

WASKADA UNIT NO. 5

WATERFLOOD PROGRESS REPORT

January 1, through December 31, 2010

PennWest Exploration

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INTRODUCTION

The WASKADA NO.5 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, Jan.1, 1985 Board Order; Voluntary

First Enlargement March 1, 1986 Voluntary

POOL: Waskada Lower Amaranth A (03 29A)

This report documents the performance of the Waskada Unit # 5 pressure maintenance project for the period of January 1 to December 31, 2010.

Unit # 5 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 (W1PM).

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 #5 (Unit History)

Abbreviated Well ID	Date Well Spudded	On Prod YYYY/MM	Org Operator Name	Ground Elevation (m)	TVD (m)
00/03-34-001-26W1/0	1/31/1981	1981/06	Omega Hydcbns Ltd	460.9	969.0
00/04-34-001-26W1/0	6/21/1984	1984/07	Omega Hydcbns Ltd	460.5	958.0
00/05-34-001-26W1/0	6/24/1984	1984/07	Omega Hydcbns Ltd	462.1	960.0
00/06-34-001-26W1/0	11/26/1983	1984/02	Omega Hydcbns Ltd	460.6	937.0
02/10-34-001-26W1/0	9/9/1983	1983/12	Omega Hydcbns Ltd	461.3	949.0
00/12-34-001-26W1/2	3/13/1984	1984/06	NCE Petrofund Corp	463.3	961.0
00/13-34-001-26W1/0	9/8/1983	1983/10	Omega Hydcbns Ltd	460.4	951.0
00/14-34-001-26W1/2	6/25/1983	1983/08	NCE Petrofund Corp	460.6	957.0
00/15-34-001-26W1/0	10/26/1983	1984/02	Omega Hydcbns Ltd	460.3	950.0
00/16-34-001-26W1/0	10/22/1983	1984/01	Omega Hydcbns Ltd	462.0	951.0
00/13-35-001-26W1/0	9/21/1983	1983/10	Omega Hydcbns Ltd	463.3	956.5
00/14-35-001-26W1/2	9/18/1983	1983/10	NCE Petrofund Corp	465.1	956.0
00/15-35-001-26W1/0	9/14/1983	1983/10	Omega Hydcbns Ltd	465.0	943.0
00/16-35-001-26W1/0	9/13/1983	1983/10	Omega Hydcbns Ltd	465.8	948.0
00/01-02-002-26W1/0	10/13/1983	1983/11	Omega Hydcbns Ltd	465.2	952.0
00/02-02-002-26W1/0	10/17/1983	1983/11	Omega Hydcbns Ltd	463.5	954.0

Abbreviated Well ID	Date Well Spudded	On Prod YYYY/MM	Org Operator Name	Ground Elevation (m)	TVD (m)
00/03-02-002-26W1/0	12/1/1983	1984/02	Omega Hydcbns Ltd	465.6	950.0
00/04-02-002-26W1/0	10/17/1983	1983/11	Omega Hydcbns Ltd	462.8	955.0
02/04-02-002-26W1/0	9/4/2009	2009/11		465.0	907.9
03/04-02-002-26W1/0	8/27/2009	2009/11		465.4	913.4
00/05-02-002-26W1/0	11/27/1983	1984/01	Omega Hydcbns Ltd	461.6	945.0
00/06-02-002-26W1/0	7/15/1983	1983/08	Omega Hydcbns Ltd	464.2	950.0
00/07-02-002-26W1/0	10/13/1983	1983/11	Omega Hydcbns Ltd	464.3	948.0
00/08-02-002-26W1/0	10/9/1983	1983/11	Omega Hydcbns Ltd	462.2	948.0
00/09-02-002-26W1/0	11/20/1983	1984/01	Omega Hydcbns Ltd	464.8	950.0
00/10-02-002-26W1/0	11/22/1983	1984/01	Omega Hydcbns Ltd	464.9	941.0
00/11-02-002-26W1/0	11/20/1983	1984/01	Omega Hydcbns Ltd	463.1	950.0
00/12-02-002-26W1/0	8/30/1983	1983/09	Omega Hydcbns Ltd	465.2	950.0
02/12-02-002-26W1/0	1/26/2010	2010/03		465.5	908.0
00/15-02-002-26W1/0	9/24/1982	1982/11	Omega Hydcbns Ltd	464.7	948.0
00/01-03-002-26W1/0	3/11/1984	1984/05	Omega Hydcbns Ltd	462.0	950.0
00/02-03-002-26W1/0	2/23/1984	1984/03	Omega Hydcbns Ltd	462.7	950.0
00/03-03-002-26W1/0	2/29/1984	1984/03	Omega Hydcbns Ltd	461.1	950.0
00/07-03-002-26W1/0	8/20/1983	1983/09	Omega Hydcbns Ltd	465.0	948.0
00/08-03-002-26W1/0	3/21/1984	1984/06	Omega Hydcbns Ltd	463.6	950.0

Waskada Unit #5 (Production & Injection History)

Abbreviated Well ID	First Prod YYYY/M M	On Inject. YYYY/M M	Last Prod. YYYY/M M	Cumulati ve OIL Prod. (m3)	Cumulati ve WTR Prod. (m3)	First 12 mo. Ave WC %	Last Inject. YYYY/M M
00/03-34-001-26W1/0	1981/06		1989/12	1,535	5,835	92.9	
00/04-34-001-26W1/0	1984/07		1988/02	353	10,302	92.7	
00/05-34-001-26W1/0	1984/07	1986/03	1986/02	822	4,442	82.8	1998/04
00/06-34-001-26W1/0	1984/02		2008/09	5,050	32,844	70.5	
02/10-34-001-26W1/0	1983/12		1990/01	652	7,152	92.7	
00/12-34-001-26W1/2	1984/06		1996/04	2,757	11,032	66.6	
00/13-34-001-26W1/0	1983/10	1986/03	1986/02	807	2,738	75.1	2000/05
00/14-34-001-26W1/2	1983/08		2004/04	2,178	4,021	49.7	
00/15-34-001-26W1/0	1984/02	1986/03	1986/02	455	1,769	78.9	1998/04
00/16-34-001-26W1/0	1984/01		1989/04	256	1,996	89.6	
00/13-35-001-26W1/0	1983/10	1985/01	1984/12	802	1,402	64.2	2003/10
00/14-35-001-26W1/2	1983/10		2010/12	5,896	6,167	65.9	
00/15-35-001-26W1/0	1983/10	1985/01	1984/12	1,240	280	18.9	2006/02
00/16-35-001-26W1/0	1983/10		2010/12	12,900	2,070	11.5	
00/01-02-002-26W1/0	1983/11		2010/11	10,118	3,110	15.1	
00/02-02-002-26W1/0	1983/11		2010/12	6,721	1,262	26.9	
00/03-02-002-26W1/0	1984/02		2010/12	4,743	1,640	40.9	
00/04-02-002-26W1/0	1983/11		2010/12	5,969	1,230	31.0	
02/04-02-002-26W1/0	2009/11		2010/12	3,703	2,267	38.4	
03/04-02-002-26W1/0	2009/11		2010/12	2,680	2,565	50.8	
00/05-02-002-26W1/0	1984/01	1985/01	1984/12	894	322	26.5	2003/10
00/06-02-002-26W1/0	1983/08		2010/12	5,054	1,204	25.0	

Abbreviated Well ID	First Prod YYYY/M M	On Inject. YYYY/M M	Last Prod. YYYY/M M	Cumulati ve OIL Prod. (m3)	Cumulati ve WTR Prod. (m3)	First 12 mo. Ave WC %	Last Inject. YYYY/M M
00/07-02-002-26W1/0	1983/11	1985/01	1984/12	722	299	30.4	2004/06
00/08-02-002-26W1/0	1983/11		2008/06	4,609	1,444	35.1	
00/09-02-002-26W1/0	1984/01		1991/03	2,108	569	28.4	
00/10-02-002-26W1/0	1984/01		2008/05	3,206	920	31.2	
00/11-02-002-26W1/0	1984/01		2010/12	7,286	9,118	28.7	
00/12-02-002-26W1/0	1983/09		2010/12	5,659	1,732	28.4	
02/12-02-002-26W1/0	2010/03		2010/12	2,964	1,739	36.5	
00/15-02-002-26W1/0	1982/11	1986/03	1986/01	1,039	637	44.0	1998/04
00/01-03-002-26W1/0	1984/05		1996/10	2,717	1,437	56.5	
00/02-03-002-26W1/0	1984/03		1990/04	1,650	896	34.9	
00/03-03-002-26W1/0	1984/03		1986/07	1,442	2,968	37.1	
00/07-03-002-26W1/0	1983/09	1986/03	1986/02	1,406	716	30.7	1998/04
00/08-03-002-26W1/0	1984/06		2010/12	4,518	2,257	47.9	

Discussion:

Production Performance

Production Response versus Injection: Since injection began, mid 1985, injection rates fluctuated to some degree amongst the injectors; it is difficult to link any production responses to any specific injector. Water breakthrough of certain producers could not be directly correlated with over injection in associated injectors. Some wells showed no change in oil rate when injection was ceased in 2005.

Voidage Replacement Ratio Calculation

What could be described as very limited success, the waterflood was not maintained properly and injection rate dropped year after year in most cases. The cumulative VRR in the pool is about 0.89 (under injected) and the current monthly VRR is zero. All of the injectors are shut in currently. PennWest has no plans to re-activate 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 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.

2011 Waskada Lower Amaranth Waterflood Pilot Location

The pilot producer will be 102/12-01-02-26W1/00 (a horizontal well) and the injectors will be two vertical wells; 100/12-01-02-26W1 and 100/11-01-02-26 (need to be converted to injectors)

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

1. 00/14-35-001-26W1/2
2. 00/16-35-001-26W1/0
3. 00/02-02-002-26W1/0
4. 00/03-02-002-26W1/0
5. 00/04-02-002-26W1/0
6. 02/04-02-002-26W1/0
7. 03/04-02-002-26W1/0
8. 00/06-02-002-26W1/0
9. 00/11-02-002-26W1/0
10. 00/12-02-002-26W1/0
11. 02/12-02-002-26W1/0
12. 00/08-03-002-26W1/0

Current Suspended Wells

1. 00/01-02-002-26W1/0 (since 2010/12)
2. 00/06-34-001-26W1/0 (since 2008/10)
3. 00/08-02-002-26W1/0 (since 2008/07)
4. 00/10-02-002-26W1/0 (since 2008/06)
5. 00/14-34-001-26W1/2 (since 2004/05)

Abandoned Wells

1. 00/03-34-001-26W1/0 (since 1990/01)
2. 00/04-34-001-26W1/0 (since 1988/03)
3. 02/10-34-001-26W1/0 (since 1990/02)
4. 00/12-34-001-26W1/2 (since 1996/05)
5. 00/16-34-001-26W1/0 (since 1989/05)
6. 00/09-02-002-26W1/0 (since 1991/04)
7. 00/01-03-002-26W1/0 (since 1996/11)
8. 00/02-03-002-26W1/0 (since 1990/05)
9. 00/03-03-002-26W1/0 (since 1986/08)

[Injectors]

Current Injecting Wells

None

Current Suspended Wells

1. 00/05-02-002-26W1/0 (since 2003/11)
2. 00/05-34-001-26W1/0 (since 1998/05)
3. 00/07-02-002-26W1/0 (since 2004/07)
4. 00/07-03-002-26W1/0 (since 1998/05)
5. 00/13-34-001-26W1/0 (since 2000/06)
6. 00/13-35-001-26W1/0 (since 2003/11)
7. 00/15-02-002-26W1/0 (since 1998/05)
8. 00/15-34-001-26W1/0 (since 1998/05)
9. 00/15-35-001-26W1/0 (since 2006/03)

Abandoned Wells

None

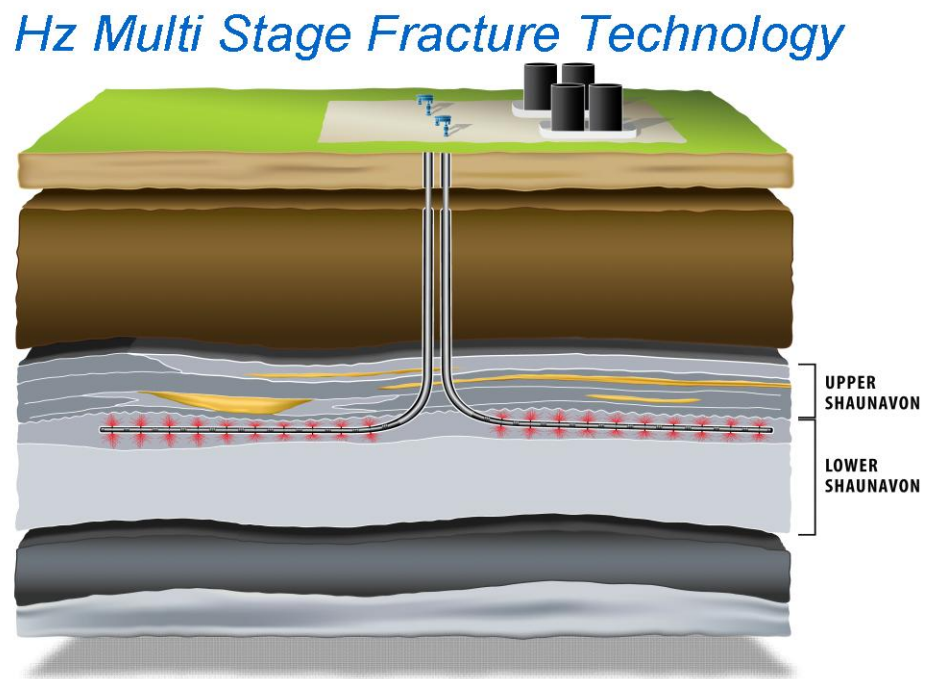
The behavior of a Waskada Unit 5 producers are indicated by examining the oil rate versus time plots (see Appendix B). Unit 5 exhibited relatively high initial oil productivity (most of the wells drilled in the past are verticals), rapidly declining to flat/low decline rates, with almost no discernible water flood response. This behavior can be explained by drop in the reservoir pressure from initial (approximately 8700 kPag) to above in some wells or below in others bubble point pressure (about 4200 kPag) followed by solution gas breakout which adversely affected the relative permeability to oil. (see Table # 2)

Also, it is believed that fracture stimulation treatments, performed on these wells prior to initiation of water injection, “broke” through into the higher productivity Mississippian zone 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 resource play that utilizes horizontal multi-stage frac drilling technology (small multi-stage frac 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 drilled six horizontal wells, to increase the Recovery Factor (RF), in year 2010, 102/01-02-002-26W1, 103/01-02-002-26W1,

102/12-02-002-26W1, 102/01-03-002-26W1/02, 102/02-03-002-26W1, and 102/03-03-002-26W1. PennWest's plan is to drill eight more horizontal well in 2011 in this Unit.

PennWest's follow up plan is to convert some of the recent horizontal producing wells to injection wells to increase the sweep efficiency and ultimately increase the recoverable oil in place. The following is the HZ Multi Stage Fracture Technology development plan that we are incorporating:-



TABLES**Waskada Unit #5****Table 1: Rates History**

Date	OIL		Water		Inj Water	
Year	m3/year	m3/day	m3/year	m3/day	m3/year	m3/day
1981	15	0.04	197	0.54	0	0.00
1982	311	0.85	758	2.08	0	0.00
1983	6,802	18.64	5,551	15.21	0	0.00
1984	18,806	51.52	22,874	62.67	0	0.00
1985	9,418	25.80	18,212	49.90	38,316	104.97
1986	6,226	17.06	12,759	34.96	75,812	207.70
1987	5,464	14.97	7,974	21.85	25,875	70.89
1988	4,450	12.19	6,636	18.18	17,778	48.71
1989	3,362	9.21	4,542	12.44	7,984	21.87
1990	4,526	12.40	2,268	6.21	9,757	26.73
1991	4,439	12.16	2,155	5.90	10,083	27.62
1992	4,824	13.22	5,584	15.30	6,146	16.84
1993	4,717	12.92	4,984	13.66	8,476	23.22
1994	3,346	9.17	4,039	11.06	3,292	9.02
1995	4,084	11.19	7,705	21.11	10,010	27.42
1996	3,455	9.47	3,653	10.01	10,941	29.97
1997	2,461	6.74	2,678	7.34	11,485	31.46
1998	1,786	4.89	2,161	5.92	2,491	6.82
1999	1,192	3.26	539	1.48	921	2.52
2000	1,685	4.62	632	1.73	985	2.70
2001	955	2.62	593	1.63	900	2.47
2002	1,284	3.52	540	1.48	367	1.00
2003	1,229	3.37	555	1.52	328	0.90
2004	1,162	3.18	399	1.09	2	0.00
2005	939	2.57	234	0.64	25	0.07
2006	1,553	4.25	1,129	3.09	1	0.00
2007	1,515	4.15	1,824	5.00	0	0.00
2008	1,866	5.11	997	2.73	0	0.00
2009	3,106	8.51	2,078	5.69	0	0.00
2010	9,937	27.22	6,131	16.80	0	0.00

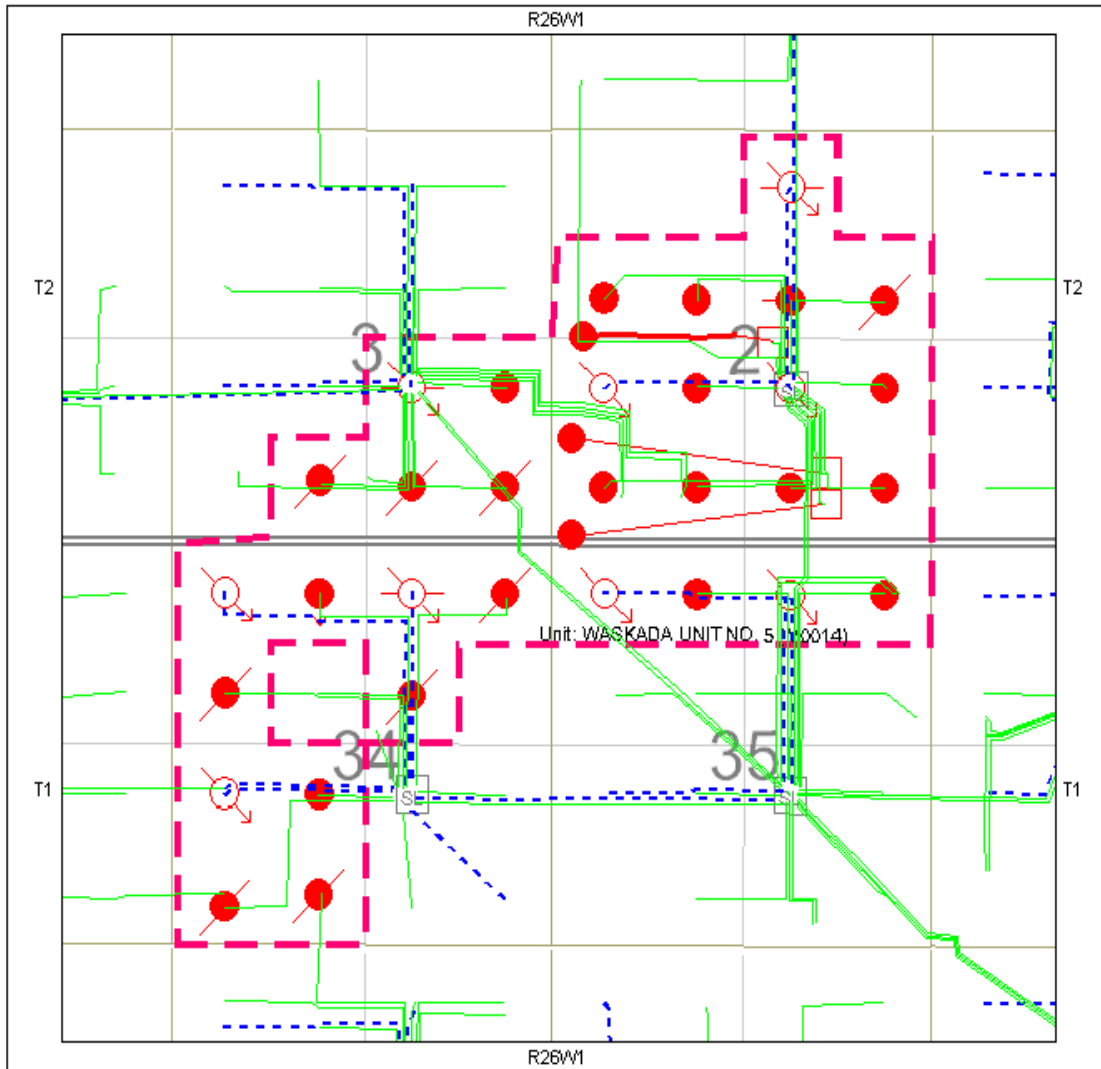
Waskada Unit #5

Table 2: Pressure Survey


Location	Shut In Date	Date of Survey	Type of Survey	Pressure @ Datum Depth (kPa)
00/06-34-001-26W1/0		10-Jan-10	BHP, Assuming WC from Last Prod'n	4166
00/13-35-001-26W1/0	Jan-90	(42 days)	Static Gradient	14888
00/14-35-001-26W1/2		2008	BHP, Assuming WC from Last Prod'n	9757
02/04-02-002-26W1/0	17-Oct-10	24-Oct-10	BHP Build Up	2089
03/04-02-002-26W1/0	17-Oct-10	24-Oct-10	BHP Build Up	1901
00/06-02-002-26W1/0		2008	BHP, Assuming WC from Last Prod'n	5335
00/08-02-002-26W1/0		10-Jan-10	BHP, Assuming WC from Last Prod'n	4013
00/09-02-002-26W1/0		10-Jan-10	BHP, Assuming WC from Last Prod'n	9101
02/12-02-002-26W1/0	17-Oct-10	24-Oct-10	BHP Build Up	2762
00/08-03-002-26W1/0		2008	BHP, Assuming WC from Last Prod'n	4766

APPENDIX A

Appendix A – Area Map



WELL SYMBOLS					
• OIL	✂ AO	⊕ PTN	⊕ D&A	⊕ WI	
○ LCT	✂ AWH	⊕ STN	⊕ CMM	⊕ DRL	
⊕ RDR	⊕ WD	⊕ AWS	⊕ AWD	⊕ SWI	
⊕ SO	⊕ WSC	⊕ J&A	⊕ SL		

PennWest Exploration		
Waskada Unit #5		
	By :	Date : 2011/04/14
	Scale = 1:22983	Project : Waskada

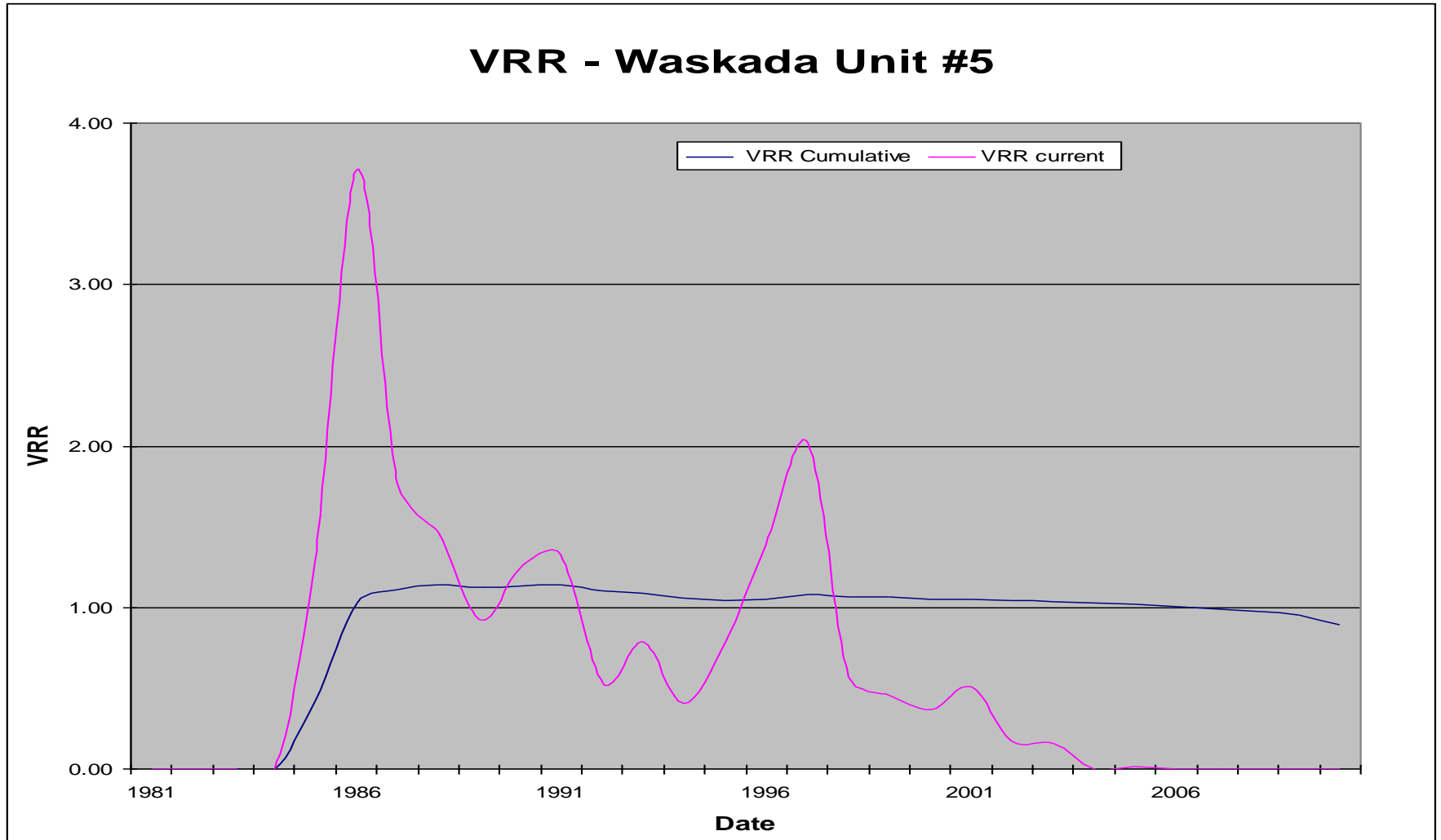
APPENDIX B

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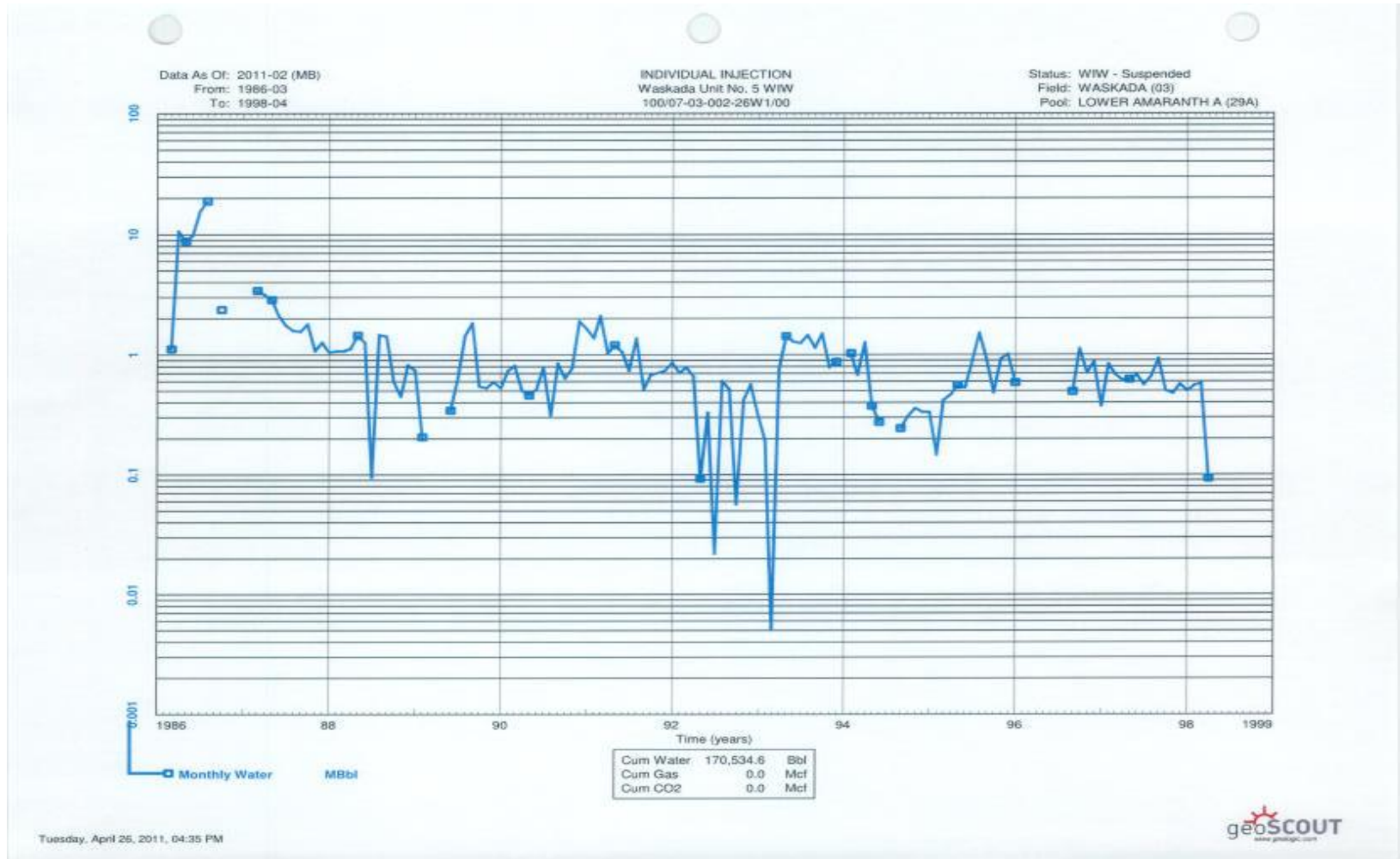
APPENDIX C

Appendix C – Voidage Replacement Ratio VRR



APPENDIX D

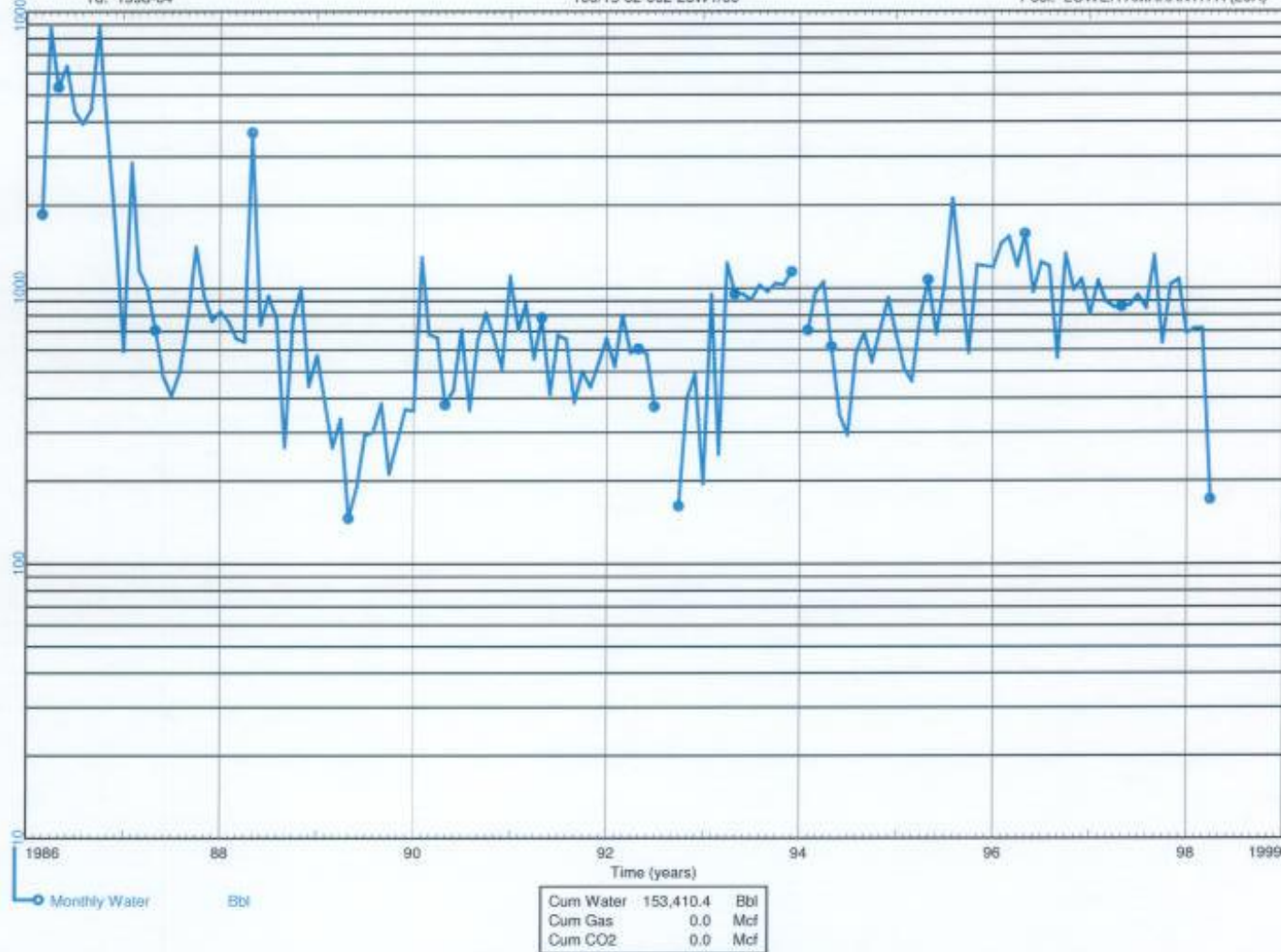
Appendix D – Production and Injection Profiles

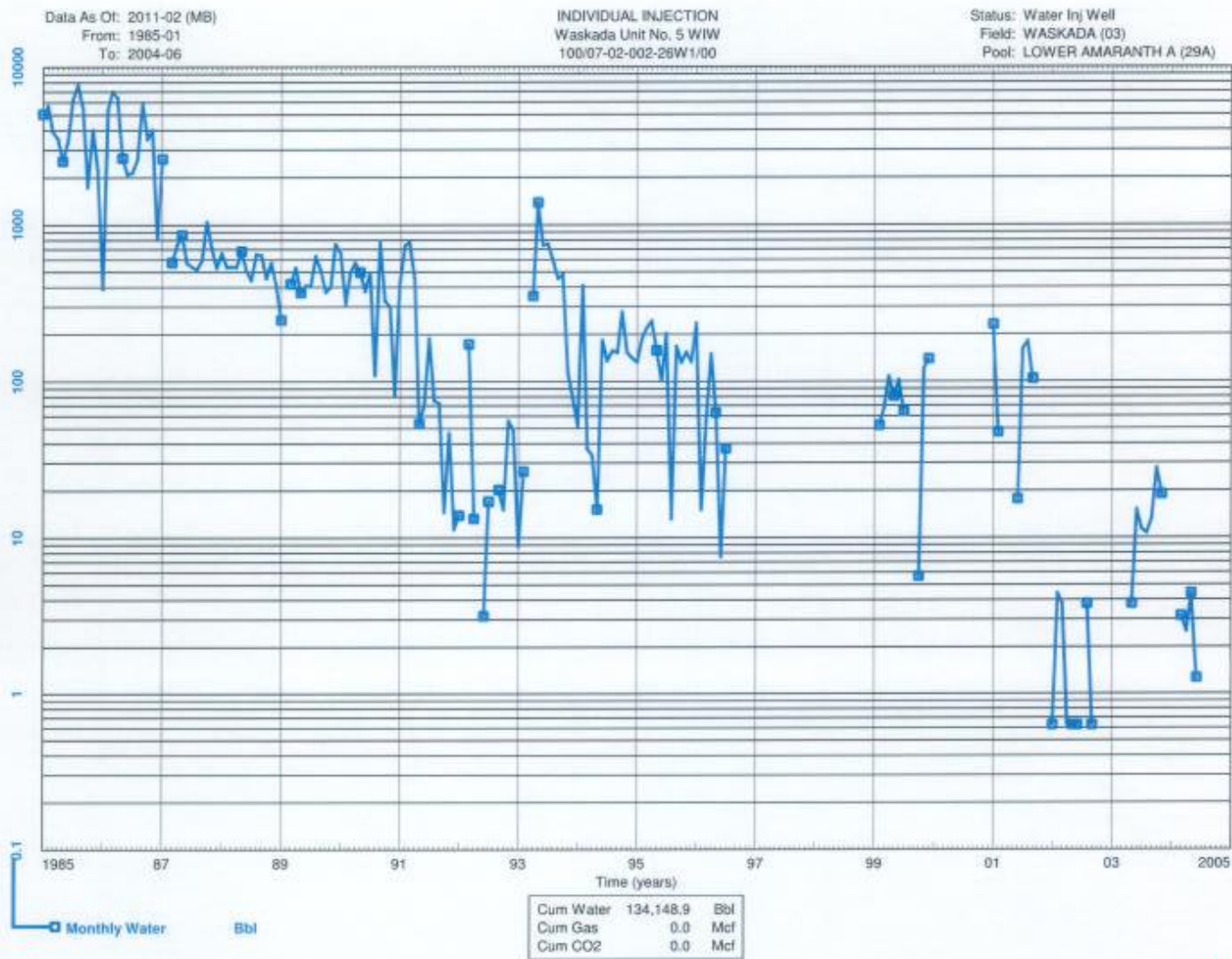


Data As Of: 2010-11 (MB)
From: 1986-03
To: 1998-04

INDIVIDUAL INJECTION
Waskada Unit No. 5 Prov. W/W
100/15-02-002-26W1/00

Status: W/W - Suspended
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



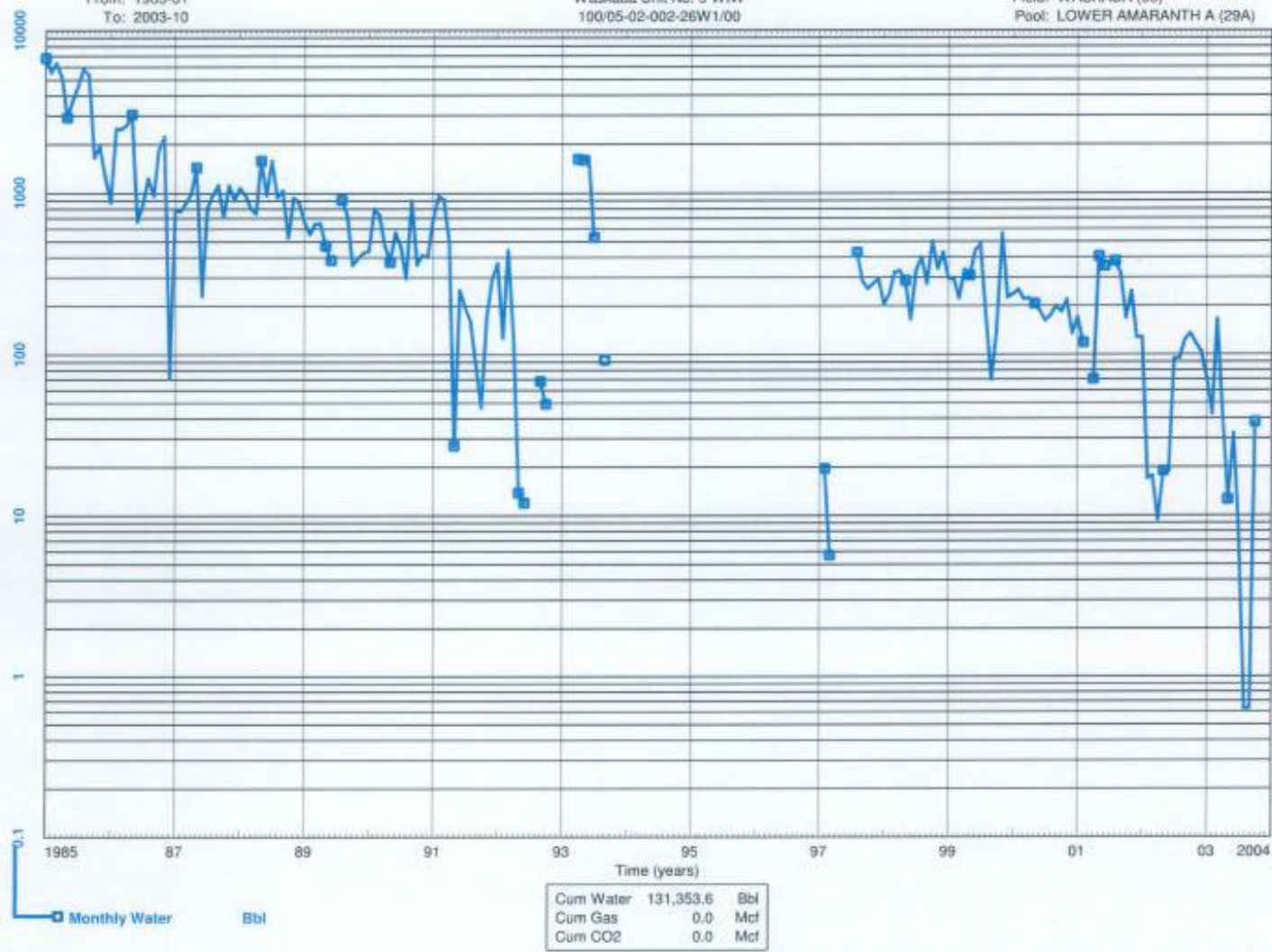


Tuesday, April 26, 2011, 04:28 PM

Data As Of: 2011-02 (MB)
 From: 1985-01
 To: 2003-10

INDIVIDUAL INJECTION
 Waskada Unit No. 5 WW
 100/05-02-002-26W1/00

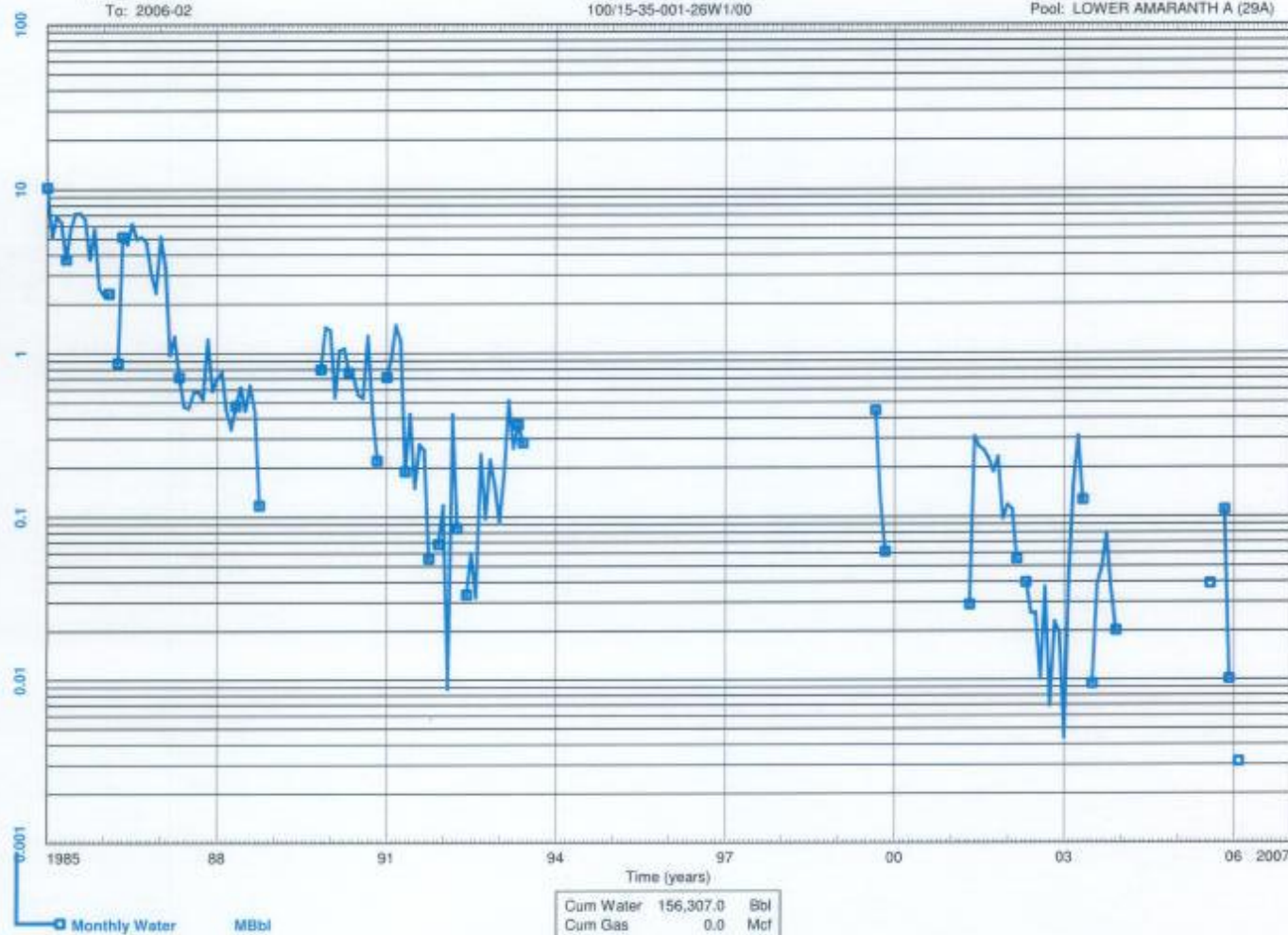
Status: Water Inj Well
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
From: 1985-01
To: 2006-02

INDIVIDUAL INJECTION
Waskada Unit No. 5 WIW
100/15-35-001-26W1/00

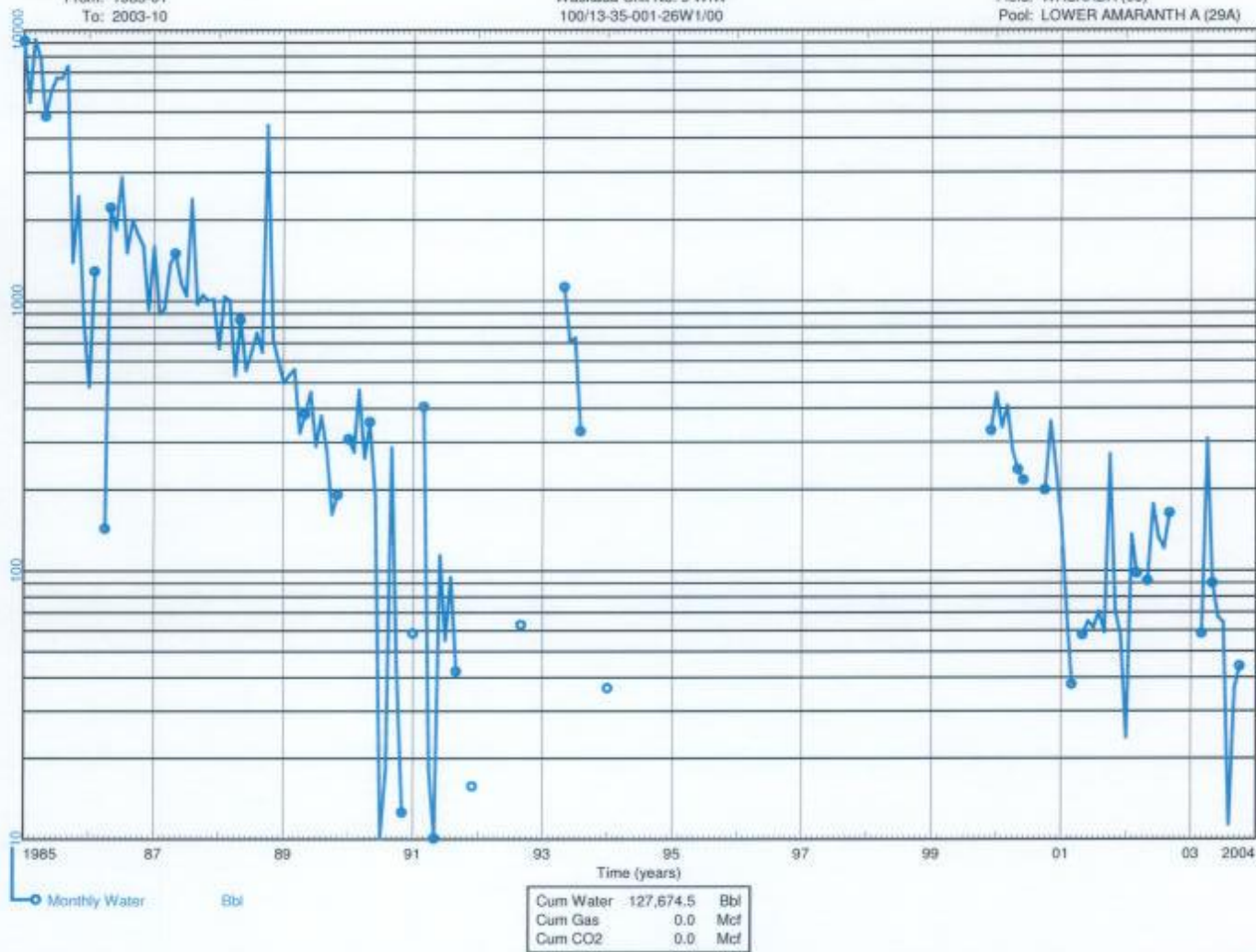
Status: Water Inj Well
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
From: 1985-01
To: 2003-10

INDIVIDUAL INJECTION
Waskada Unit No. 5 WIW
100/13-35-001-26W1/00

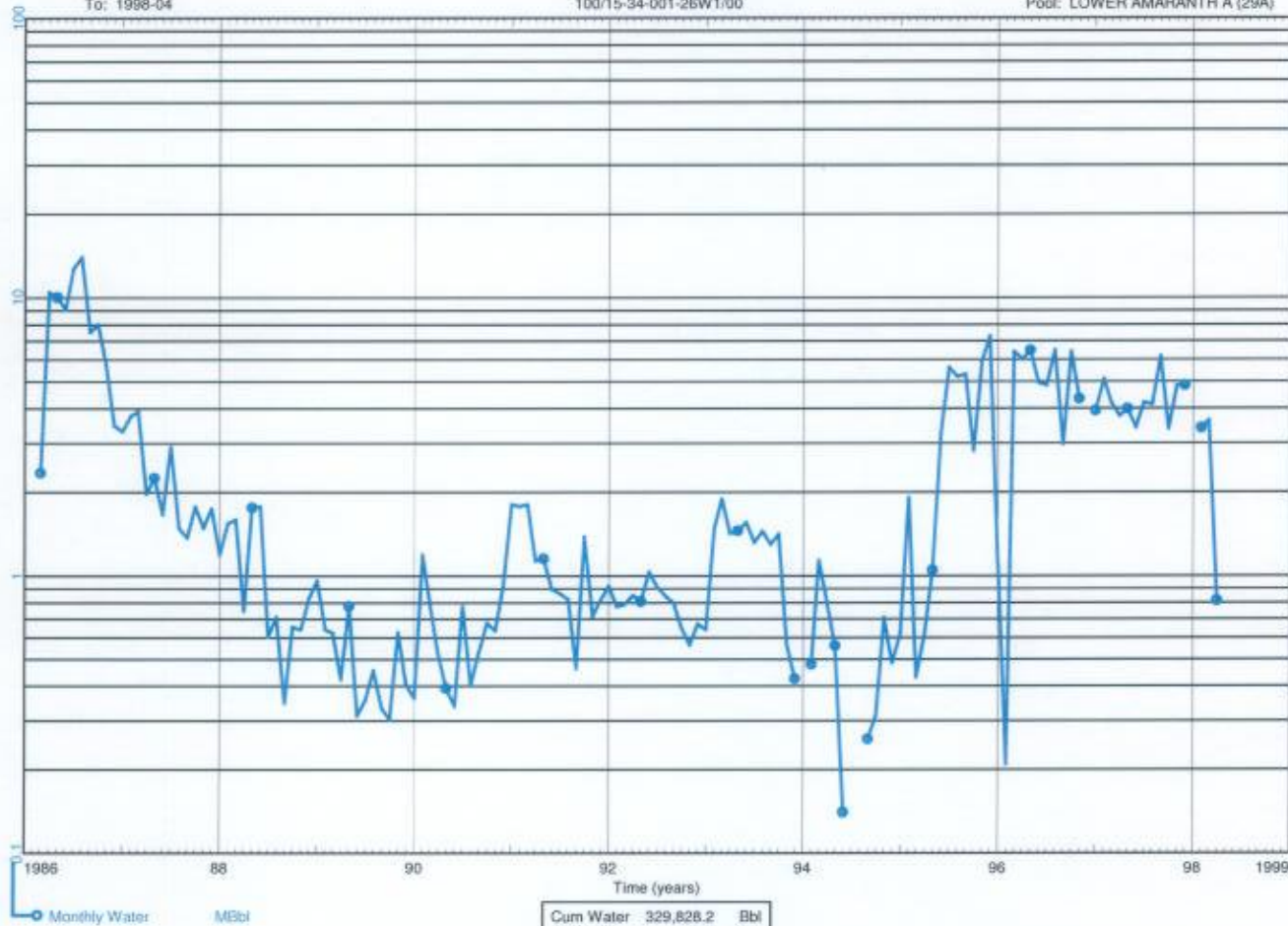
Status: Water Inj Well
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1986-03
 To: 1998-04

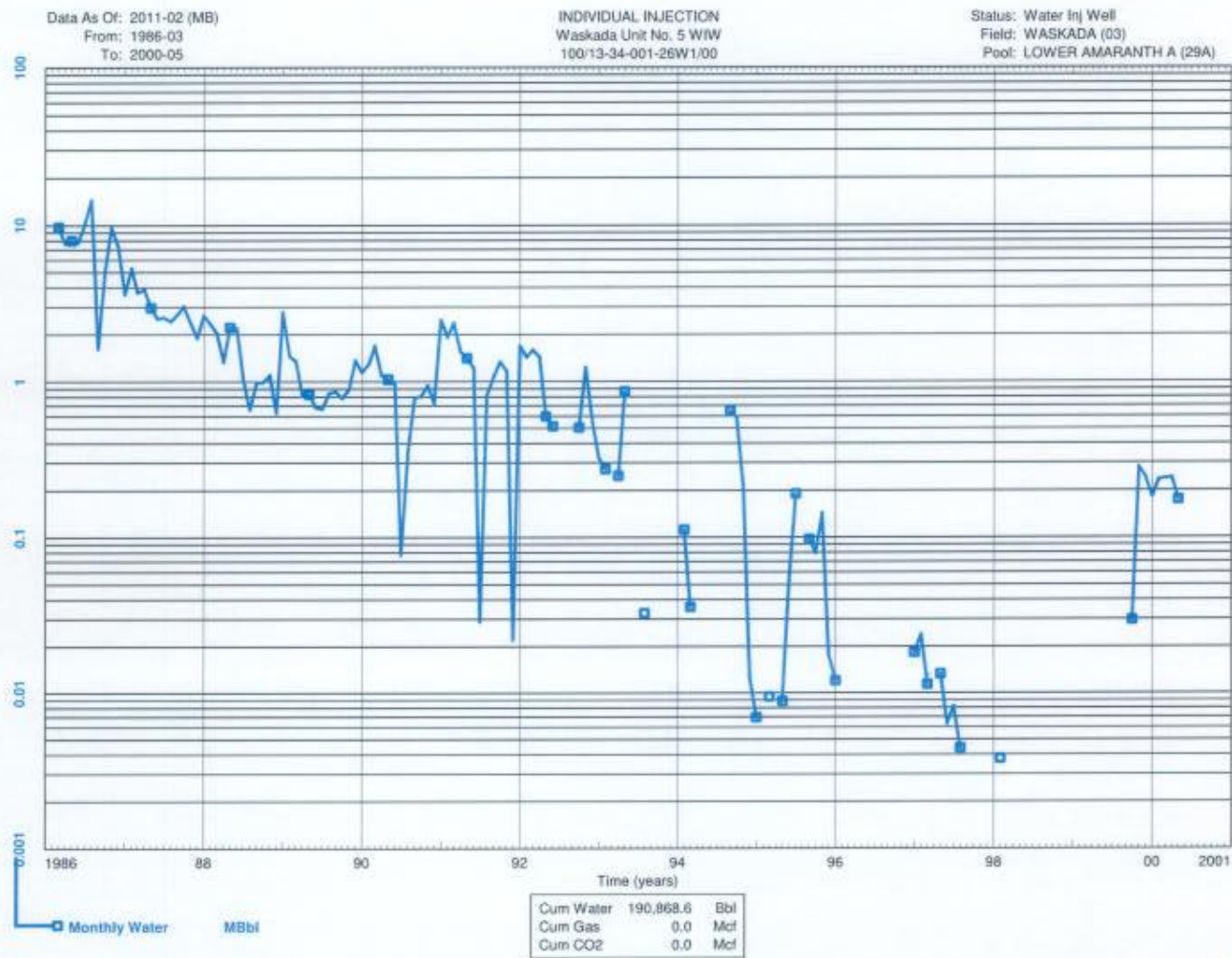
INDIVIDUAL INJECTION
 Waskada Unit No. 5 WIW
 100/15-34-001-26W1/00

Status: WIW - Suspended
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)

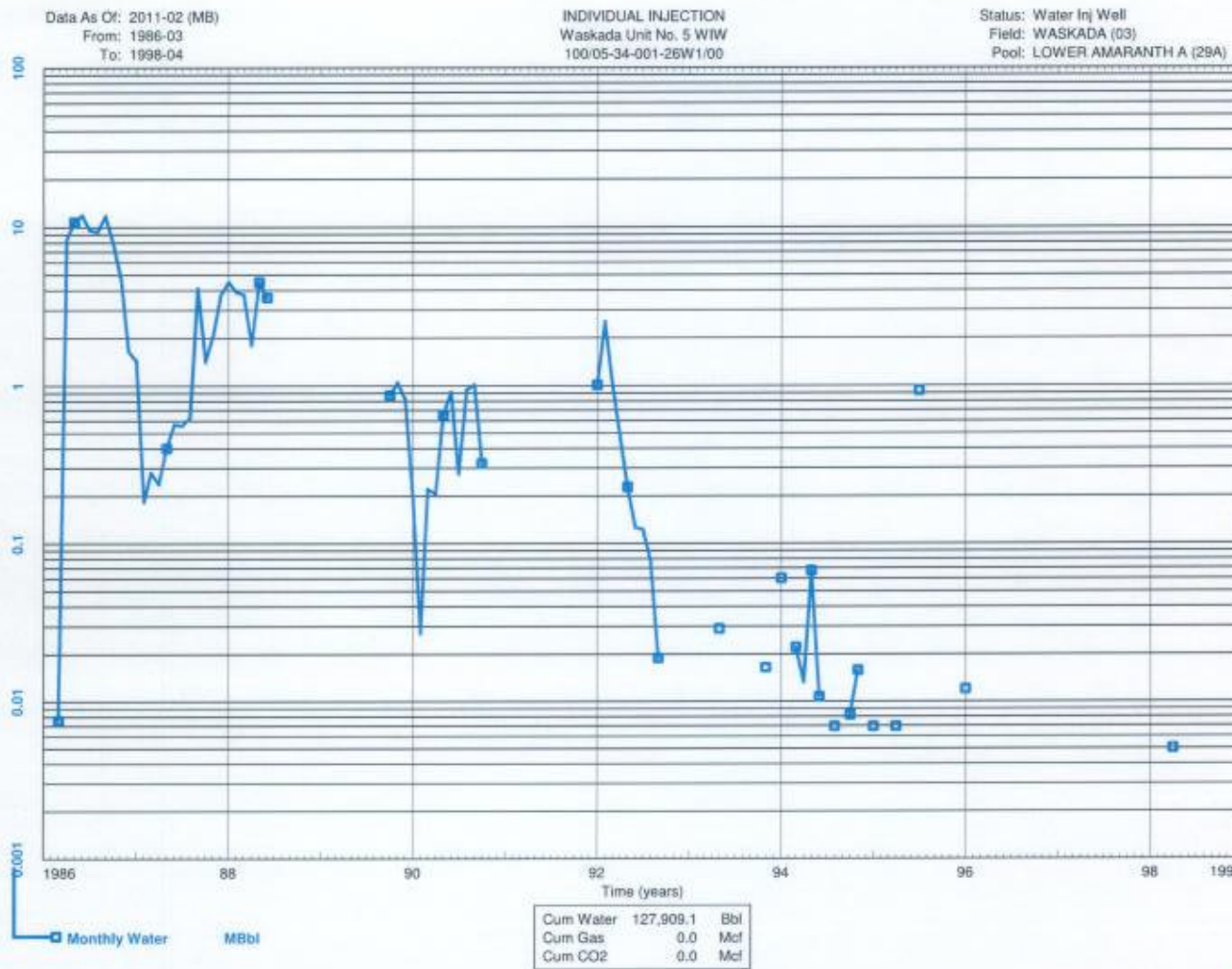


Cum Water	329,828.2	Bbl
Cum Gas	0.0	Mcf
Cum CO2	0.0	Mcf

Monday, February 14, 2011, 03:17 PM



Tuesday, April 26, 2011, 04:26 PM



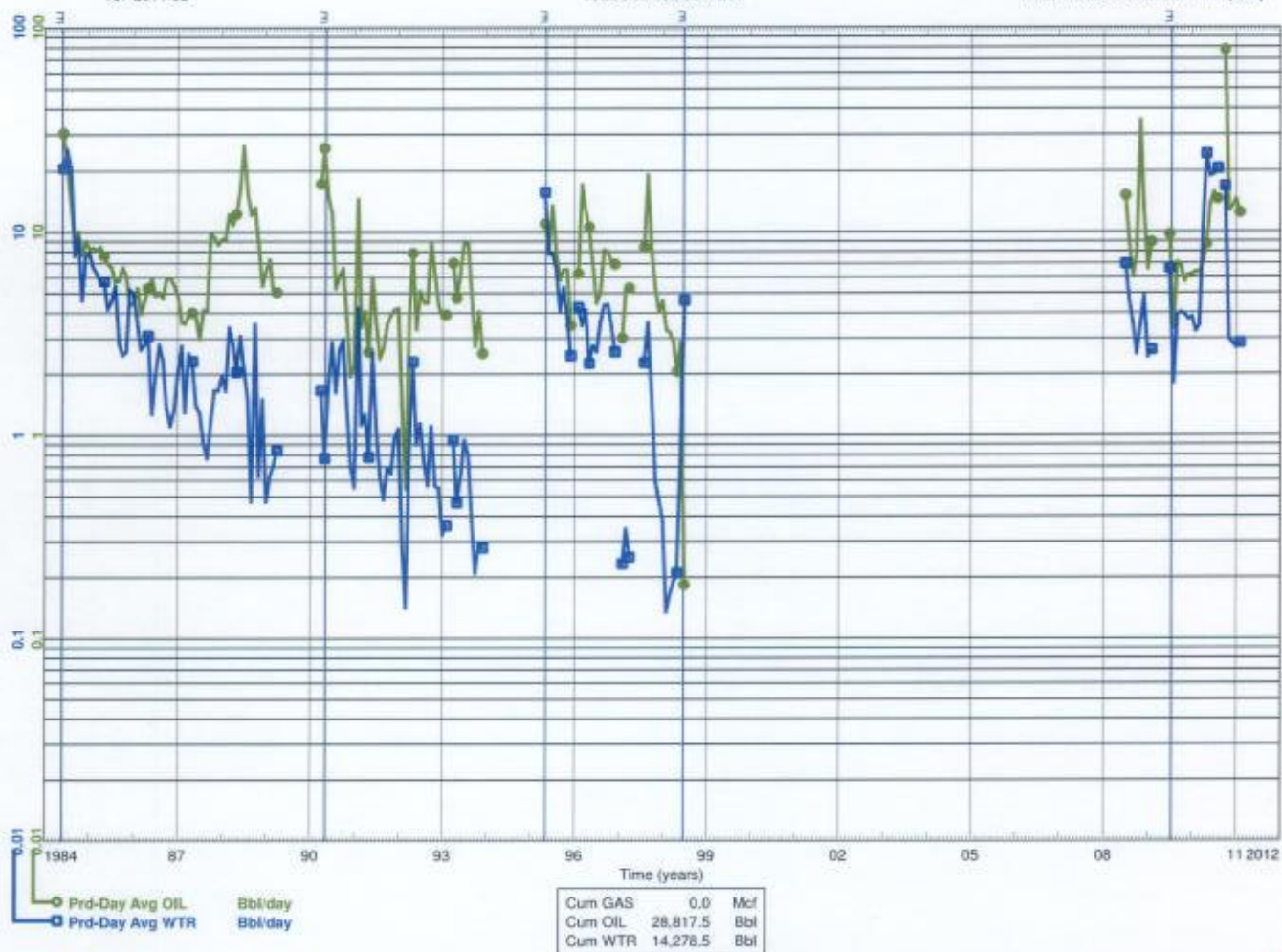
Tuesday, April 26, 2011, 04:25 PM

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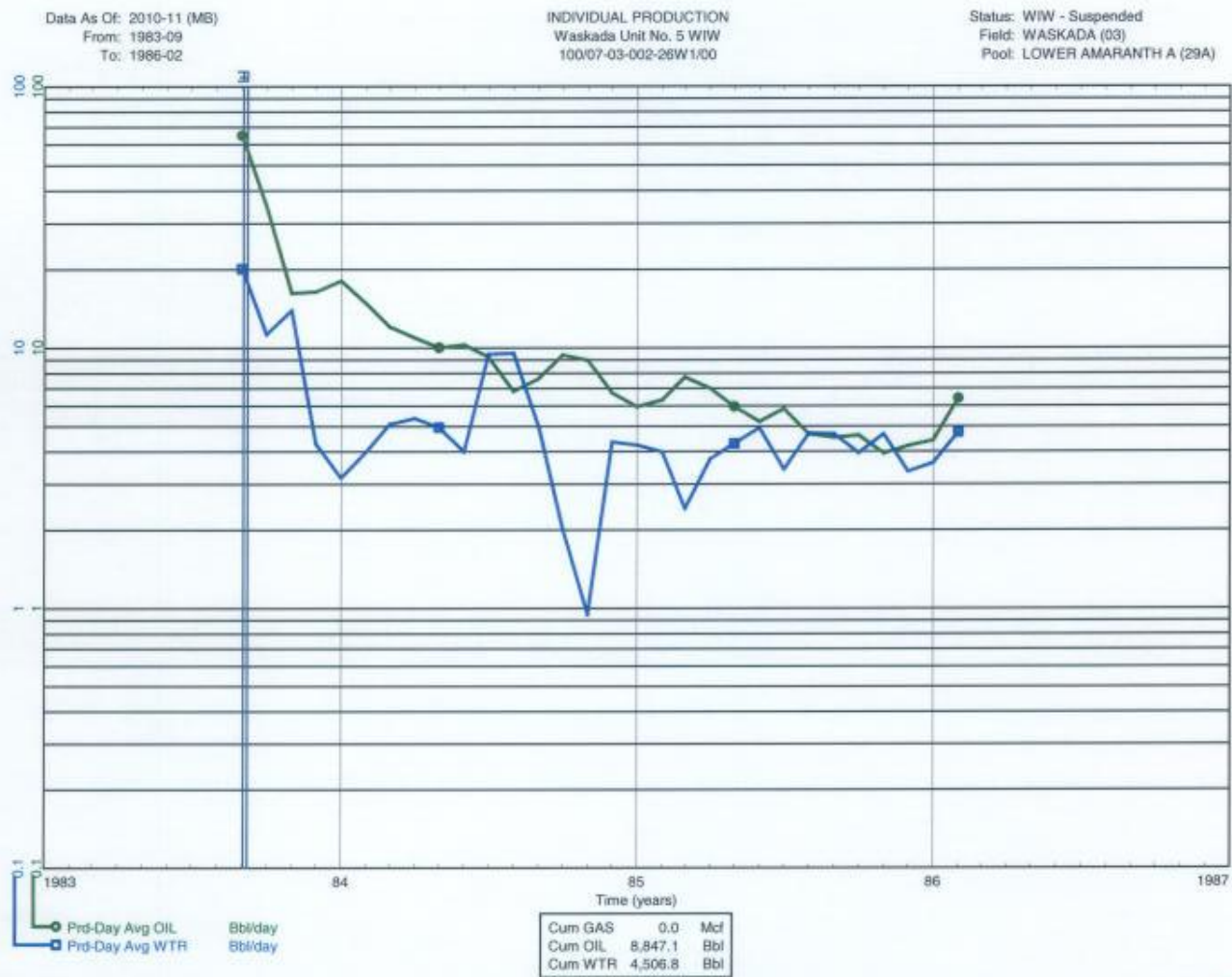
Data As Of: 2011-02 (MB)
 From: 1984-06
 To: 2011-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5
 100/08-03-002-26W1/00

Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



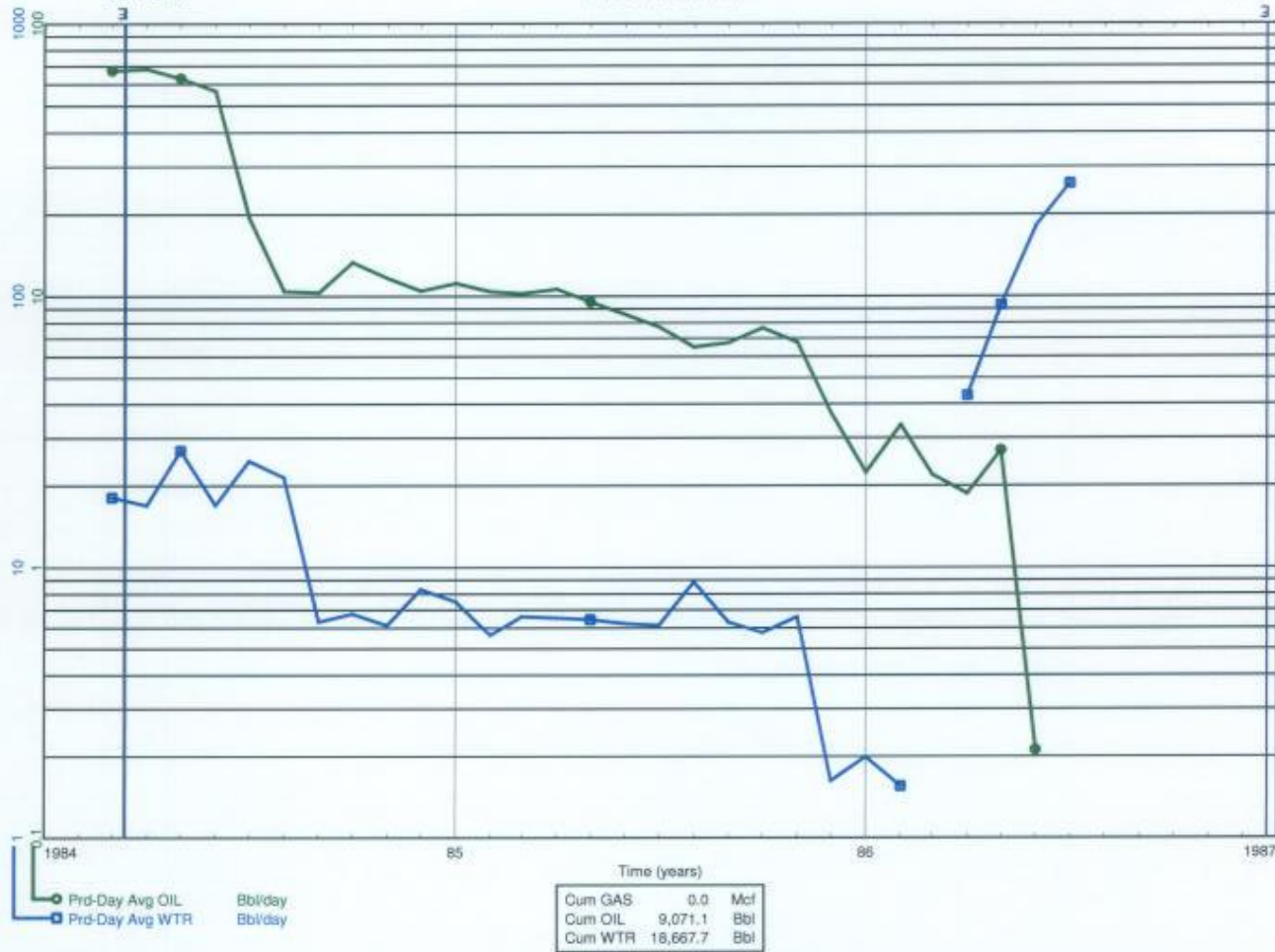
Tuesday, April 26, 2011, 01:24 PM



Data As Of: 2010-11 (MB)
 From: 1984-03
 To: 1986-07

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5
 100/03-03-002-26W1/00

Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



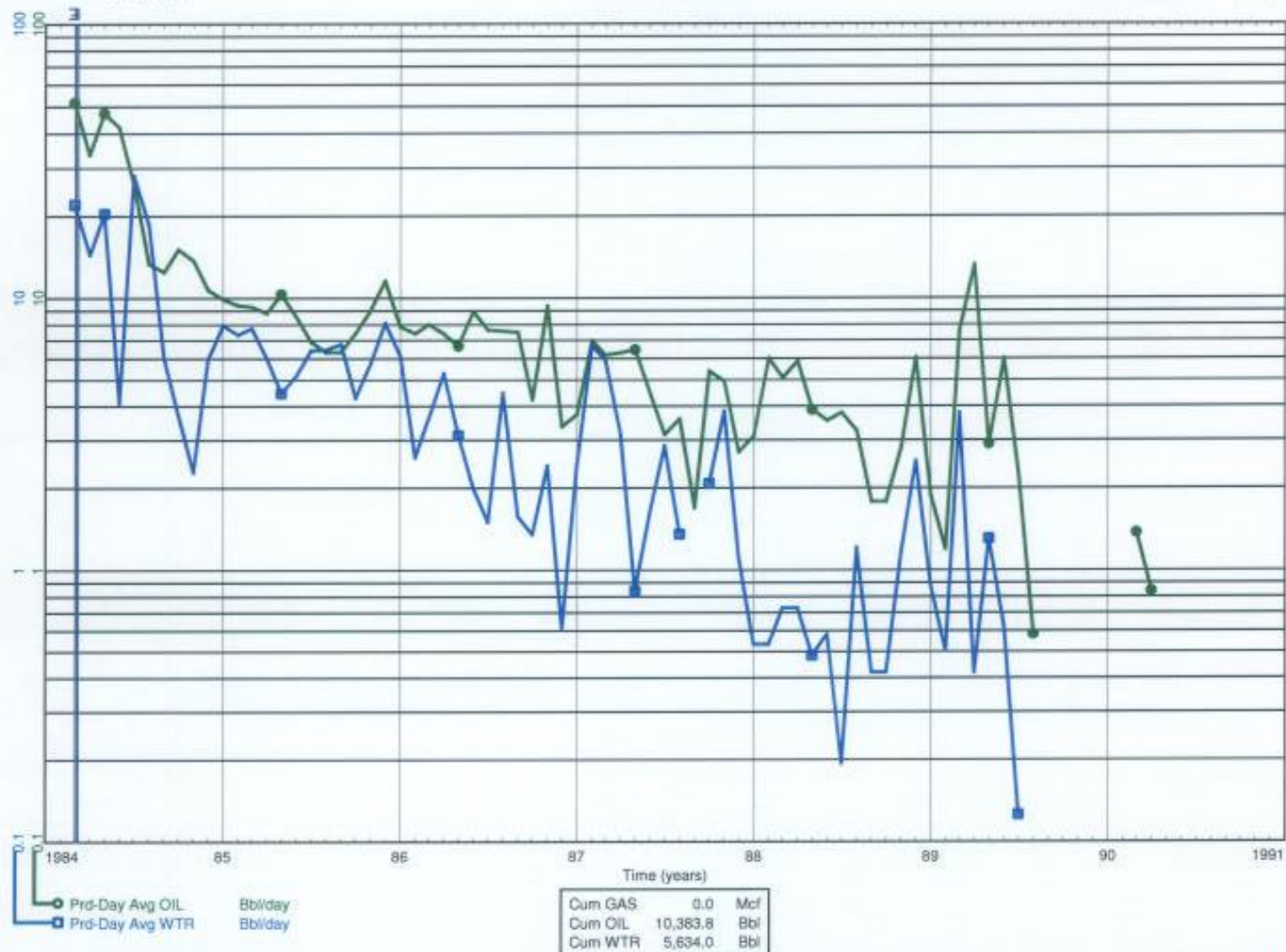
Monday, February 14, 2011, 09:00 AM

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Data As Of: 2010-11 (MB)
From: 1984-03
To: 1990-04

INDIVIDUAL PRODUCTION
Waskada Unit No. 5
100/02-03-002-26W1/00

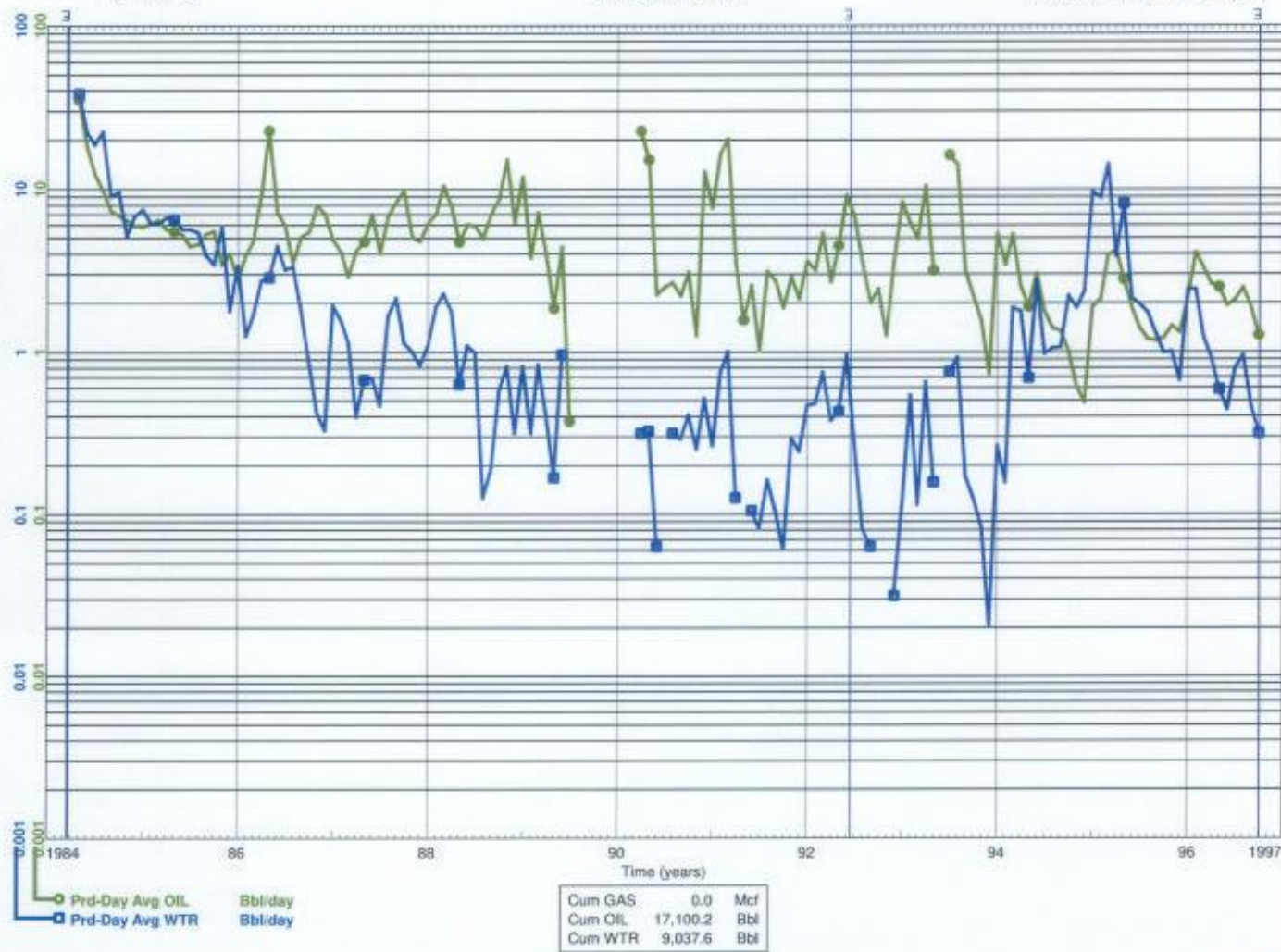
Status: Abandoned Producer
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1984-05
 To: 1996-10

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5
 100/01-03-002-26W1/00

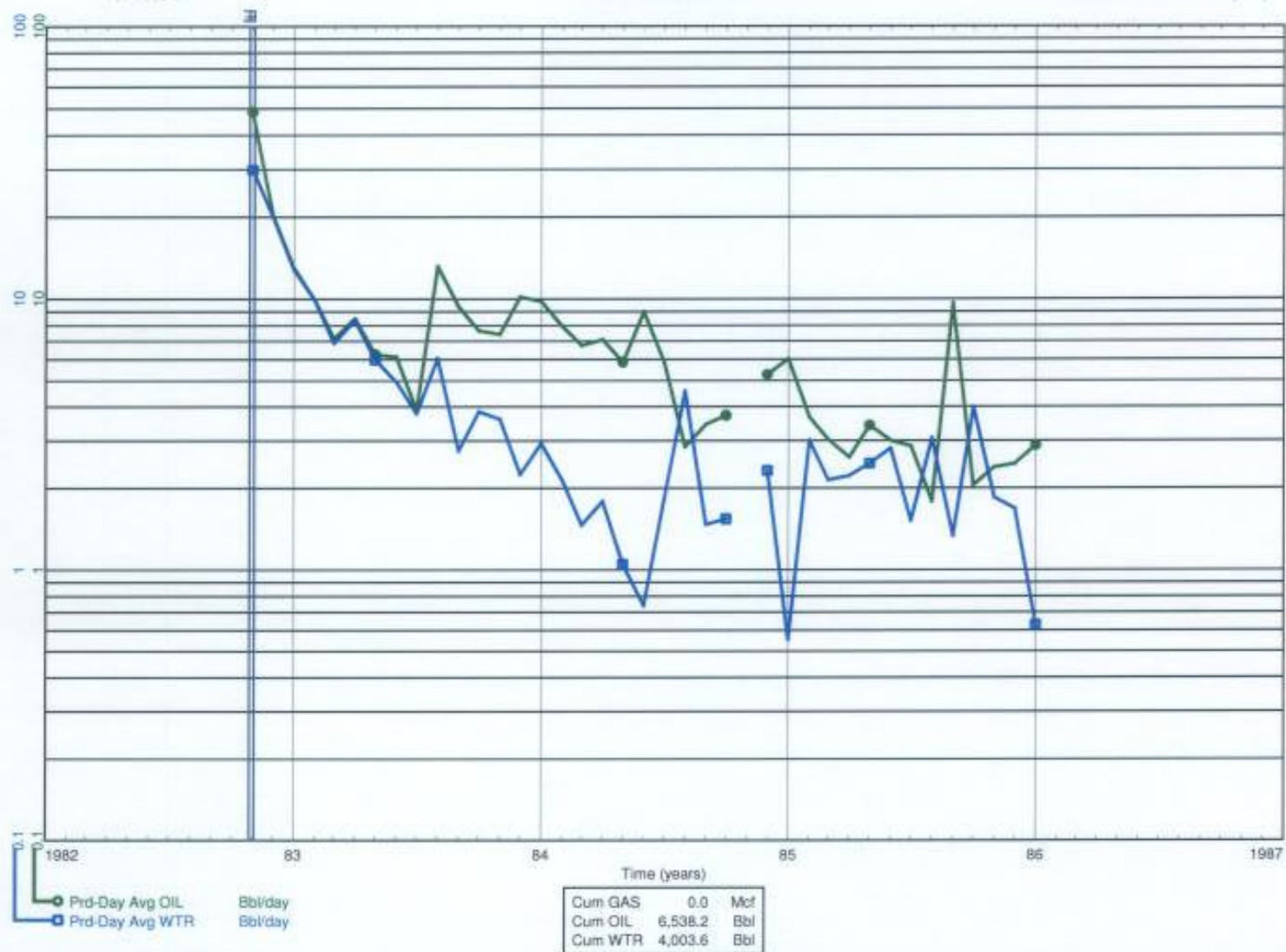
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
From: 1982-11
To: 1986-01

INDIVIDUAL PRODUCTION
Waskada Unit No. 5 Prov. WIW
100/15-02-002-26W1/00

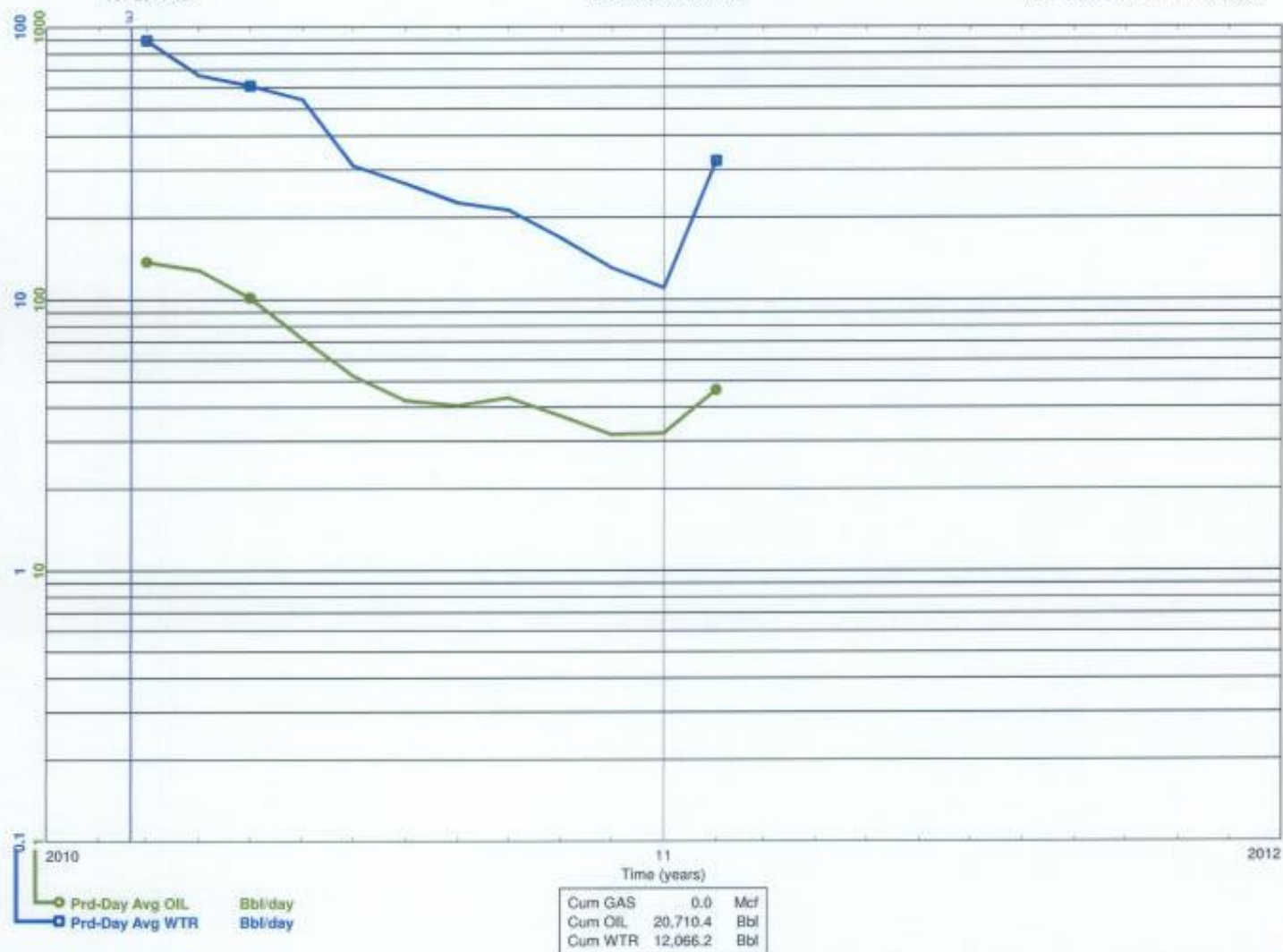
Status: WIW - Suspended
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 2010-03
 To: 2011-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 Prov. HZNTL
 102/12-02-002-26W1/00

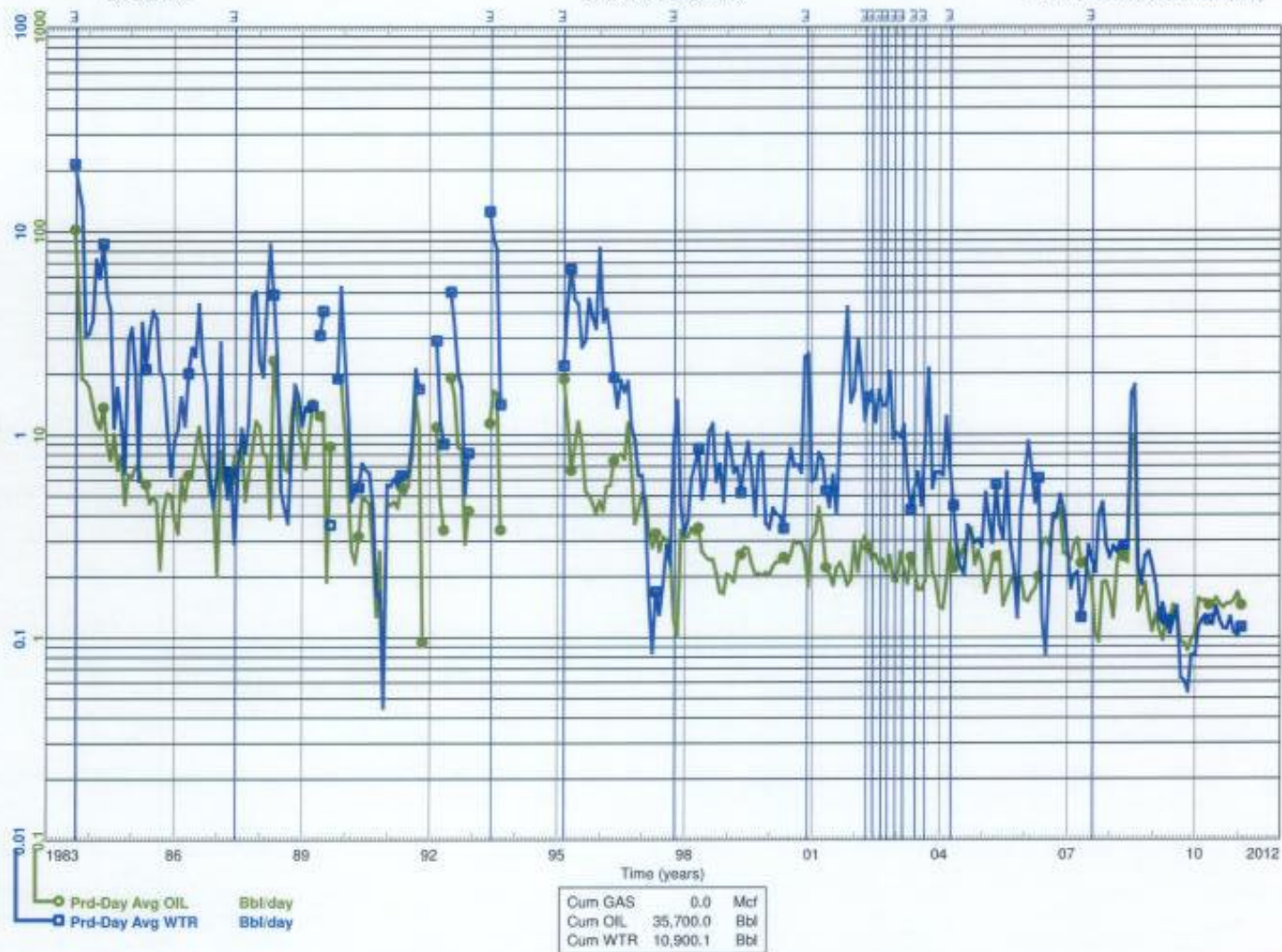
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1983-09
 To: 2011-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 Prov.
 100/12-02-002-26W1/00

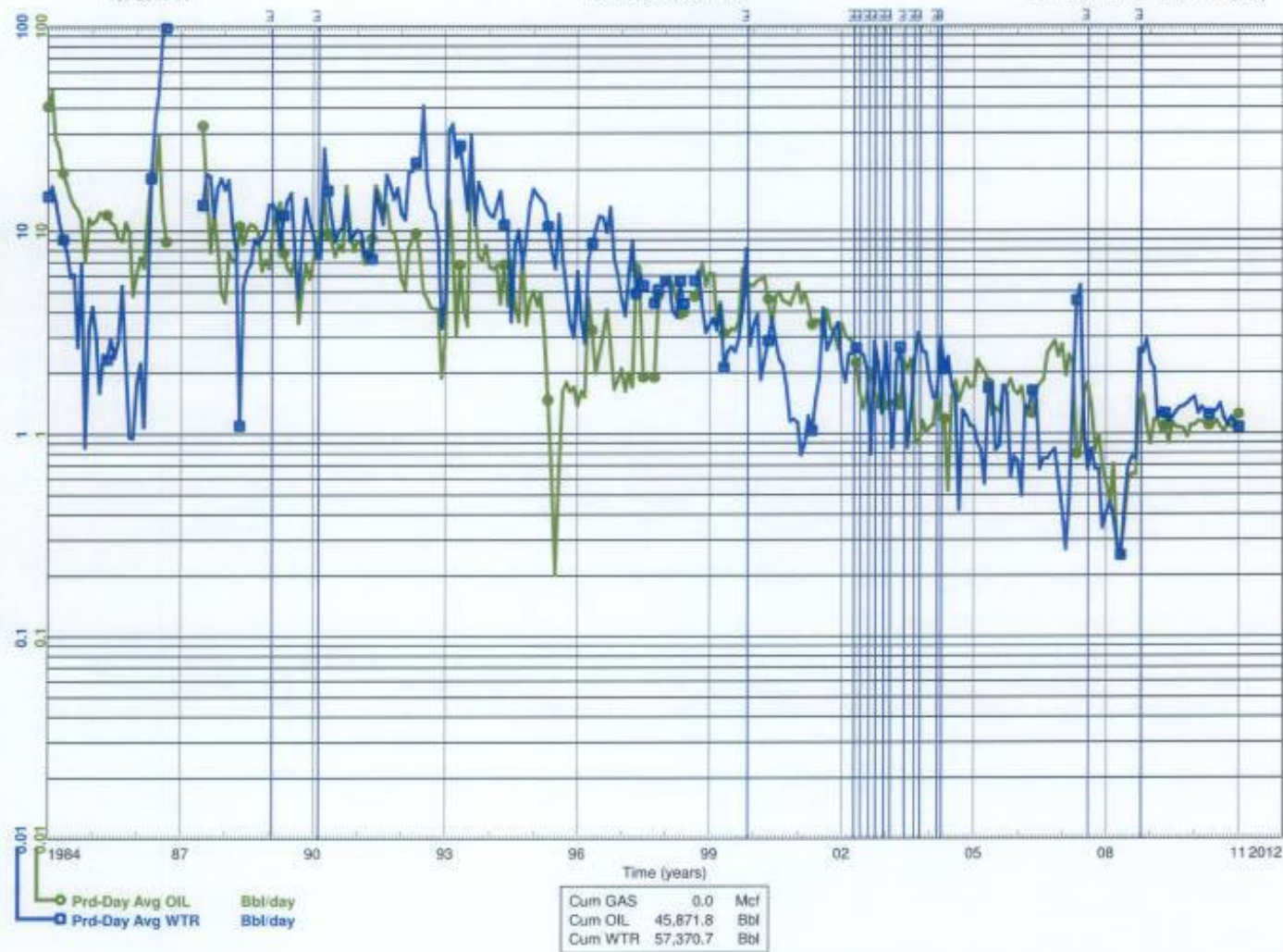
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (28A)



Data As Of: 2011-02 (MB)
 From: 1984-01
 To: 2011-01

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 Prov.
 100/11-02-002-26W1/00

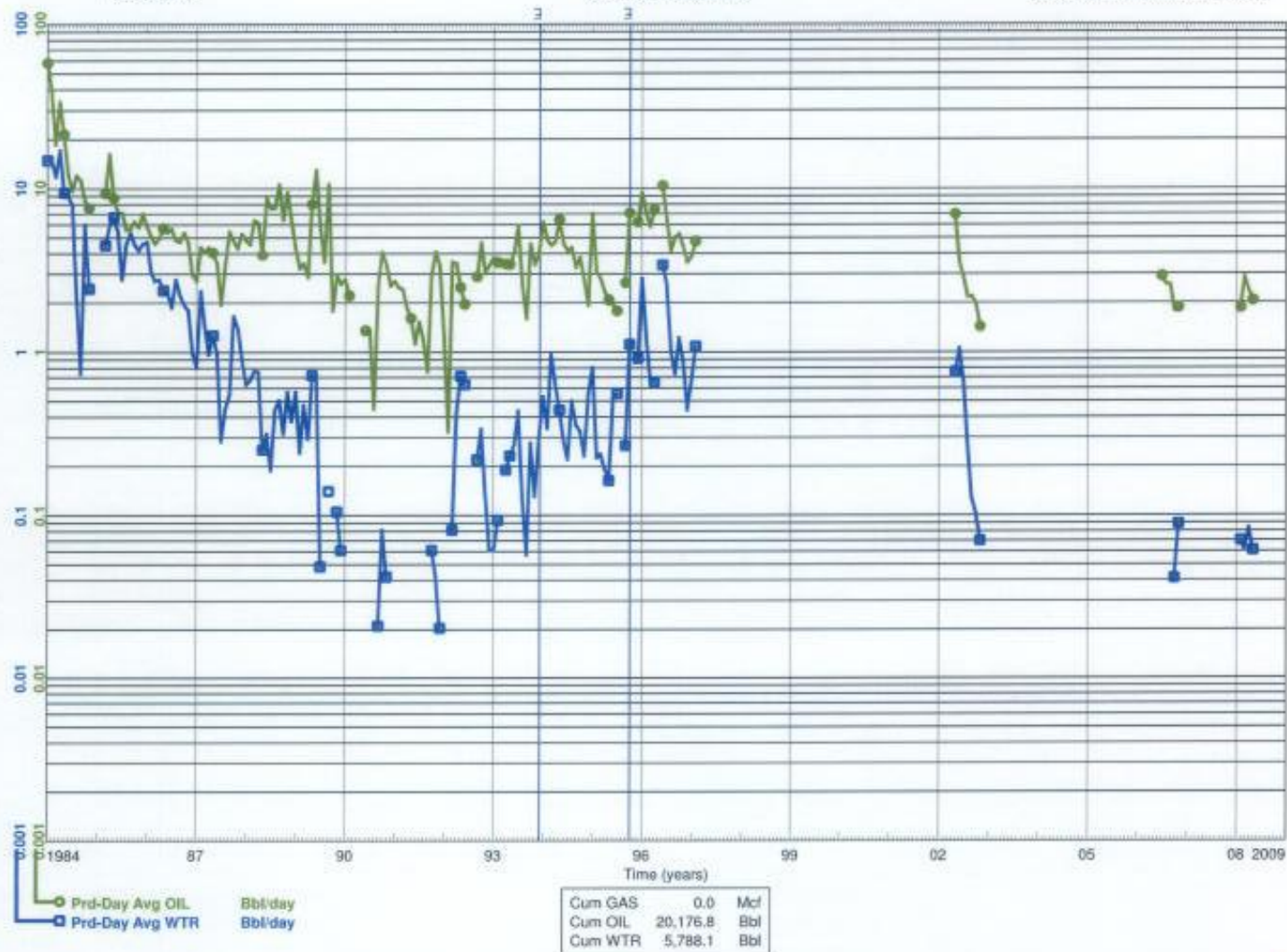
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1984-01
 To: 2008-05

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 Prov.
 100/10-02-002-26W1/00

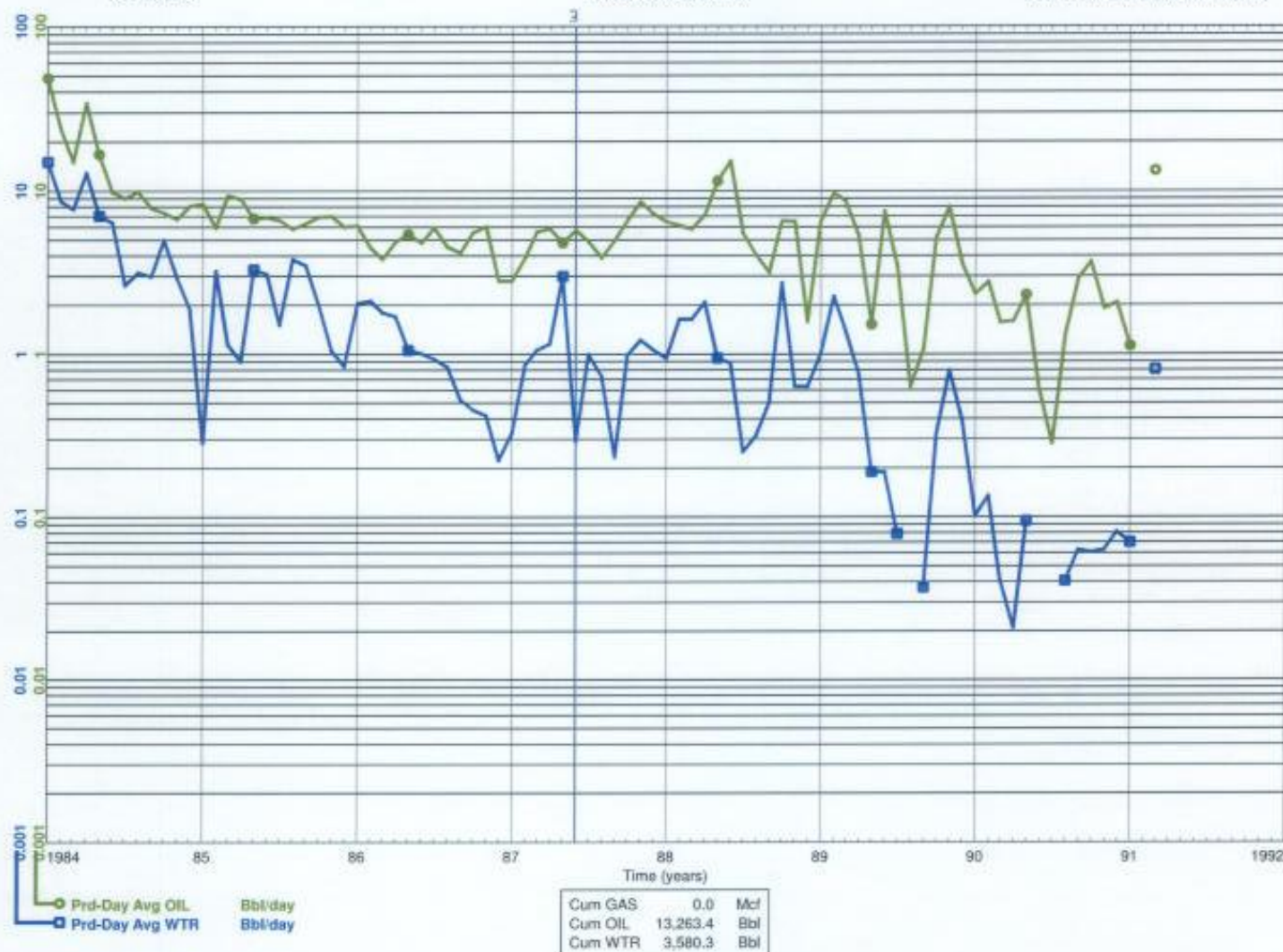
Status: COOP - Suspended
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1984-01
 To: 1991-03

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 Prov.
 100/09-02-002-26W1/00

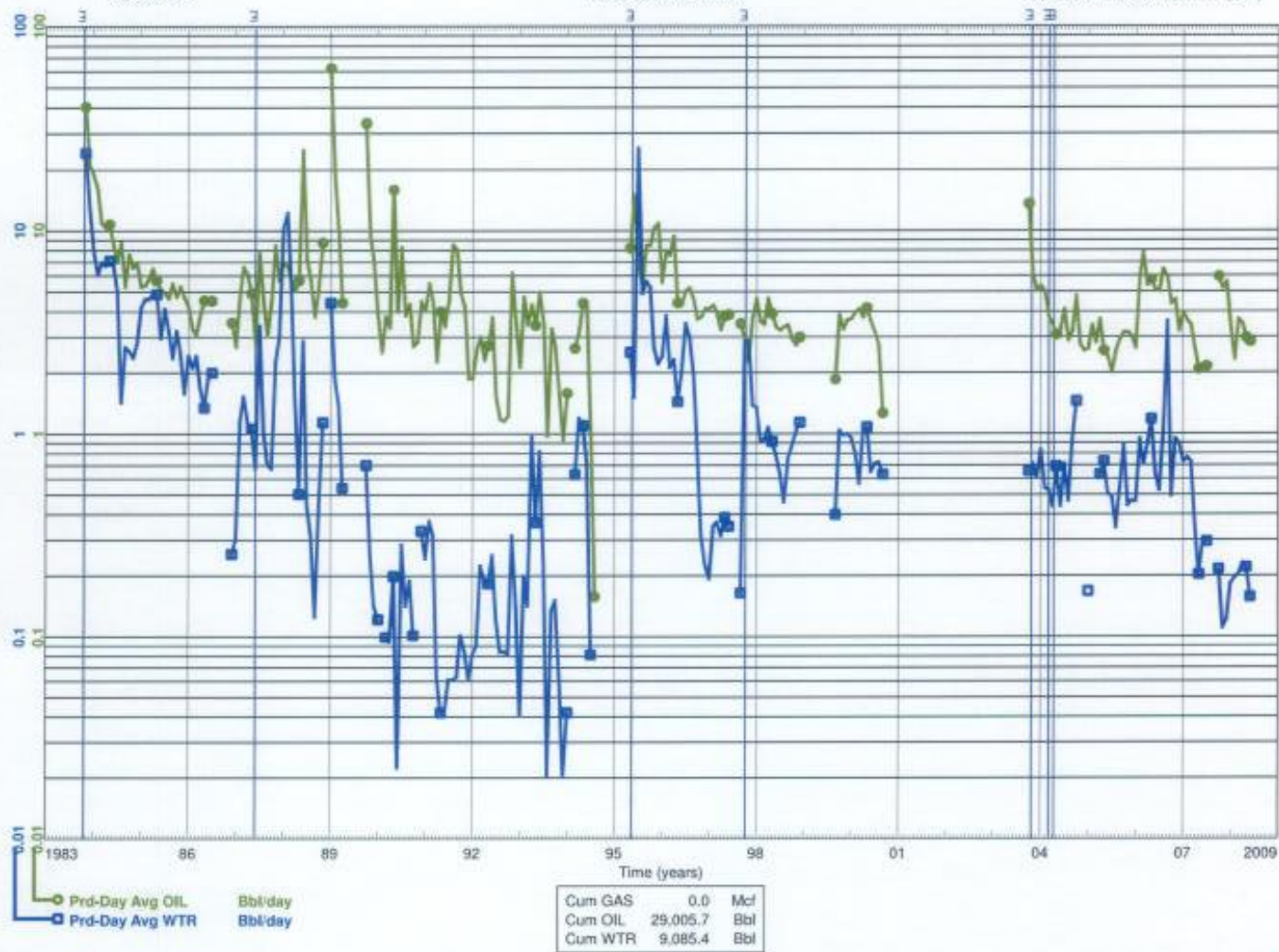
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1983-11
 To: 2008-06

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5
 100/08-02-002-26W1/00

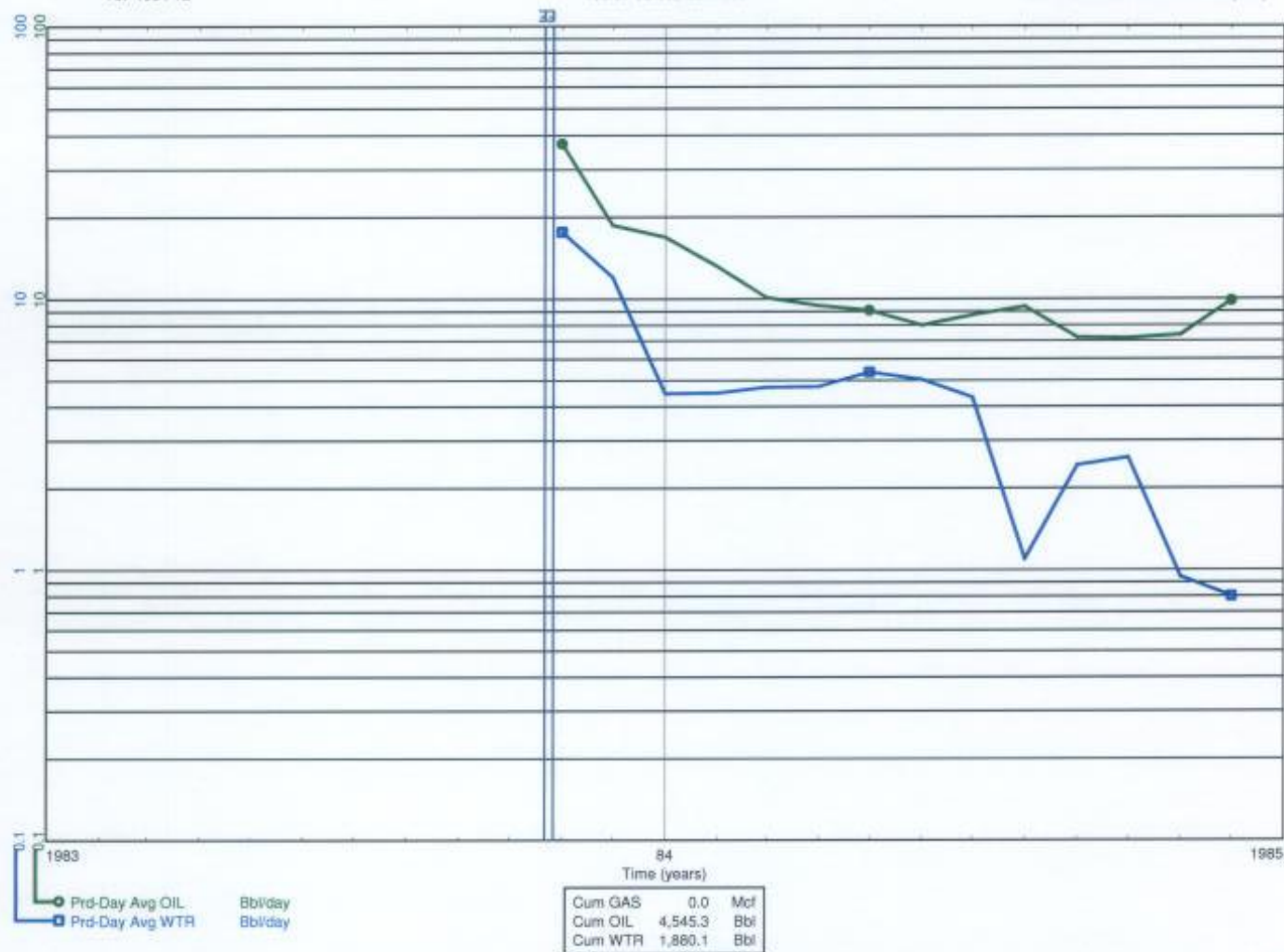
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1983-11
 To: 1984-12

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 W/W
 100/07-02-002-26W1/00

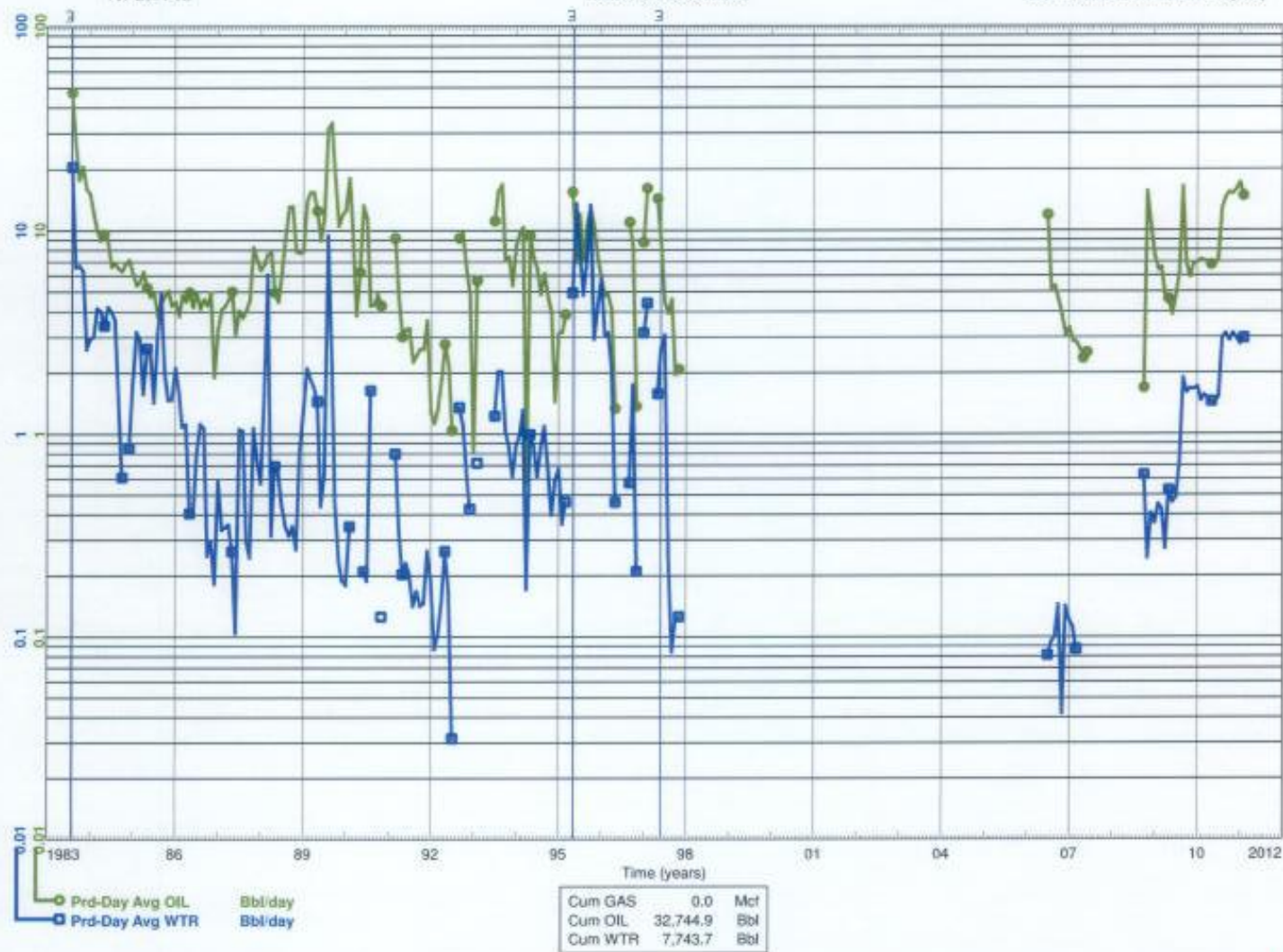
Status: Water Inj Well
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1983-08
 To: 2011-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5
 100/06-02-002-25W1/00

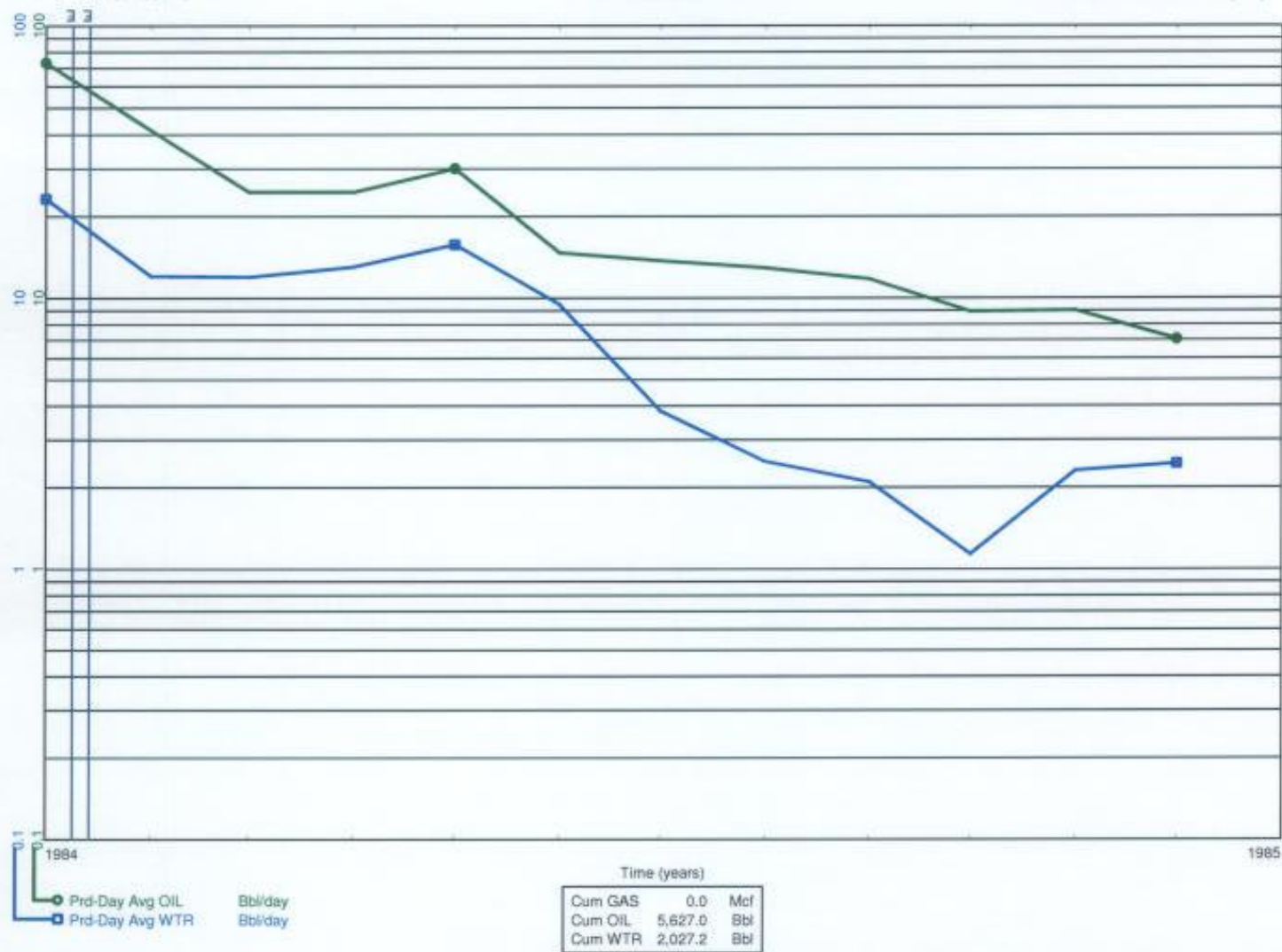
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1984-01
 To: 1984-12

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 WIW
 100/05-02-002-26W1/00

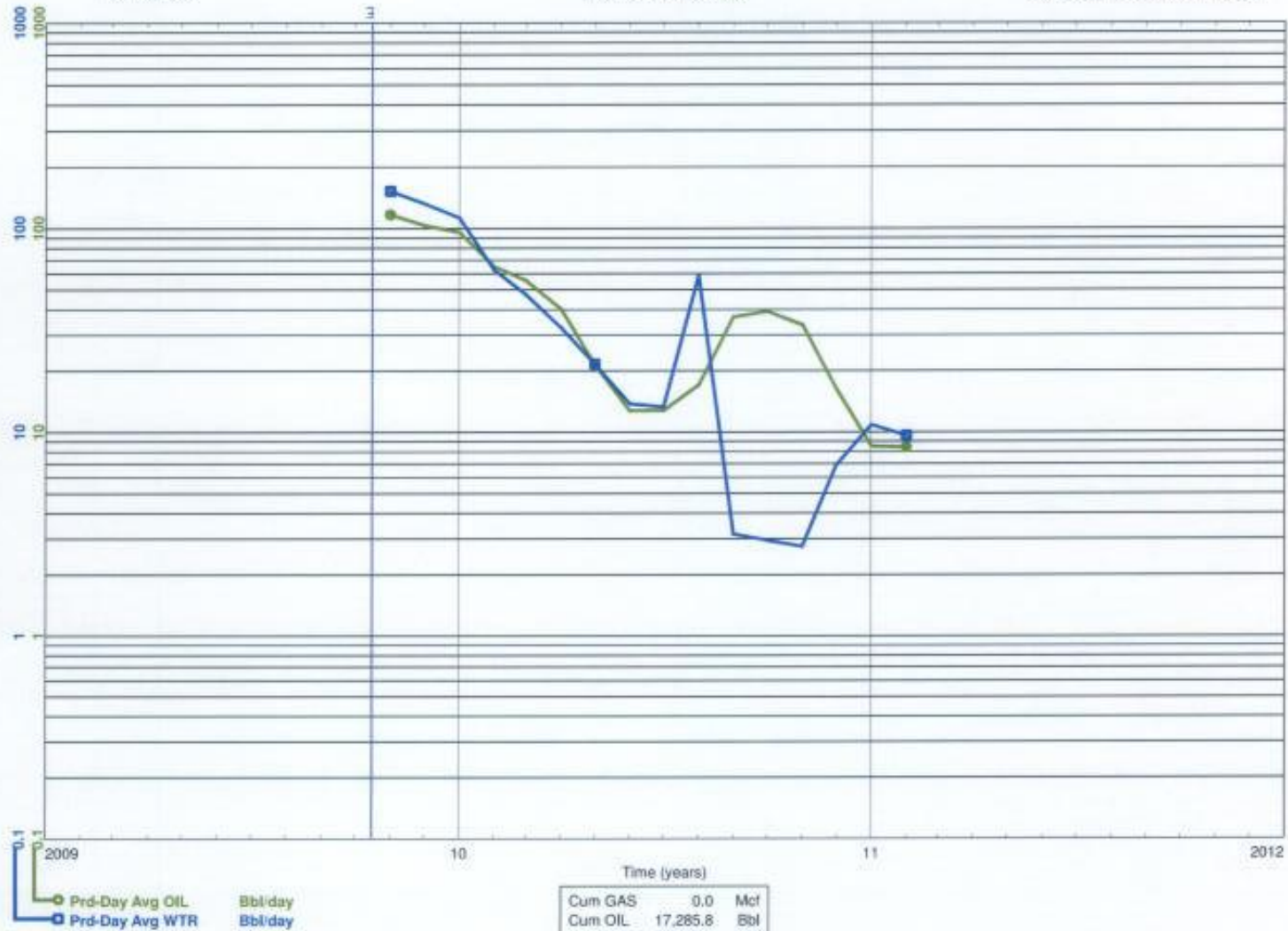
Status: Water Inj Well
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 2009-11
 To: 2011-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 HZNTL
 103/04-02-002-26W1/00

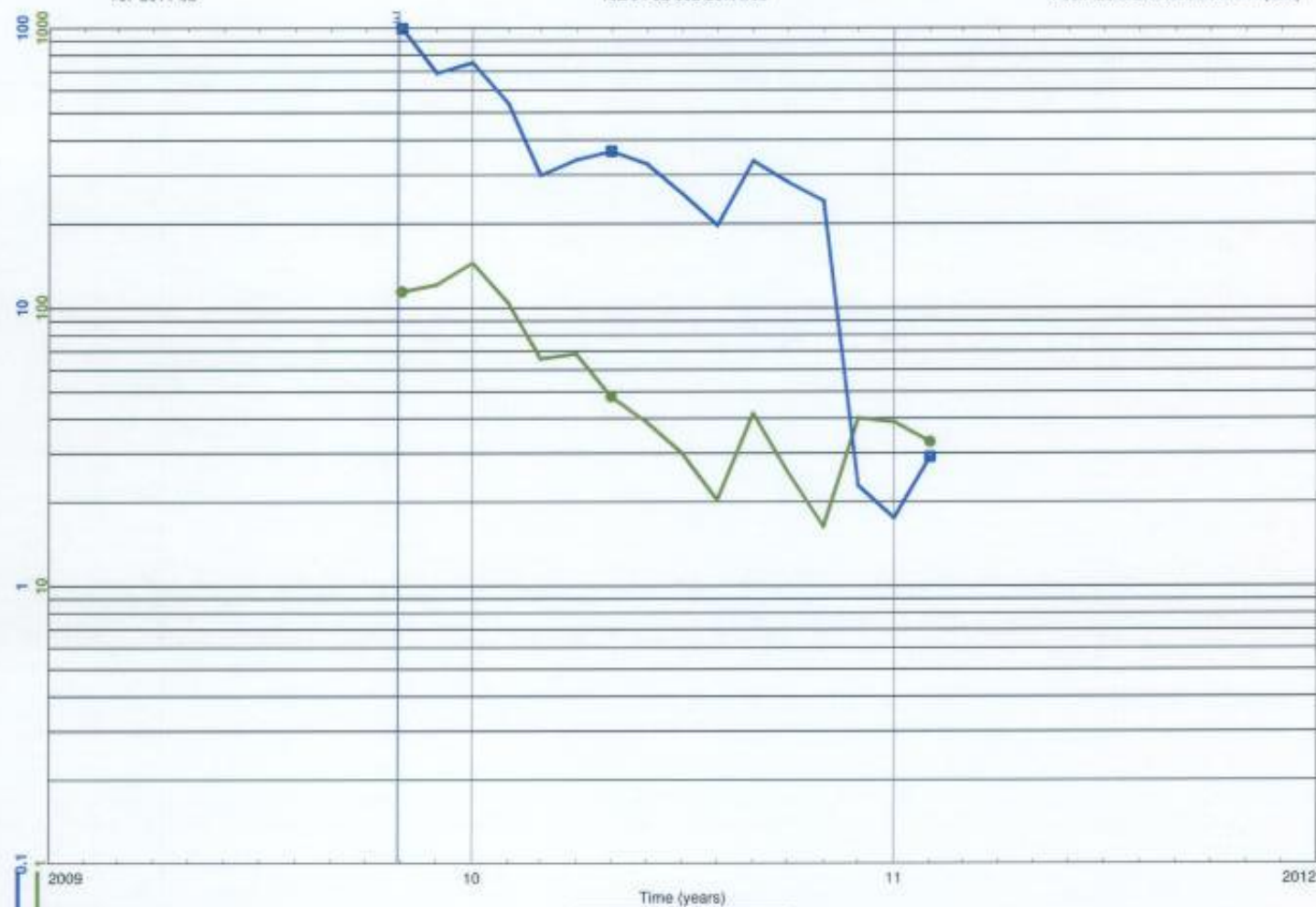
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 2009-11
 To: 2011-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 HZNTL
 102/04-02-002-26W1/00

Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)

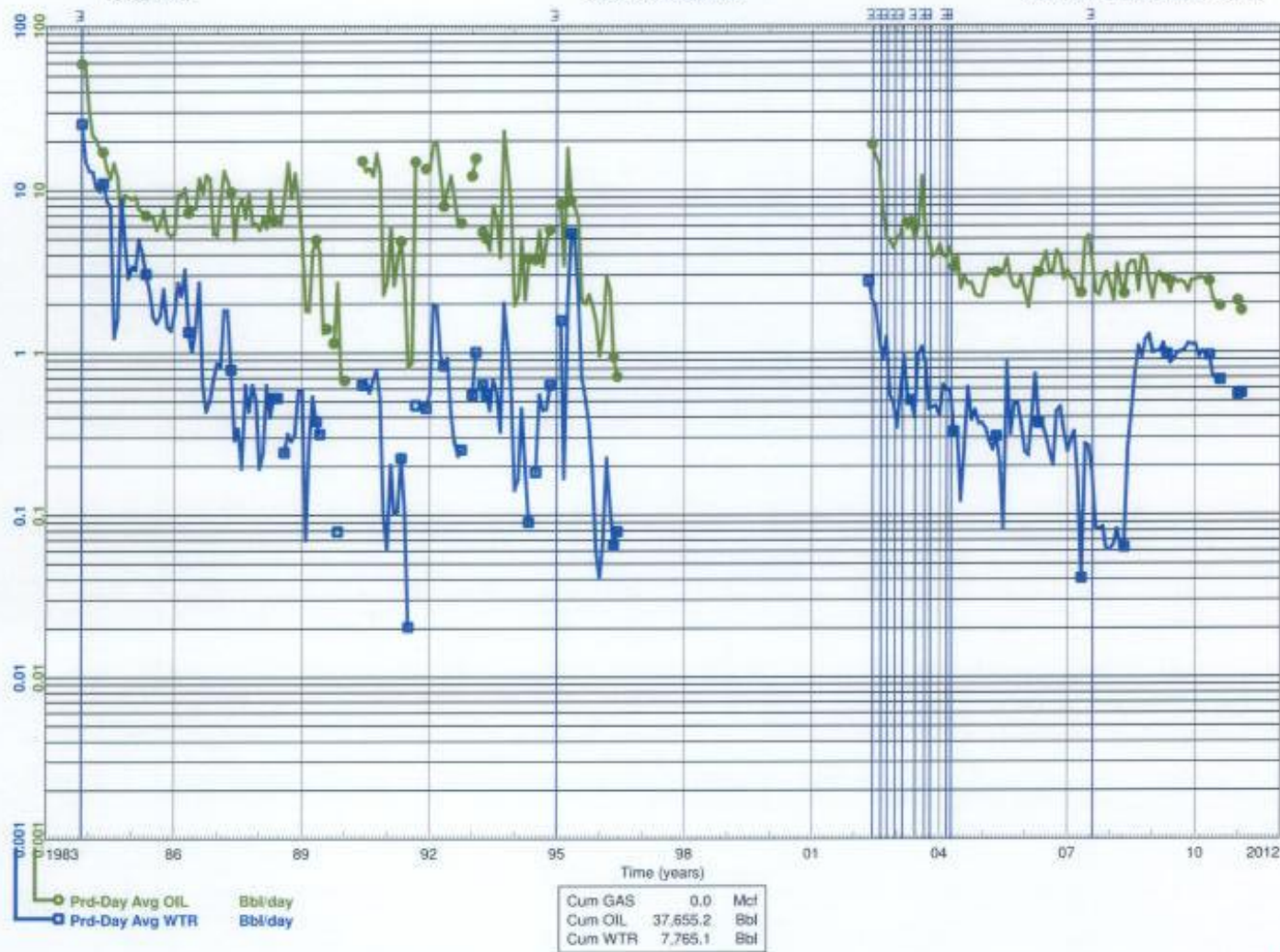


Cum GAS	0.0	Mcf
Cum OIL	25,269.6	Bbl
Cum WTR	14,382.3	Bbl

Data As Of: 2011-02 (MB)
 From: 1983-11
 To: 2011-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5
 100/04-02-002-26W1/00

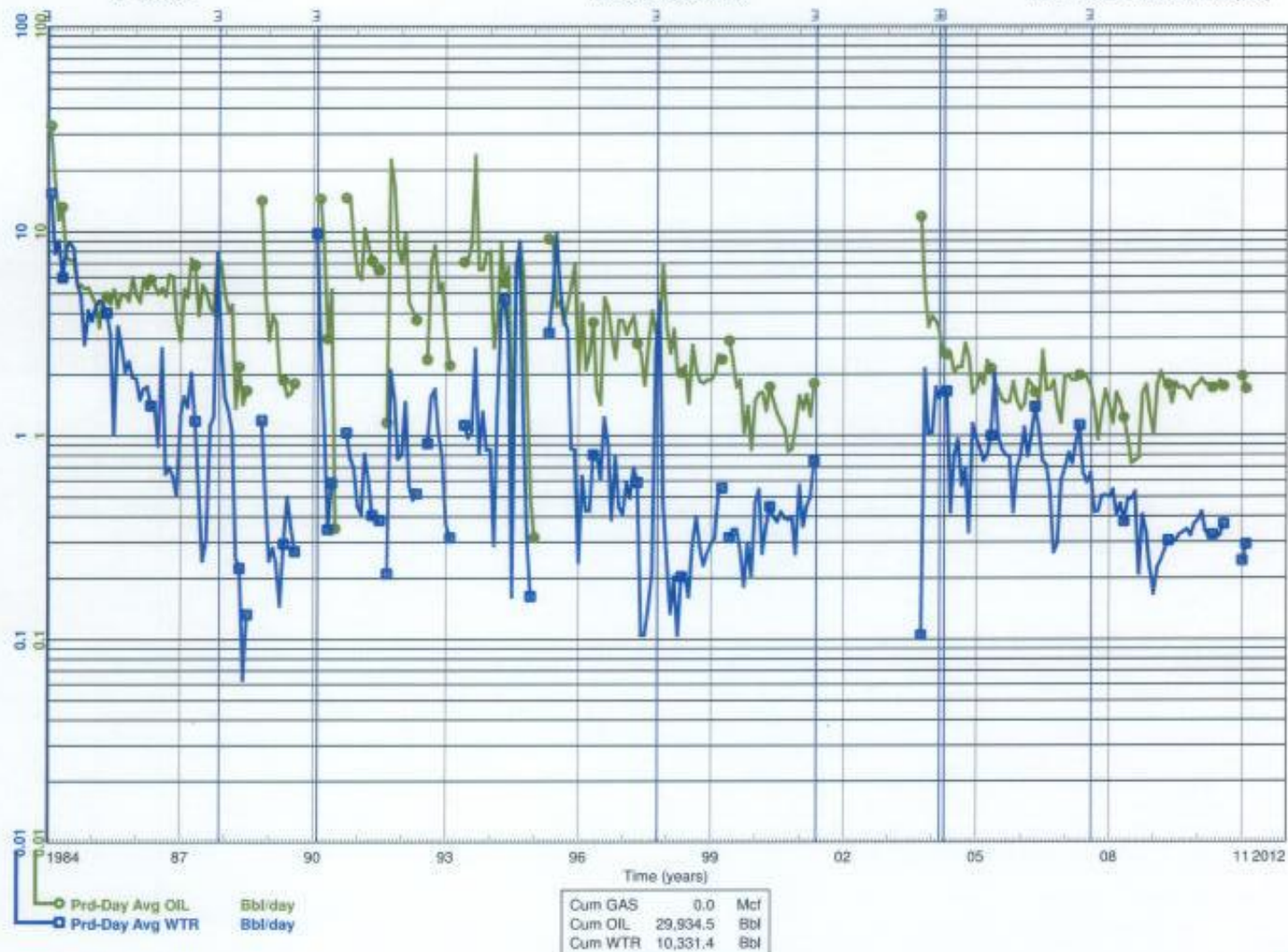
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
From: 1984-02
To: 2011-02

INDIVIDUAL PRODUCTION
Waskada Unit No. 5
100/03-02-002-26W1/00

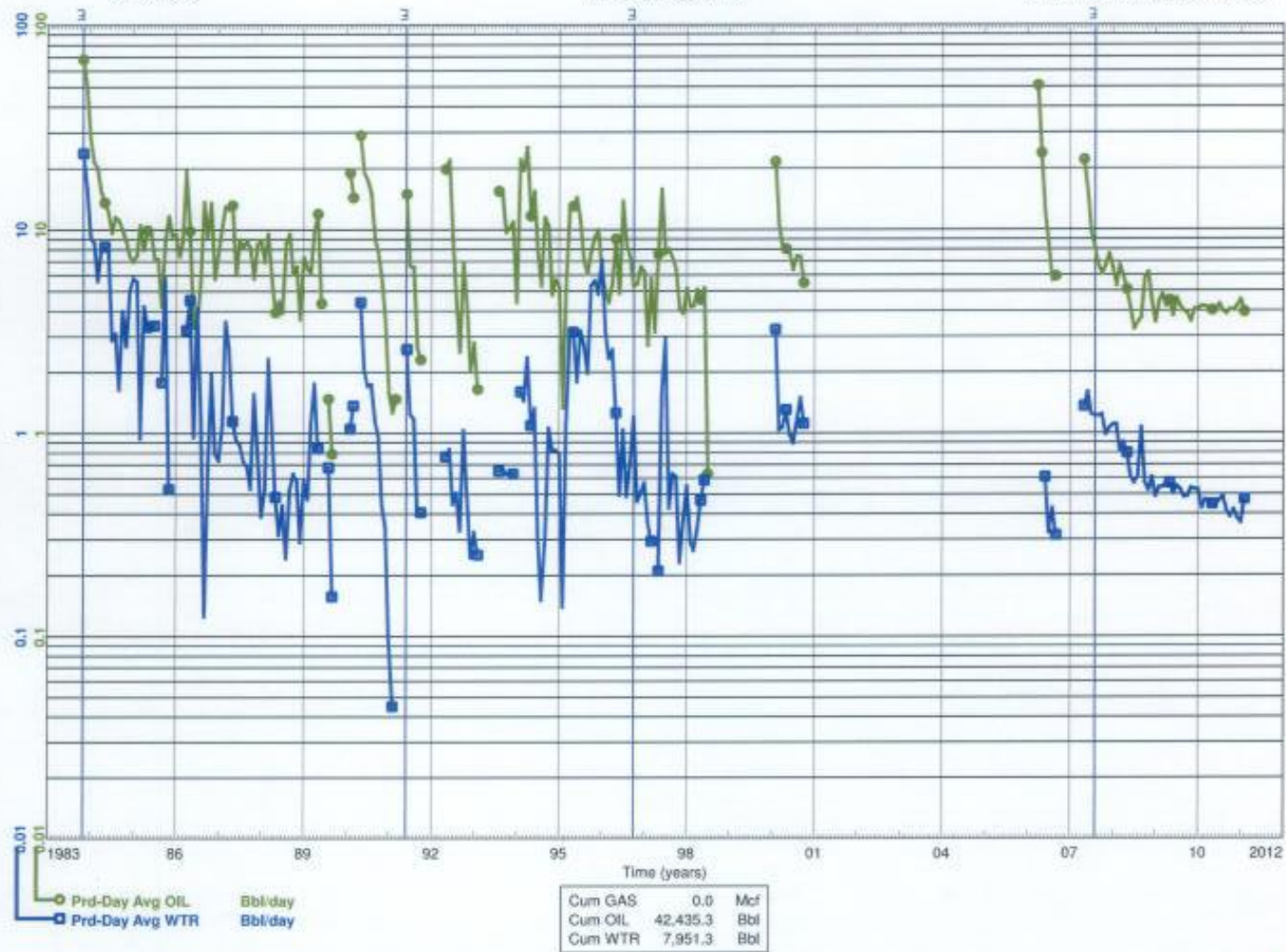
Status: Capable Of Oil Prod
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1983-11
 To: 2011-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5
 100/02-02-002-26W1/00

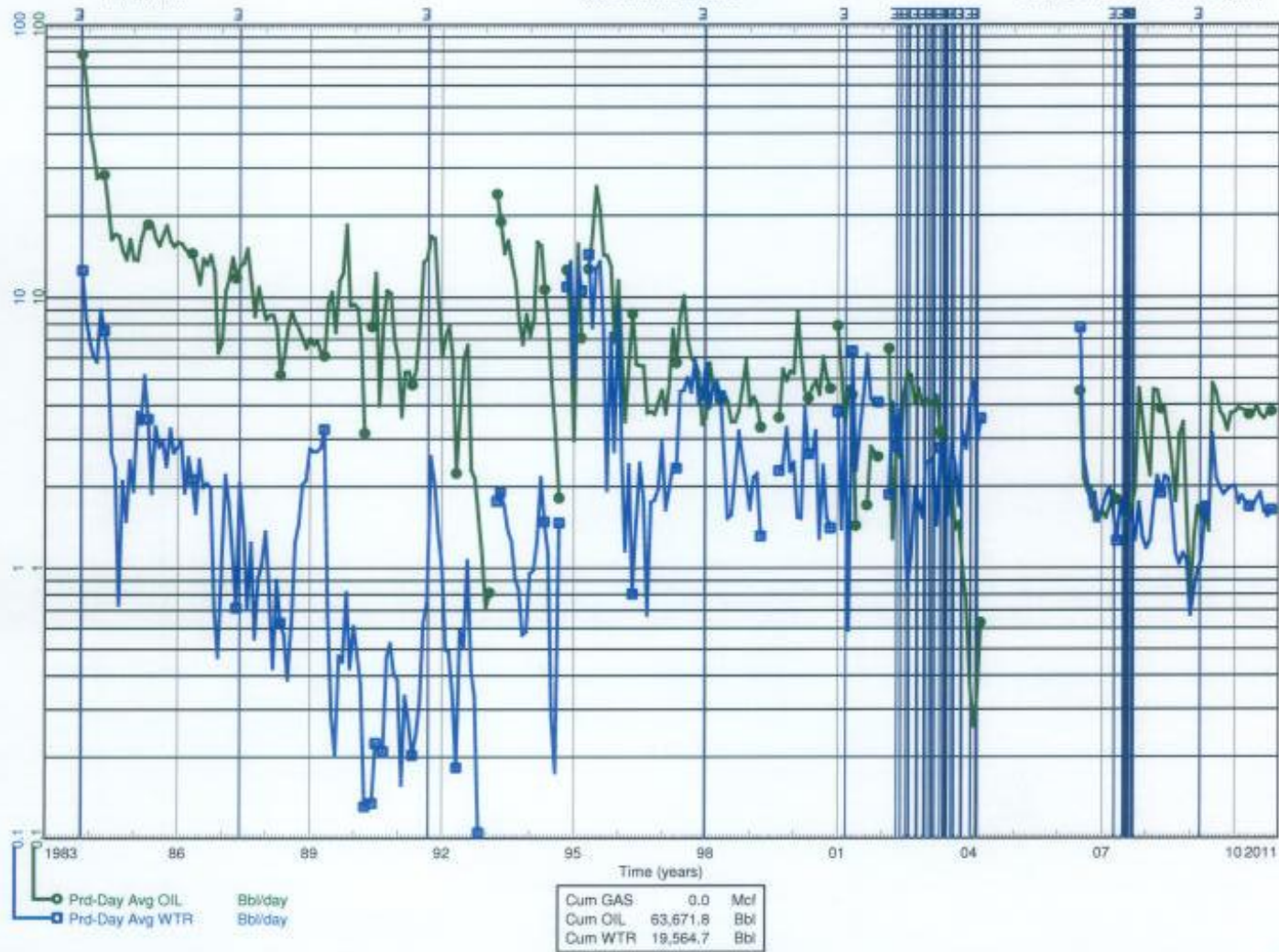
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1983-11
 To: 2010-11

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5
 100/01-02-002-26W1/00

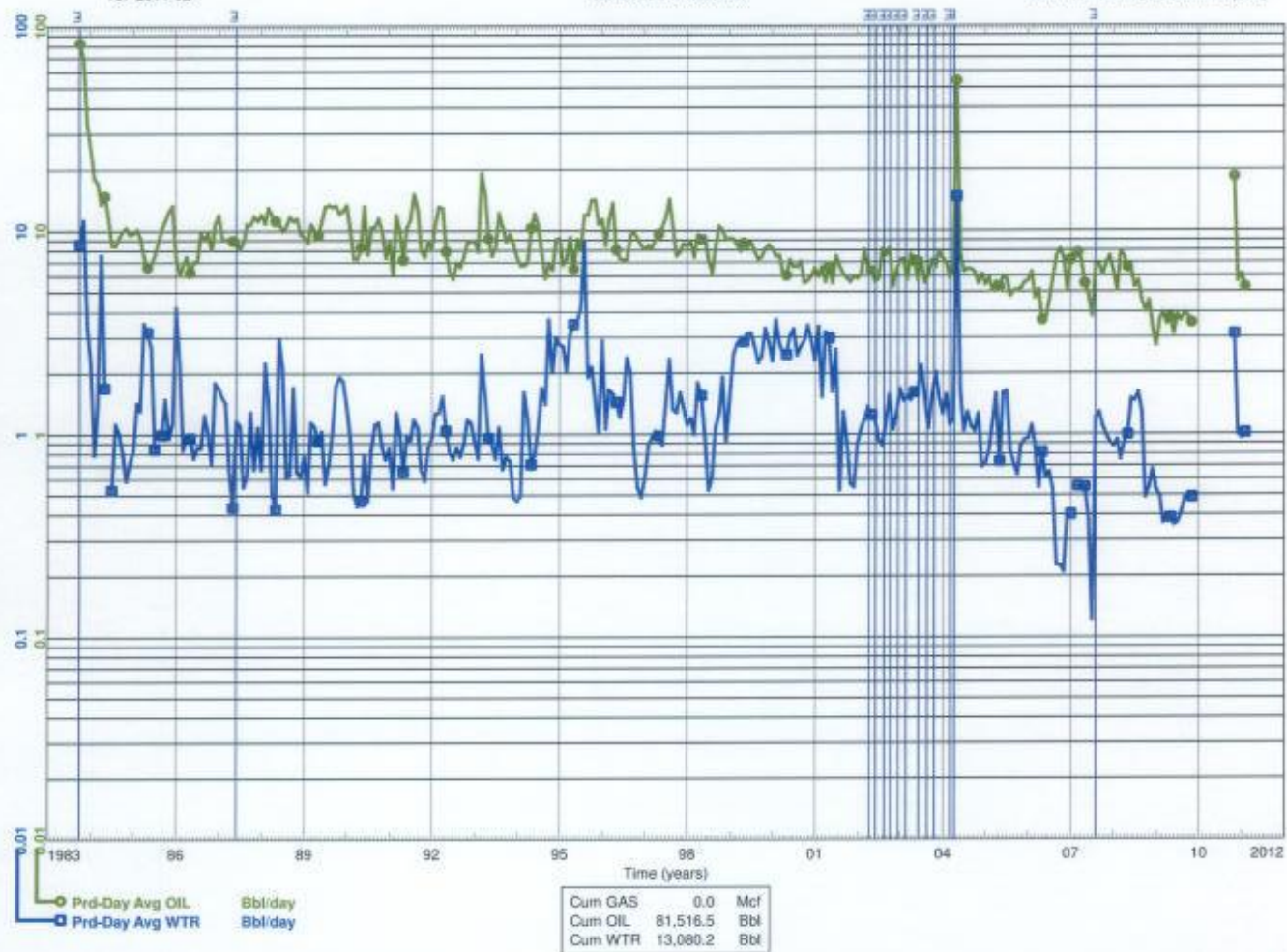
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1983-10
 To: 2011-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5
 100/16-35-001-26W1/00

Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



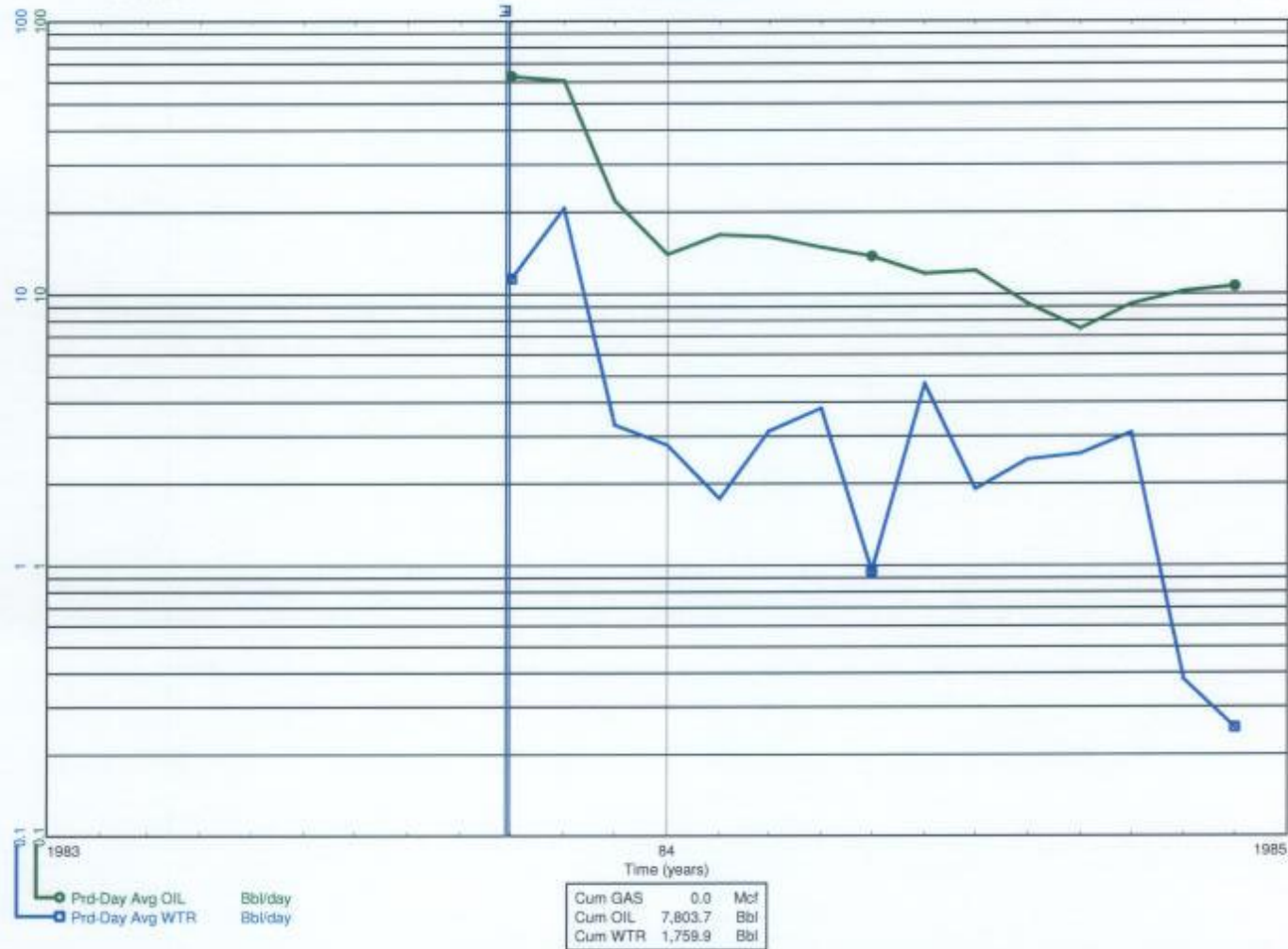
Tuesday, April 26, 2011, 01:11 PM

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Data As Of: 2010-11 (MB)
 From: 1983-10
 To: 1984-12

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 WIW
 100/15-35-001-26W1/00

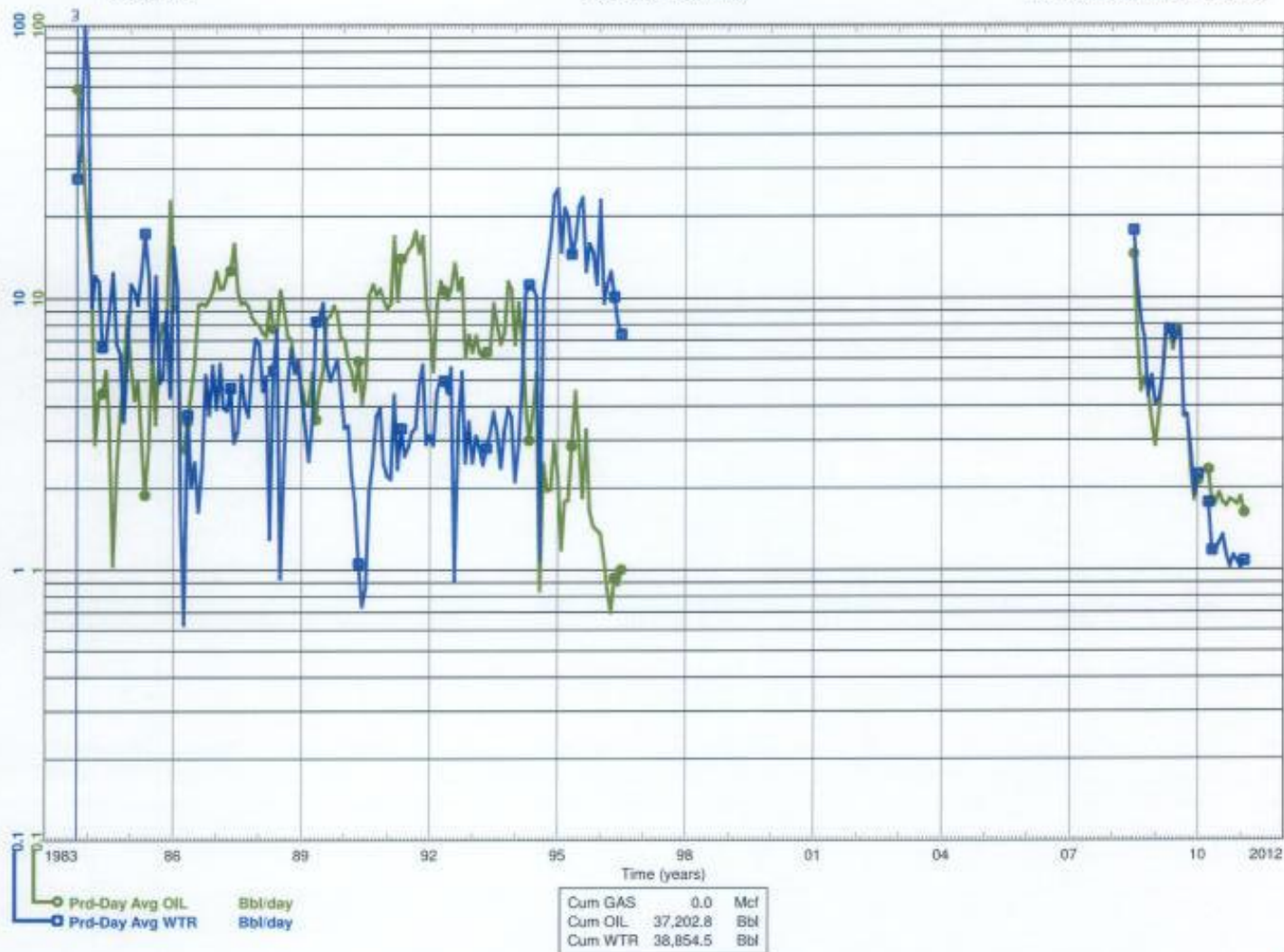
Status: Water Inj Well
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
From: 1983-10
To: 2011-02

INDIVIDUAL PRODUCTION
Waskada Unit No. 5
100/14-35-001-26W1/02

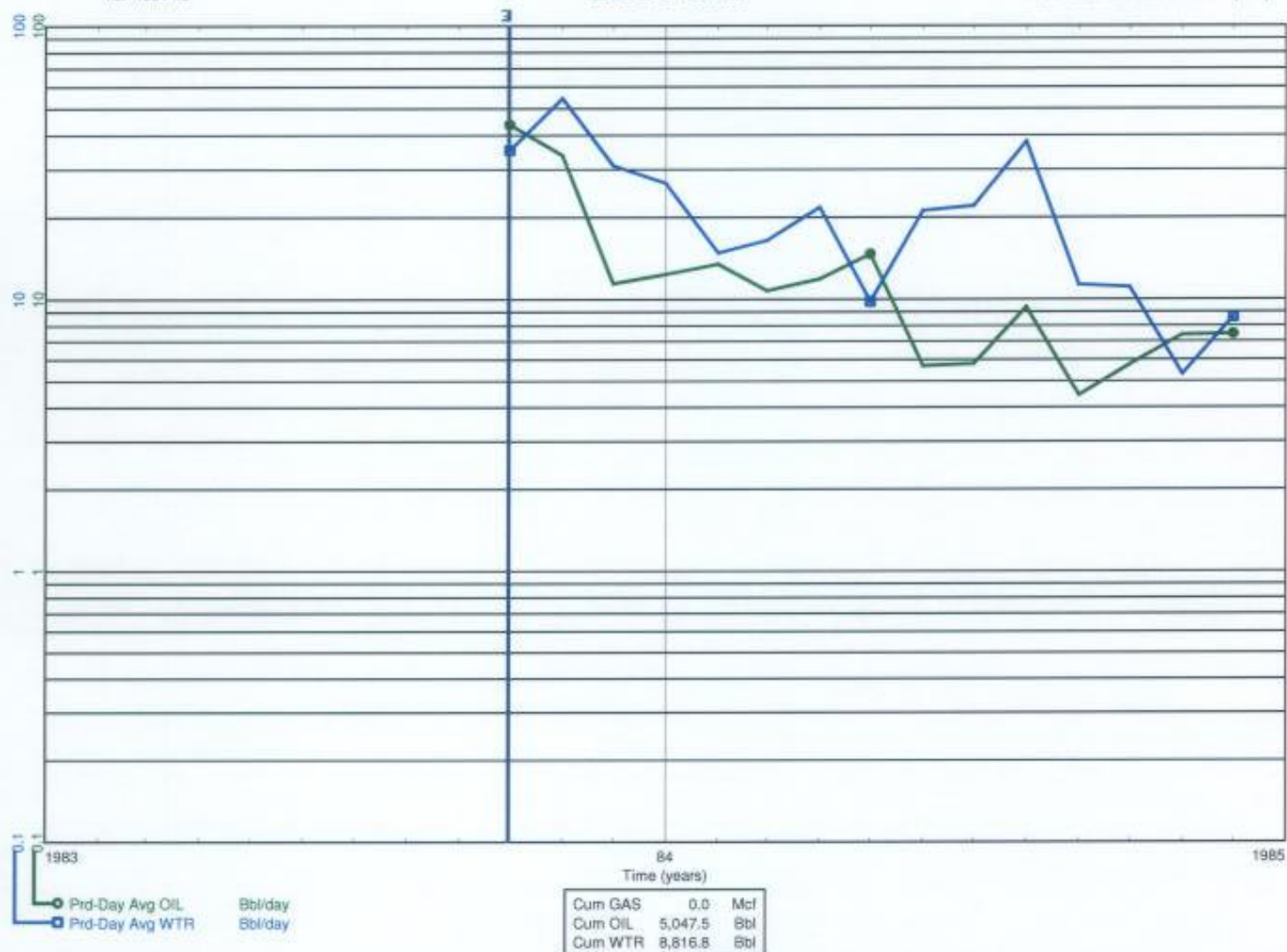
Status: Capable Of Oil Prod
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
From: 1983-10
To: 1984-12

INDIVIDUAL PRODUCTION
Waskada Unit No. 5 WIW
100/13-35-001-26W1/00

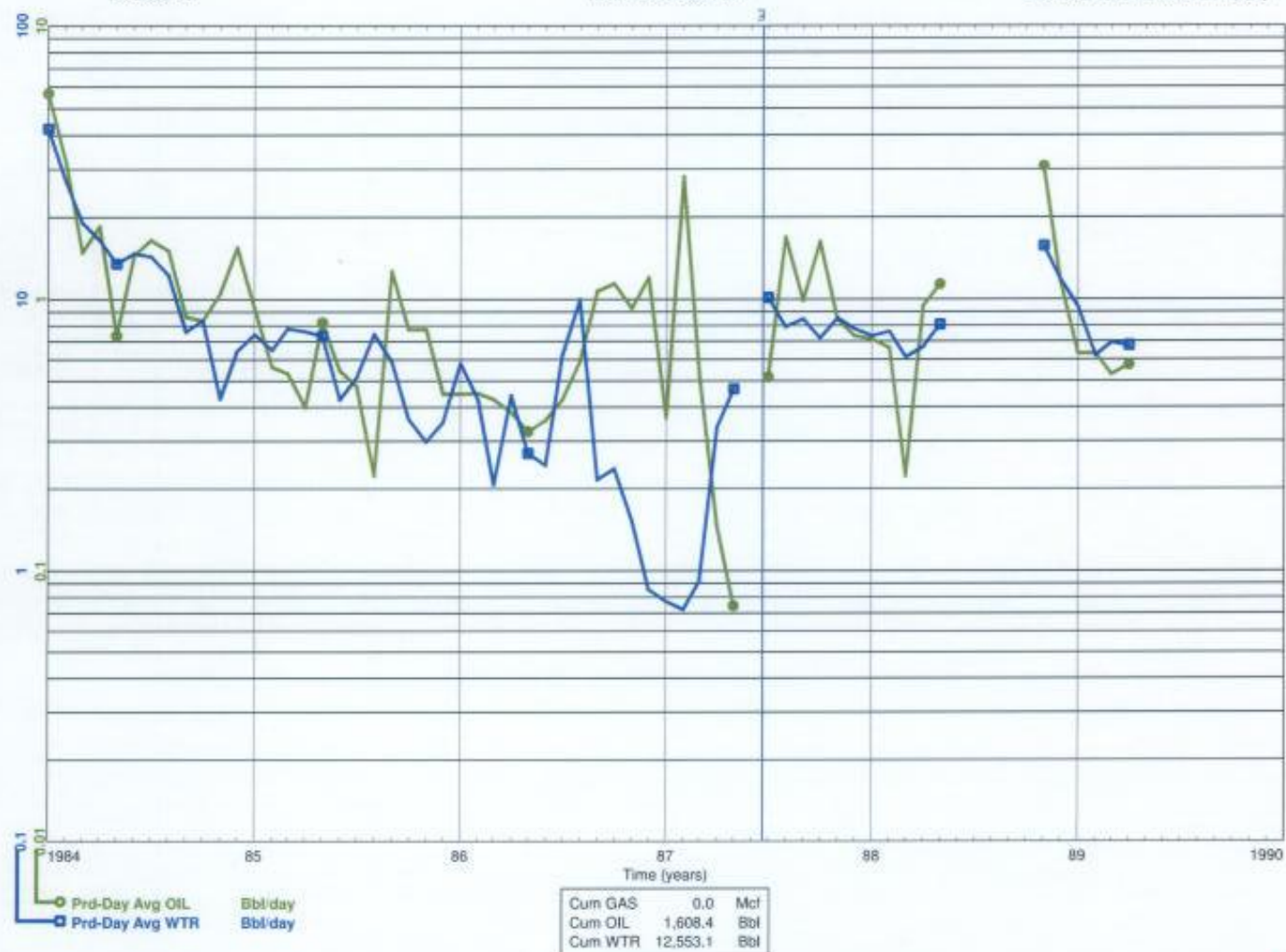
Status: Water Inj Well
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1984-01
 To: 1989-04

INDIVIDUAL PRODUCTION
 Omega-Ghevron-Waskada™
 100/16-34-001-26W1/00

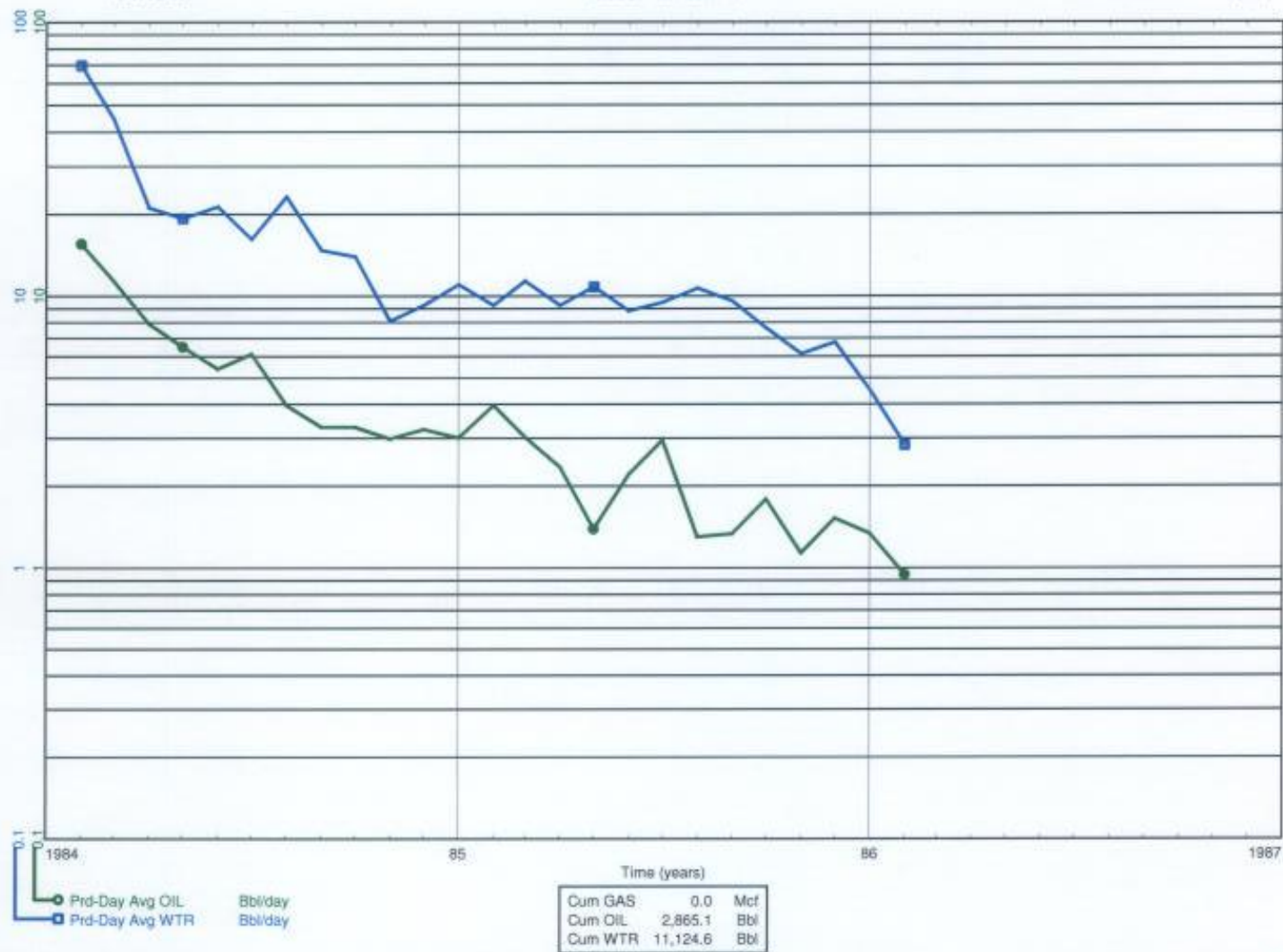
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1984-02
 To: 1986-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 WIW
 100/15-34-001-26W1/00

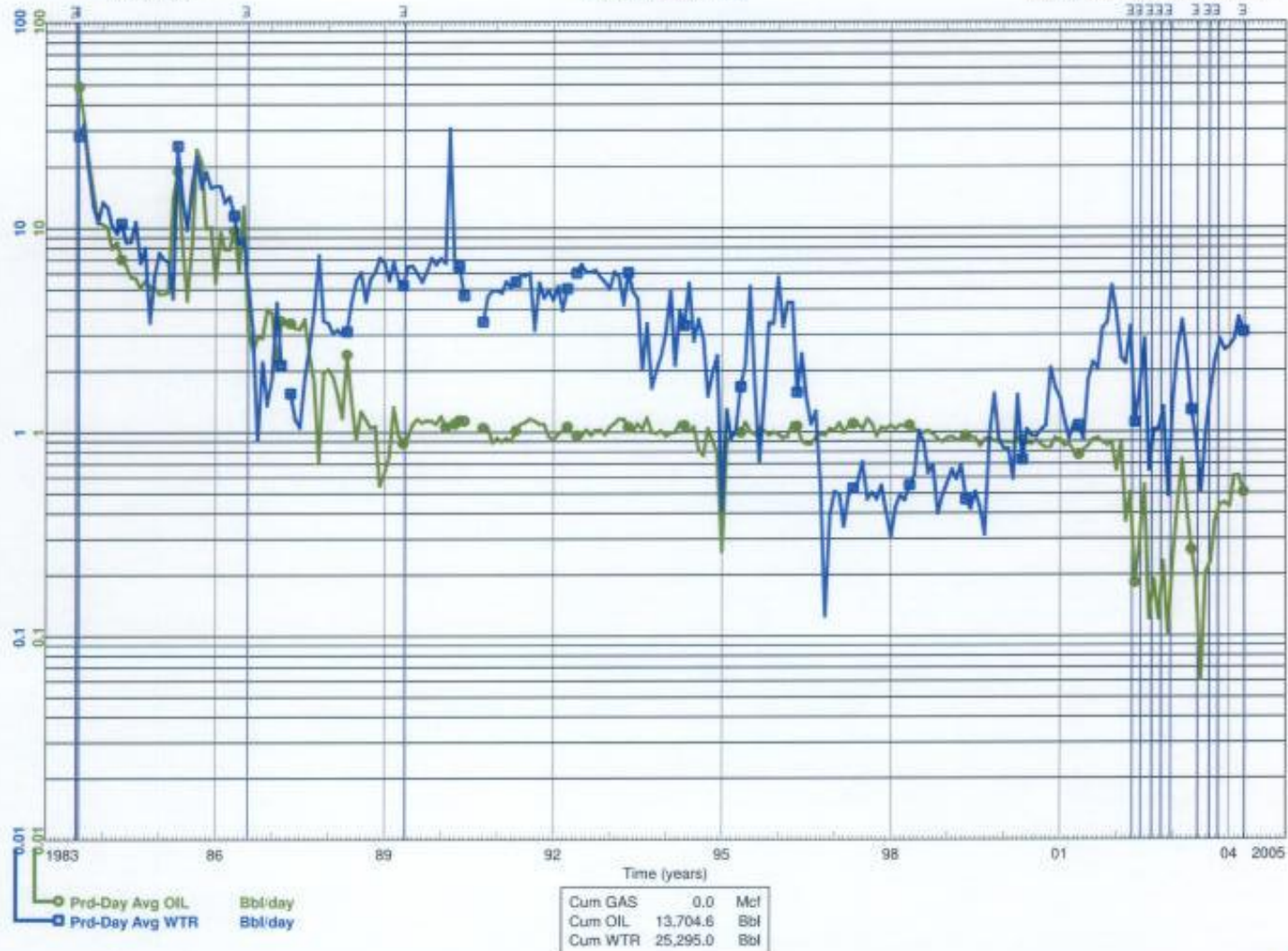
Status: W/W - Suspended
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1983-08
 To: 2004-04

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 COM
 100/14-34-001-26W1/02

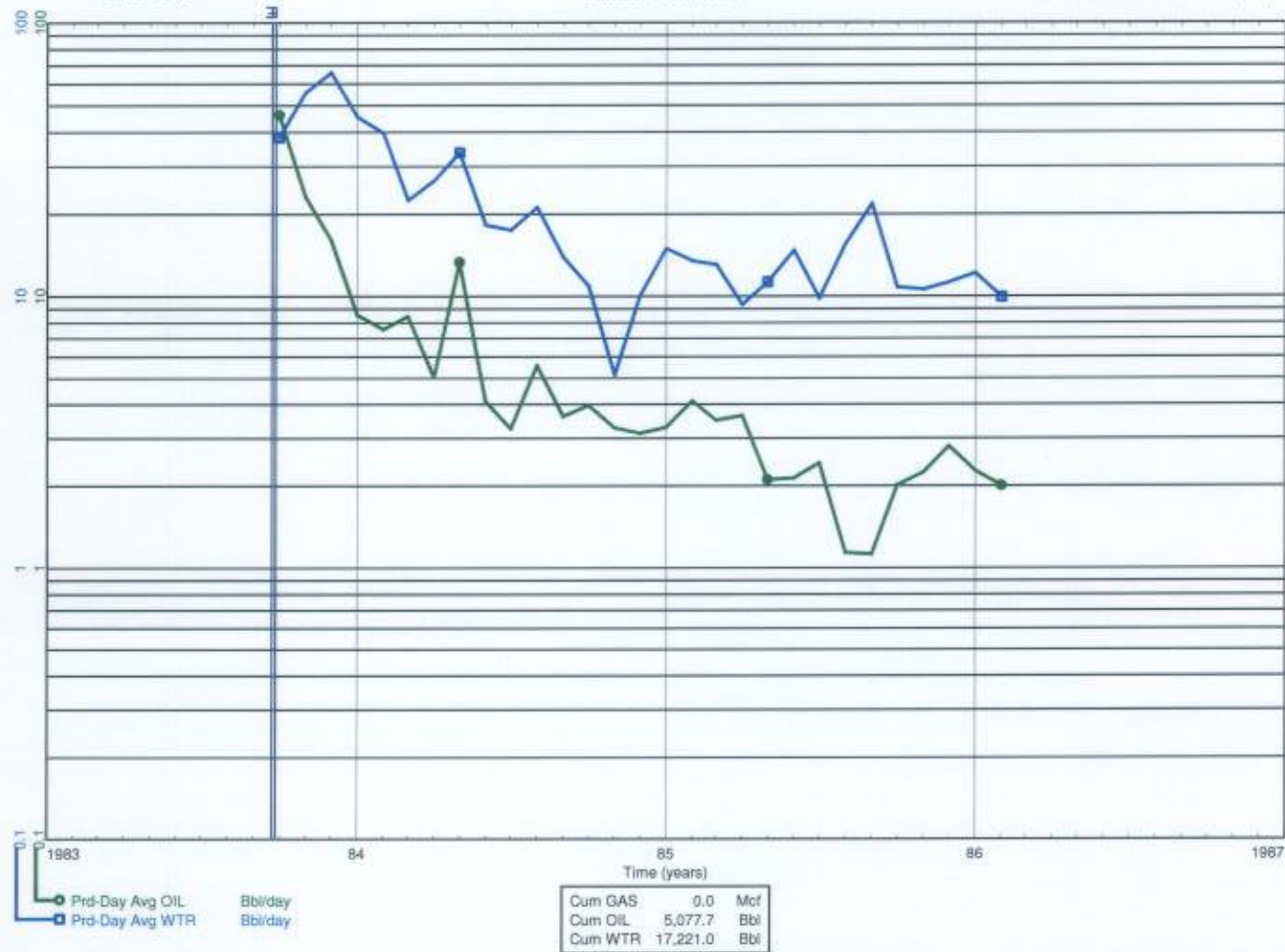
Status: Comingled
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1983-10
 To: 1986-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 WIW
 100/13-34-001-26W1/00

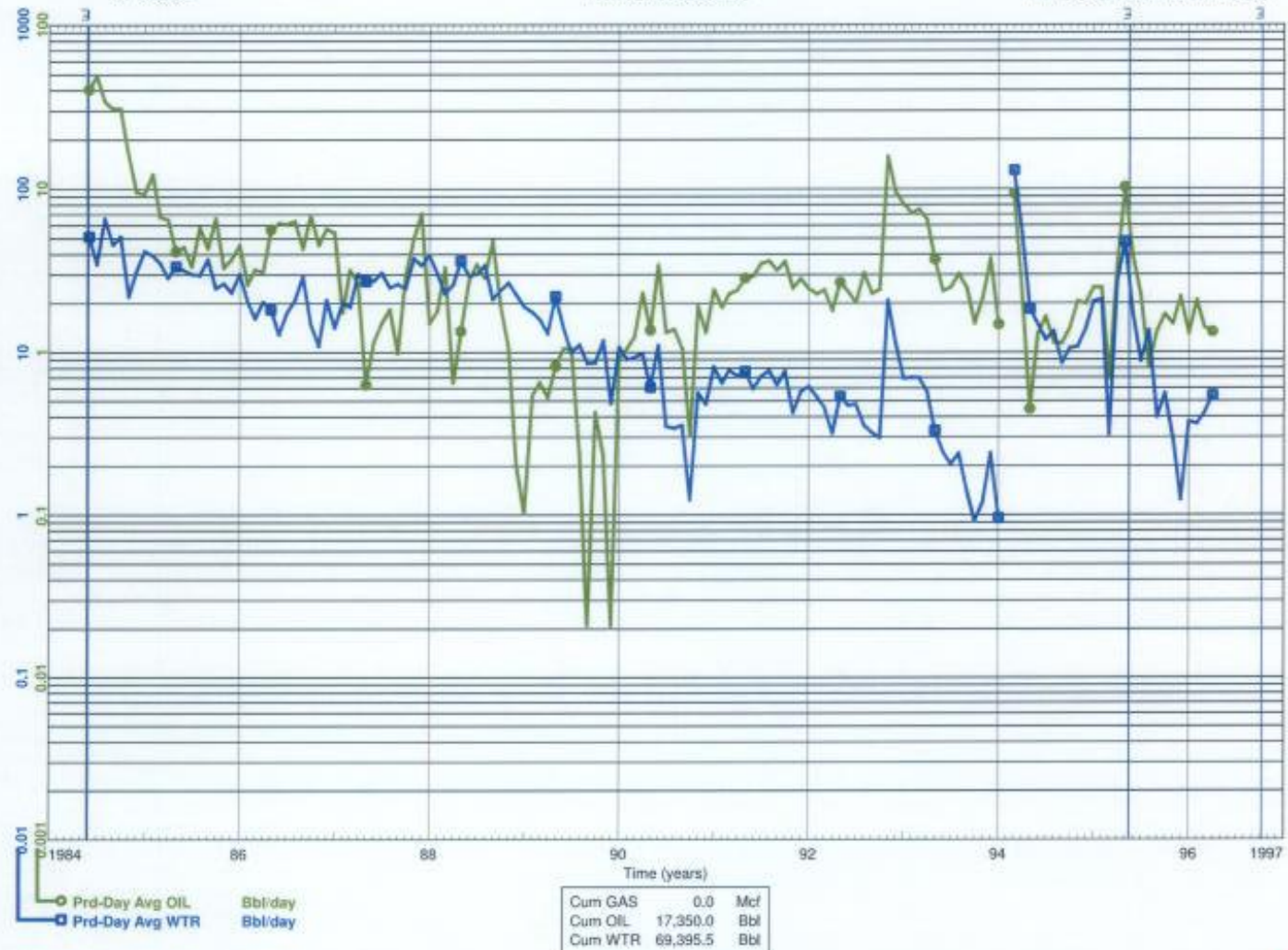
Status: Water Inj Well
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1984-06
 To: 1996-04

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5
 100/12-34-001-28W1/02

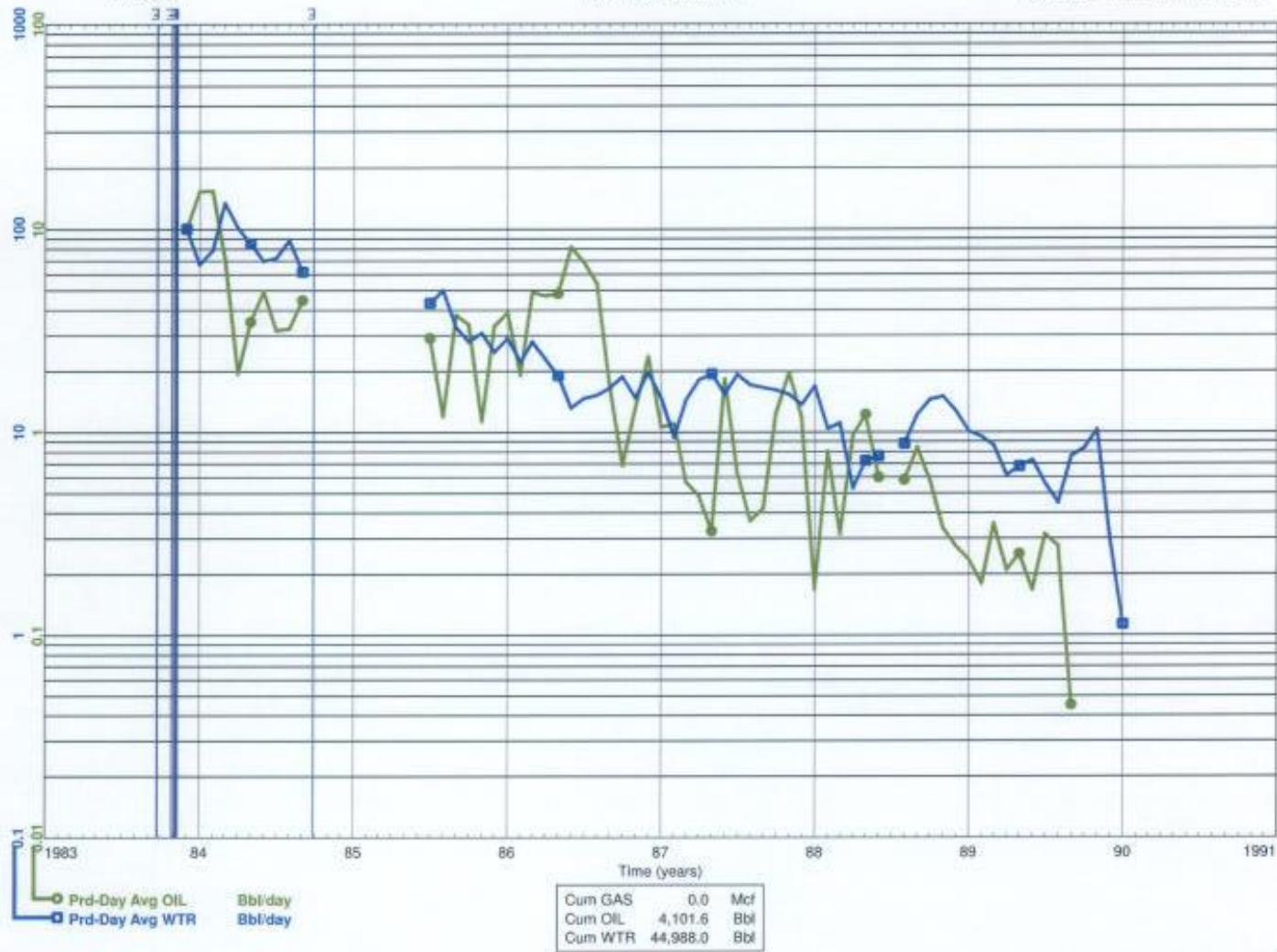
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1983-12
 To: 1990-01

INDIVIDUAL PRODUCTION
 Omega-Chevron-Waskada
 102/10-34-001-25W1/00

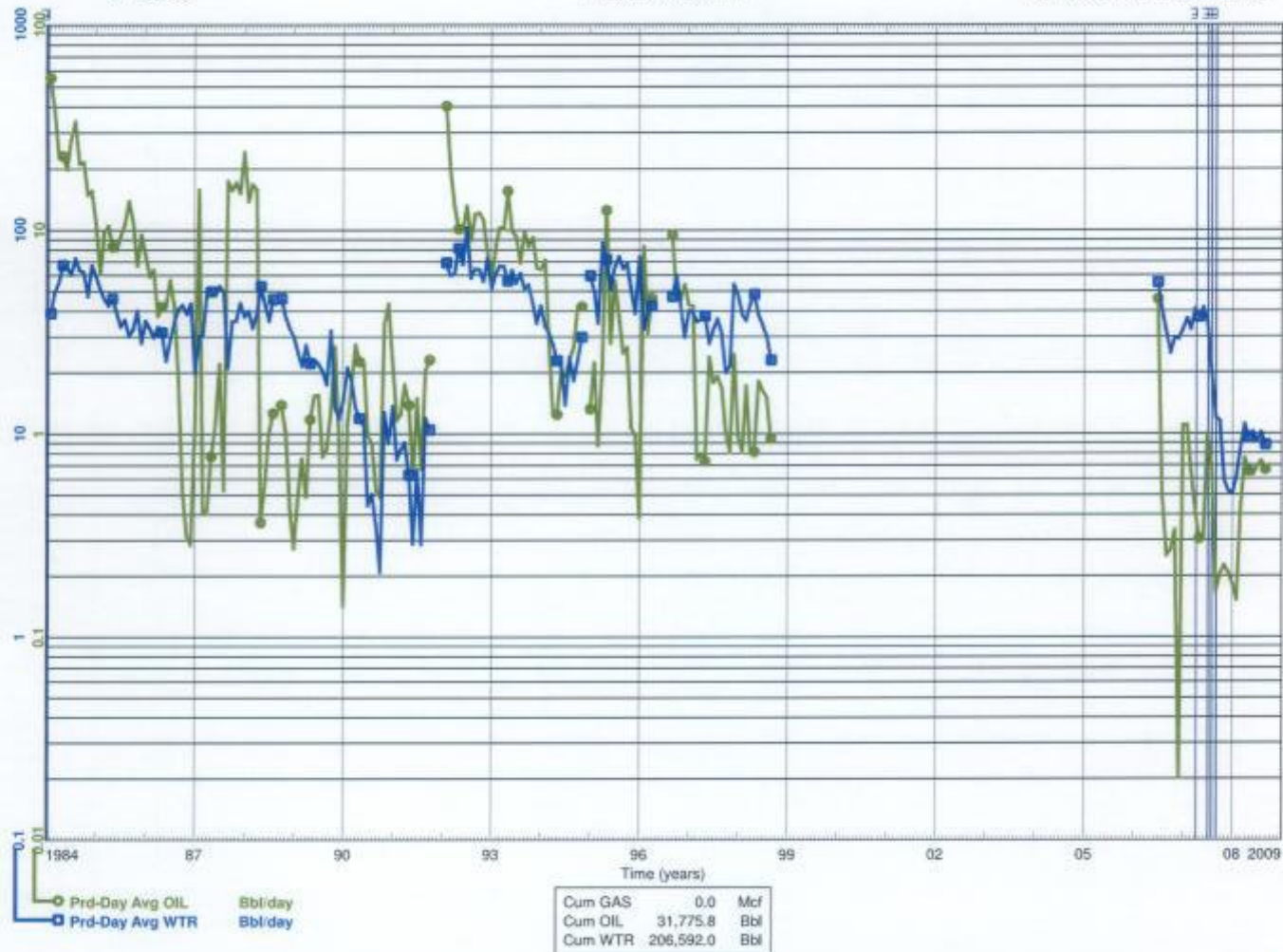
Status: Abandoned Producer
 Field: WASKADA (D3)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
From: 1984-02
To: 2008-09

INDIVIDUAL PRODUCTION
Waskada Unit No. 5
100/06-34-001-26W1/00

Status: Capable Of Oil Prod
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)

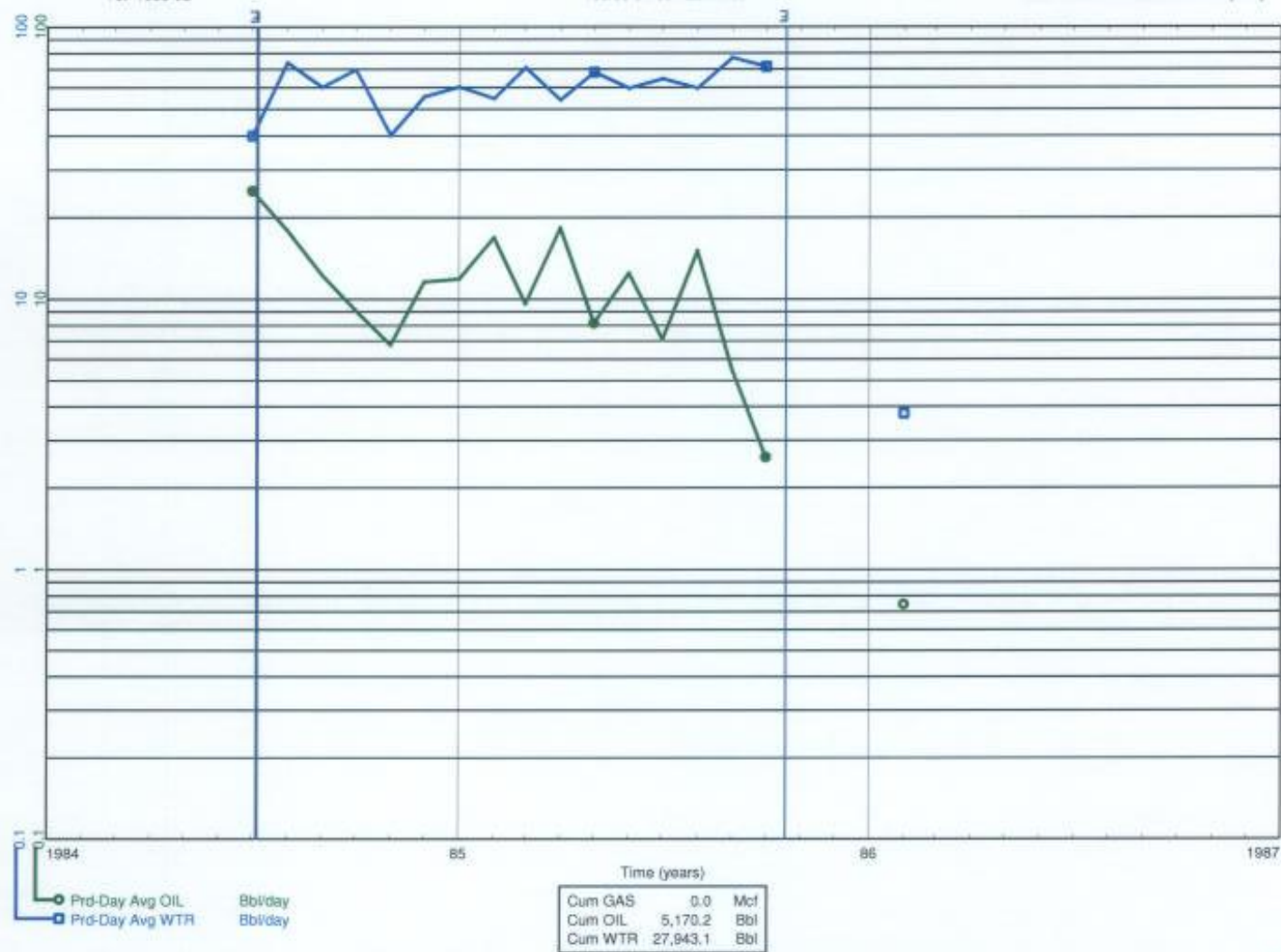


Tuesday, April 26, 2011, 01:04 PM

Data As Of: 2010-11 (MB)
 From: 1984-07
 To: 1986-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 5 WW
 100/05-34-001-26W1/00

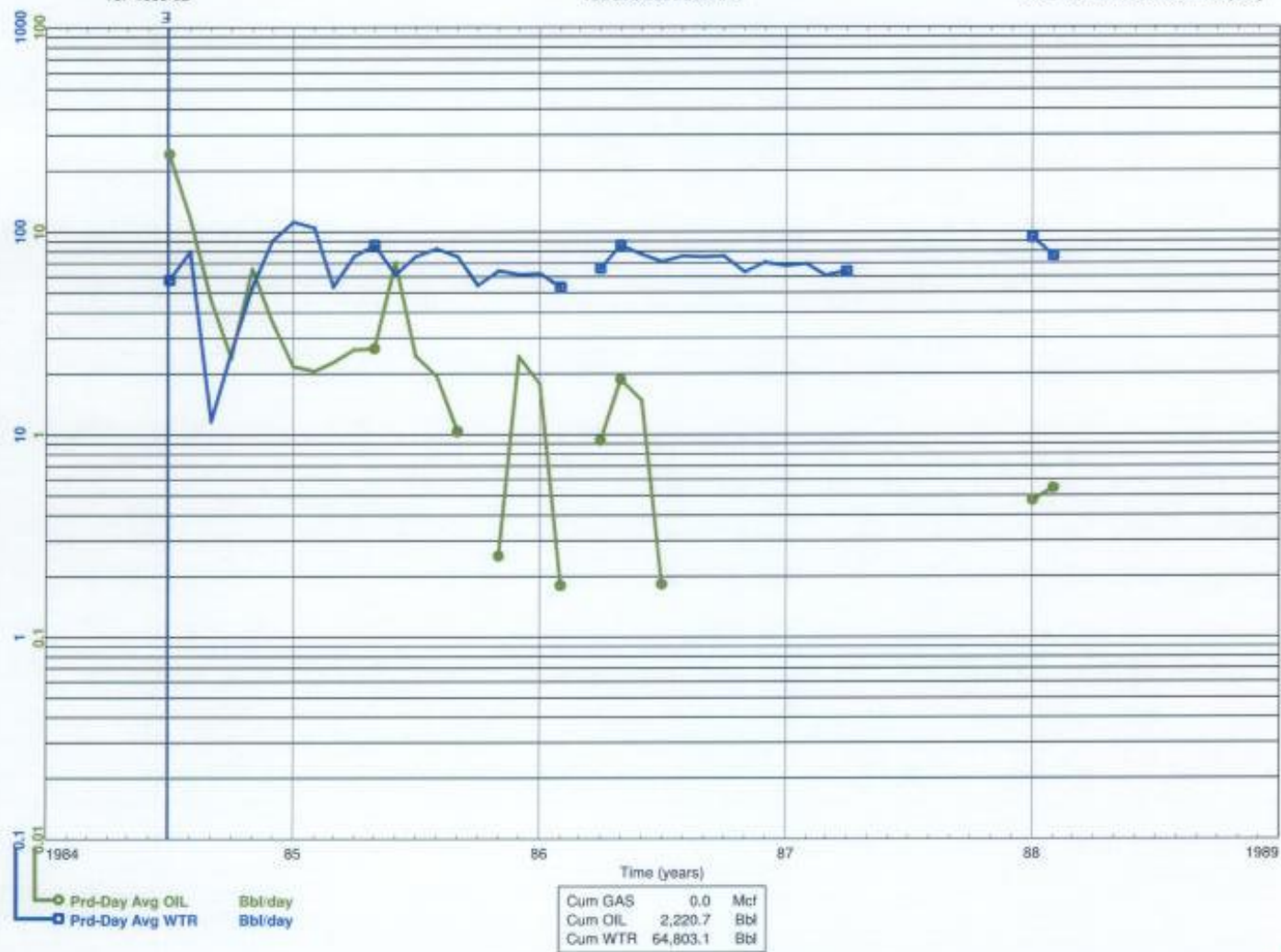
Status: Water Inj Well
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (M8)
 From: 1984-07
 To: 1988-02

INDIVIDUAL PRODUCTION
 -Omega-Waskada-
 100/04-34-001-25W1/00

Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-02 (MB)
 From: 1981-06
 To: 1989-12

INDIVIDUAL PRODUCTION
 -Omega-Dalry-
 100/03-34-001-26W1/00

Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)

