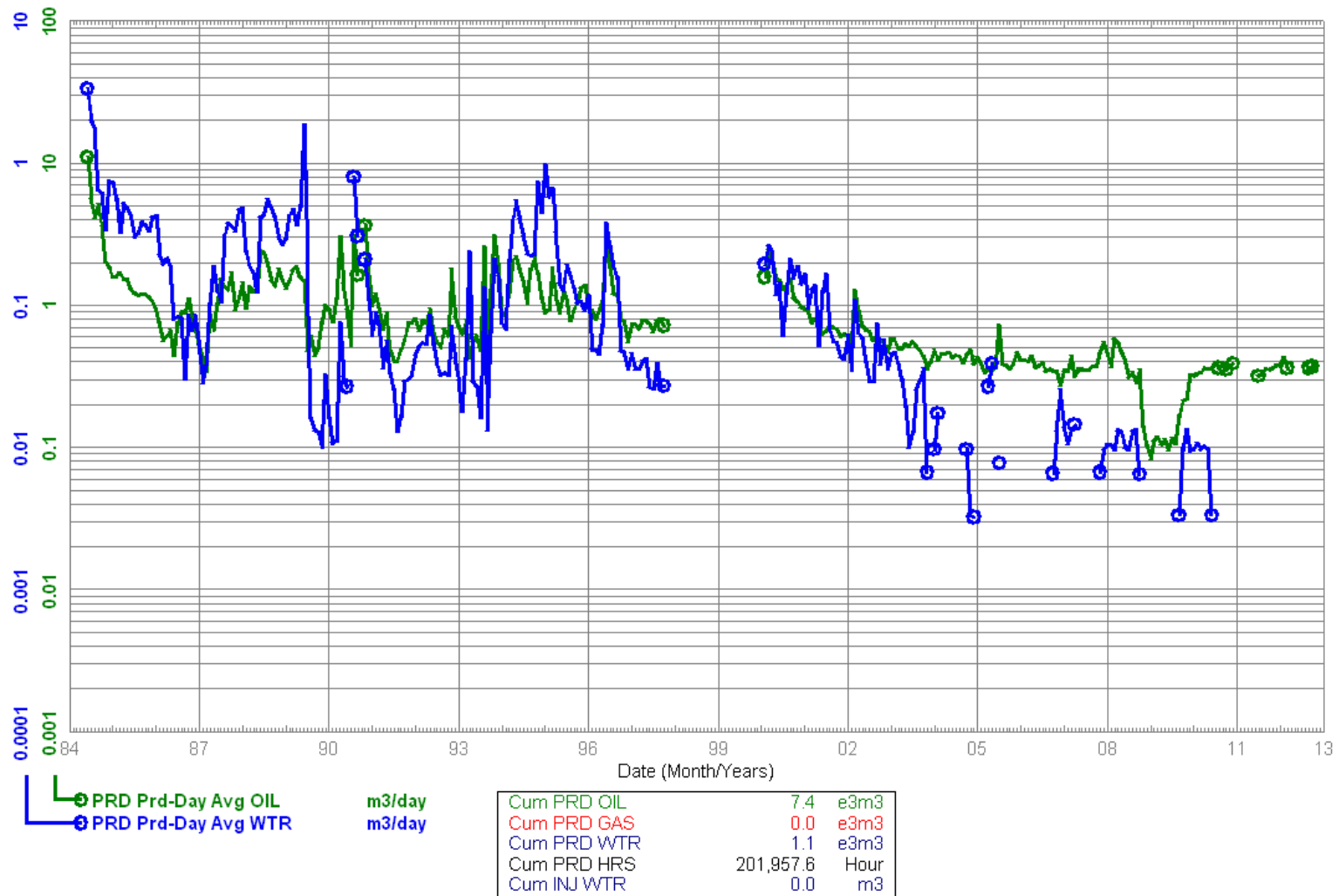
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1984-06
 To: 2012-10

100/06-01-002-26W1/00
 Waskada Unit No. 13
 Capable Of Oil Prod

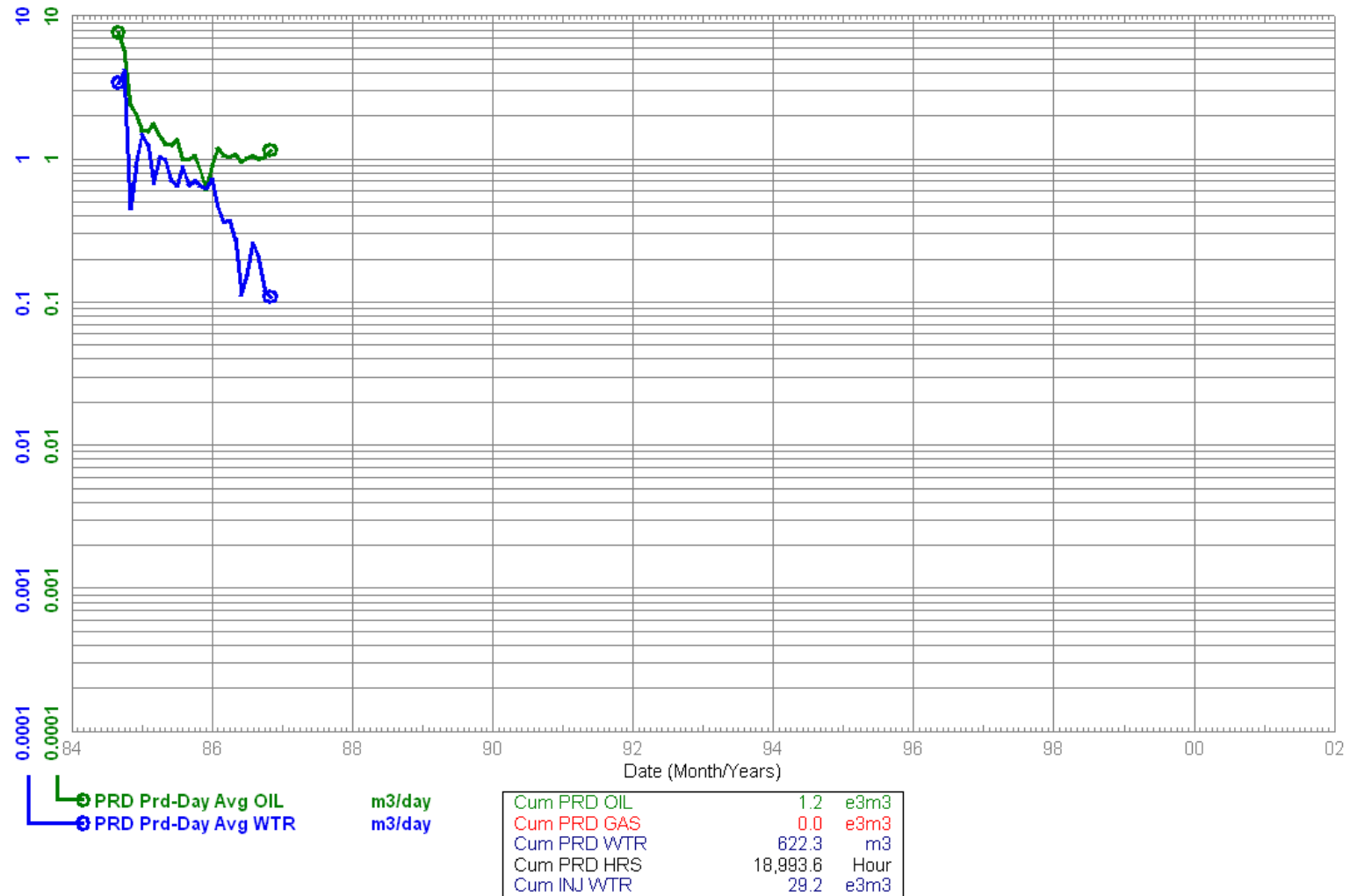
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
From: 1984-09
To: 1986-11

100/07-01-002-26W1/00
Waskada Unit No. 13 WIW
Abandoned Water Inj Well

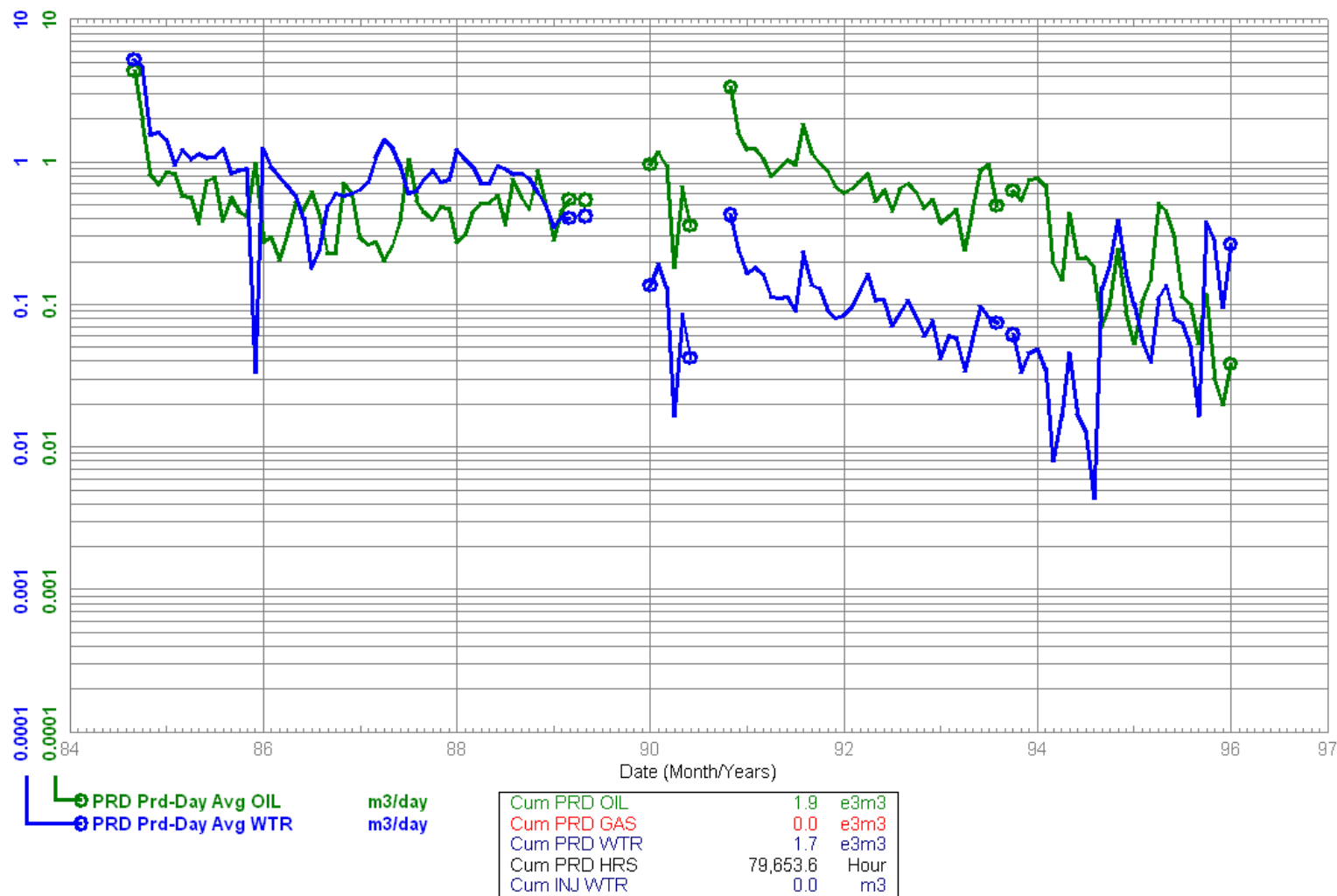
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)
Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1984-09
 To: 1996-01

100/06-01-002-26W1/00
 Waskada Unit No. 13
 Abandoned Producer

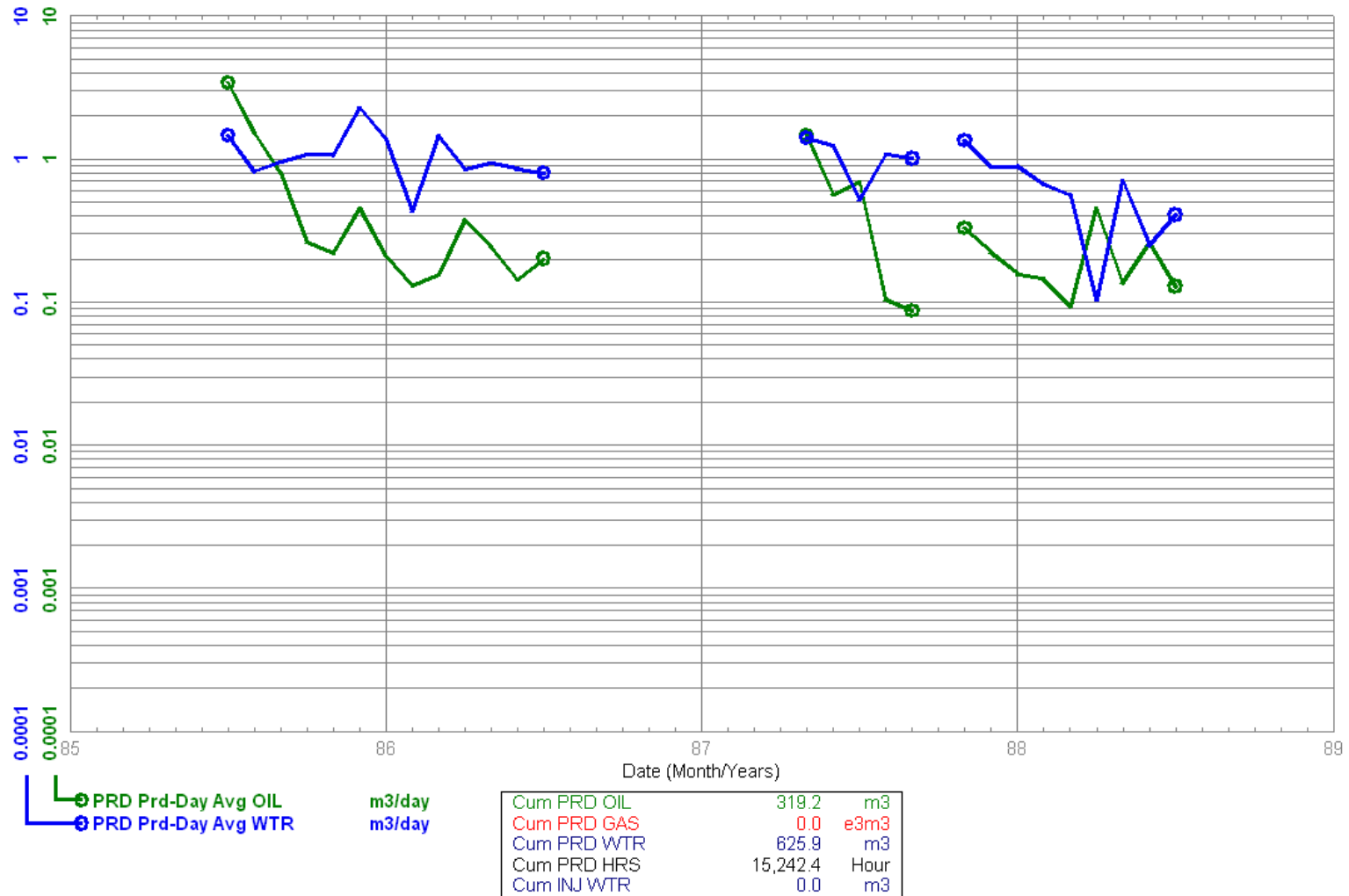
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1985-07
 To: 1988-07

100/09-01-002-26W1/00
 Omega et al Waskada
 Abandoned Producer

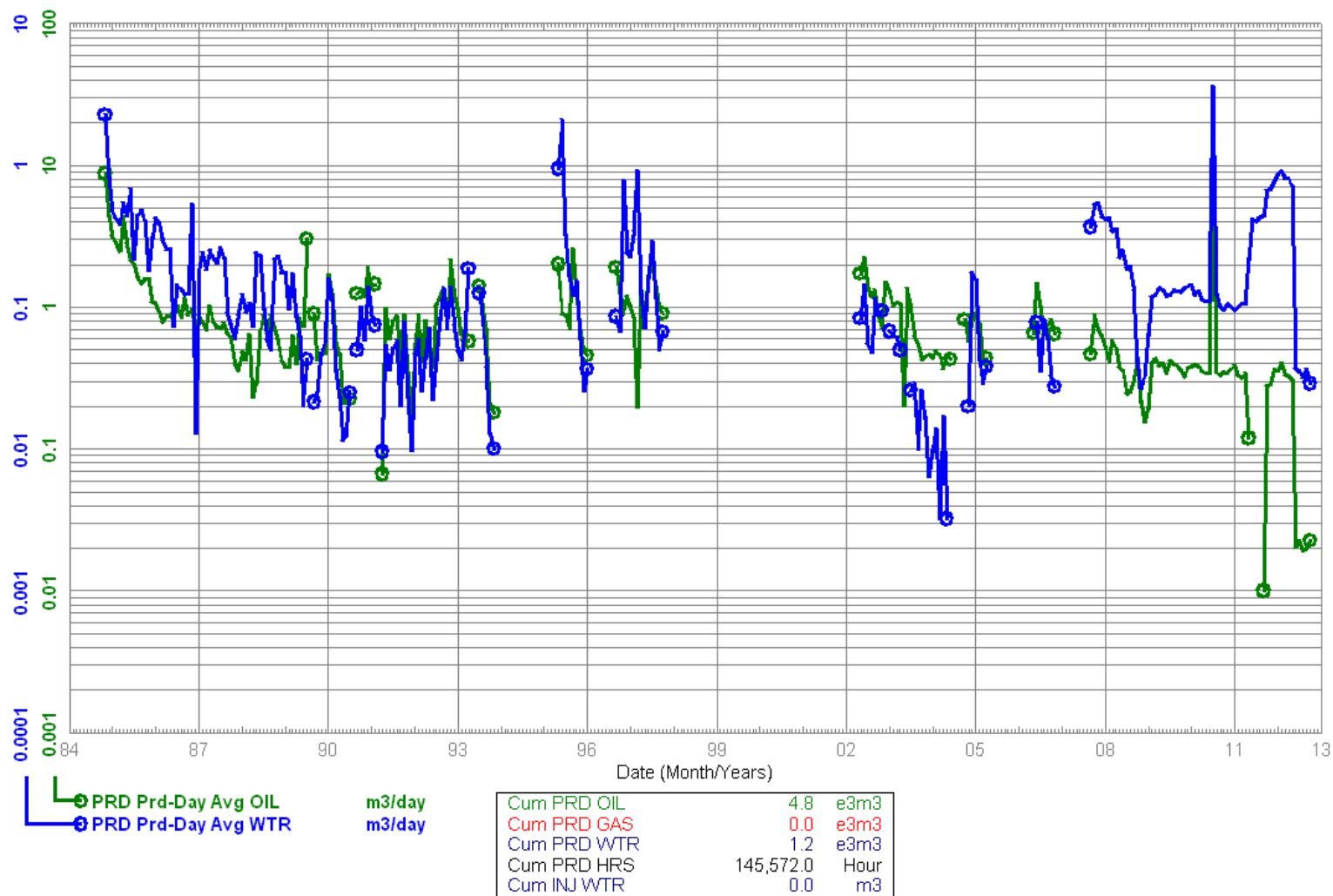
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1984-11
 To: 2012-10

100/10-01-002-26W1/00
 Waskada Unit No. 13
 Capable Of Oil Prod

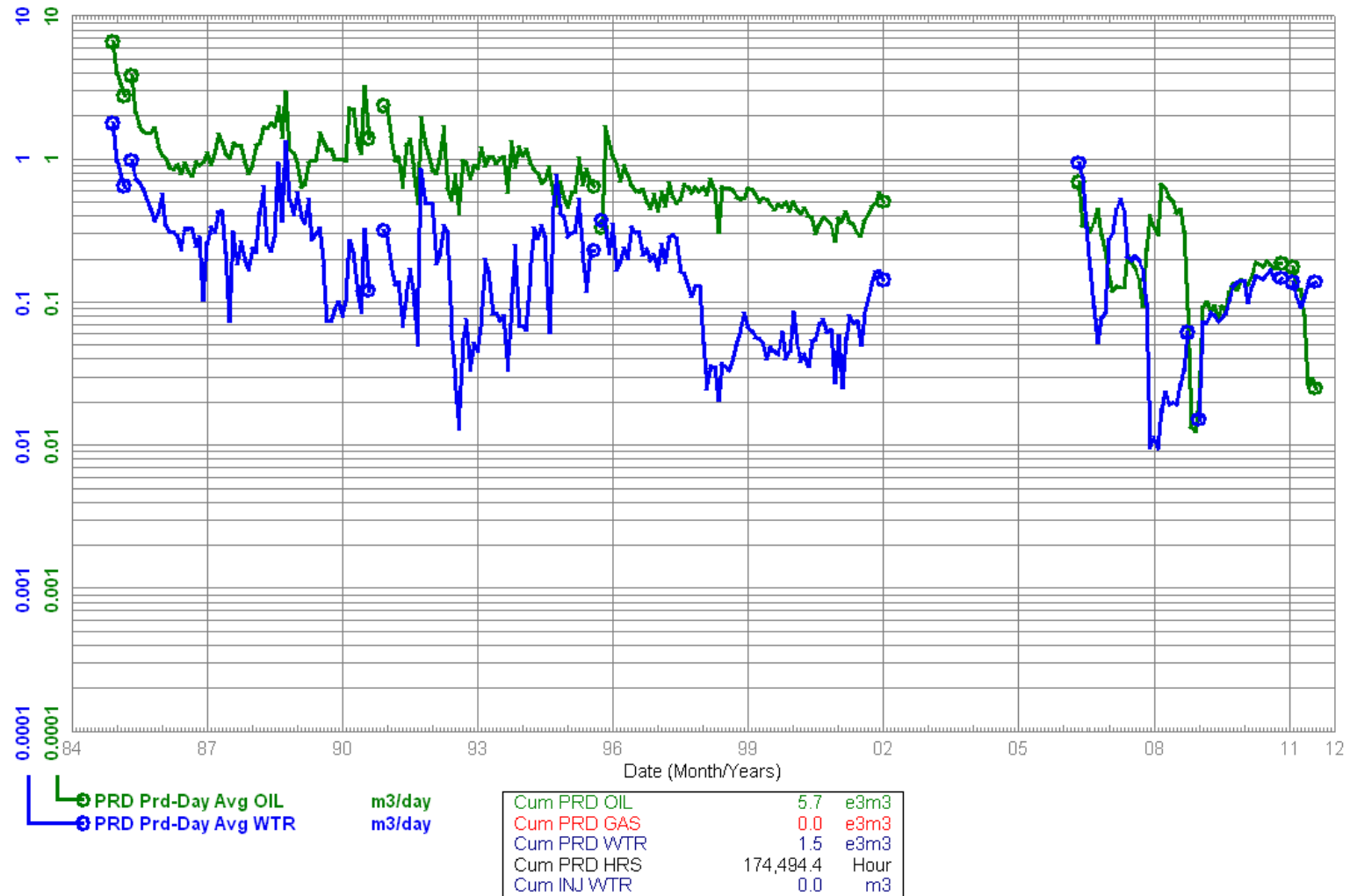
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
From: 1984-12
To: 2011-08

100/11-01-002-26W1/00
Waskada Unit No. 13
Capable Of Oil Prod

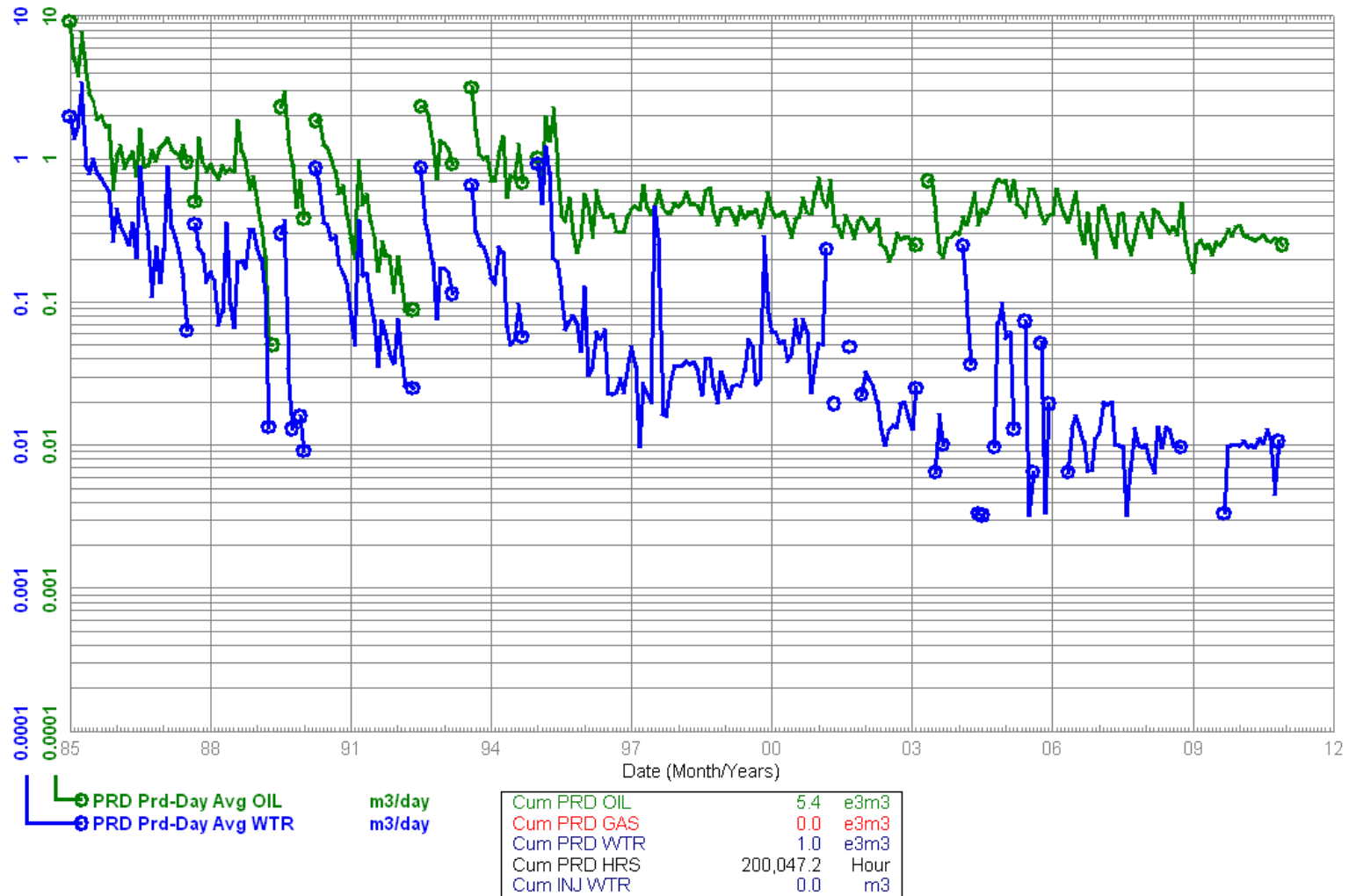
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)
Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1985-01
 To: 2011-02

100/12-01-002-26W1/00
 Waskada Unit No. 13
 Capable Of Oil Prod

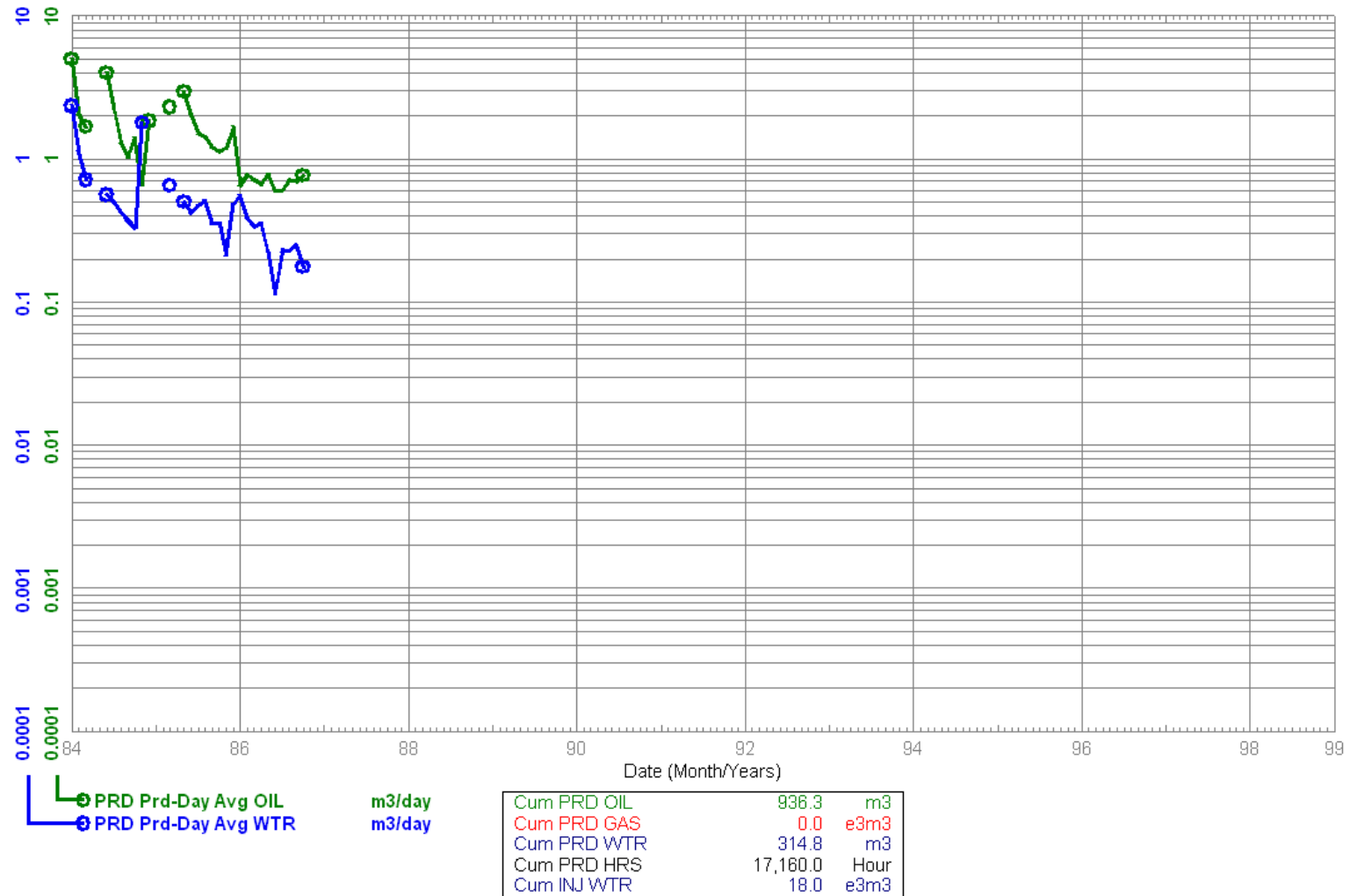
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1984-01
 To: 1986-10

100/13-01-002-26W1/00
 Waskada Unit No. 13 WIW
 WIW - Suspended

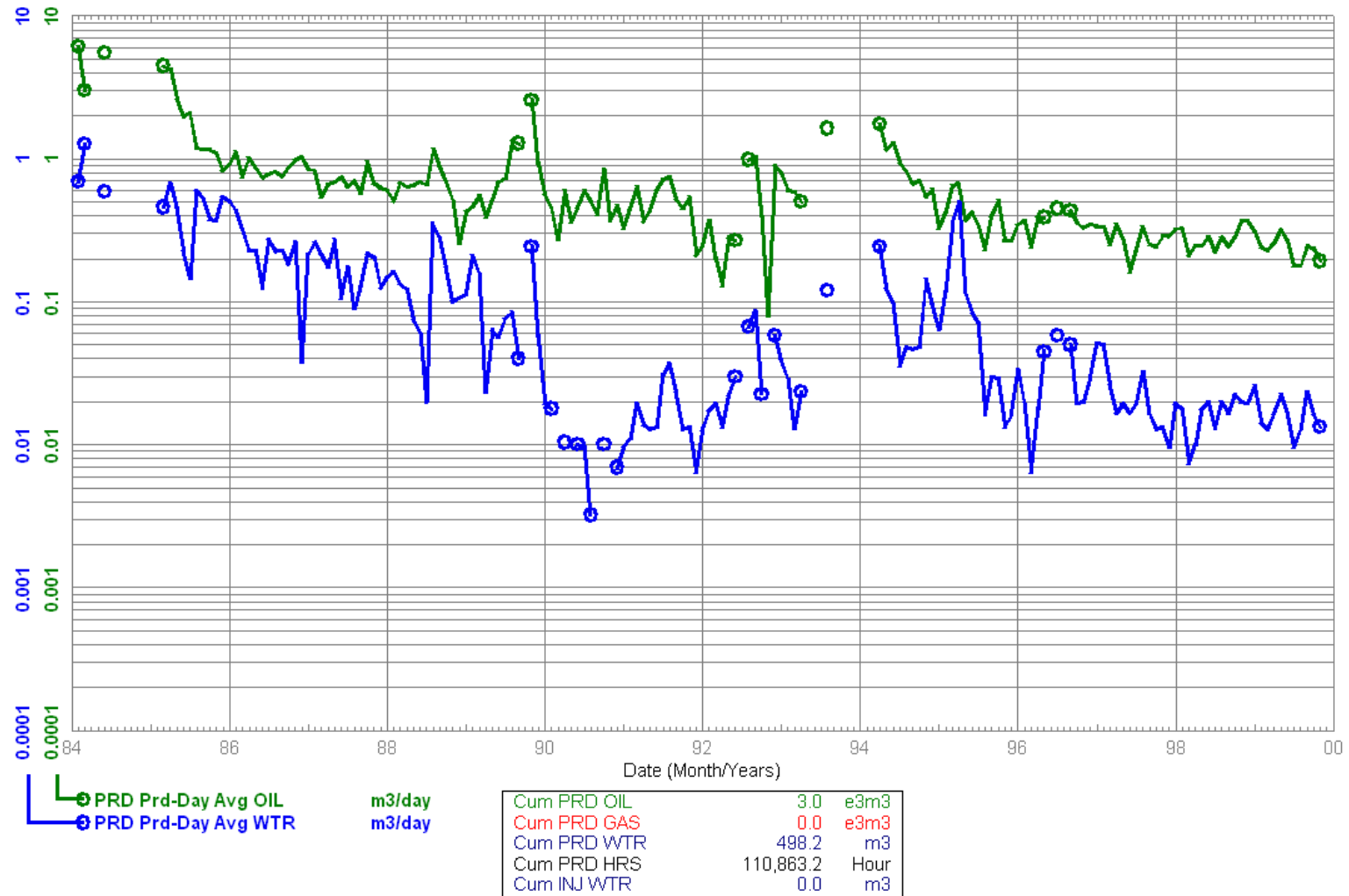
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
From: 1984-02
To: 1999-11

100/14-01-002-26W1/00
Waskada Unit No. 13
Capable Of Oil Prod

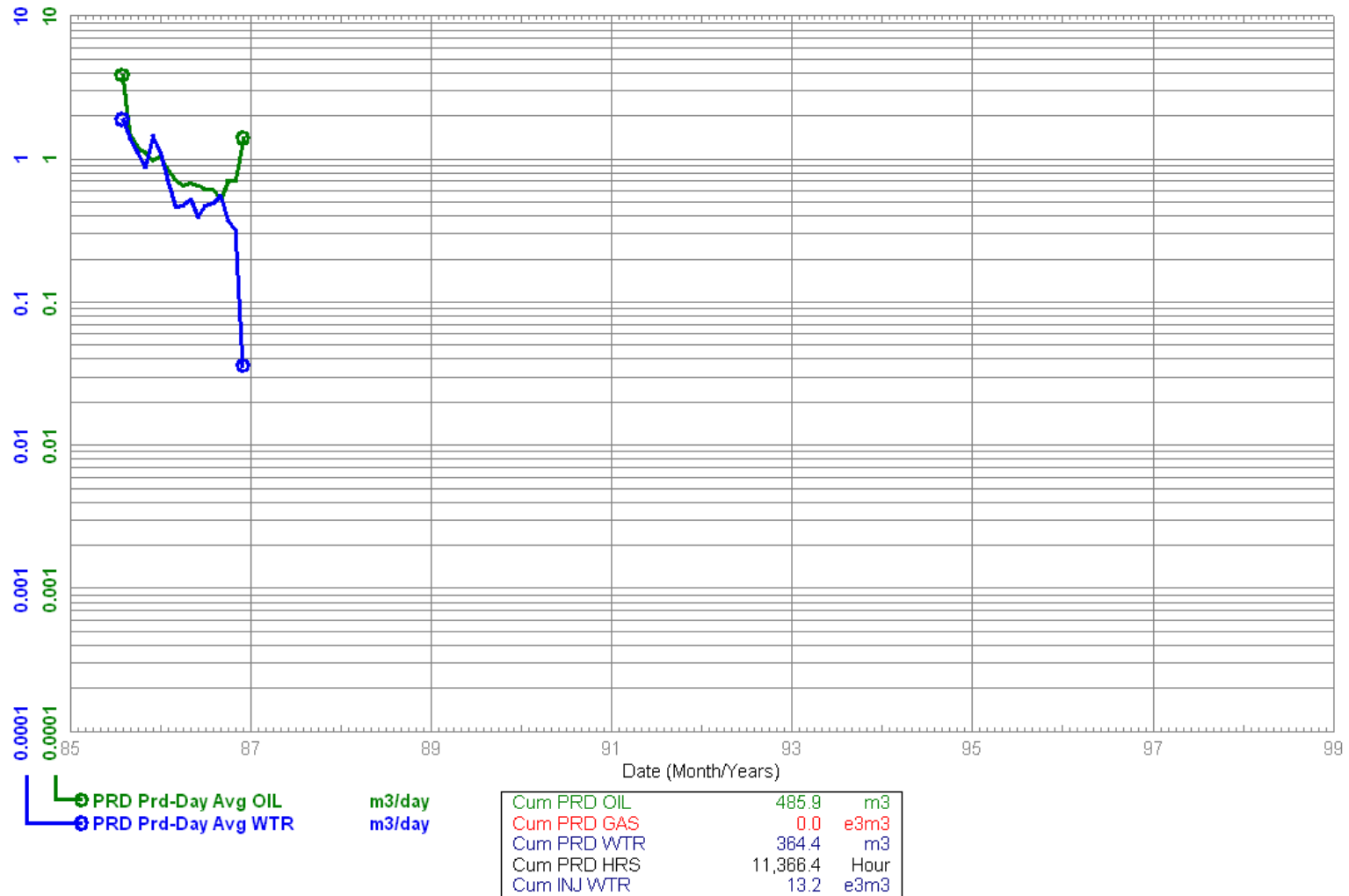
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)
Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 1985-08
 To: 1986-12

100/15-01-002-26W1/00
 Waskada Unit No. 13 WIW
 WIW - Suspended

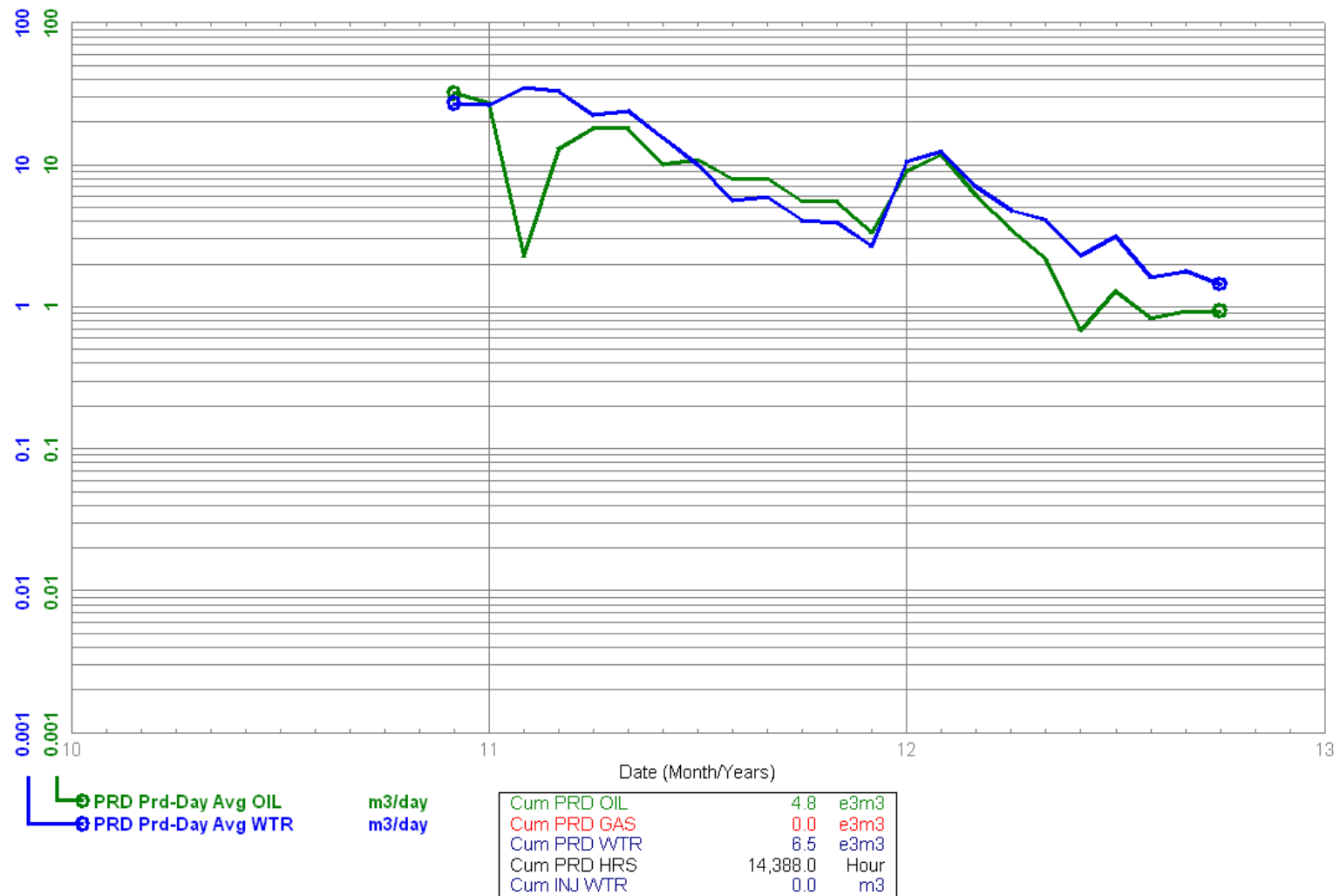
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2010-12
 To: 2012-10

102/04-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

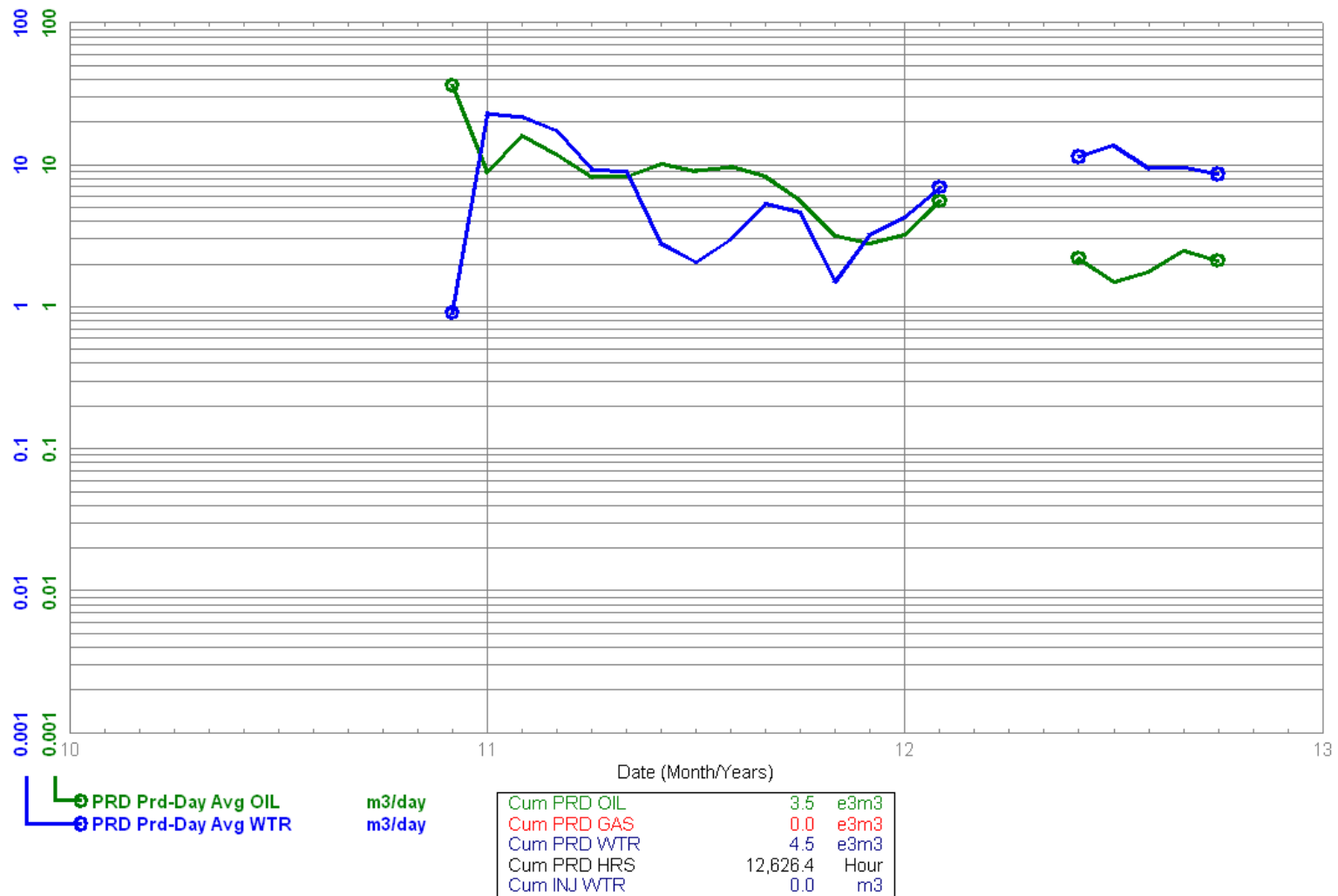
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2010-12
 To: 2012-10

102/05-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

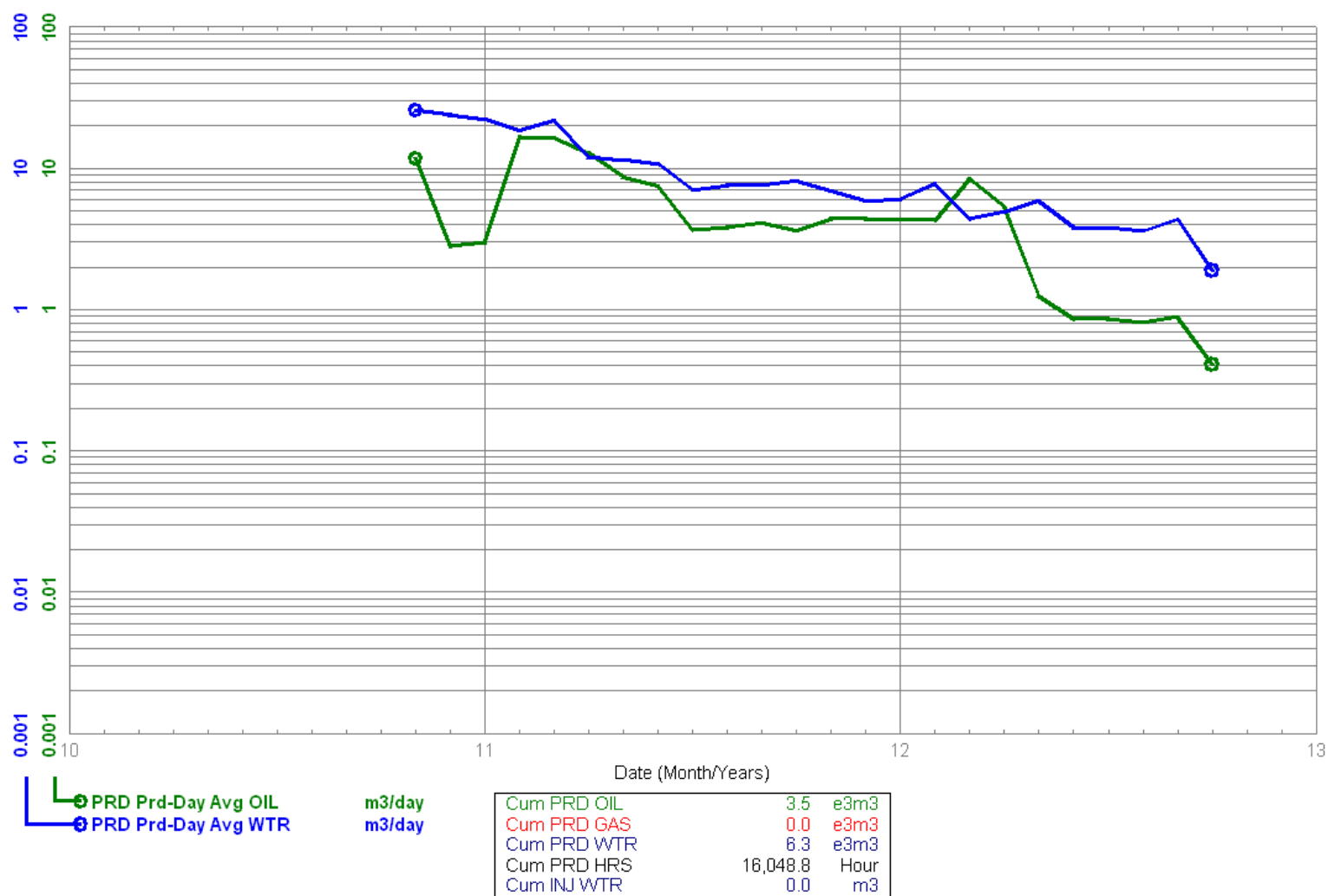
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2010-11
 To: 2012-10

102/08-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

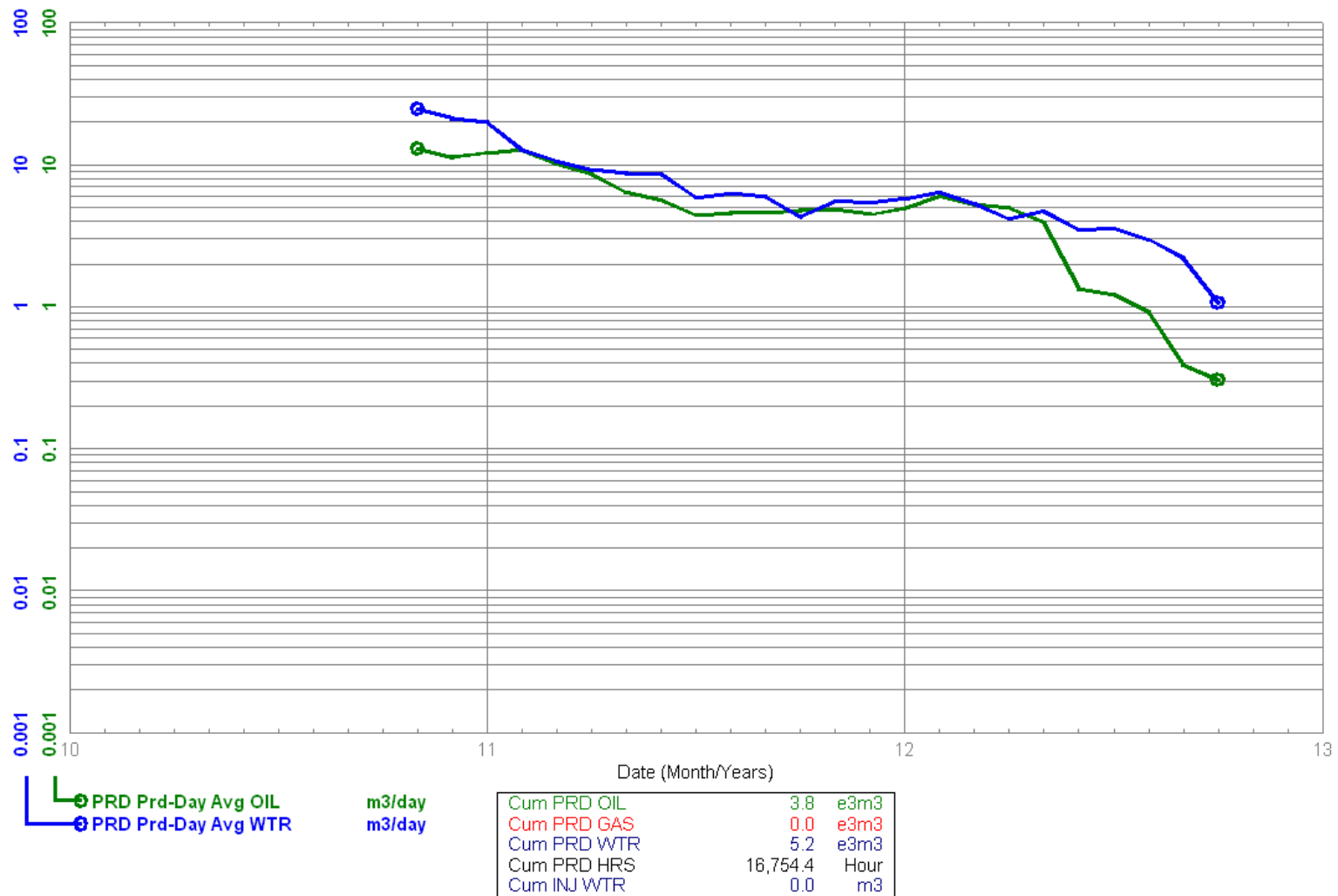
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2010-11
 To: 2012-10

102/09-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

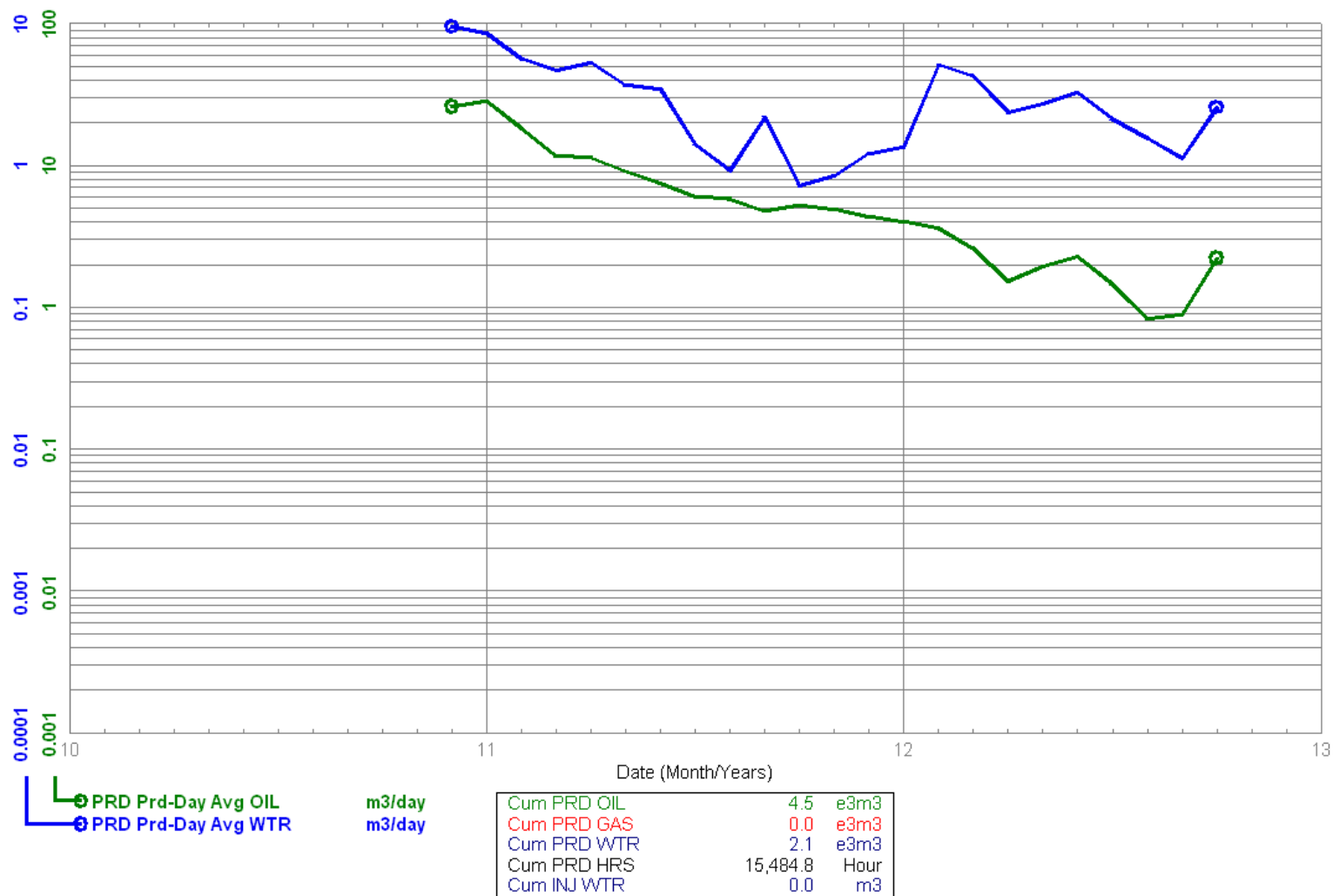
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2010-12
 To: 2012-10

102/12-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

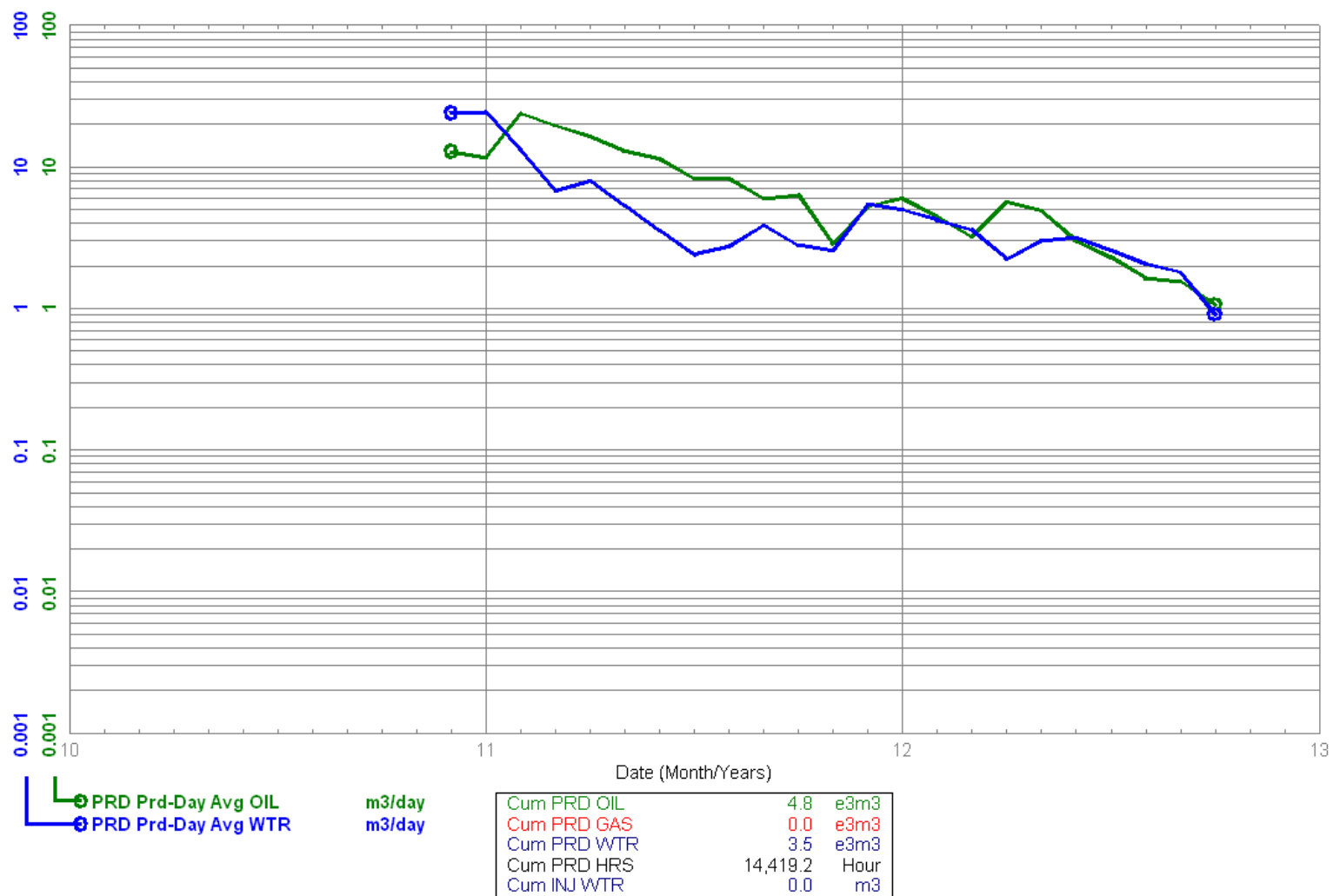
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2010-12
 To: 2012-10

102/13-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

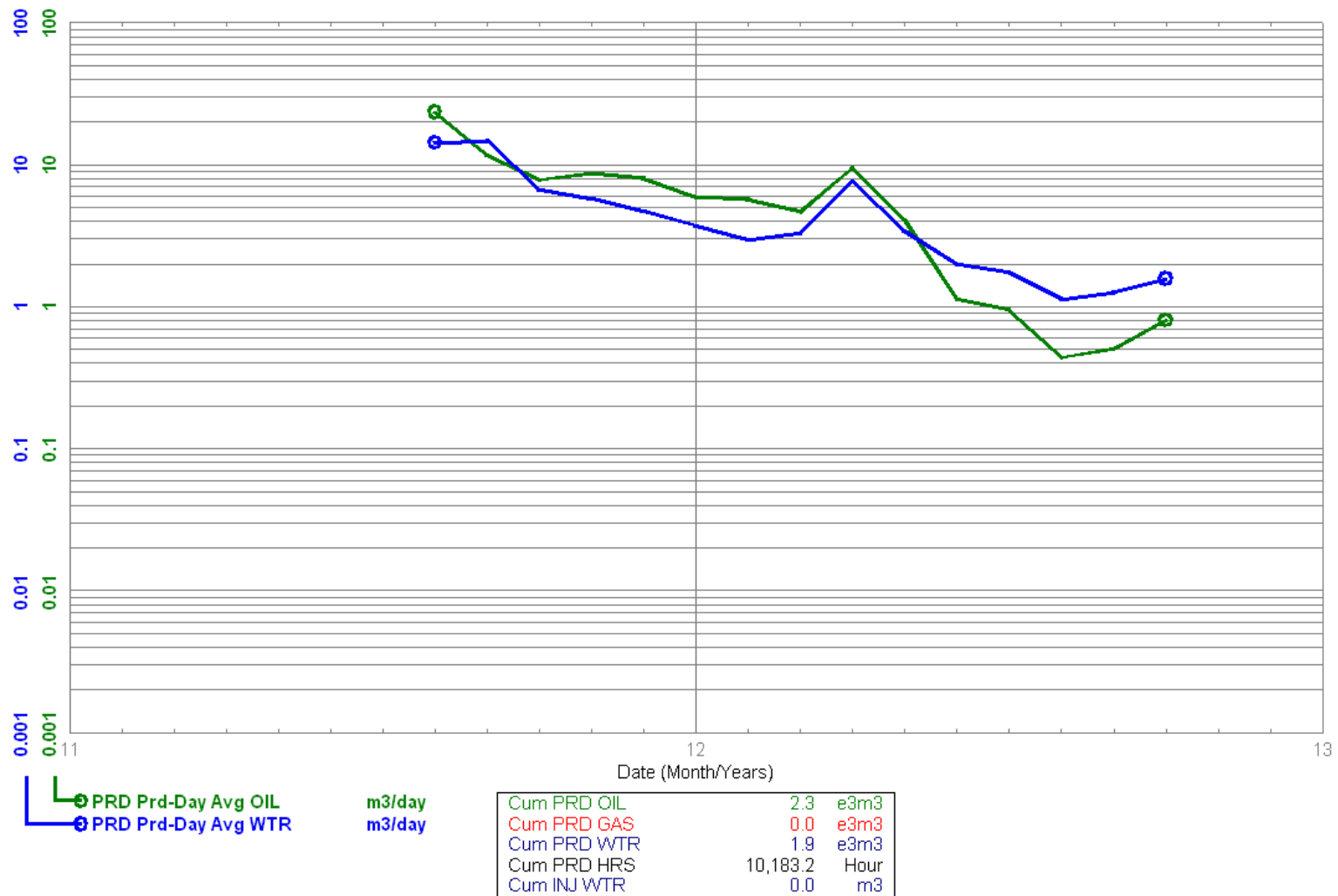
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2011-08
 To: 2012-10

103/04-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

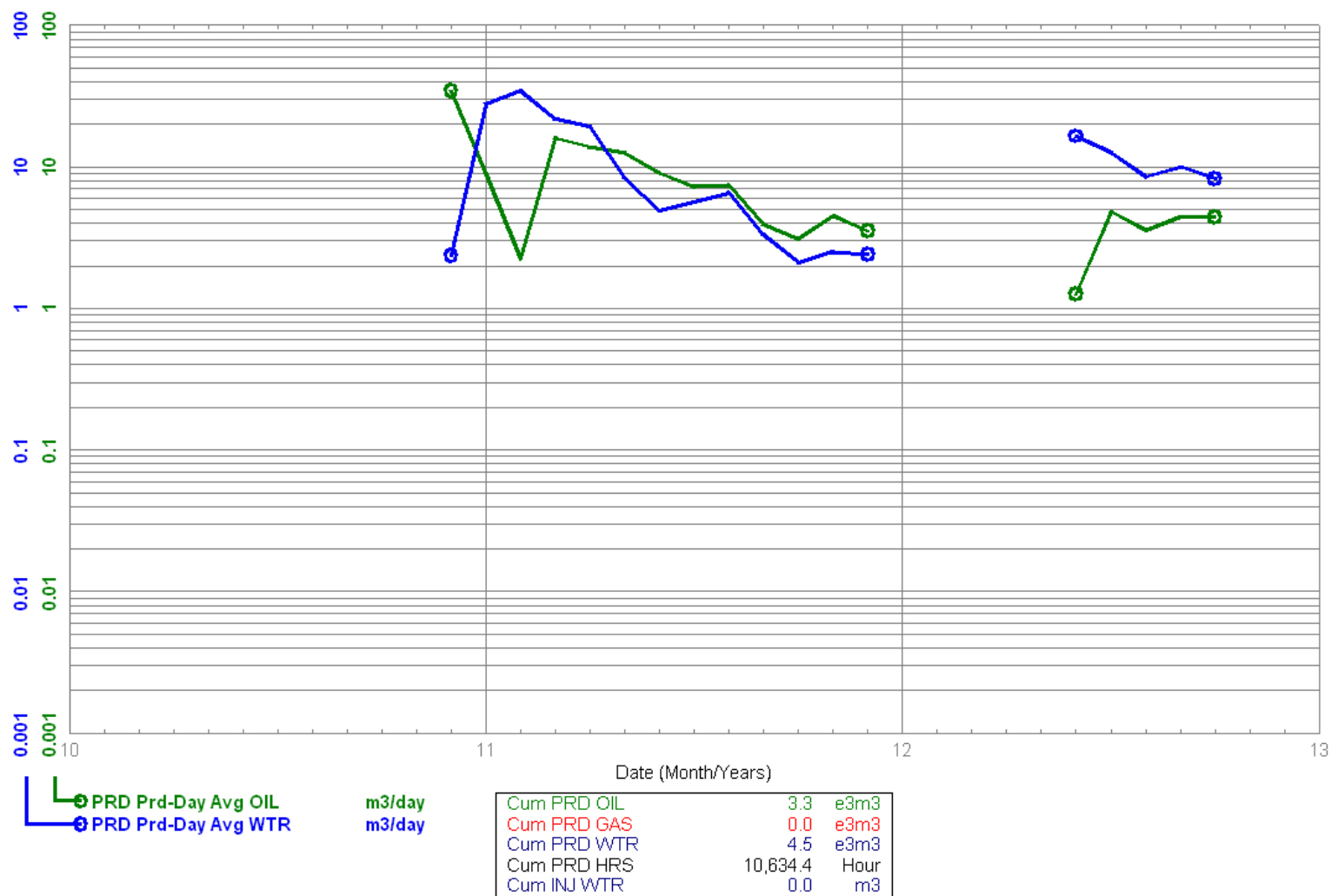
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2010-12
 To: 2012-10

103/05-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

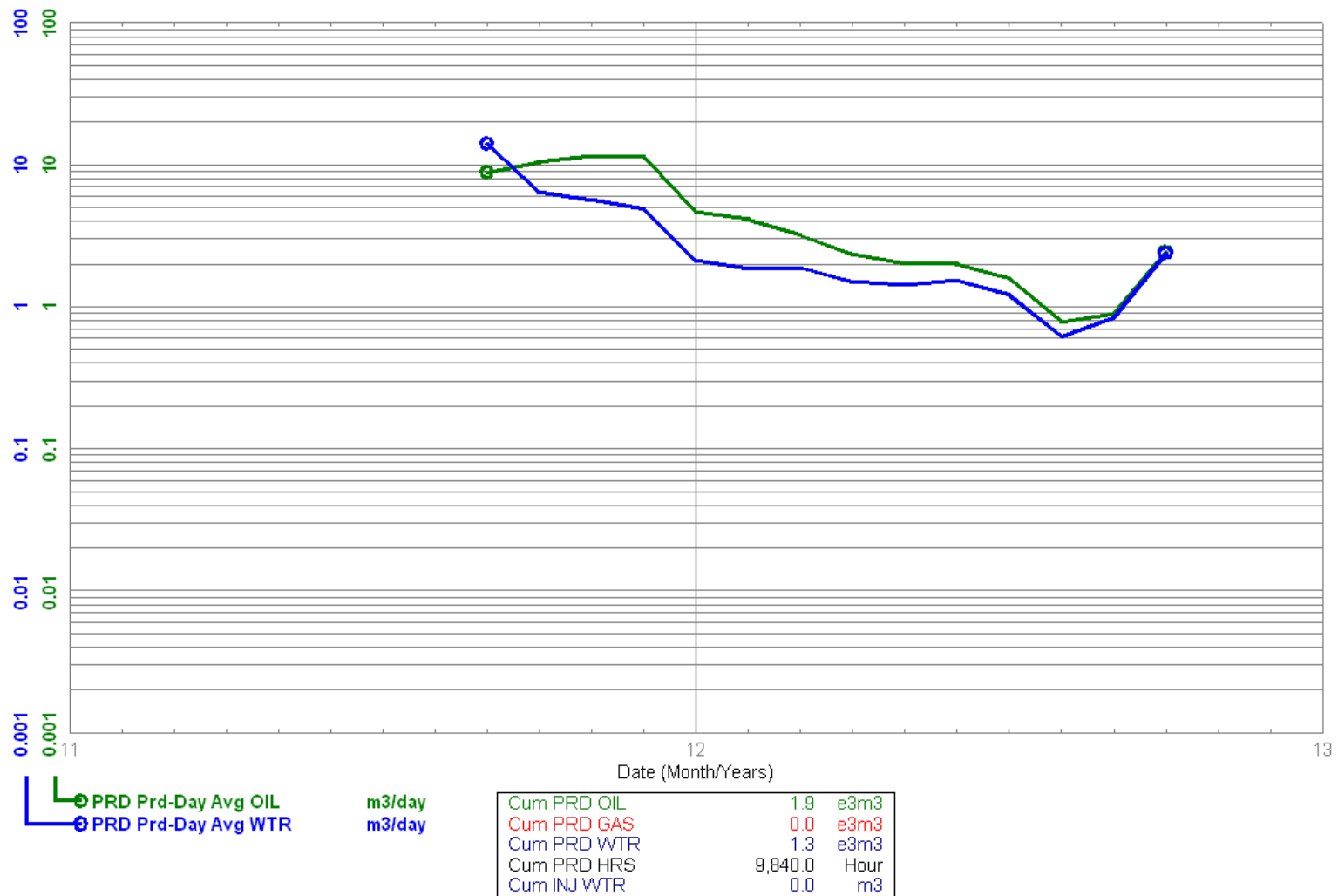
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2011-09
 To: 2012-10

104/04-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

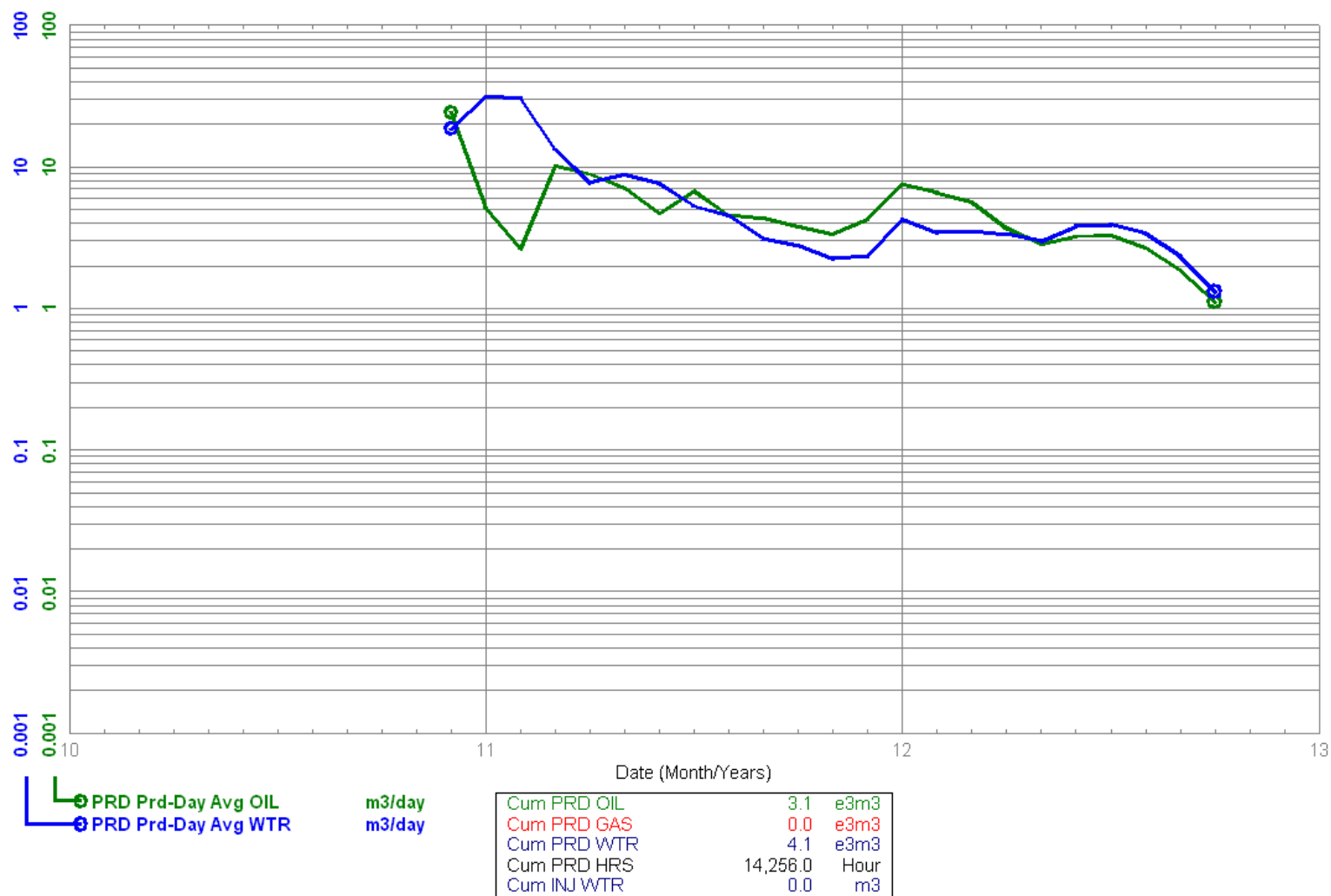
Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2010-12
 To: 2012-10

104/05-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13



Data As Of: 2012-10 (MB)
 From: 2011-08
 To: 2012-10

105/04-01-002-26W1/00
 Waskada Unit No. 13 HZNTL
 Capable Of Oil Prod

Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)
 Unit: WASKADA UNIT NO. 13

