

WASKADA UNIT NO. 2

WATERFLOOD PROGRESS REPORT

January 1, through December 31, 2010

PennWest Exploration

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INTRODUCTION

The WASKADA UNIT NO.2 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, 1984 Board Order; Voluntary

First Enlargement, Sept. 1, 1985 Board Order; Voluntary

Second Enlargement, Oct. 1, 1986 Board Order; Voluntary

POOL: Waskada Lower Amaranth A (03 29A)

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

Unit # 2 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 Lower Amaranth Unit #1 (Unit History)

Abbreviated Well ID	Date Well Spudded	On Prod YYYY/MM	Org Operator Name	Groun d Elevat ion (m)	TVD (m)
00/14-22-001-26W1/0	10/28/1985	1985/11	Omega Hydcbns Ltd	460.4	959.0
00/16-22-001-26W1/0	8/7/1982		Omega Hydcbns Ltd	464.3	949.0
00/13-23-001-26W1/0	6/2/1983	1983/06	Omega Hydcbns Ltd	466.2	947.0
00/14-23-001-26W1/0	8/12/1982	1982/10	Omega Hydcbns Ltd	465.4	953.0
00/03-26-001-26W1/0	6/18/1982	1982/07	Omega Hydcbns Ltd	466.0	941.0
00/04-26-001-26W1/0	7/17/1982	1982/10	Omega Hydcbns Ltd	465.2	947.0
00/05-26-001-26W1/0	6/14/1982	1982/07	Omega Hydcbns Ltd	464.6	955.0
00/06-26-001-26W1/0	2/23/1982	1982/06	Omega Hydcbns Ltd	465.8	948.0
00/11-26-001-26W1/0	6/9/1982	1982/07	Omega Hydcbns Ltd	466.5	941.0
02/12-26-001-26W1/0	6/10/1983	1983/06	Omega Hydcbns Ltd	465.7	947.0
00/13-26-001-26W1/0	12/14/1982	1983/03	Omega Hydcbns Ltd	464.7	950.0
00/14-26-001-26W1/0	6/26/1982	1982/07	Omega Hydcbns Ltd	465.9	954.0
00/01-27-001-26W1/0	11/15/1982	1982/12	Omega Hydcbns Ltd	462.0	955.0

00/02-27-001-26W1/0	8/20/1982	1982/11	Omega Hydcbns Ltd	461.9	956.0
00/03-27-001-26W1/0	10/25/1982	1983/03	Omega Hydcbns Ltd	461.3	950.0
02/03-27-001-26W1/2	7/1/1983	1988/11	Omega Hydcbns Ltd	461.8	947.0
00/04-27-001-26W1/0	12/4/1982	1983/02	Omega Hydcbns Ltd	459.8	954.0
00/05-27-001-26W1/0	9/20/1982	1982/12	Omega Hydcbns Ltd	461.5	951.8
02/05-27-001-26W1/0	1/3/2010	2010/03		464.1	909.2
02/06-27-001-26W1/0	6/18/1983	1983/07	Omega Hydcbns Ltd	463.9	948.0
00/07-27-001-26W1/0	8/23/1982	1982/12	Omega Hydcbns Ltd	462.8	955.0
00/08-27-001-26W1/0	6/22/1982	1982/08	Omega Hydcbns Ltd	464.7	955.0
00/09-27-001-26W1/0	8/24/1982	1982/12	Omega Hydcbns Ltd	463.3	951.0
02/09-27-001-26W1/2	7/5/1983	1987/03	NCE Petrofund Corp	464.2	950.0
00/10-27-001-26W1/0	8/28/1982	1982/12	Omega Hydcbns Ltd	462.5	951.0
02/11-27-001-26W1/0	6/27/1983	1983/08	Omega Hydcbns Ltd	464.2	948.0
00/12-27-001-26W1/0	8/27/1982	1982/11	Omega Hydcbns Ltd	461.5	948.0
02/13-27-001-26W1/0	6/19/1983	1983/07	Omega Hydcbns Ltd	461.5	948.0
02/14-27-001-26W1/0	6/23/1983	1983/08	Omega Hydcbns Ltd	463.5	946.0
02/15-27-001-26W1/0	6/2/1983	1983/06	Omega Hydcbns Ltd	464.3	952.0
02/16-27-001-26W1/0	6/6/1983	1983/06	Omega Hydcbns Ltd	464.1	954.0
00/02-34-001-26W1/2	3/13/1983	1983/08	Omega Hydcbns Ltd	465.0	964.0
00/08-34-001-26W1/0	5/30/1982	1983/02	Omega Hydcbns Ltd	464.2	951.0
00/02-35-001-26W1/0	9/1/1981	1981/11	Omega Hydcbns Ltd	463.9	964.0
00/03-35-001-26W1/2	7/22/1983	1984/03	Omega Hydcbns Ltd	467.5	970.0
00/05-35-001-26W1/0	7/18/1983	1983/10	Omega Hydcbns Ltd	466.0	950.0
00/06-35-001-26W1/0	11/24/1982	1982/12	Omega Hydcbns Ltd	466.9	948.0
00/12-35-001-26W1/0	10/5/1983	1983/10	Omega Hydcbns Ltd	465.7	964.0

Waskada Lower Amaranth Unit #1 (Production & Injection History)

Abbreviated Well ID	First Prod YYYY/M M	On Inject. YYYY/M M	Last Prod. YYYY/M M	Cumulative OIL Prod. (m3)	Cumulative WTR Prod. (m3)	Last Inject. YYYY/MM
00/14-22-001-26W1/0	1985/11		1987/04	365	5,808	
00/16-22-001-26W1/0		1983/12				1988/02
00/13-23-001-26W1/0	1983/06	1988/02	1988/02	1,445	22,332	1994/03
00/14-23-001-26W1/0	1982/10		1996/04	10,112	14,240	
00/03-26-001-26W1/0	1982/07		2010/12	12,001	15,295	
00/04-26-001-26W1/0	1982/10		2010/12	21,943	57,784	
00/05-26-001-26W1/0	1982/07	1984/01	1984/01	4,452	560	2010/12
00/06-26-001-26W1/0	1982/06		2010/12	16,265	7,428	
00/11-26-001-26W1/0	1982/07		1996/06	5,291	9,748	
02/12-26-001-26W1/0	1983/06		1996/05	10,871	23,414	
00/13-26-001-26W1/0	1983/03	1984/02	1984/01	456	3,106	1987/03
00/14-26-001-26W1/0	1982/07		1989/10	1,263	17,092	
00/01-27-001-26W1/0	1982/12		1988/08	3,814	22,881	
00/02-27-001-26W1/0	1982/11		1991/12	2,721	10,453	
00/03-27-001-26W1/0	1983/03		1988/06	1,812	14,399	
02/03-27-001-26W1/2	1988/11		1989/02	0	1,277	
00/04-27-001-26W1/0	1983/02		1988/05	3,241	24,522	
00/05-27-001-26W1/0	1982/12	1984/01	1984/01	1,918	3,490	1987/03
02/05-27-001-26W1/0	2010/03		2010/12	1,678	6,532	
02/06-27-001-26W1/0	1983/07		1993/03	9,371	22,335	
00/07-27-001-26W1/0	1982/12	1984/02	1984/01	2,288	3,673	1999/03
00/08-27-001-26W1/0	1982/08		1992/04	9,204	34,447	
00/09-27-001-26W1/0	1982/12		1990/01	1,822	6,785	
02/09-27-001-26W1/2	1987/03		1992/04	528	2,827	
00/10-27-001-26W1/0	1982/12		1995/12	4,358	11,774	
02/11-27-001-26W1/0	1983/08		1989/04	1,755	28,320	

Abbreviated Well ID	First Prod YYYY/M M	On Inject. YYYY/M M	Last Prod. YYYY/M M	Cumulative OIL Prod. (m3)	Cumulative WTR Prod. (m3)	Last Inject. YYYY/MM
00/12-27-001-26W1/0	1982/11		1993/05	8,116	27,664	
02/13-27-001-26W1/0	1983/07	1984/02	1984/01	1,431	1,348	1986/12
02/14-27-001-26W1/0	1983/08		1995/12	23,444	50,261	
02/15-27-001-26W1/0	1983/06	1984/01	1984/01	1,833	381	1987/12
02/16-27-001-26W1/0	1983/06		1990/05	3,332	26,565	
00/02-34-001-26W1/2	1983/08		1990/03	1,073	7,923	
00/08-34-001-26W1/0	1983/02		1990/02	1,500	14,810	
00/02-35-001-26W1/0	1981/11		1989/02	1,237	1,020	
00/03-35-001-26W1/2	1984/03		1989/10	439	9,279	
00/05-35-001-26W1/0	1983/10	1985/10	1985/09	628	6,047	1992/10
00/06-35-001-26W1/0	1982/12		1991/04	3,515	13,752	
00/12-35-001-26W1/0	1983/10		1989/11	697	7,887	

DISCUSSION:

Production Performance

Production Response versus Injection: Since injection began, late 1983, injection rates fluctuated to some degree amongst the injectors; it is difficult to link any production responses to any specific injector. Water breakthrough in 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 1998-99.

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 0.81 (under injected) and the current monthly VRR is about 0.18 for year 2010 (under injected). There was only one active injector in the unit in year 2010.

Almost all of the injectors are shut in currently. PennWest has no plan to re-activate the old injectors.

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. To see can we inject continuously into the Lower Amaranth Formation with:-
 - 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. 00/03-26-001-26W1/0
2. 00/04-26-001-26W1/0
3. 00/06-26-001-26W1/0
4. 02/05-27-001-26W1/0

Current Suspended Wells

None

Abandoned Wells

1. 00/14-22-001-26W1/0 (since 1987/05)
2. 00/14-23-001-26W1/0 (since 1996/05)
3. 00/11-26-001-26W1/0 (since 1996/07)
4. 02/12-26-001-26W1/0 (since 1996/06)
5. 00/14-26-001-26W1/0 (since 1989/11)
6. 00/01-27-001-26W1/0 (since 1988/09)
7. 00/02-27-001-26W1/0 (since 1992/01)
8. 00/03-27-001-26W1/0 (since 1988/07)
9. 00/04-27-001-26W1/0 (since 1988/06)
10. 02/06-27-001-26W1/0 (since 1993/04)
11. 00/08-27-001-26W1/0 (since 1992/05)
12. 00/09-27-001-26W1/0 (since 1990/02)
13. 02/09-27-001-26W1/2 (since 1992/05)
14. 00/10-27-001-26W1/0 (since 1996/01)
15. 02/11-27-001-26W1/0 (since 1989/05)
16. 00/12-27-001-26W1/0 (since 1993/06)
17. 02/14-27-001-26W1/0 (since 1996/01)
18. 02/16-27-001-26W1/0 (since 1990/06)

- 19.00/02-34-001-26W1/2 (since 1990/04)
- 20.00/08-34-001-26W1/0 (since 1990/03)
- 21.00/02-35-001-26W1/0 (since 1989/03)
- 22.00/03-35-001-26W1/2 (since 1989/11)
- 23.00/06-35-001-26W1/0 (since 1991/05)
- 24.00/12-35-001-26W1/0 (since 1989/12)

Injectors

Current Injecting Wells

None

Current Suspended Wells

1. 00/05-26-001-26W1/0 (since 2011/01)

Abandoned Wells

1. 00/16-22-001-26W1/0 (since 1988/03)
2. 00/13-23-001-26W1/0 (since 1994/04)
3. 00/13-26-001-26W1/0 (since 1987/04)
4. 00/05-27-001-26W1/0 (since 1987/04)
5. 00/07-27-001-26W1/0 (since 1999/04)
6. 02/13-27-001-26W1/0 (since 1987/01)
7. 02/15-27-001-26W1/0 (since 1988/01)
8. 00/05-35-001-26W1/0 (since 1992/11)

The behavior of a Waskada Unit 2 producers are indicated by examining the oil rate versus time plots (see Appendix B). Waskada Unit 2 exhibited relatively high initial oil productivity (most of the wells that were 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

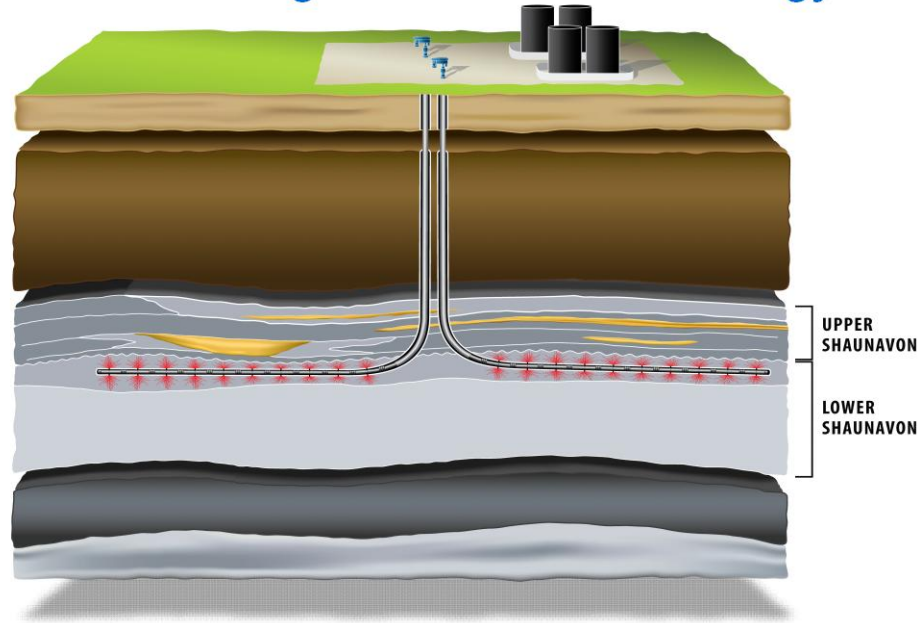
8700 kPag) to above in some wells or below in others bubble point pressure (about 4200 kPag) followed by solution gas breakout which adversely affected the relative permeability to oil. (see Table # 2)

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 five horizontal wells, to increase the Recovery Factor (RF), in year 2010, 102/05-27-001-26W1, 103/01-27-001-26W1, 102/04-27-001-26W1, 103/05-27-001-26W1 and 102/08-27-001-26W1. PennWest plans to drill two more horizontal well in 2011 in this unit. PennWest’s follow up plan once we have drilled more horizontal well in the unit 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 that we are using in our new development

HZ Multi Stage Fracture Technology



TABLES

Waskada Unit #2

Table 1: Rates History

Date	Oil		Water		Inj Water	
Year	m3/year	m3/day	m3/year	m3/day	m3/year	m3/day
1981	146	0.40	78	0.21	0	0.00
1982	9,220	25.26	4,445	12.18	0	0.00
1983	36,384	99.68	63,552	174.12	1,239	3.39
1984	24,120	66.08	79,843	218.75	153,606	420.84
1985	22,559	61.80	85,328	233.77	126,181	345.70
1986	20,364	55.79	87,504	239.74	160,776	440.48
1987	14,682	40.23	56,168	153.88	61,485	168.45
1988	9,025	24.73	32,921	90.19	12,461	34.14
1989	5,778	15.83	24,659	67.56	3,834	10.51
1990	5,145	14.10	13,878	38.02	14,370	39.37
1991	3,887	10.65	12,754	34.94	15,978	43.78
1992	3,270	8.96	12,727	34.87	15,440	42.30
1993	2,365	6.48	12,922	35.40	8,431	23.10
1994	1,970	5.40	9,267	25.39	5,612	15.38
1995	2,064	5.65	9,530	26.11	5,405	14.81
1996	1,647	4.51	3,642	9.98	5,289	14.49
1997	1,084	2.97	2,867	7.85	469	1.28
1998	1,327	3.63	2,463	6.75	0	0.00
1999	1,379	3.78	2,187	5.99	639	1.75
2000	1,300	3.56	1,779	4.87	1,818	4.98
2001	1,198	3.28	2,168	5.94	1,816	4.97
2002	1,213	3.32	1,781	4.88	2,044	5.60
2003	711	1.95	1,068	2.93	1,921	5.26
2004	554	1.52	1,214	3.33	1,437	3.94
2005	421	1.15	999	2.74	1,383	3.79
2006	360	0.98	906	2.48	2,275	6.23
2007	527	1.44	1,190	3.26	3,093	8.47
2008	648	1.78	1,062	2.91	2,396	6.56
2009	473	1.29	912	2.50	1,378	3.77
2010	2,398	6.57	7,644	20.94	1,905	5.22

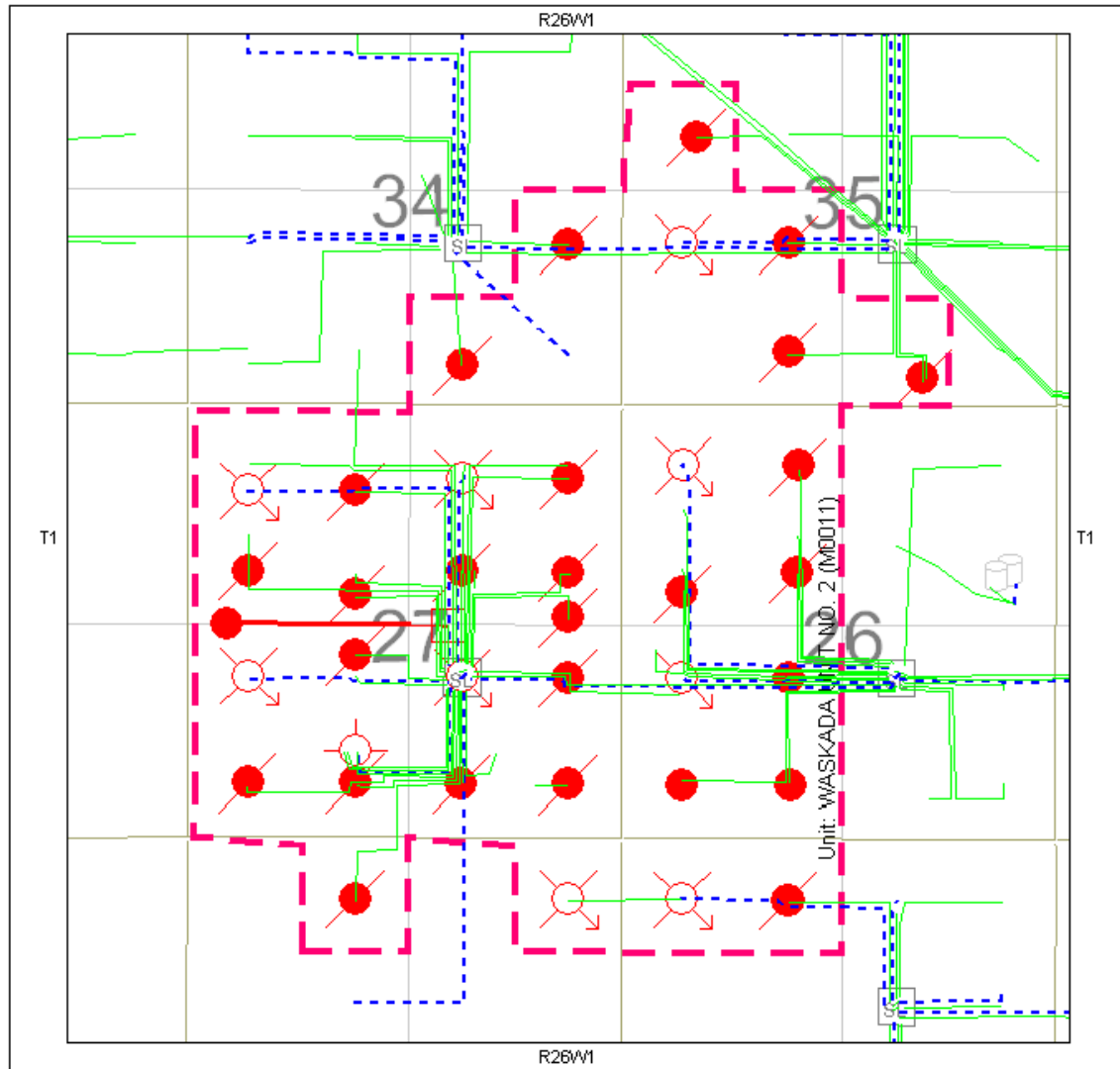
Waskada Unit #2


Table 2: Pressure Survey

Location	Shut In Date	Date of Survey	Type of Survey	Pressure @ Datum Depth (kPa)
02/12-24-001-26W1/0	17-Oct-10	24-Oct-10	BHP Build Up	1016
03/13-24-001-26W1/0	17-Oct-10	24-Oct-10	BHP Build Up	3179
00/15-24-001-26W1/0	Dec-89	(18 days)	Static Gradient	10482
00/06-25-001-26W1/0	(8 days)	11-Dec-06	Acoustic Build Up	4186
00/09-25-001-26W1/0		2008	BHP, Assuming WC from Last Prod'n	4881
02/09-25-001-26W1/0	17-Oct-10	24-Oct-10	BHP Build Up	1743
00/15-25-001-26W1/0	Jan-90	(68 days)	Static Gradient	11144
00/16-25-001-26W1/0		2008	BHP, Assuming WC from Last Prod'n	5765
00/08-26-001-26W1/0		2008	BHP, Assuming WC from Last Prod'n	6267

APPENDIX A

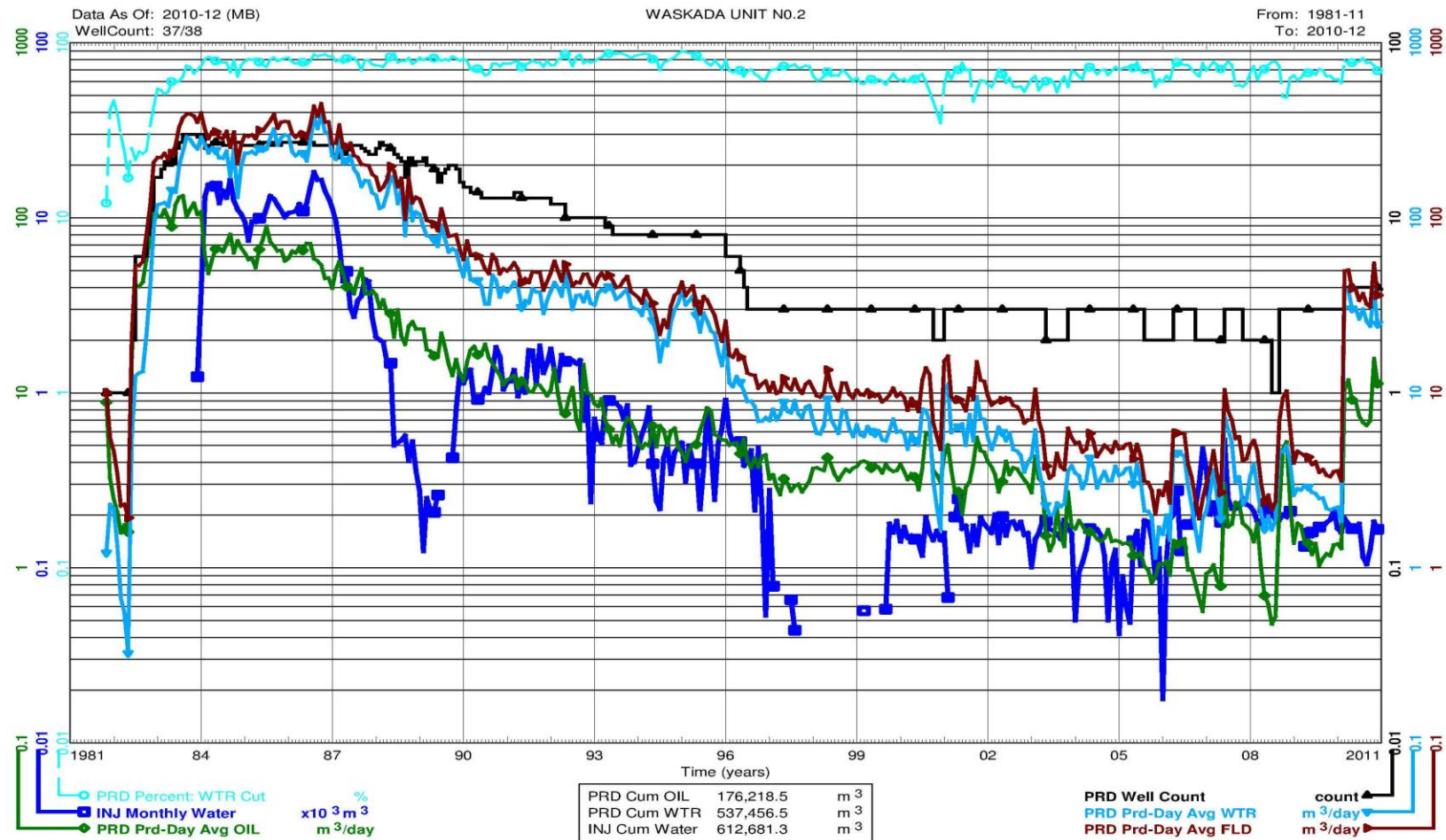
Appendix A – Area Map



PennWest Exploration		
Waskada Unit #2		
	By :	Date : 2011/04/14
	Scale = 1:19881	Project : Waskada

APPENDIX B

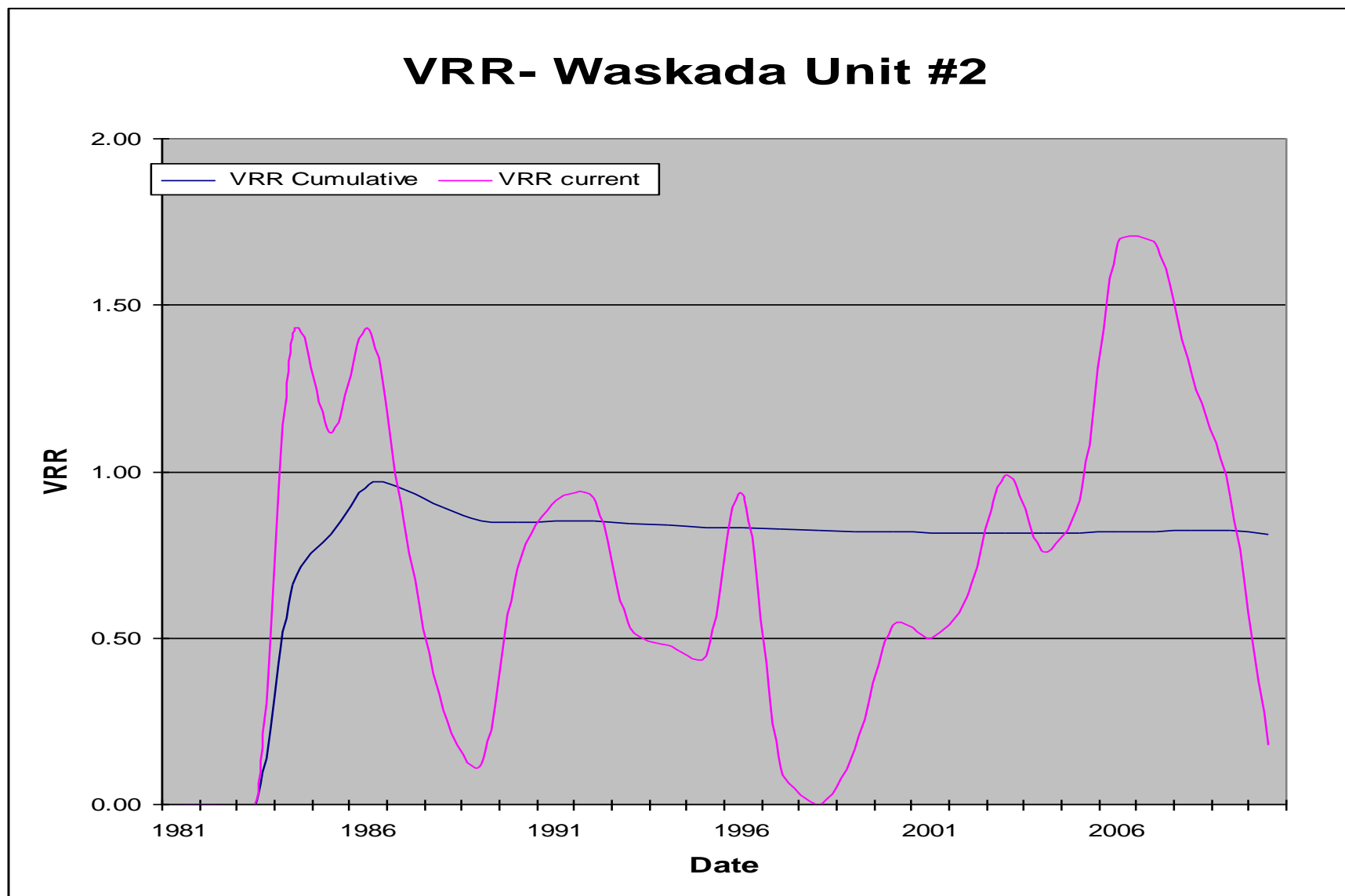
Appendix B – Production and Injection History plot



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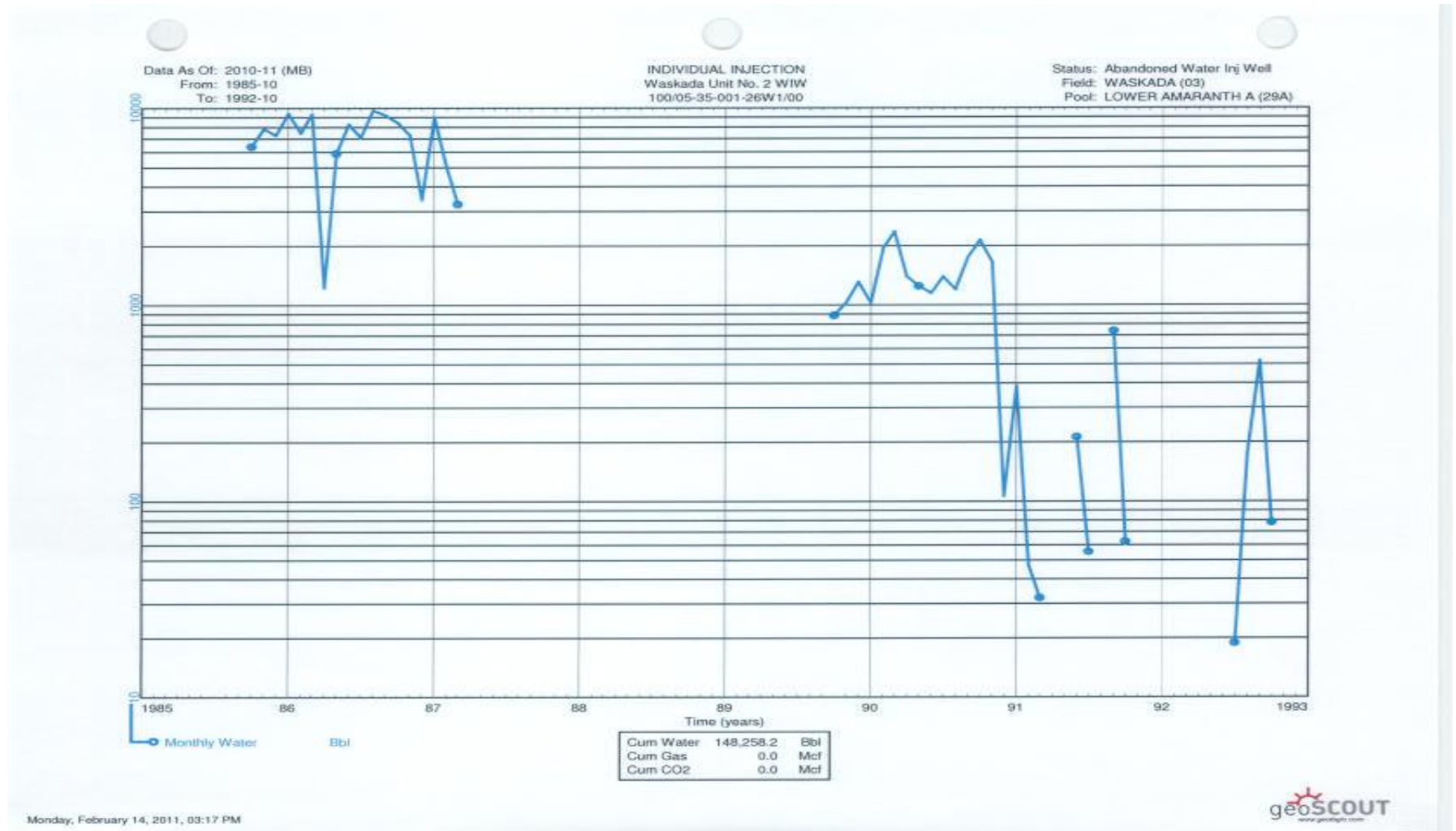
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APPENDIX C



APPENDIX D

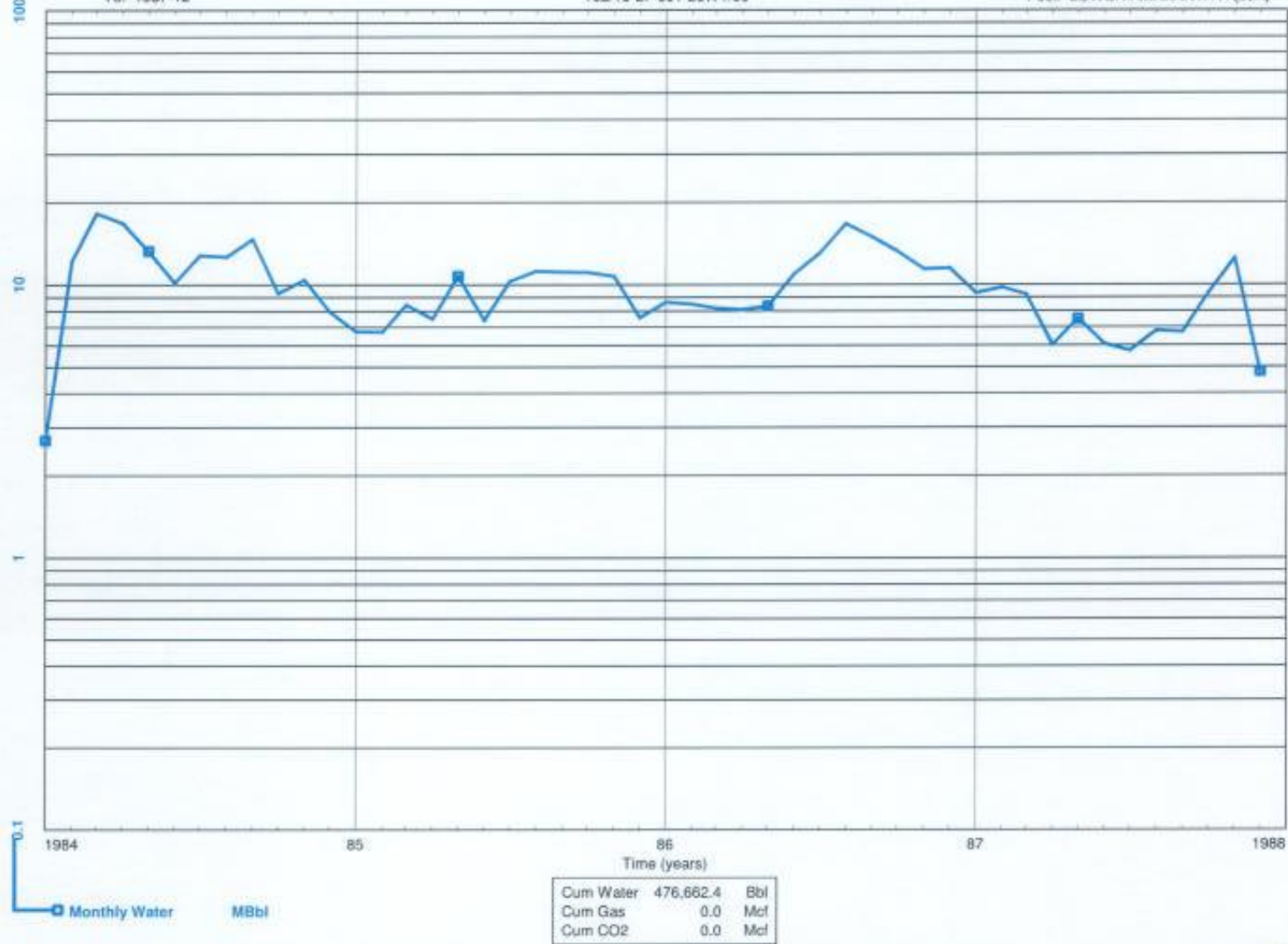
Appendix D – Production and Injection Profiles (Individual wells)



Data As Of: 2011-01 (MB)
 From: 1984-01
 To: 1987-12

INDIVIDUAL INJECTION
 Omega-Waskada
 102/15-27-001-26W1/00

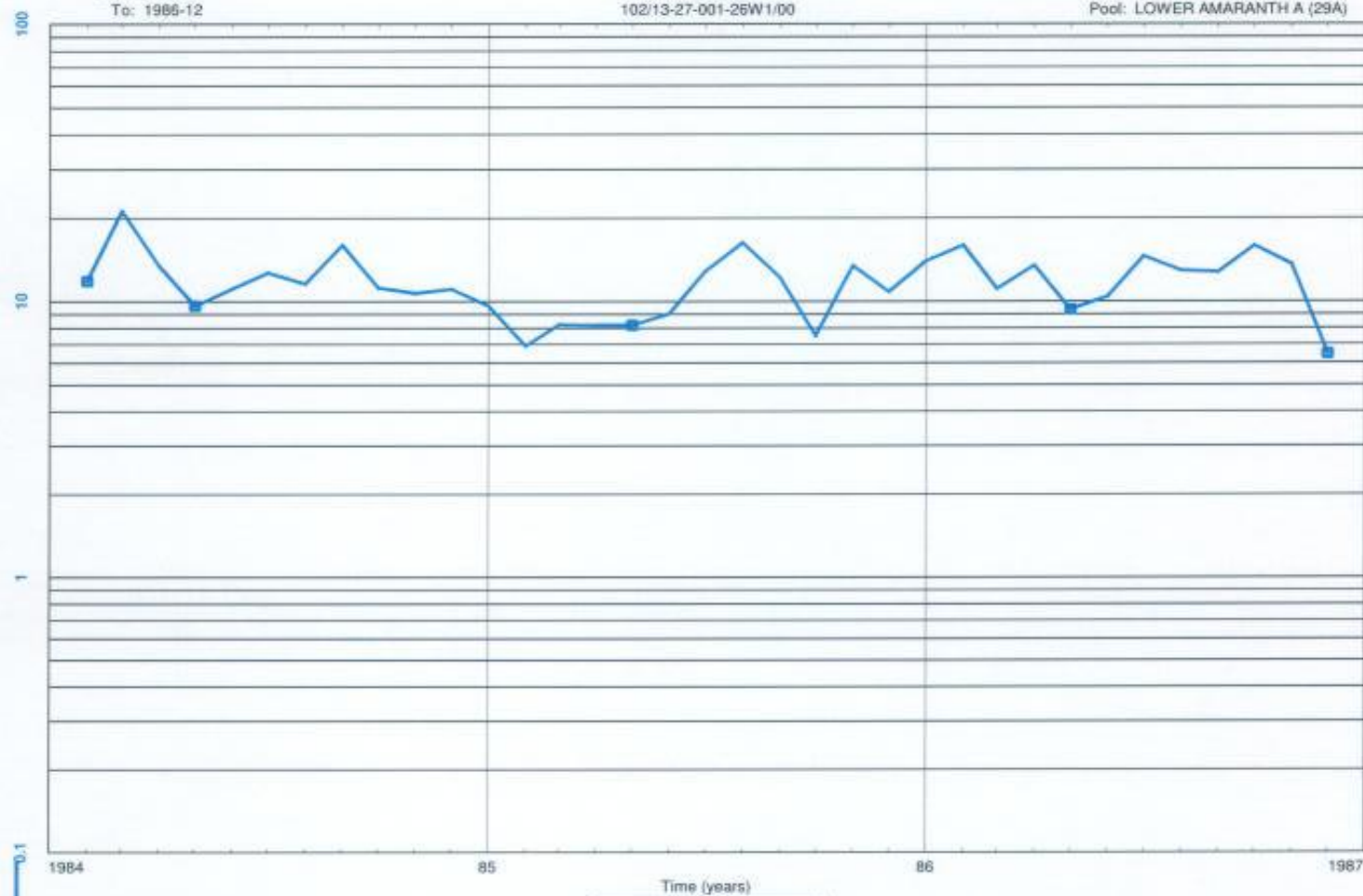
Status: Abandoned Water Inj Well
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-01 (MB)
 From: 1984-02
 To: 1986-12

INDIVIDUAL INJECTION
 Waskada Unit No: 9
 102/13-27-001-26W1/00

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



Monthly Water MBbl

Time (years)		
Cum Water	413,855.1	Bbl
Cum Gas	0.0	Mcf
Cum CO2	0.0	Mcf

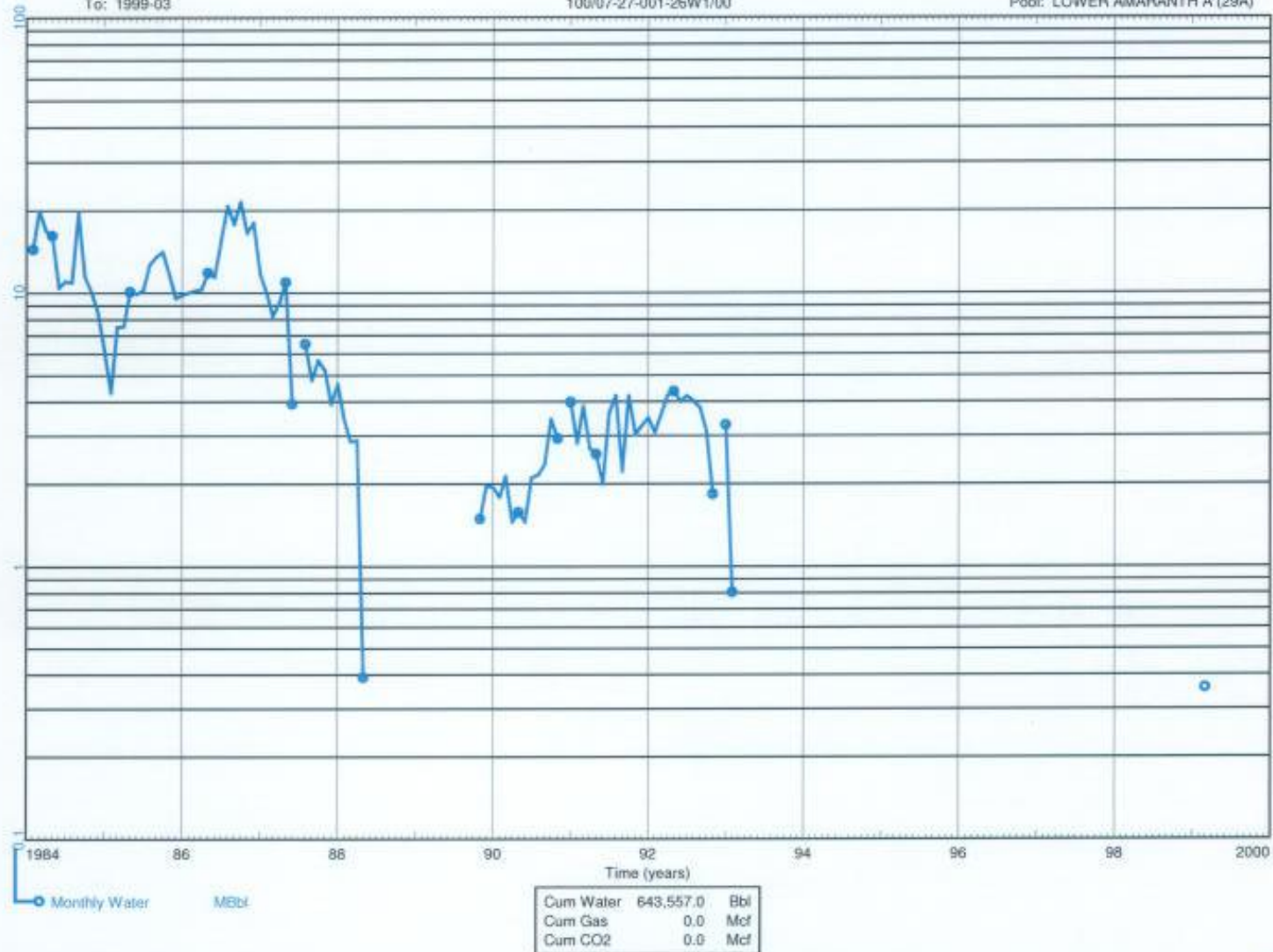
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Data As Of: 2010-11 (MB)
From: 1984-02
To: 1999-03

INDIVIDUAL INJECTION
Waskada Unit No. 2 WIW
100/07-27-001-26W1/00

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



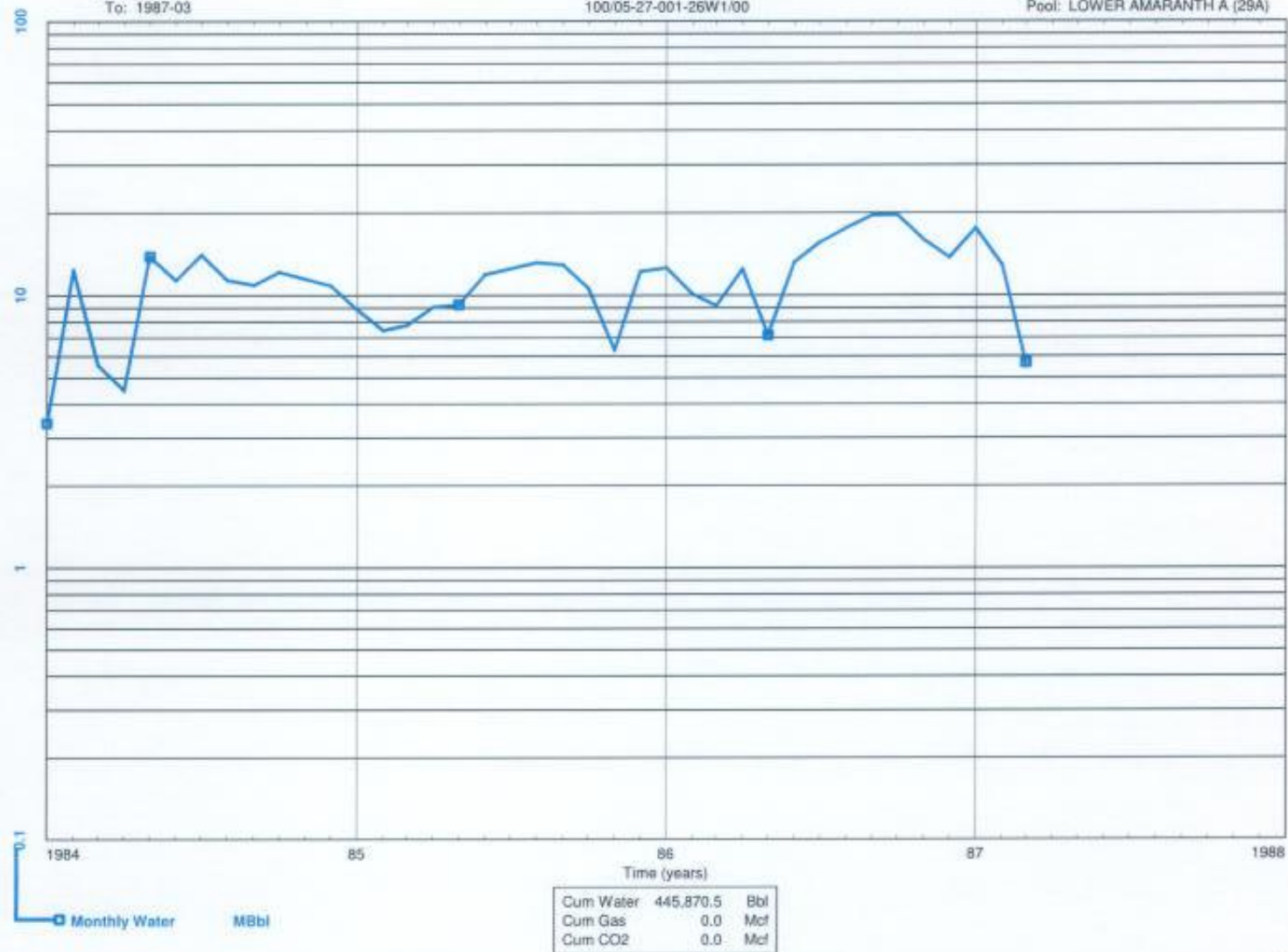
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geoSCOUT
www.geoscout.com

Data As Of: 2011-01 (MB)
 From: 1984-01
 To: 1987-03

INDIVIDUAL INJECTION
 Omega-Waskada-WIW™
 100/05-27-001-26W1/00

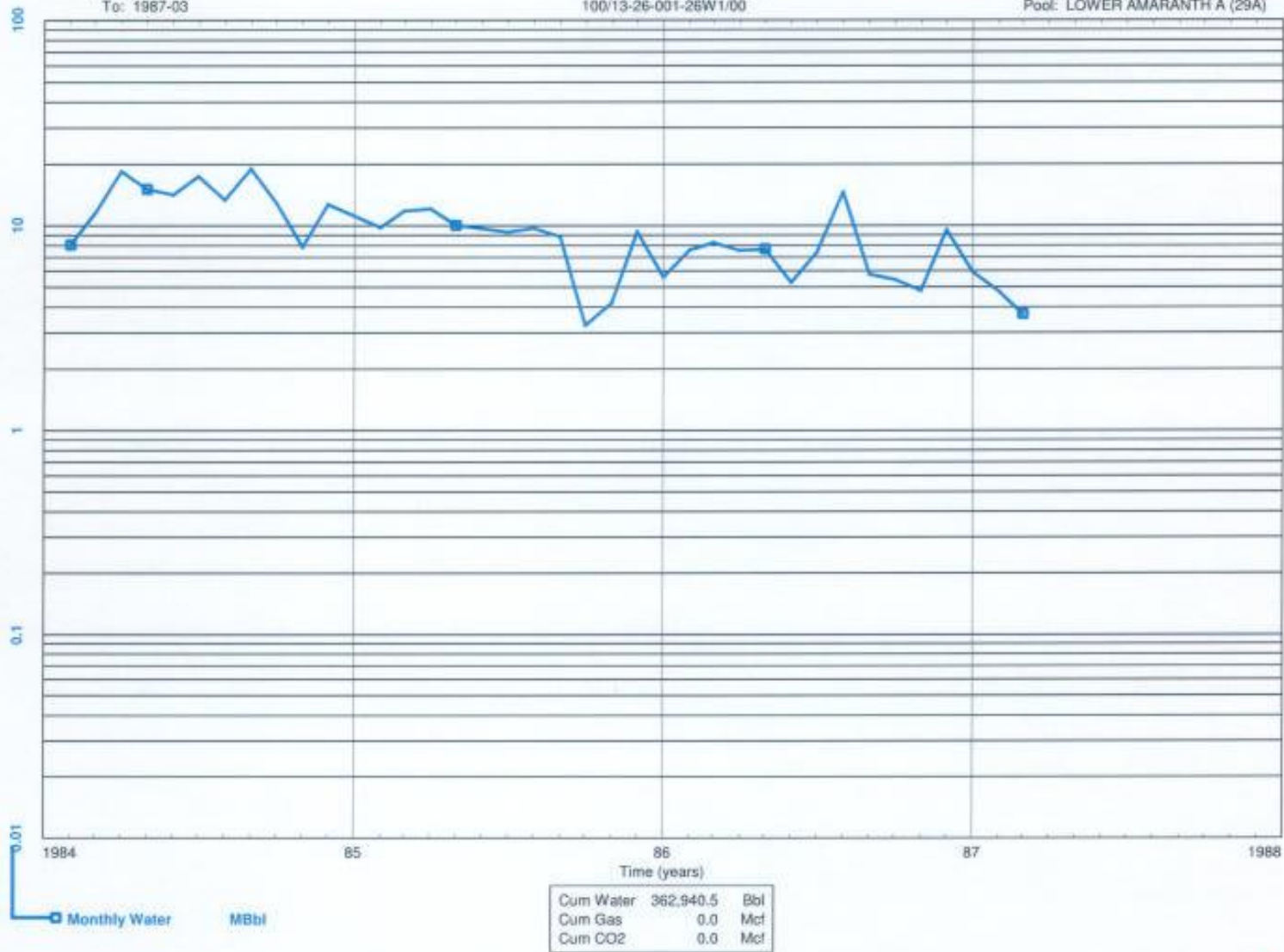
Status: Abandoned Water Inj Well
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-01 (MB)
From: 1984-02
To: 1987-03

INDIVIDUAL INJECTION
Omega Waskada WJW
100/13-26-001-26W1/00

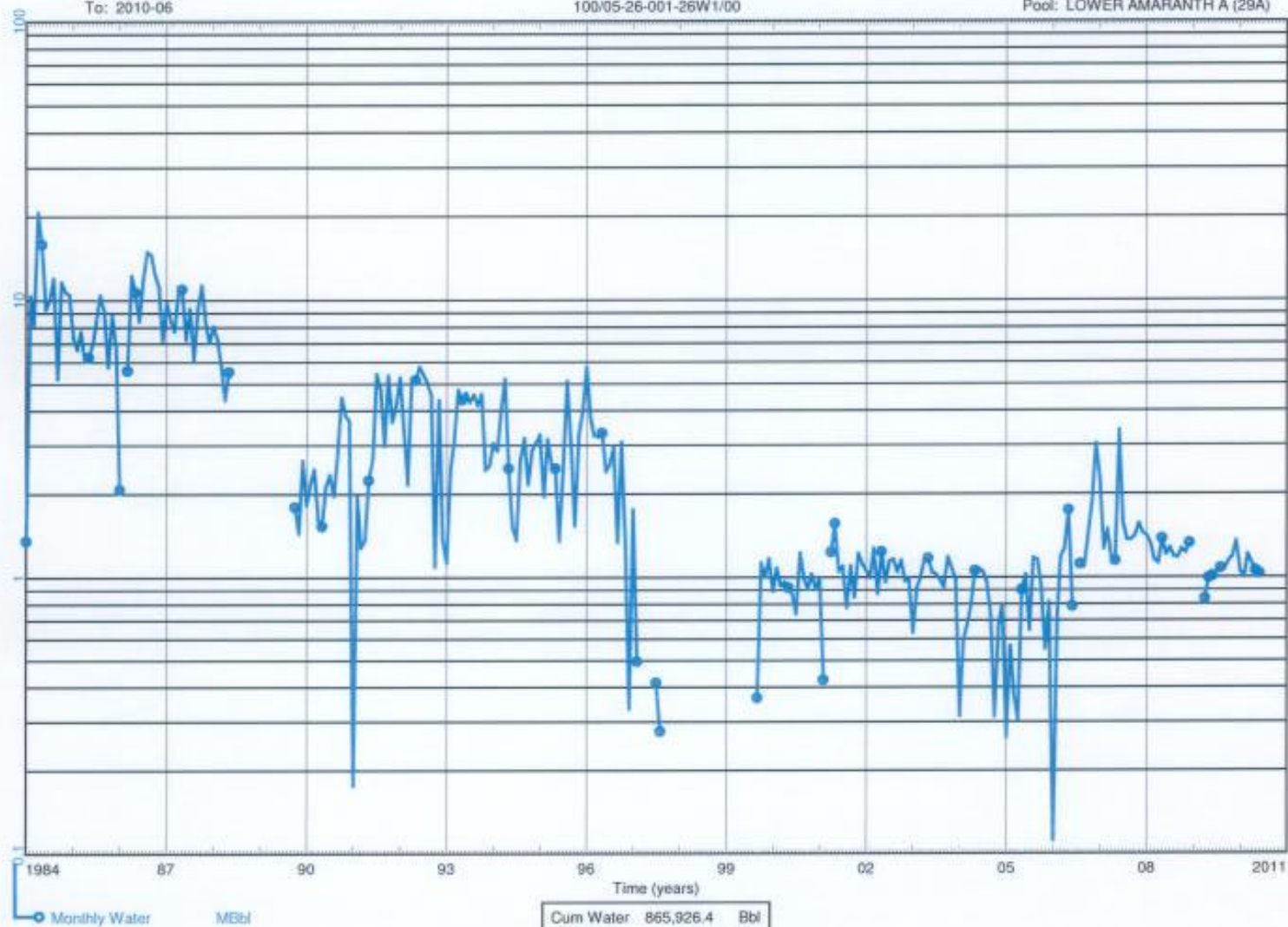
Status: Abandoned Water Inj Well
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
From: 1984-01
To: 2010-06

INDIVIDUAL INJECTION
Waskada Unit No. 2 WIW
100/05-26-001-26W1/00

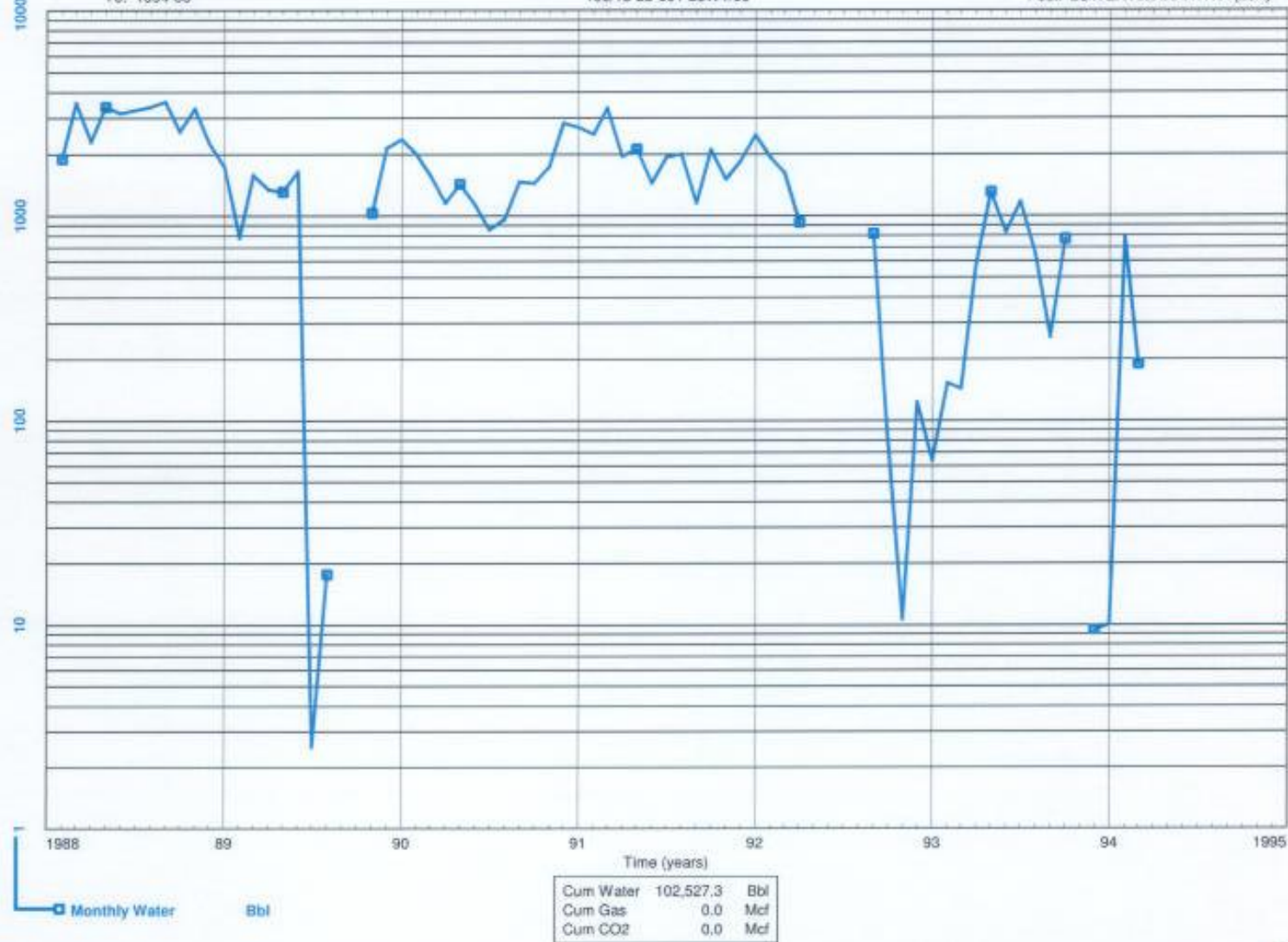
Status: Water Inj Well
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-01 (MB)
From: 1988-02
To: 1994-03

INDIVIDUAL INJECTION
Waskada Unit No. 2 WIW
100/13-23-001-26W1/00

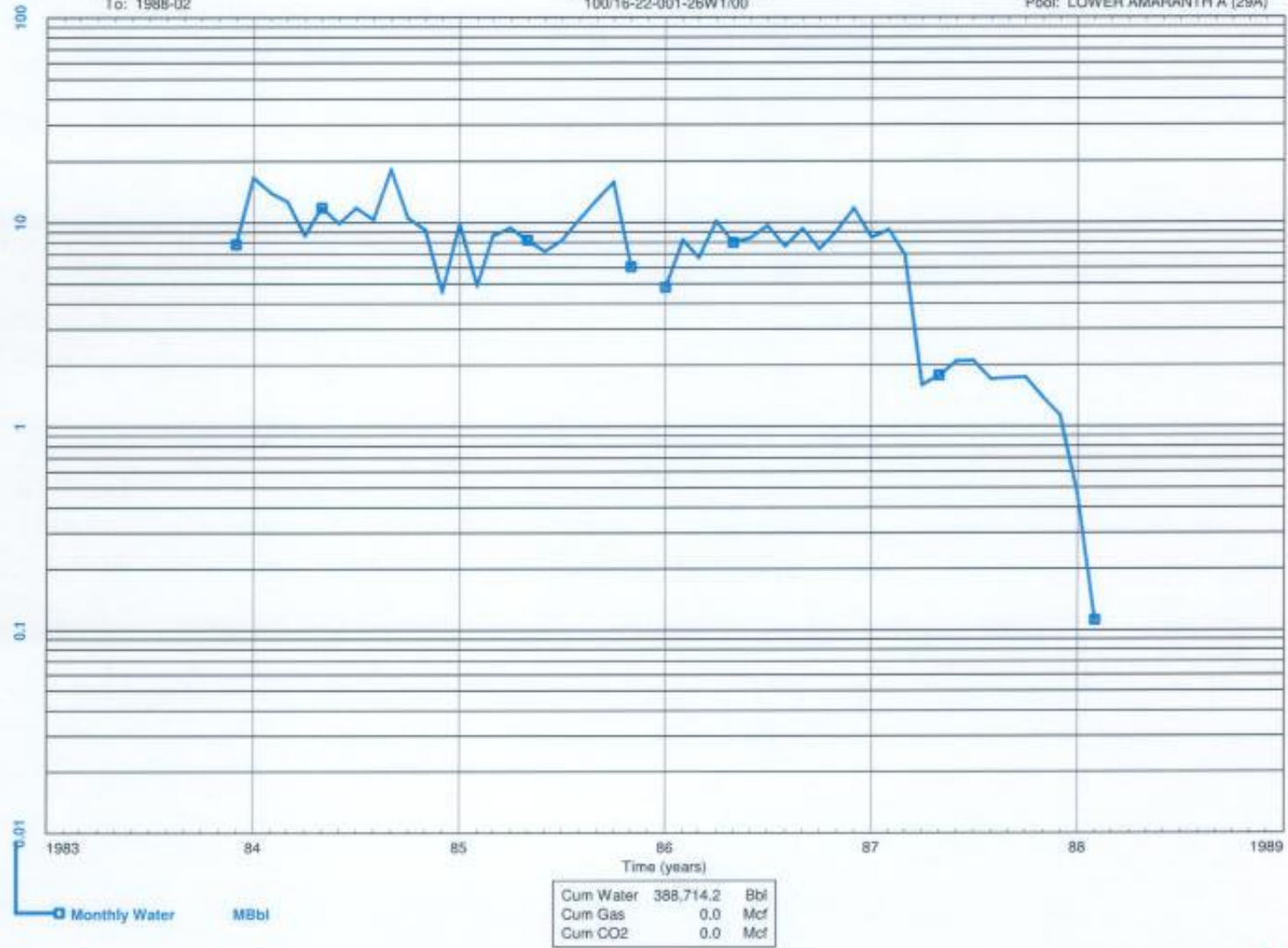
Status: Abandoned Water Inj Well
Field: WASKADA (03)
Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-01 (MB)
 From: 1983-12
 To: 1988-02

INDIVIDUAL INJECTION
 Omega-Waskada Prov. WW-
 100/16-22-001-26W1/00

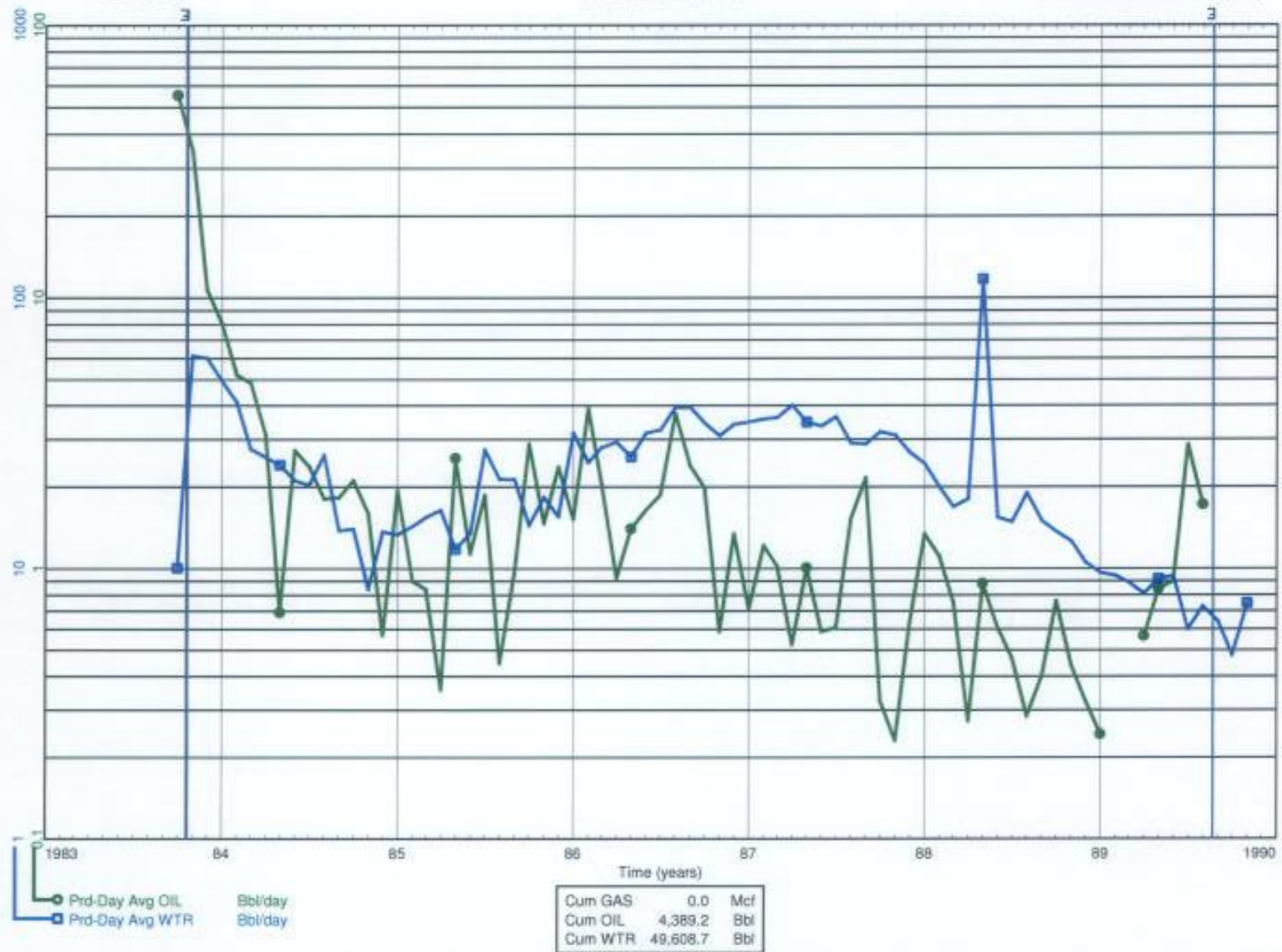
Status: Abandoned Water Inj Well
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1983-10
 To: 1989-11

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 100/12-35-001-26W1/00

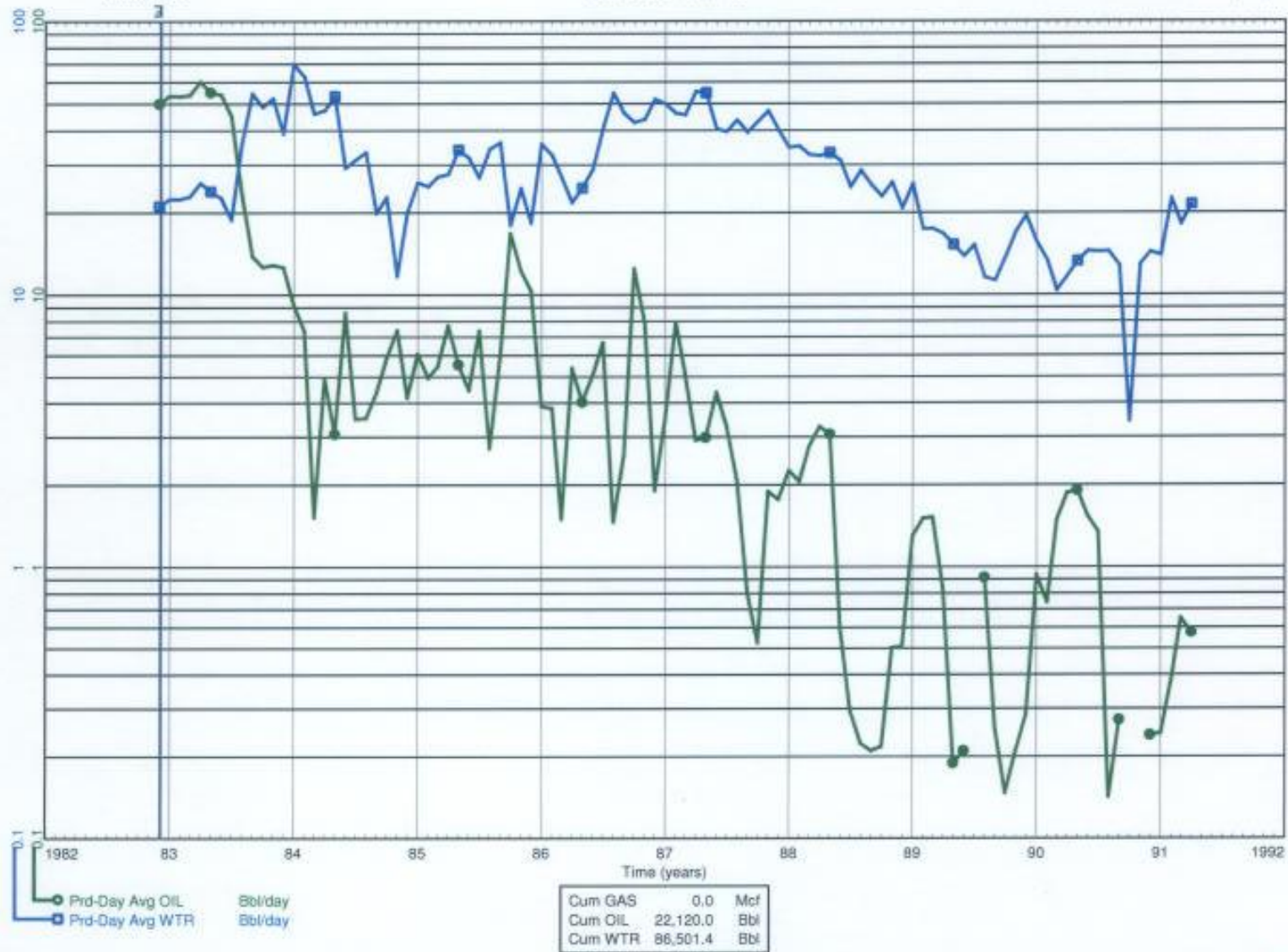
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1982-12
 To: 1991-04

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 100/06-35-001-26W1/00

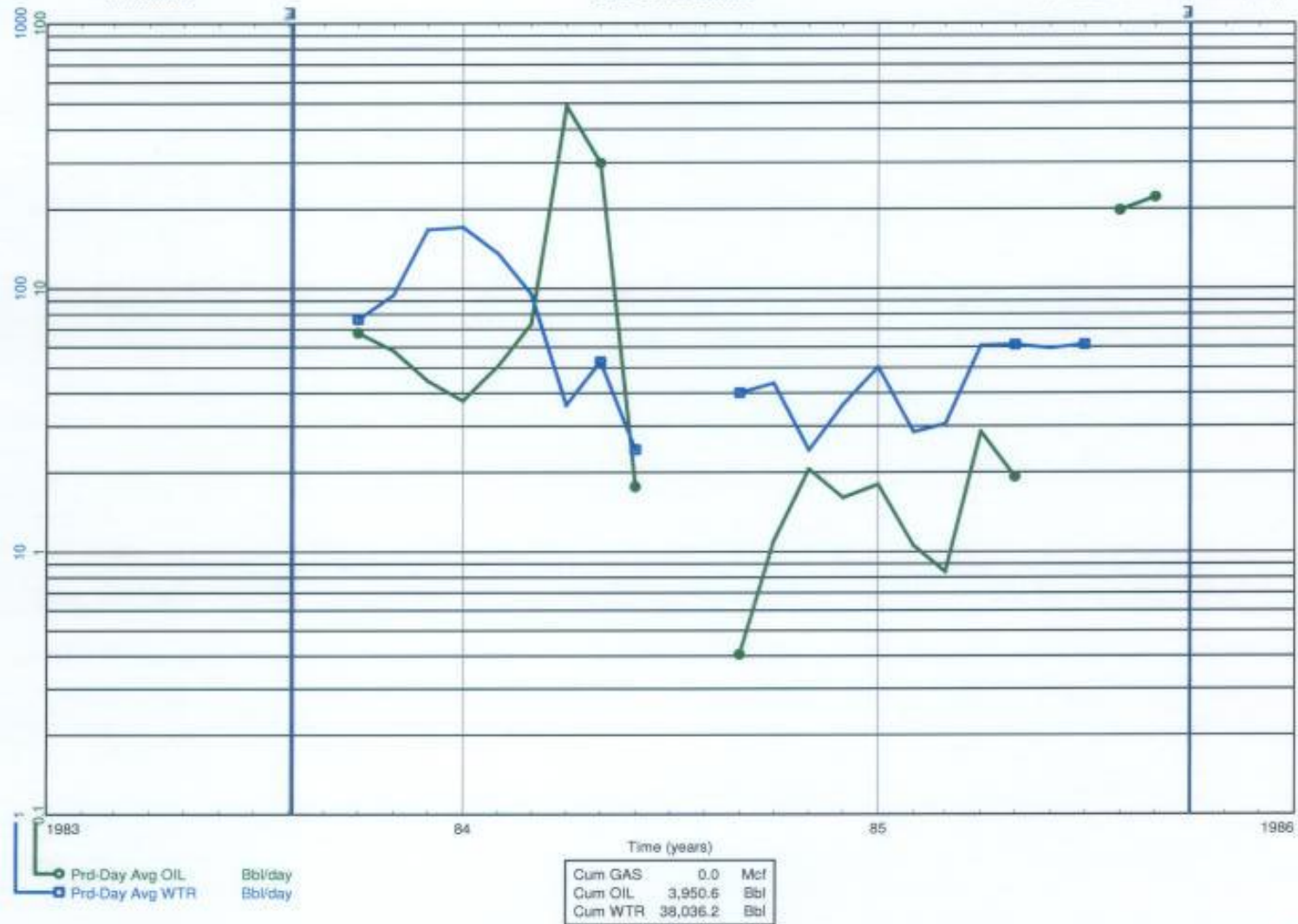
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1983-10
 To: 1985-09

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2 WIW
 100/05-35-001-26W1/00

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



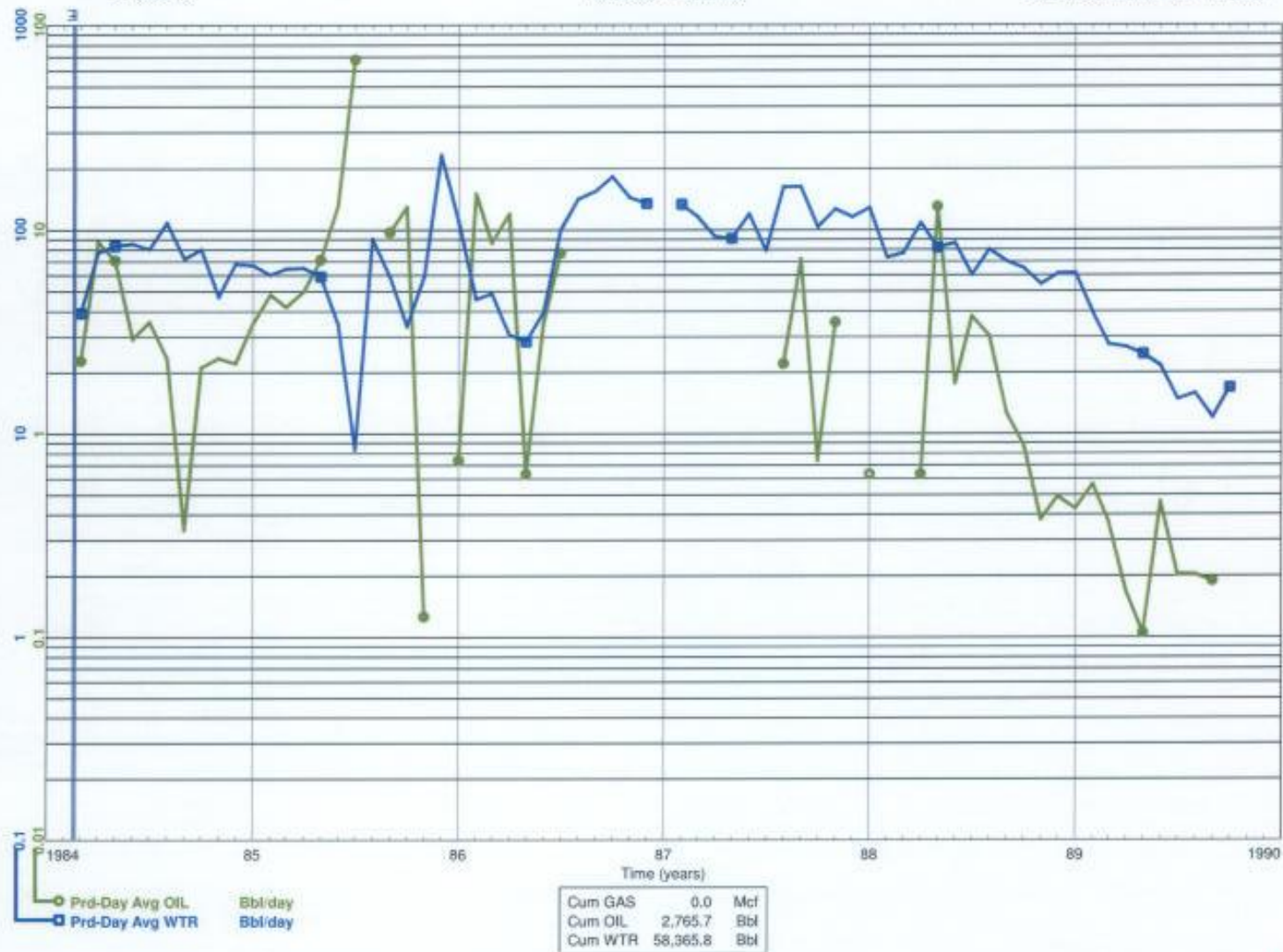
Friday, February 11, 2011, 03:49 PM

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Data As Of: 2011-01 (MB)
 From: 1984-03
 To: 1989-10

INDIVIDUAL PRODUCTION
 Omega-Waskada
 100/03-35-001-26W1/02

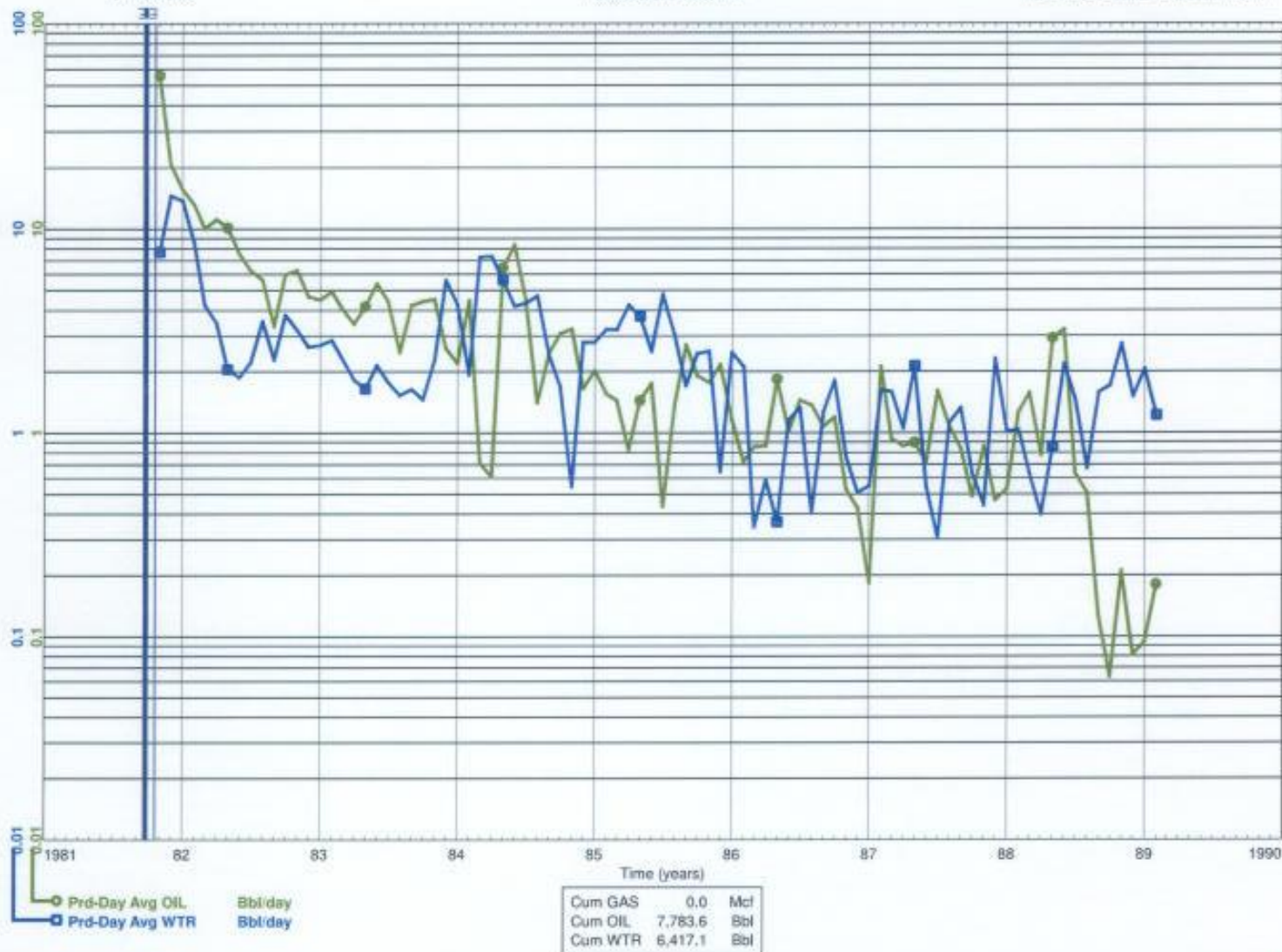
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-01 (MB)
 From: 1981-11
 To: 1989-02

INDIVIDUAL PRODUCTION
 ~Omega.Waskada
 100/02-35-001-26W1/00

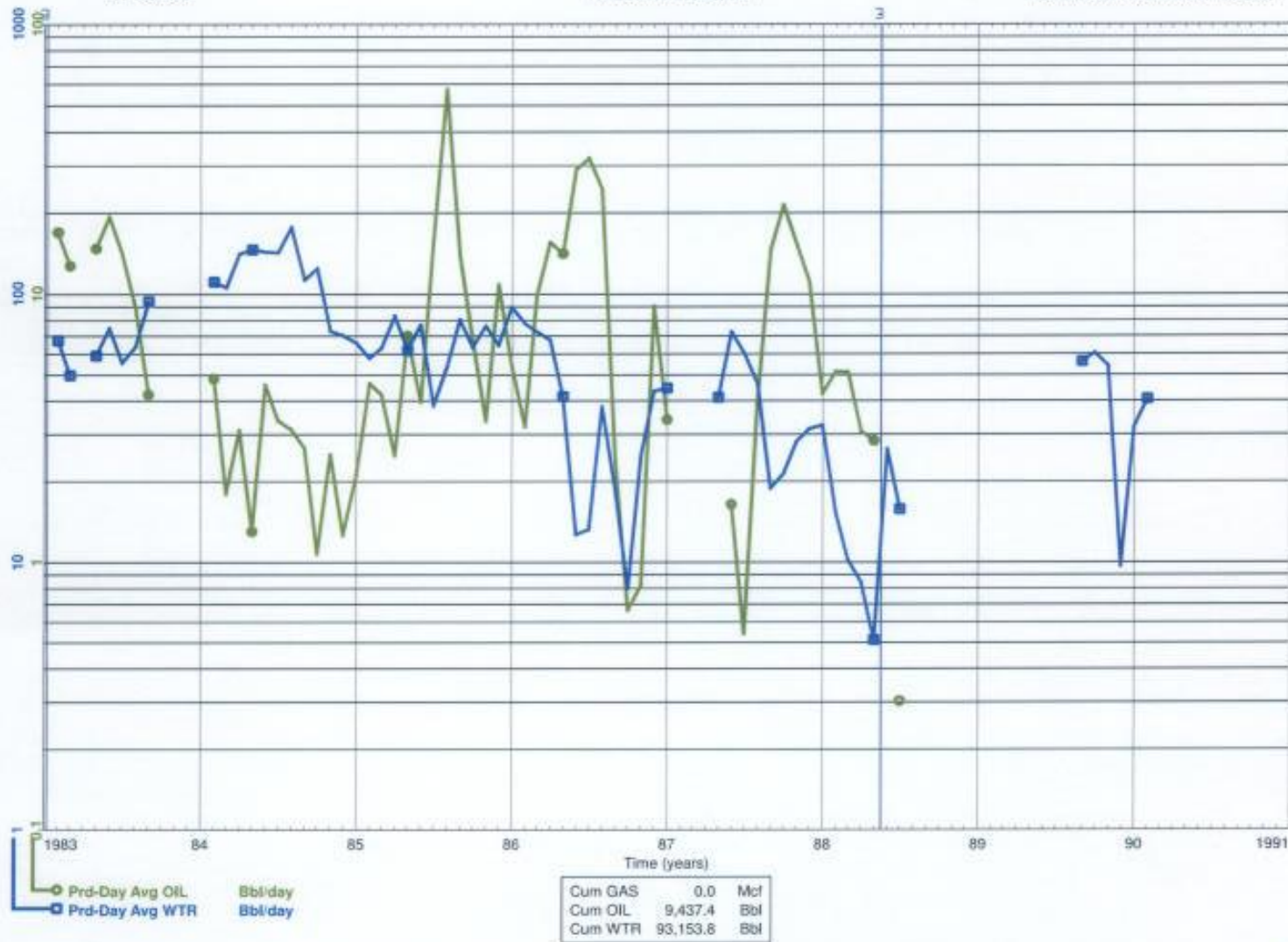
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



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

INDIVIDUAL PRODUCTION
 -Omega-Waskada Prov.
 100/08-34-001-26W1/00

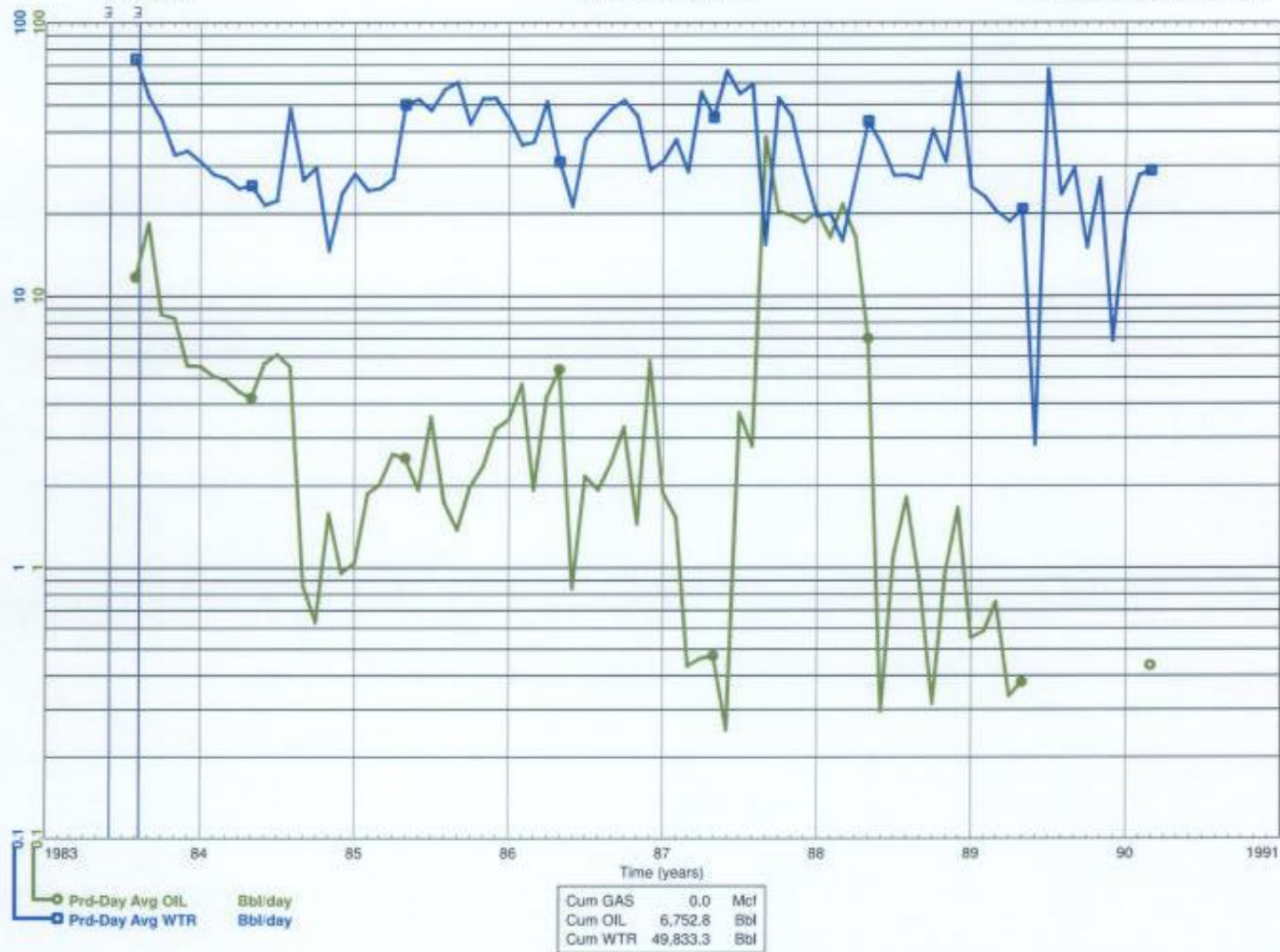
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-01 (MB)
 From: 1983-08
 To: 1990-03

INDIVIDUAL PRODUCTION
 -Omega Waskada Prov...
 100/02-34-001-25W1/02

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



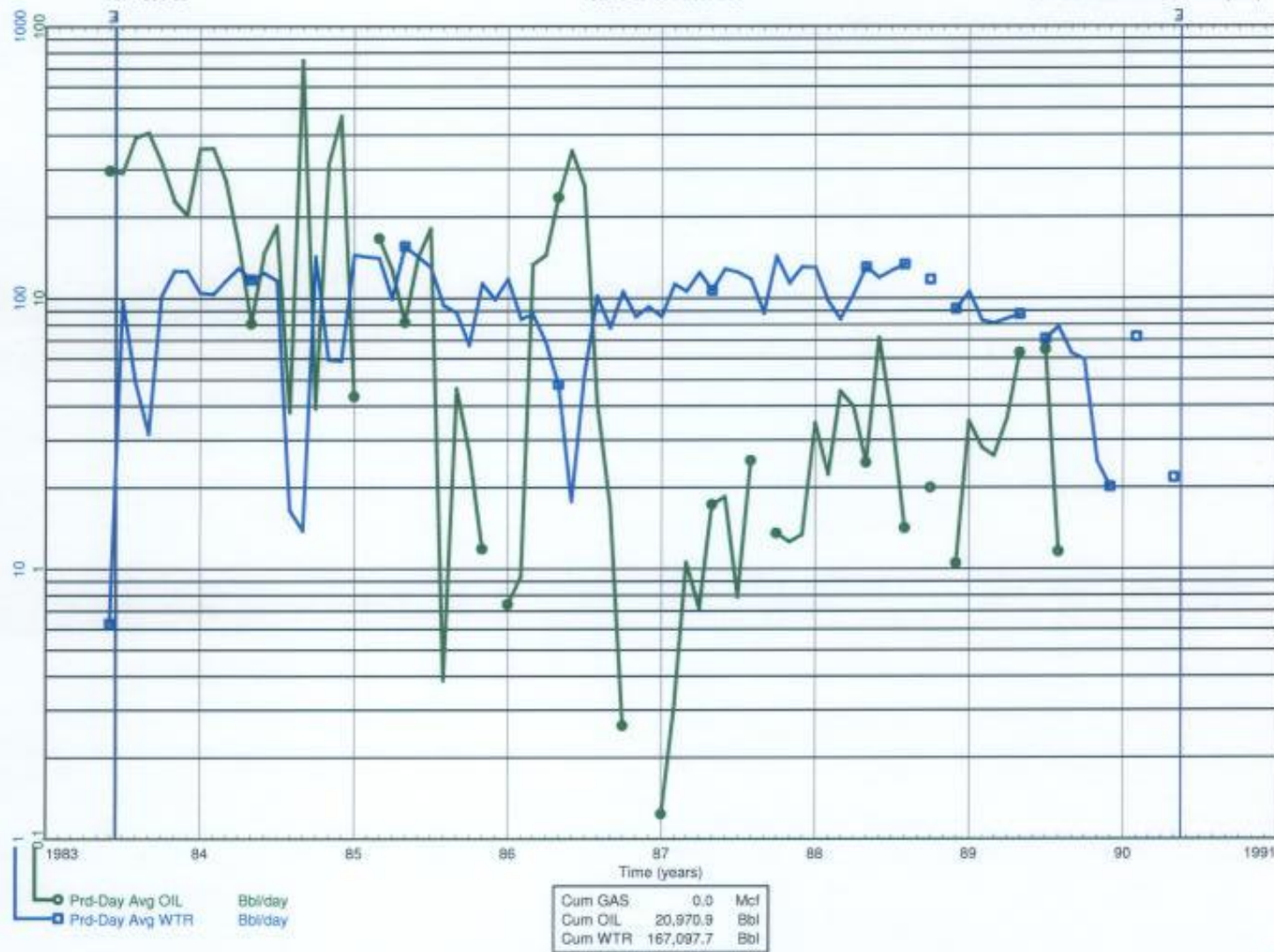
Thursday, April 21, 2011, 10:46 AM

geoSCOUT
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Data As Of: 2010-11 (MB)
 From: 1983-06
 To: 1990-05

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 102/16-27-001-26W1/00

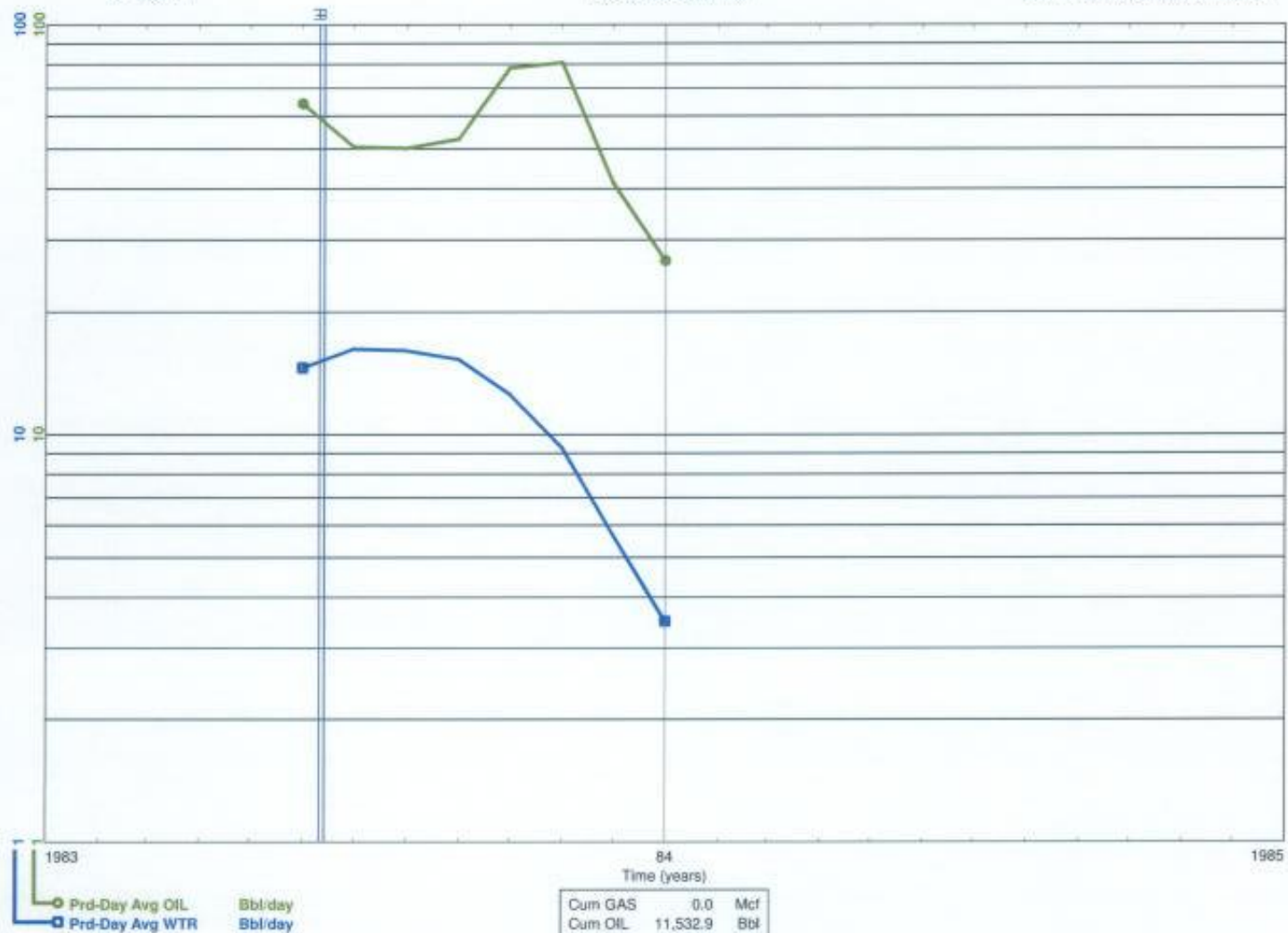
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-01 (MB)
 From: 1983-06
 To: 1984-01

INDIVIDUAL PRODUCTION
 "Omega-Waskada"
 102/15-27-001-26W1/00

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

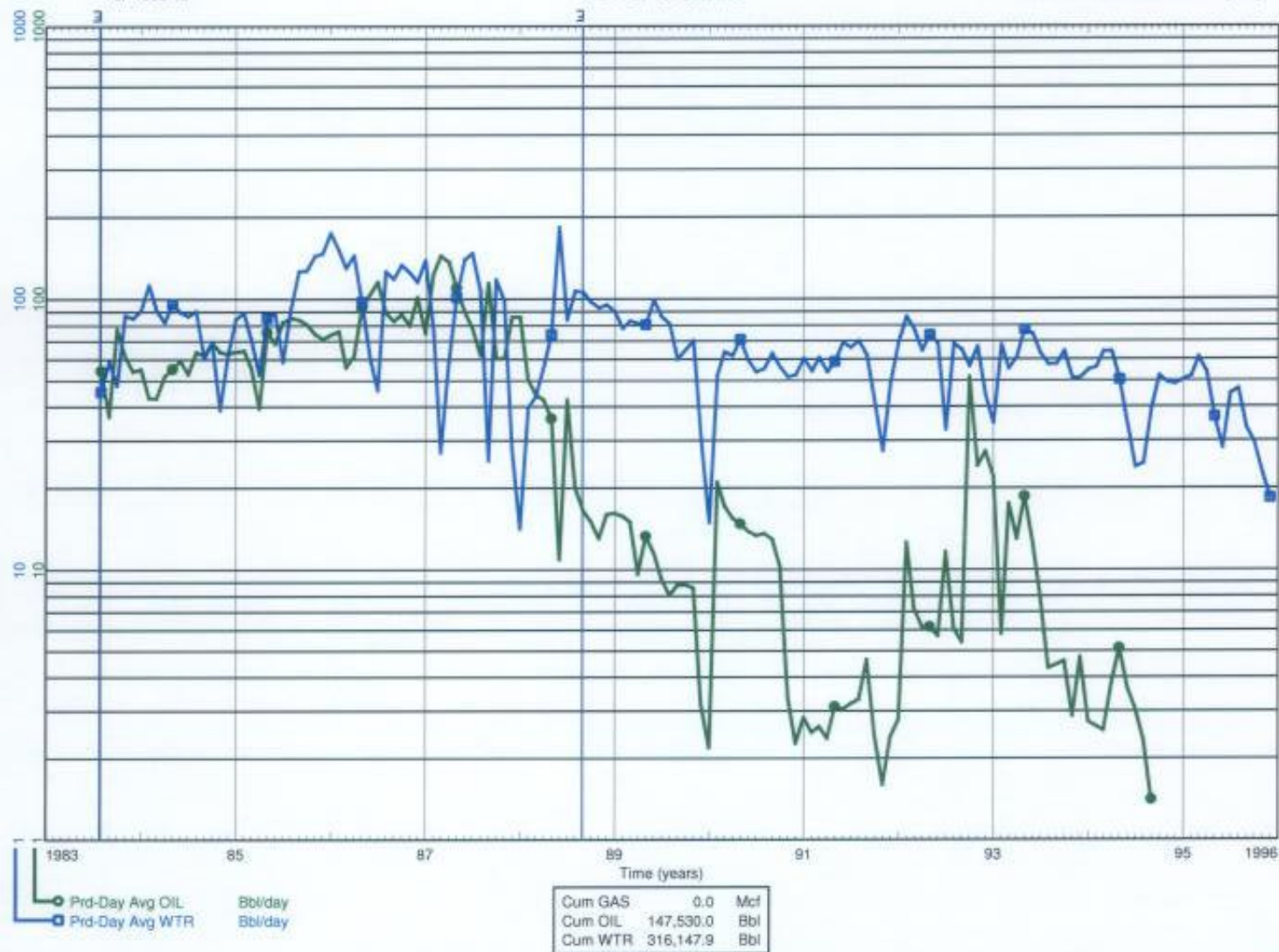


Cum GAS	0.0	Mcf
Cum OIL	11,532.9	Bbl
Cum WTR	2,395.8	Bbl

Data As Of: 2010-11 (MB)
 From: 1983-08
 To: 1995-12

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 102/14-27-001-26W1/00

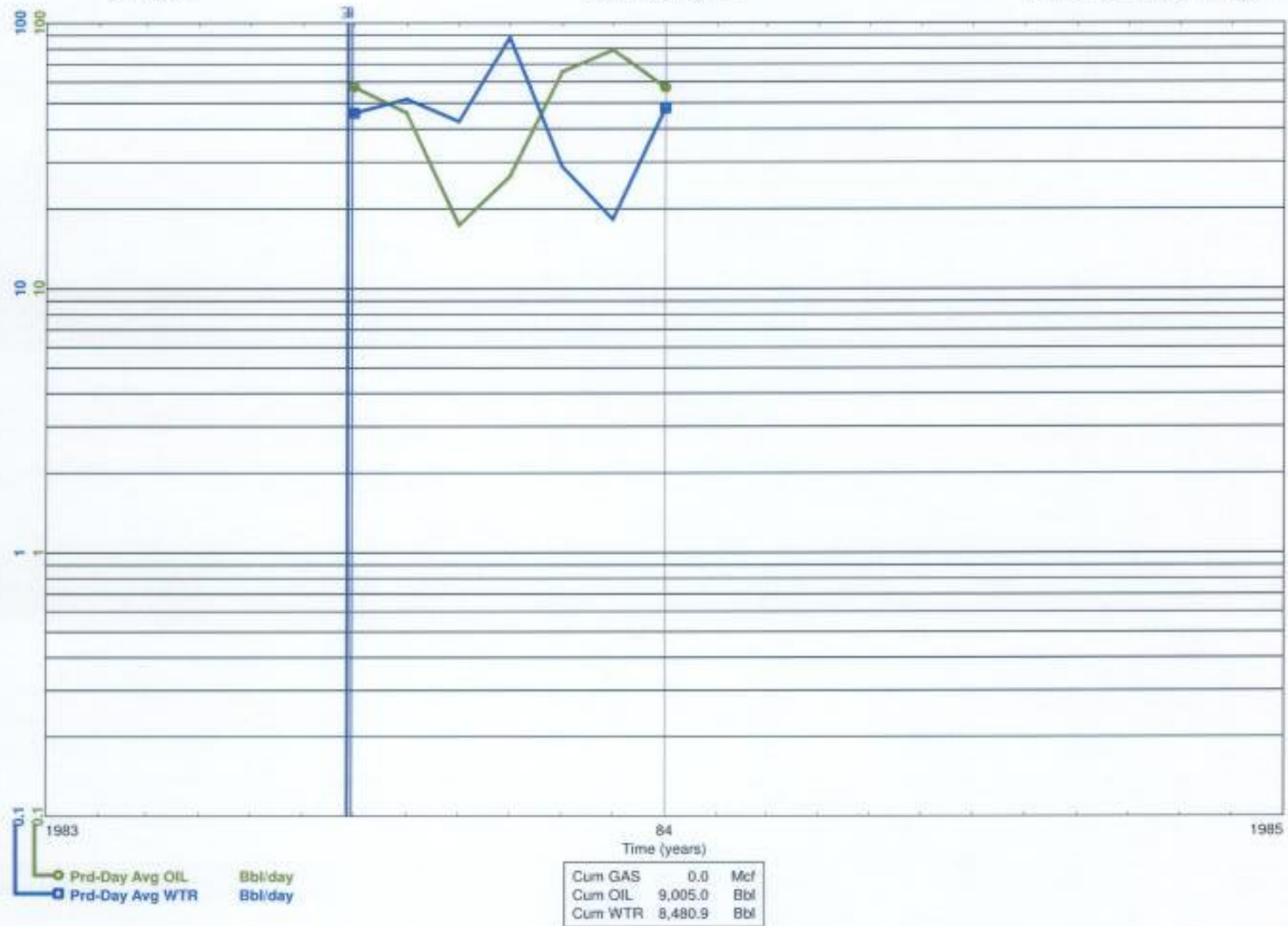
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (28A)



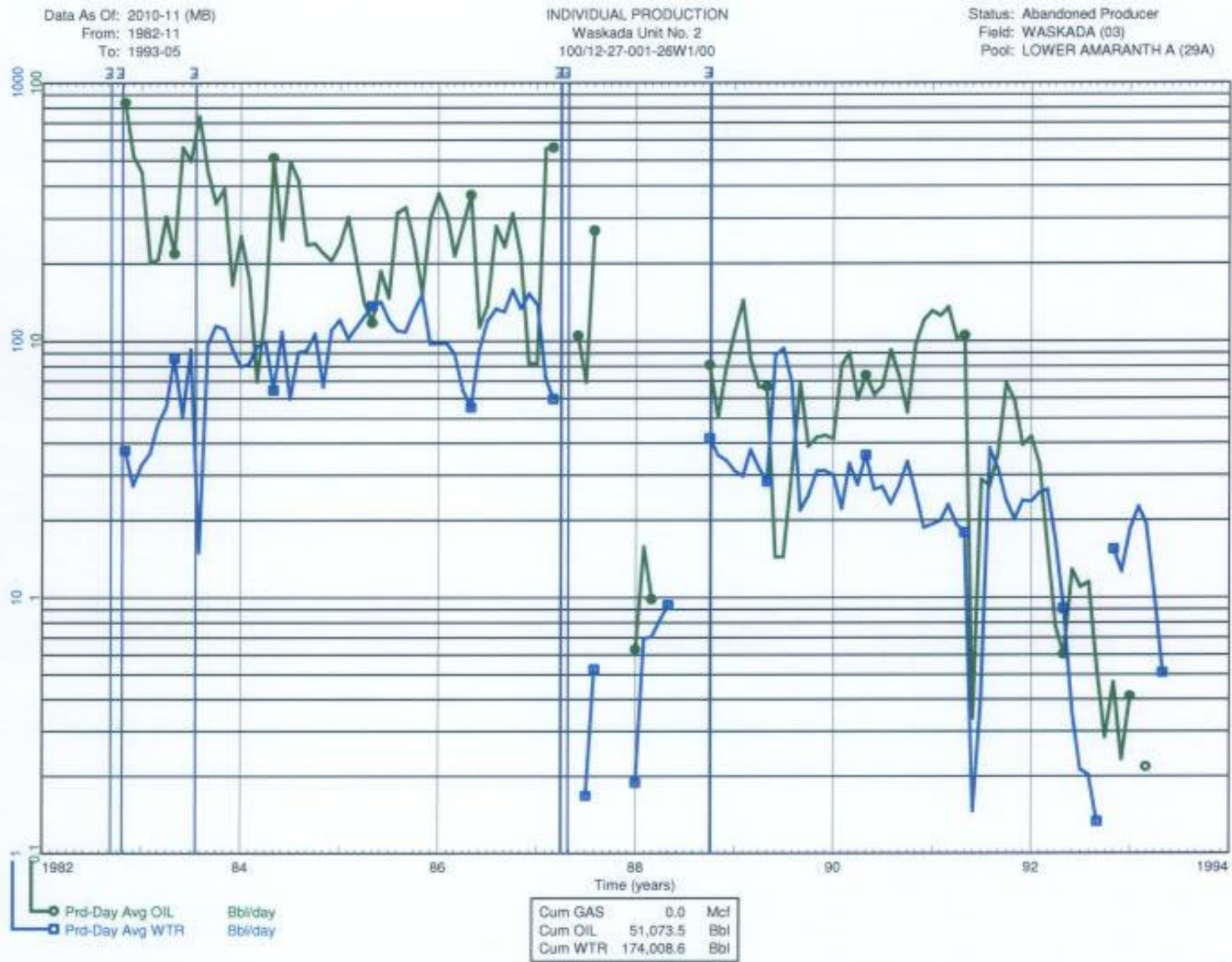
Data As Of: 2011-01 (MB)
 From: 1983-07
 To: 1984-01

INDIVIDUAL PRODUCTION
 Waskada Unit No. 9
 102/13-27-001-26W1/00

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



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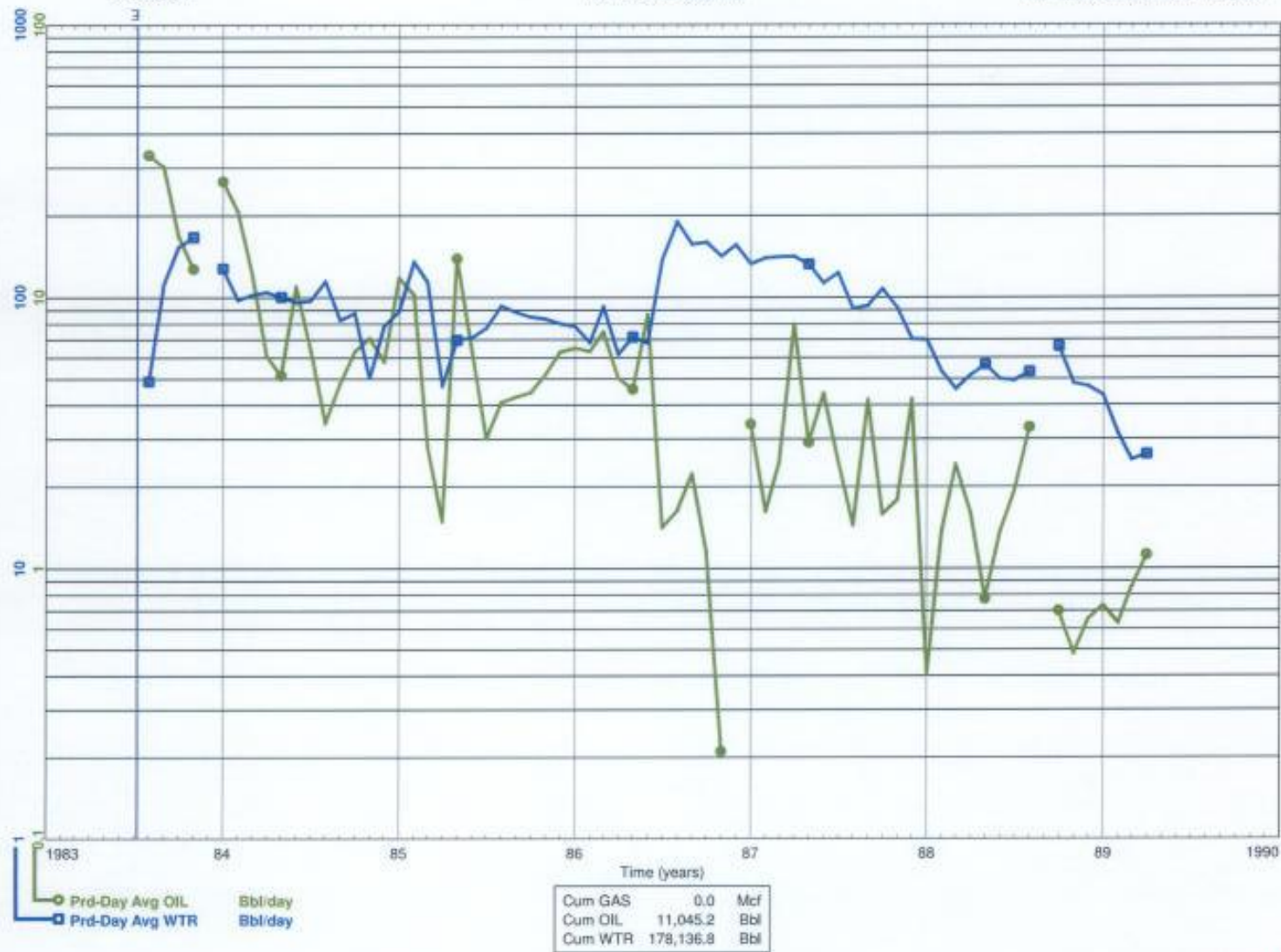


Friday, February 11, 2011, 03:42 PM

Data As Of: 2011-01 (MB)
 From: 1983-08
 To: 1989-04

INDIVIDUAL PRODUCTION
 Omega-Waskada
 102/11-27-001-26W1/00

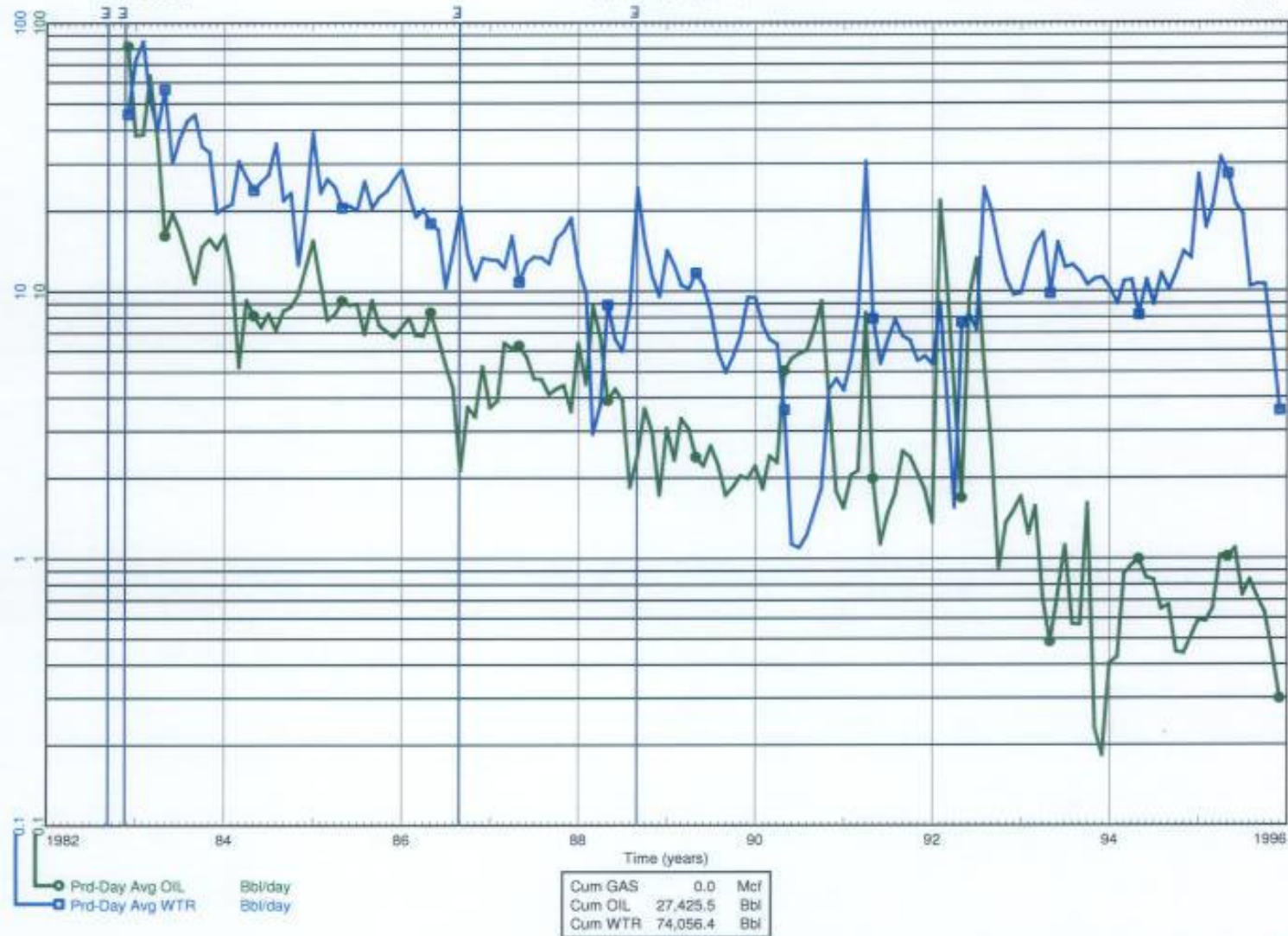
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1982-12
 To: 1995-12

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 100/10-27-001-26W1/00

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

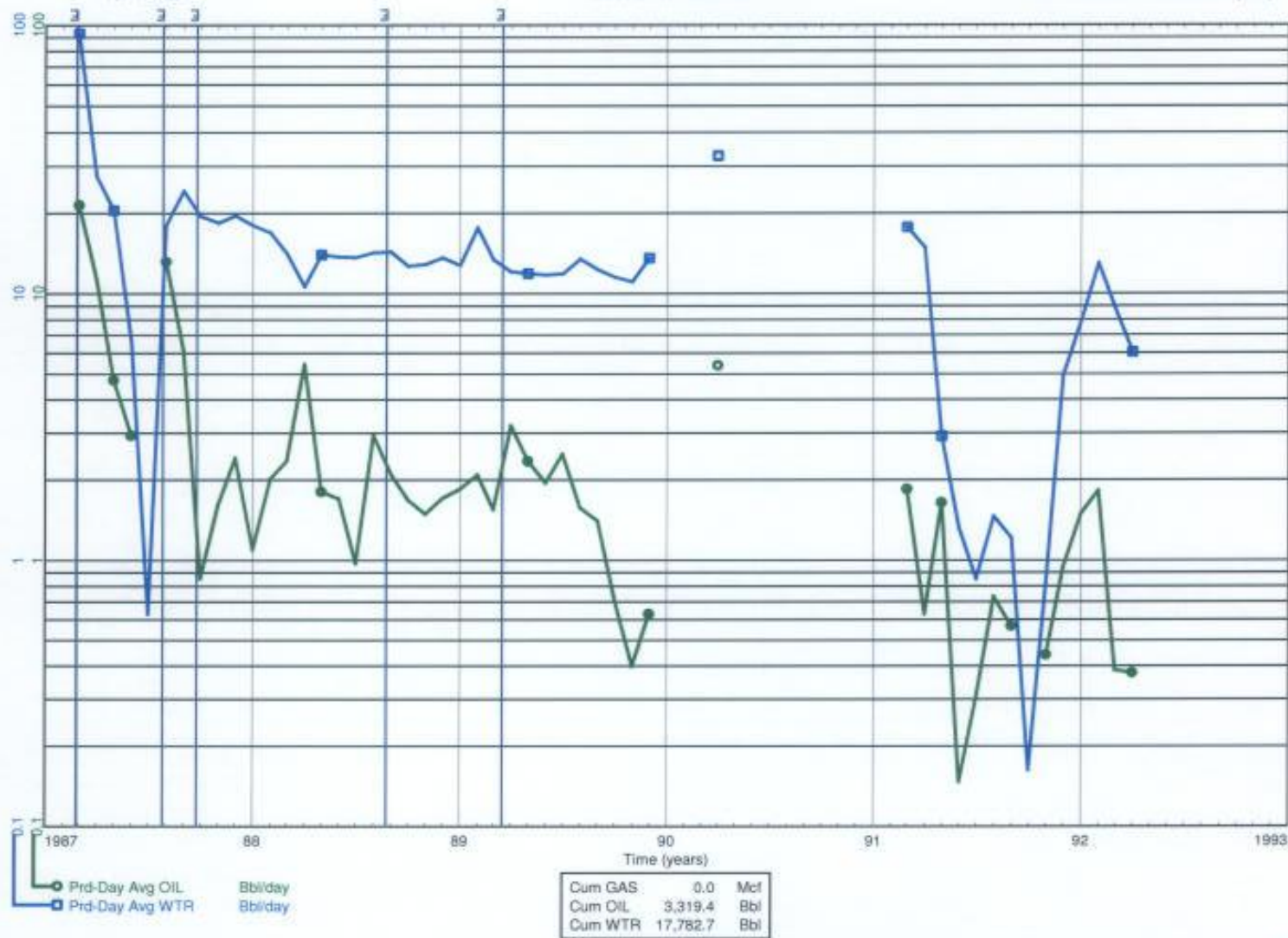


Friday, February 11, 2011, 03:42 PM

Data As Of: 2010-11 (MB)
 From: 1987-03
 To: 1992-04

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 102/09-27-001-26W1/02

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



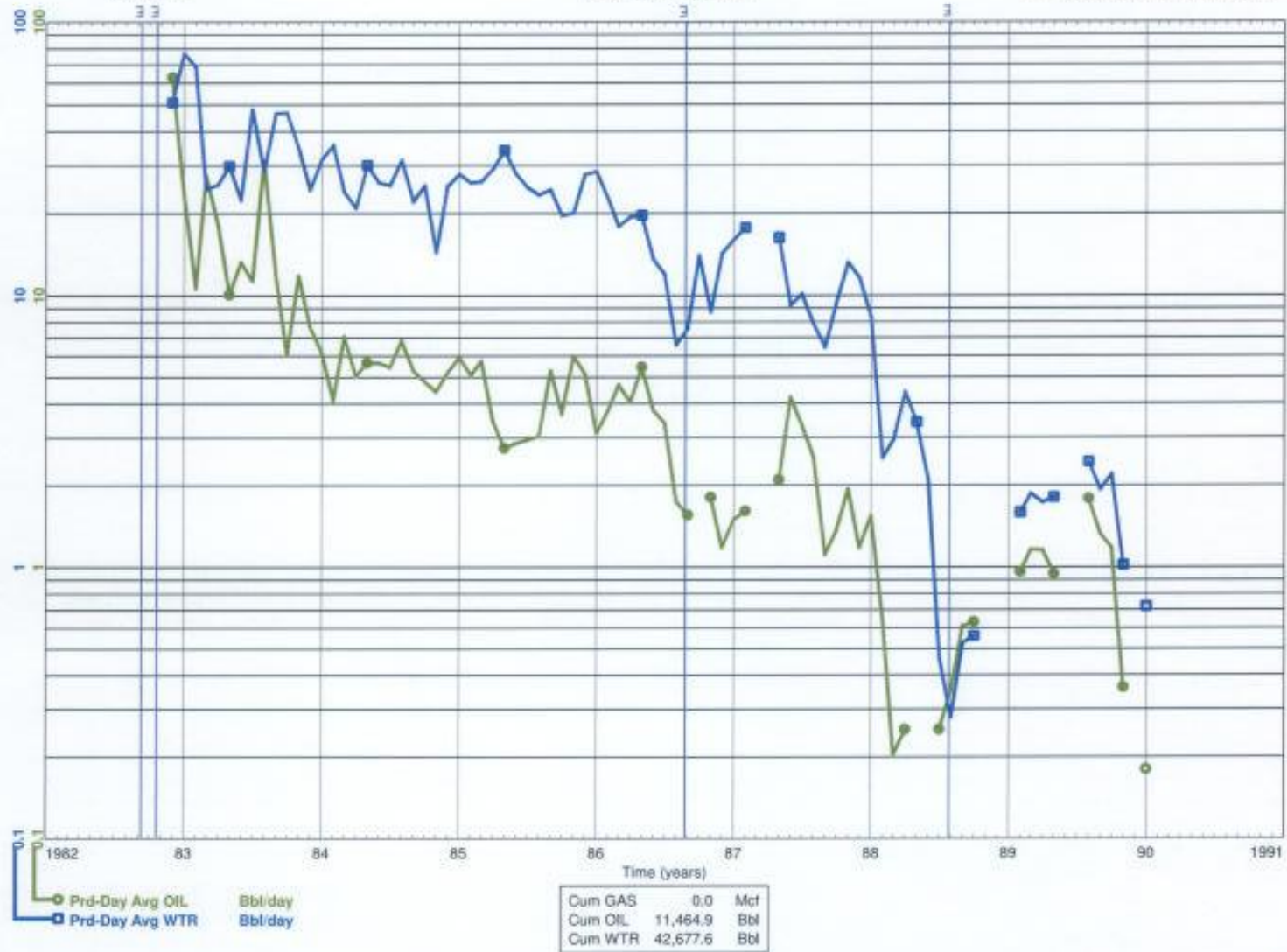
Friday, February 11, 2011, 03:42 PM

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 www.geoscout.com

Data As Of: 2011-01 (MB)
 From: 1982-12
 To: 1990-01

INDIVIDUAL PRODUCTION
 ~Omega Waskada~
 100/09-27-001-25W1/00

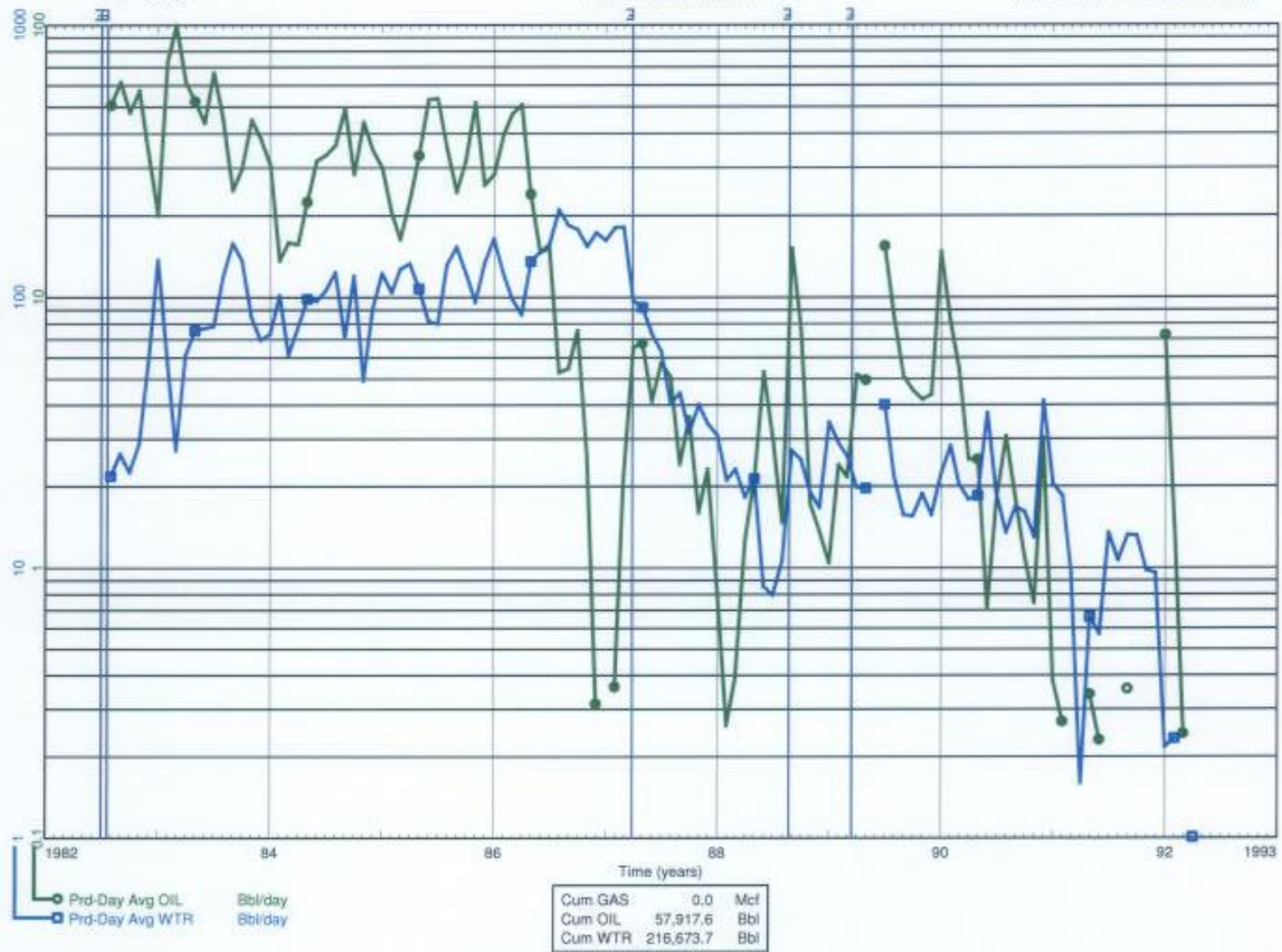
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1982-08
 To: 1992-04

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 100/08-27-001-26W1/00

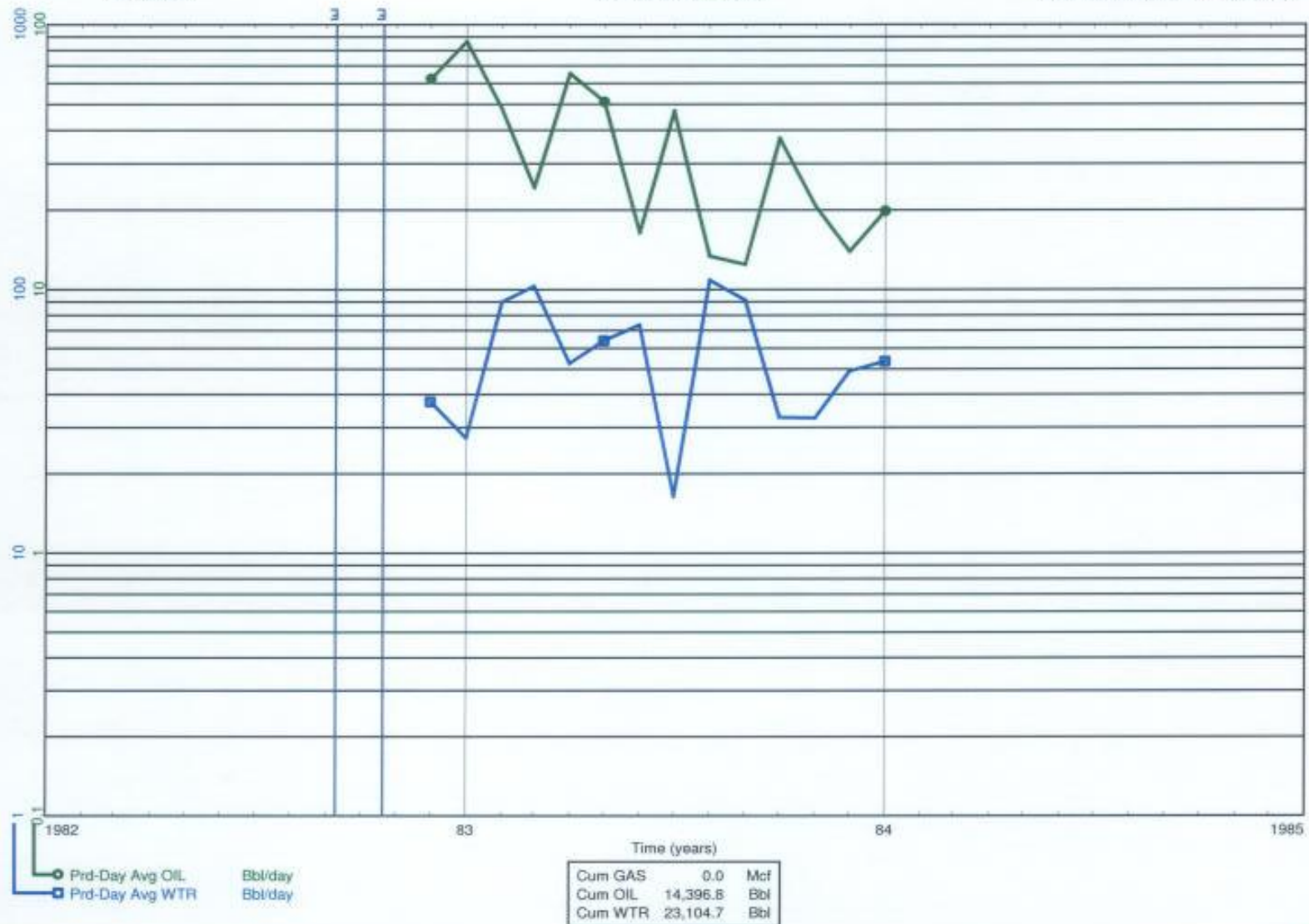
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1982-12
 To: 1984-01

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2 WIW
 100/07-27-001-26W1/00

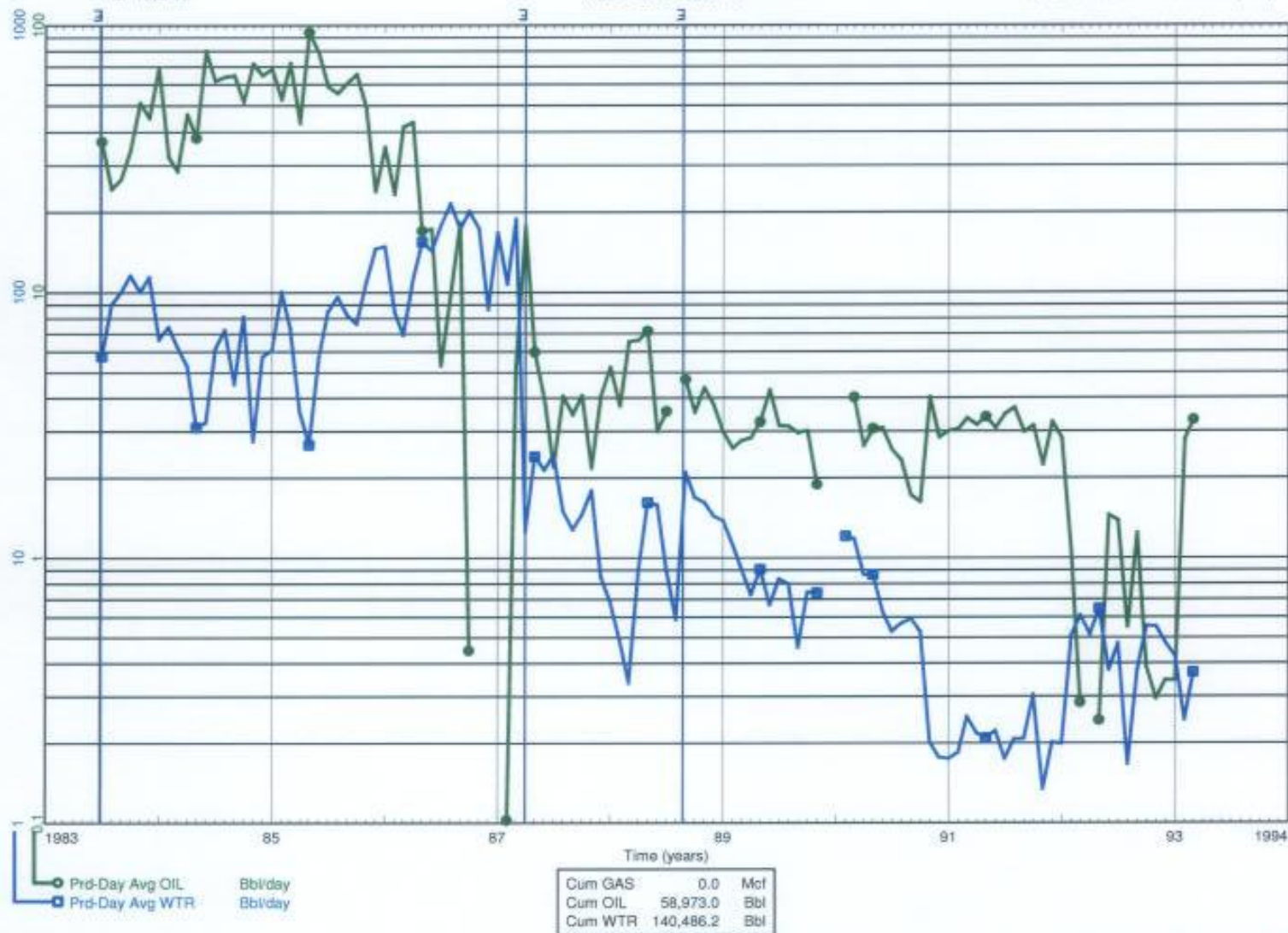
Status: Abandoned Water Inj Well
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1983-07
 To: 1993-03

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 102/06-27-001-26W1/00

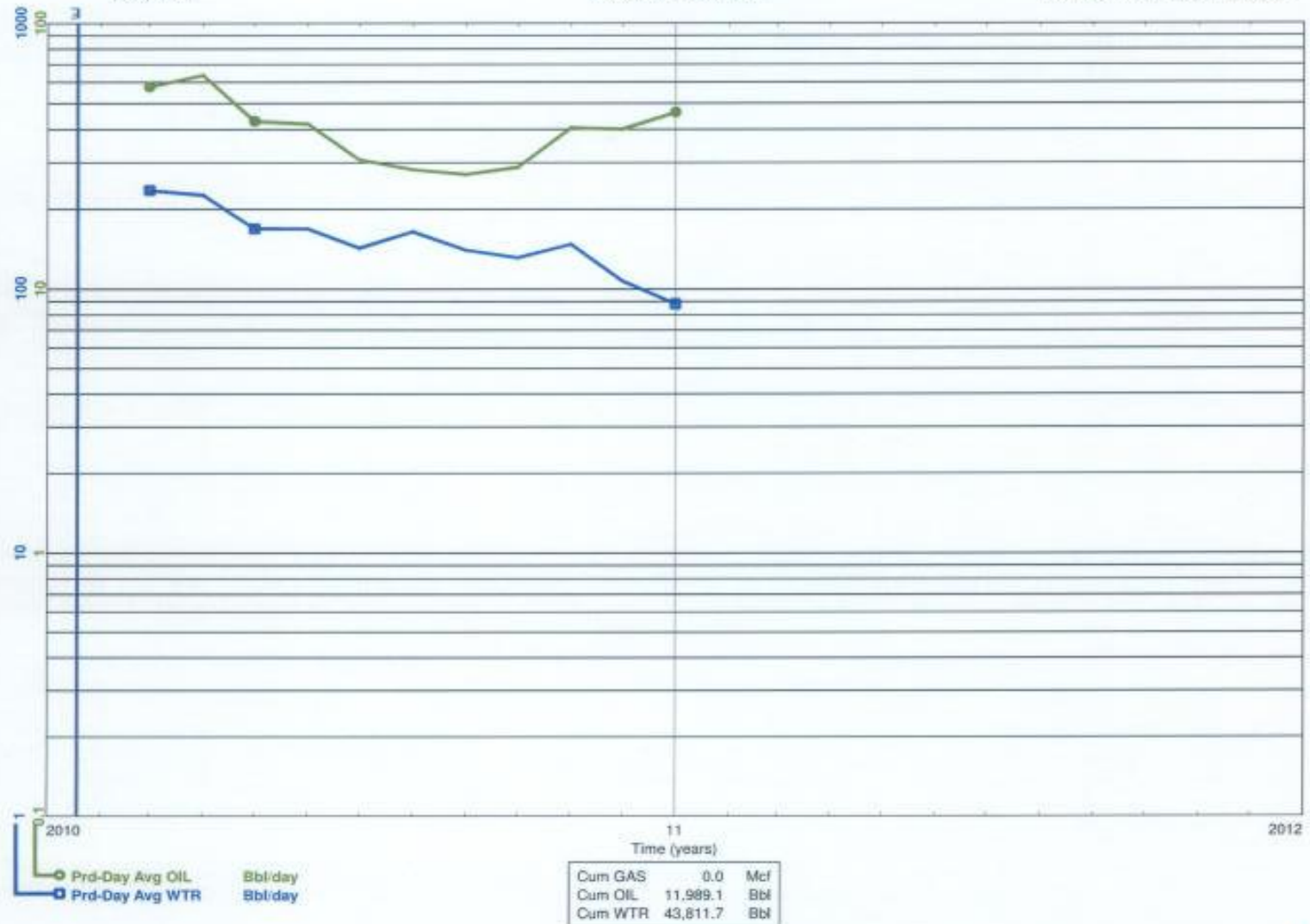
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-01 (MB)
 From: 2010-03
 To: 2011-01

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2 HZNTL
 102/05-27-001-26W1/00

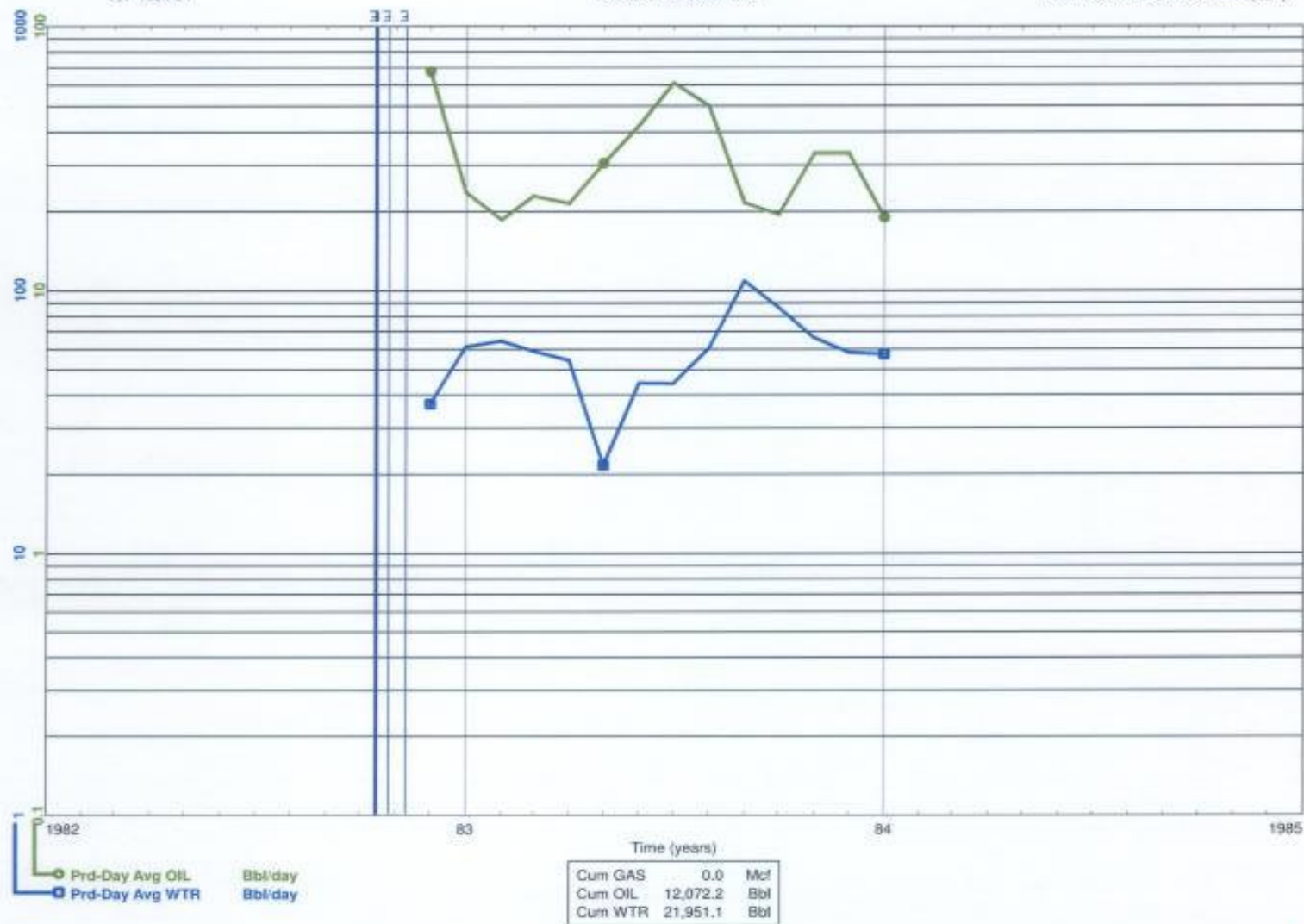
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-01 (MB)
 From: 1982-12
 To: 1984-01

INDIVIDUAL PRODUCTION
 Omega-Waskada-WIW
 100/05-27-001-26W1/00

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

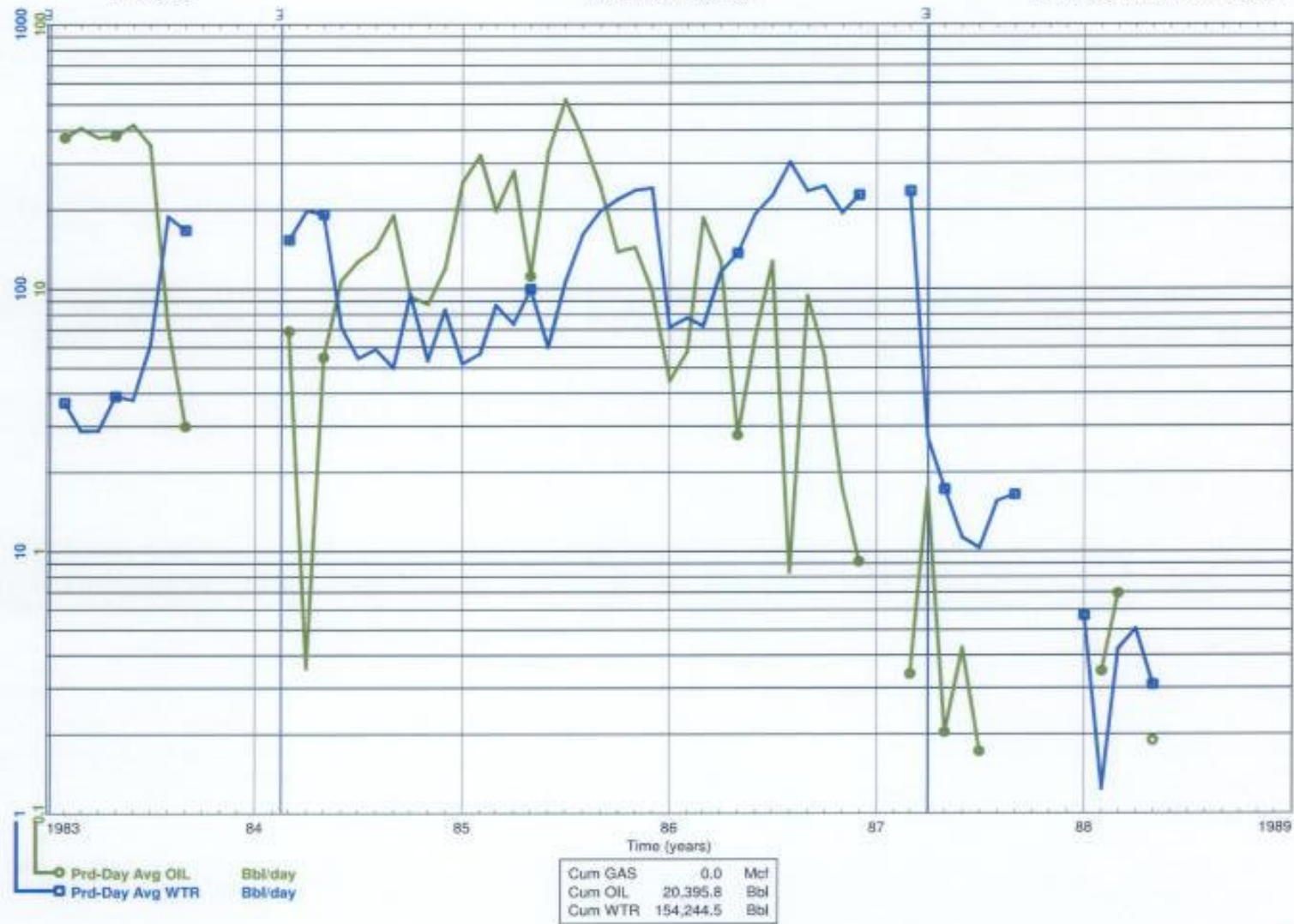


Thursday, April 21, 2011, 10:41 AM

Data As Of: 2011-01 (MB)
 From: 1983-02
 To: 1988-05

INDIVIDUAL PRODUCTION
 Omega Waskada
 100/04-27-001-26W1/00

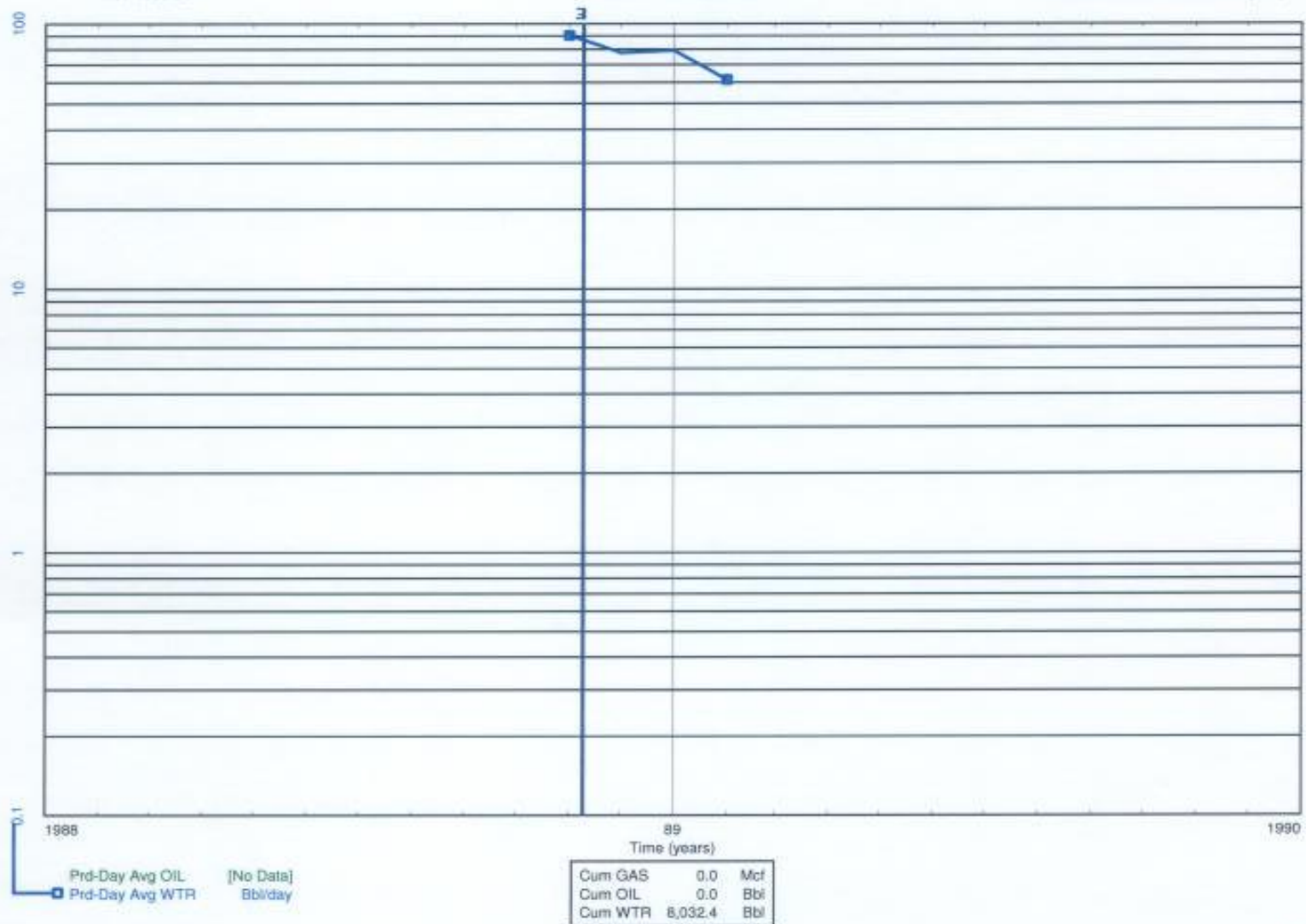
Status: Abandoned Producer
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2010-11 (MB)
 From: 1988-11
 To: 1989-02

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2 WIW
 102/03-27-001-26W1/02

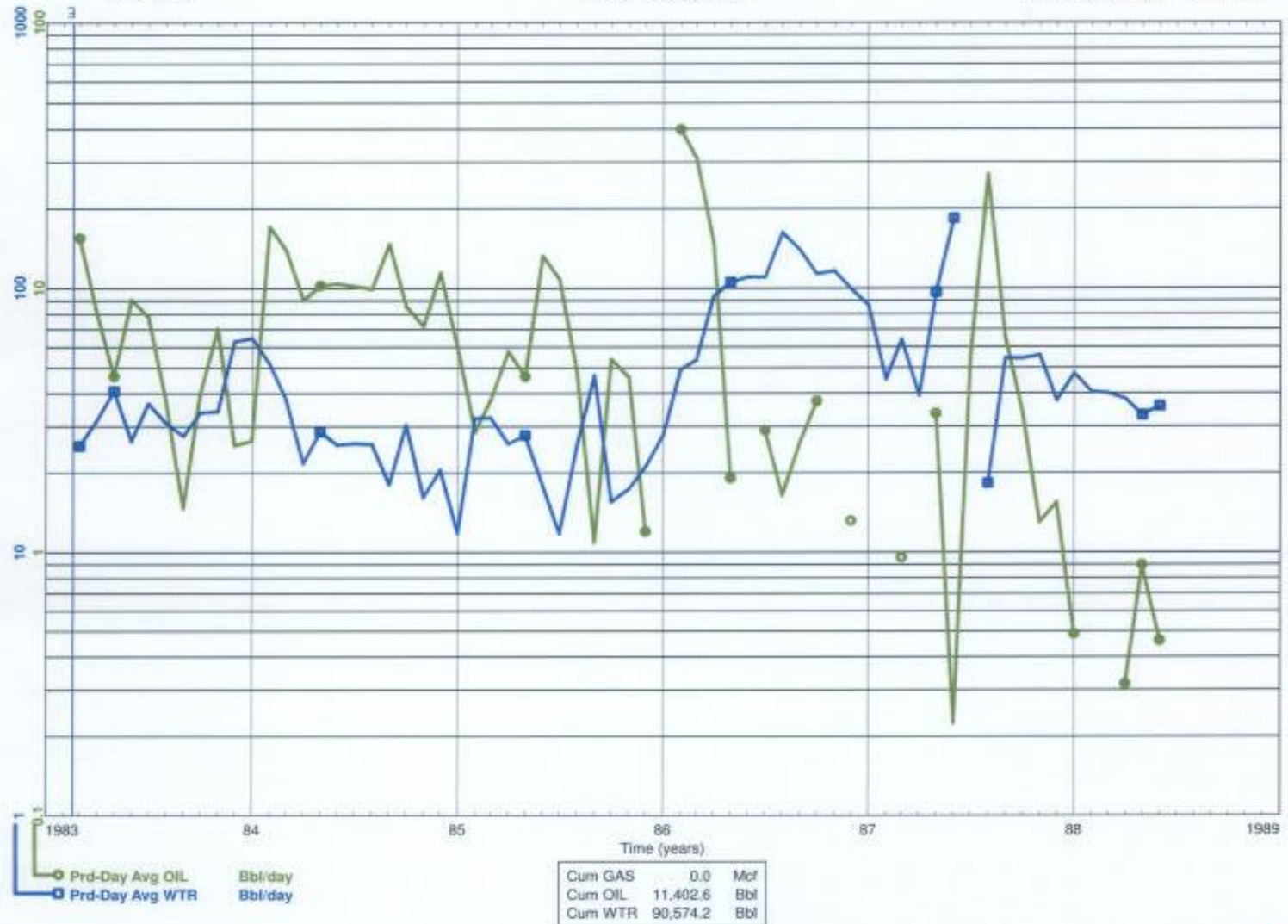
Status: Abandoned Dry
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)

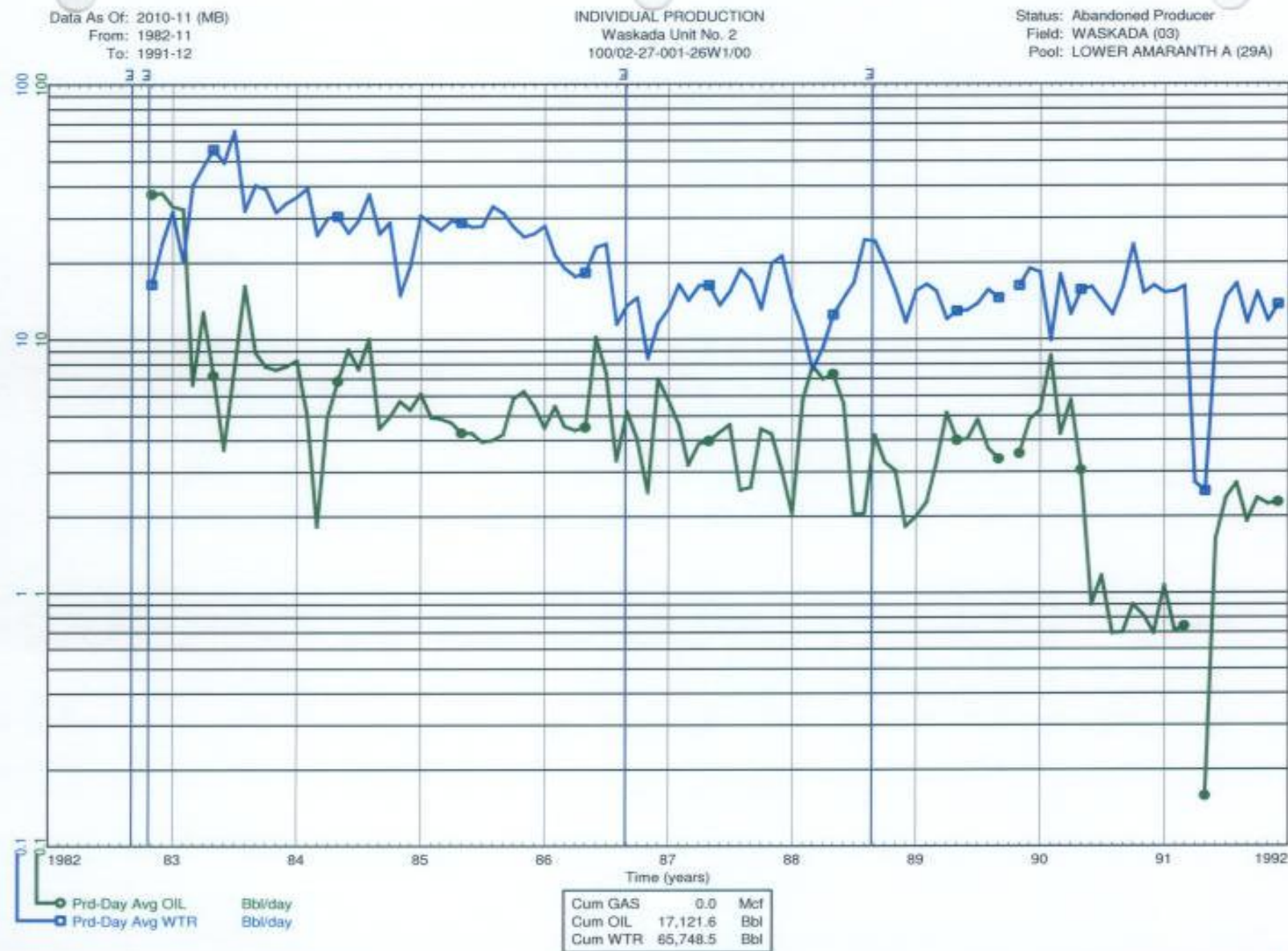


Data As Of: 2011-01 (MB)
 From: 1983-03
 To: 1988-06

INDIVIDUAL PRODUCTION
 Omega Waskada
 100/03-27-001-26W1/00

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

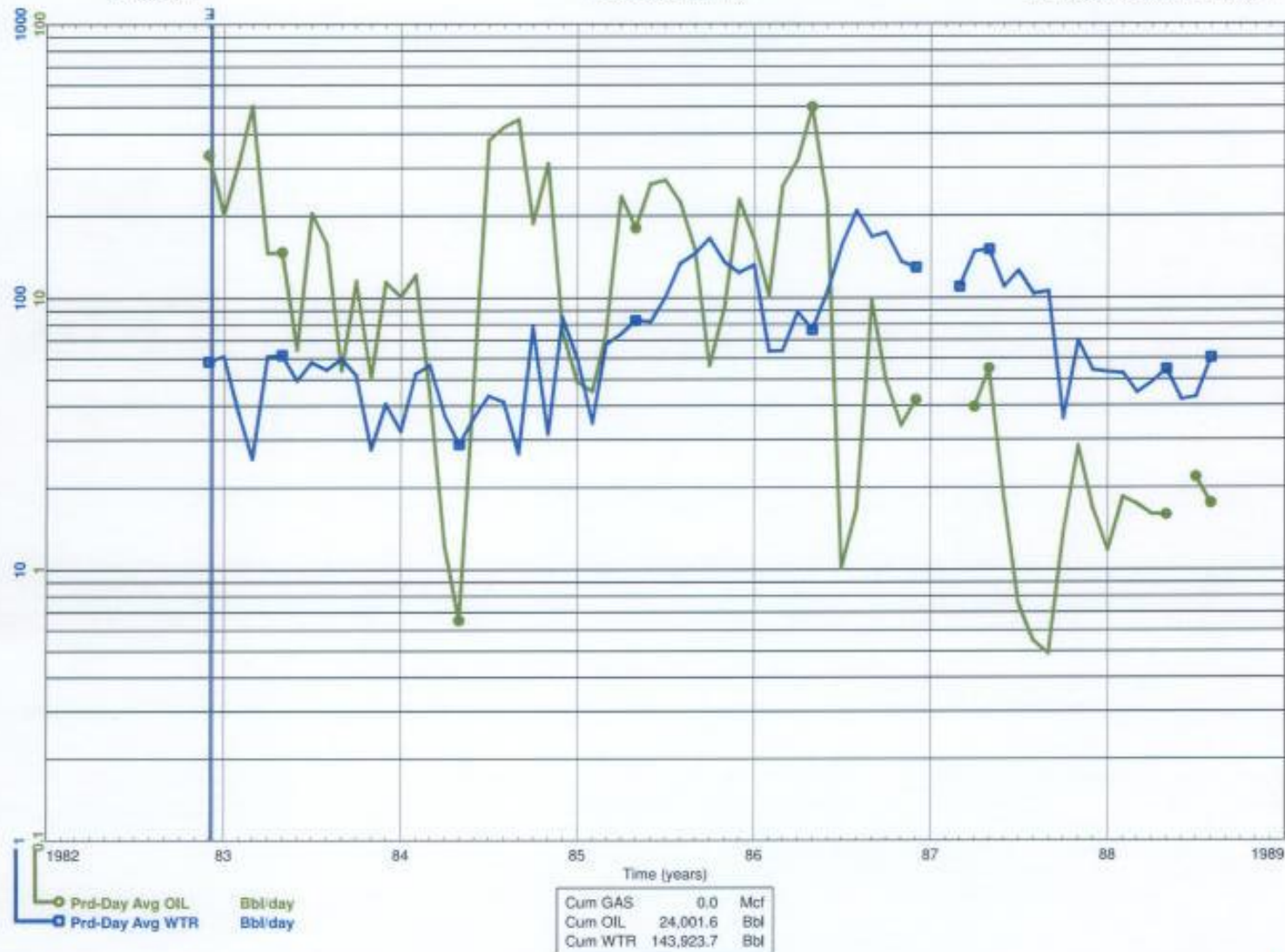


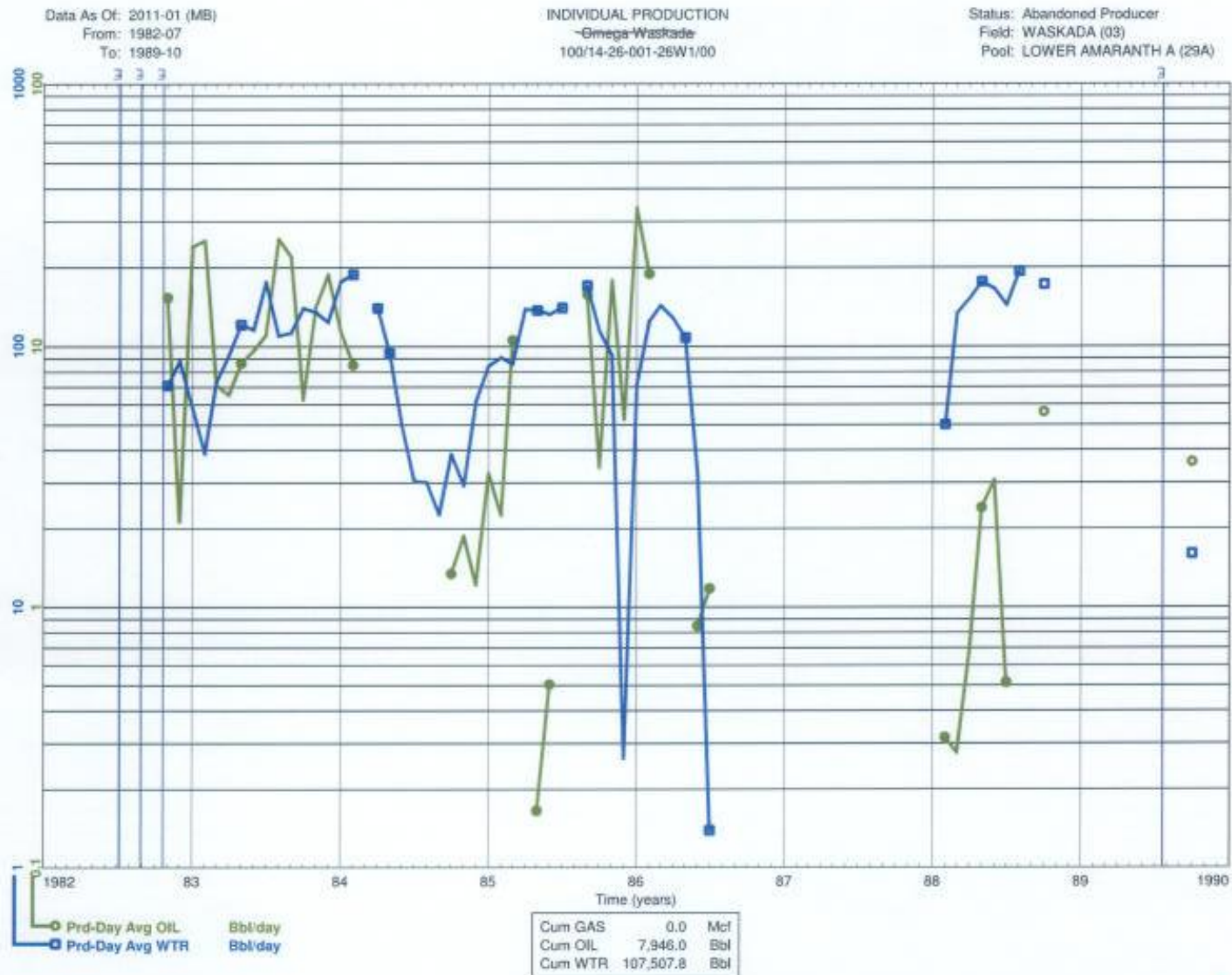


Data As Of: 2011-01 (MB)
 From: 1982-12
 To: 1988-08

INDIVIDUAL PRODUCTION
 Omega Waskada
 100/01-27-001-26W1/00

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



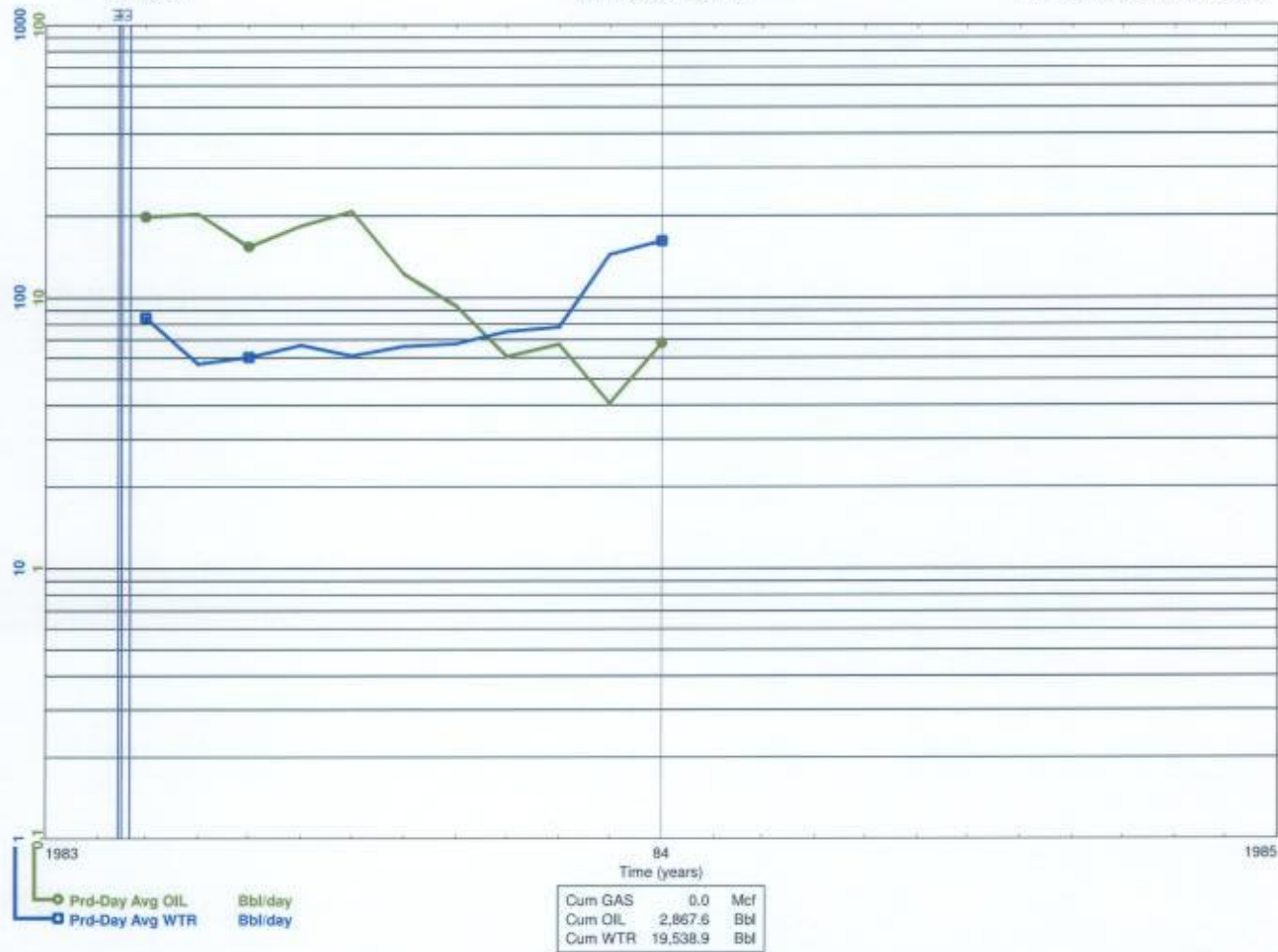


Thursday, April 21, 2011, 10:31 AM

Data As Of: 2011-01 (MB)
 From: 1983-03
 To: 1984-01

INDIVIDUAL PRODUCTION
 Omega Waskada-WWW
 100/13-25-001-25W1/00

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



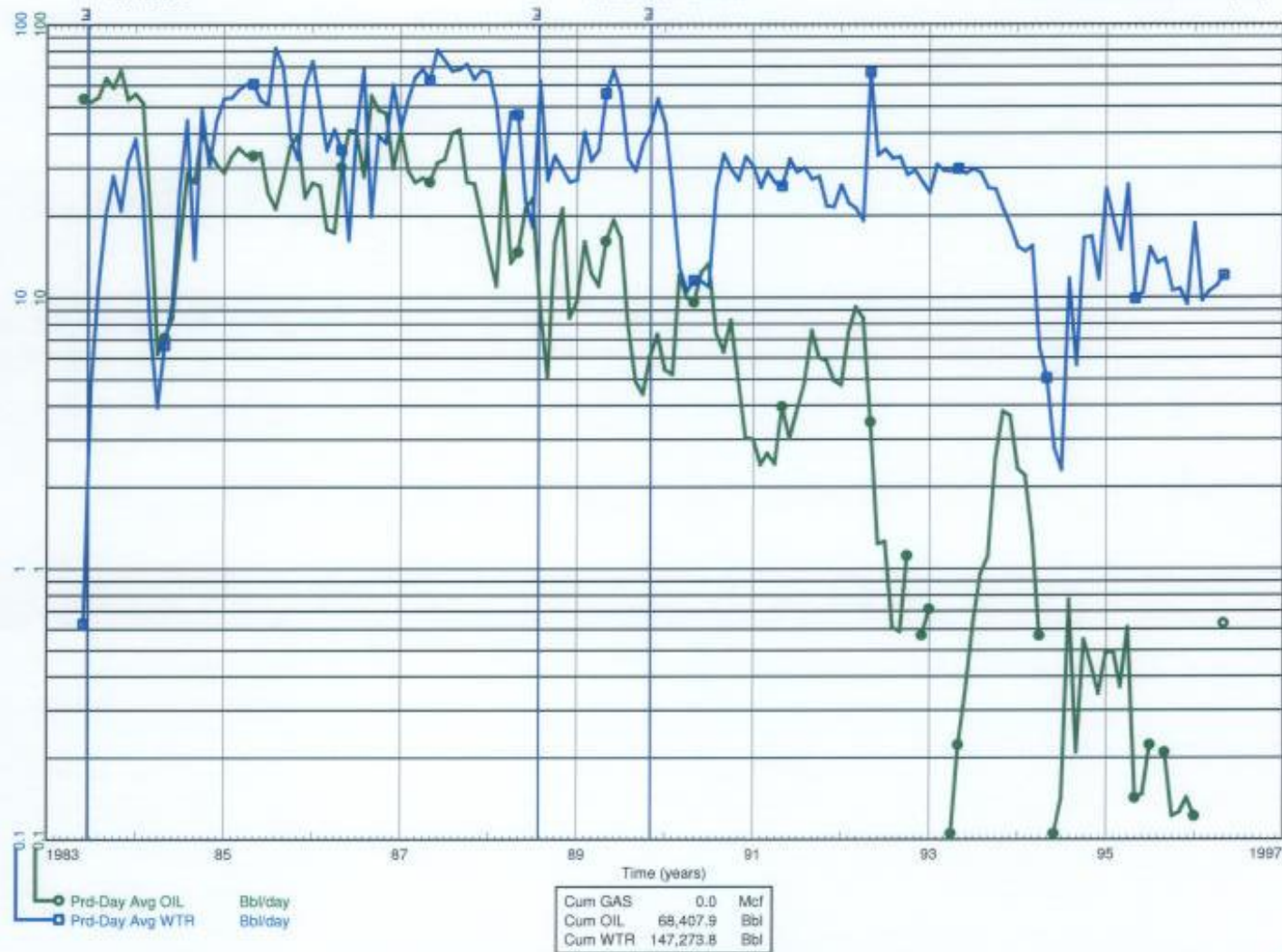
Thursday, April 21, 2011, 10:30 AM

geoSCOUT
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Data As Of: 2010-11 (MB)
 From: 1983-06
 To: 1996-05

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 102/12-26-001-26W1/00

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



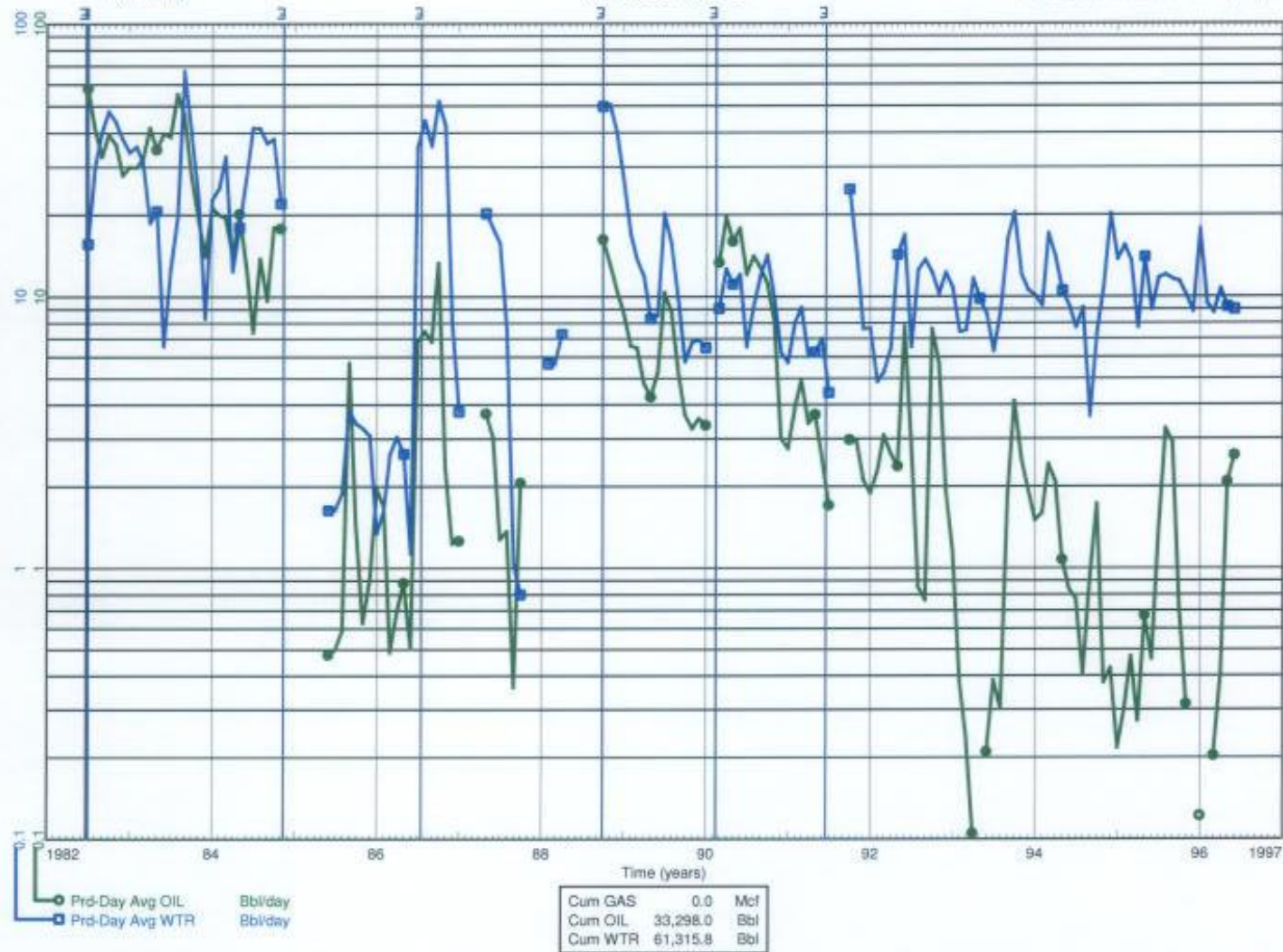
Friday, February 11, 2011, 03:39 PM

geoSCOUT
 www.geoscout.com

Data As Of: 2010-11 (MB)
 From: 1982-07
 To: 1996-06

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 100/11-26-001-26W1/00

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



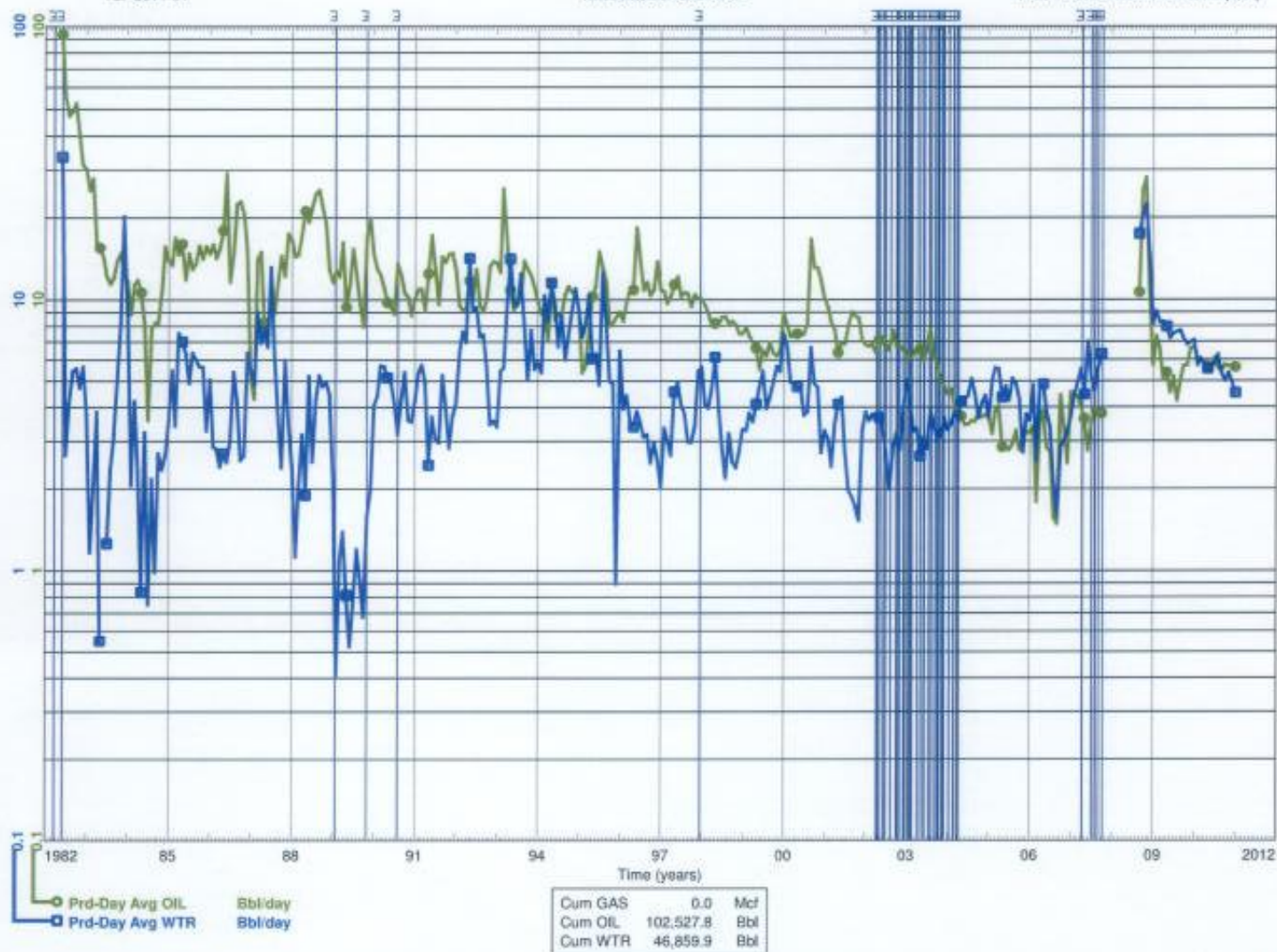
Friday, February 11, 2011, 03:39 PM

geoSCOUT
 www.geoscout.com

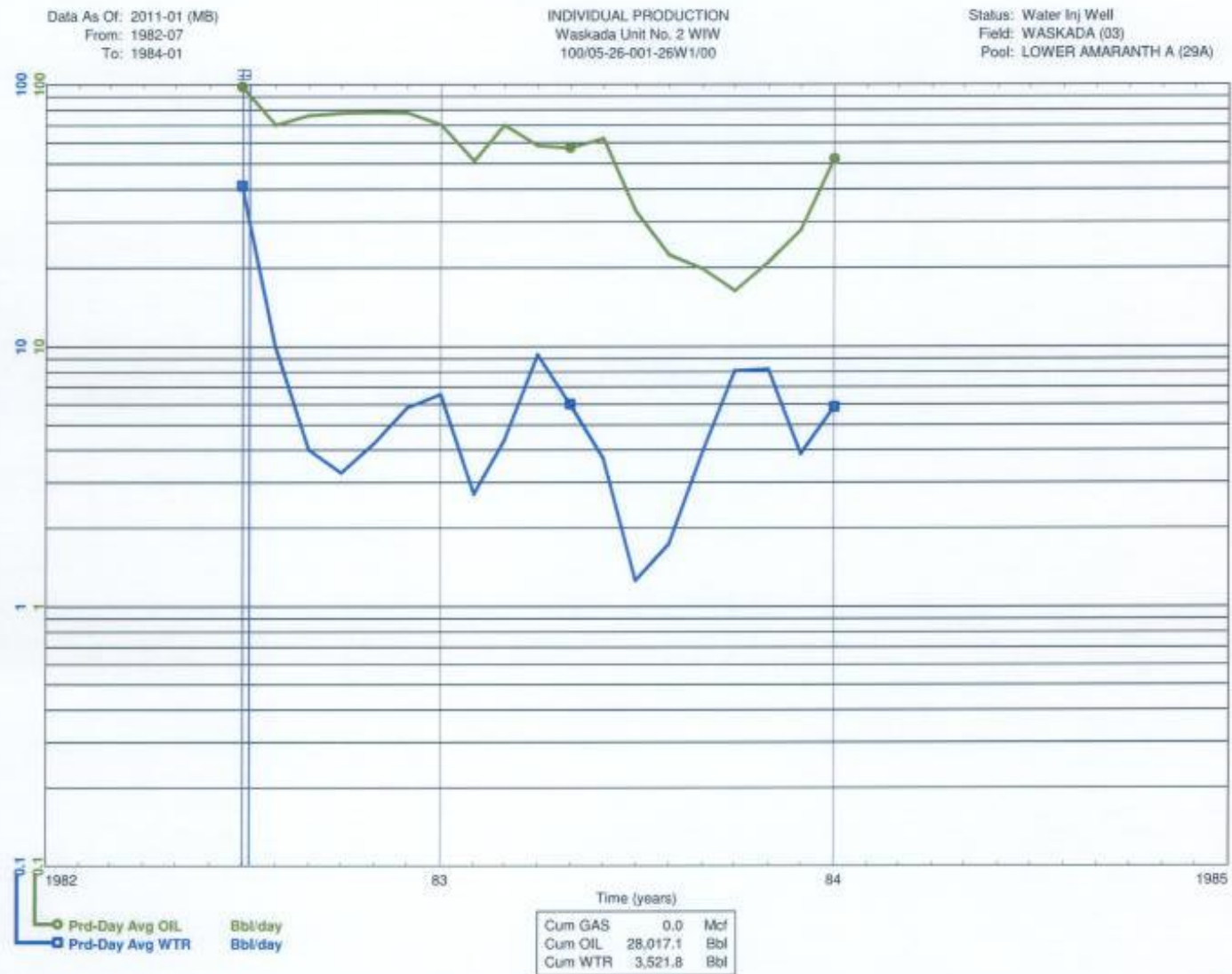
Data As Of: 2011-01 (MB)
 From: 1982-06
 To: 2011-01

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 100/06-26-001-26W1/00

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



Thursday, April 21, 2011, 10:29 AM

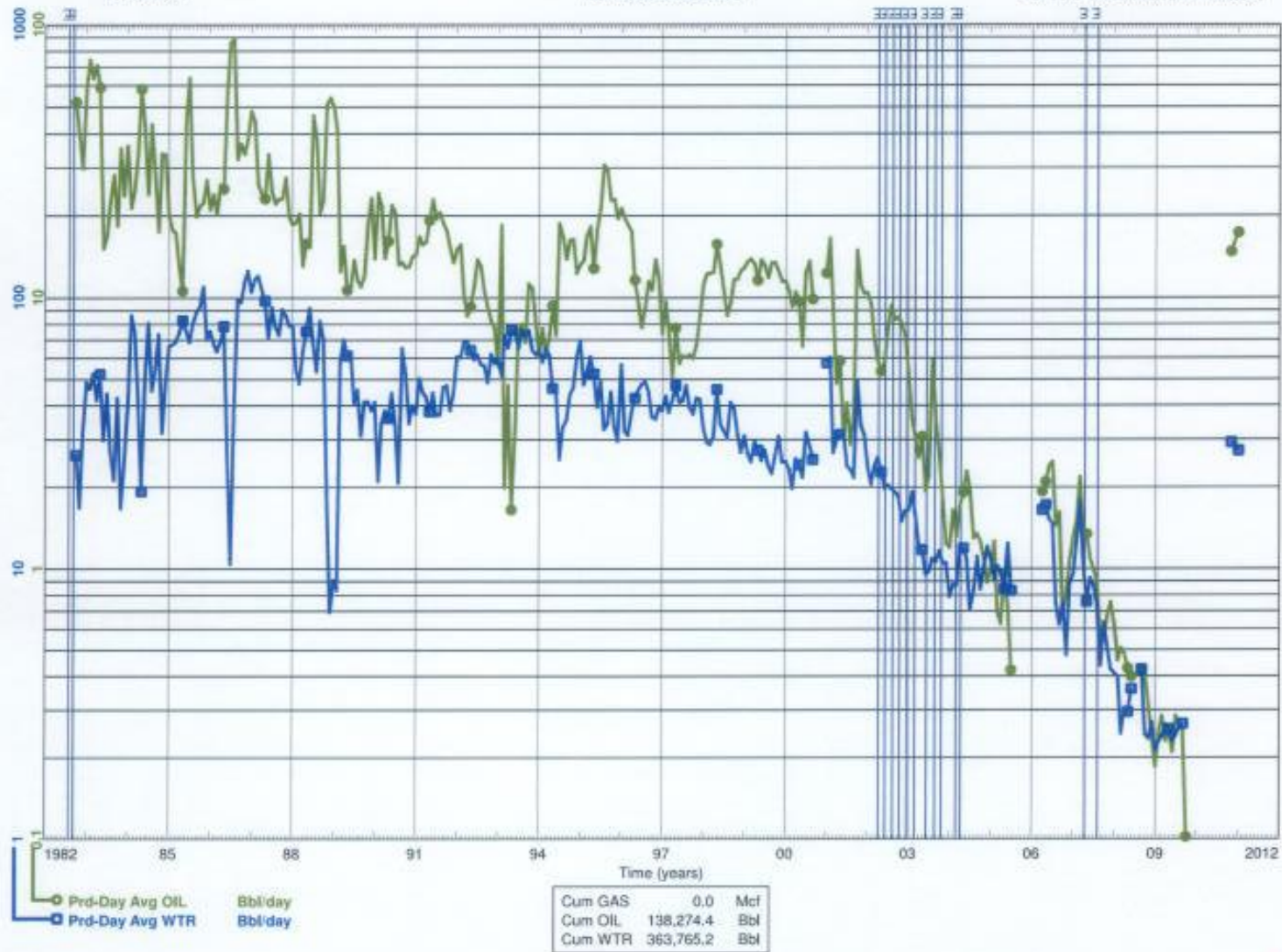


Thursday, April 21, 2011, 10:29 AM

Data As Of: 2011-01 (MB)
 From: 1982-10
 To: 2011-01

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 100/04-26-001-26W1/00

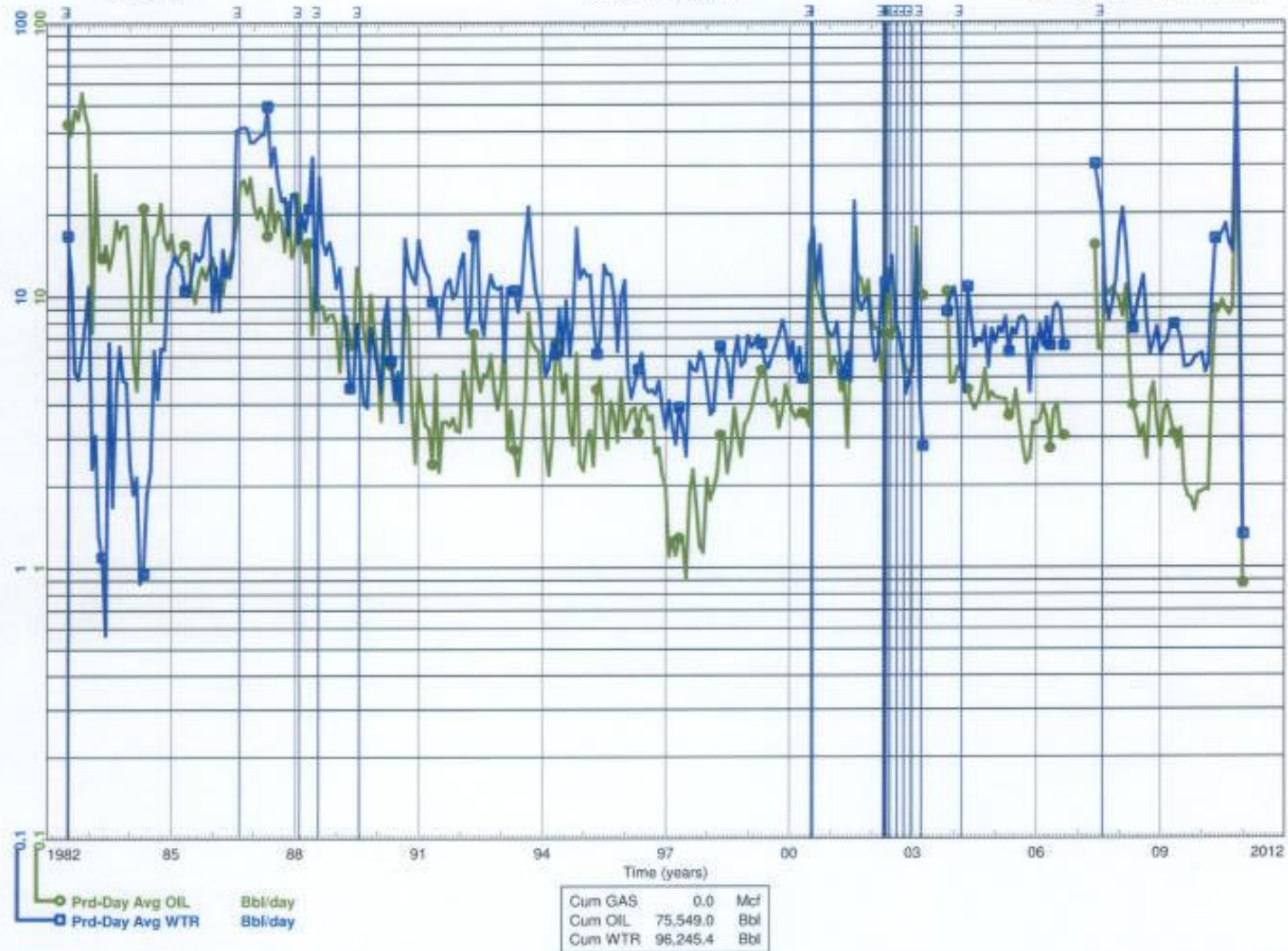
Status: Capable Of Oil Prod
 Field: WASKADA (03)
 Pool: LOWER AMARANTH A (29A)



Data As Of: 2011-01 (MB)
 From: 1982-07
 To: 2011-01

INDIVIDUAL PRODUCTION
 Waskada Unit No. 2
 100/03-26-001-26W1/00

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



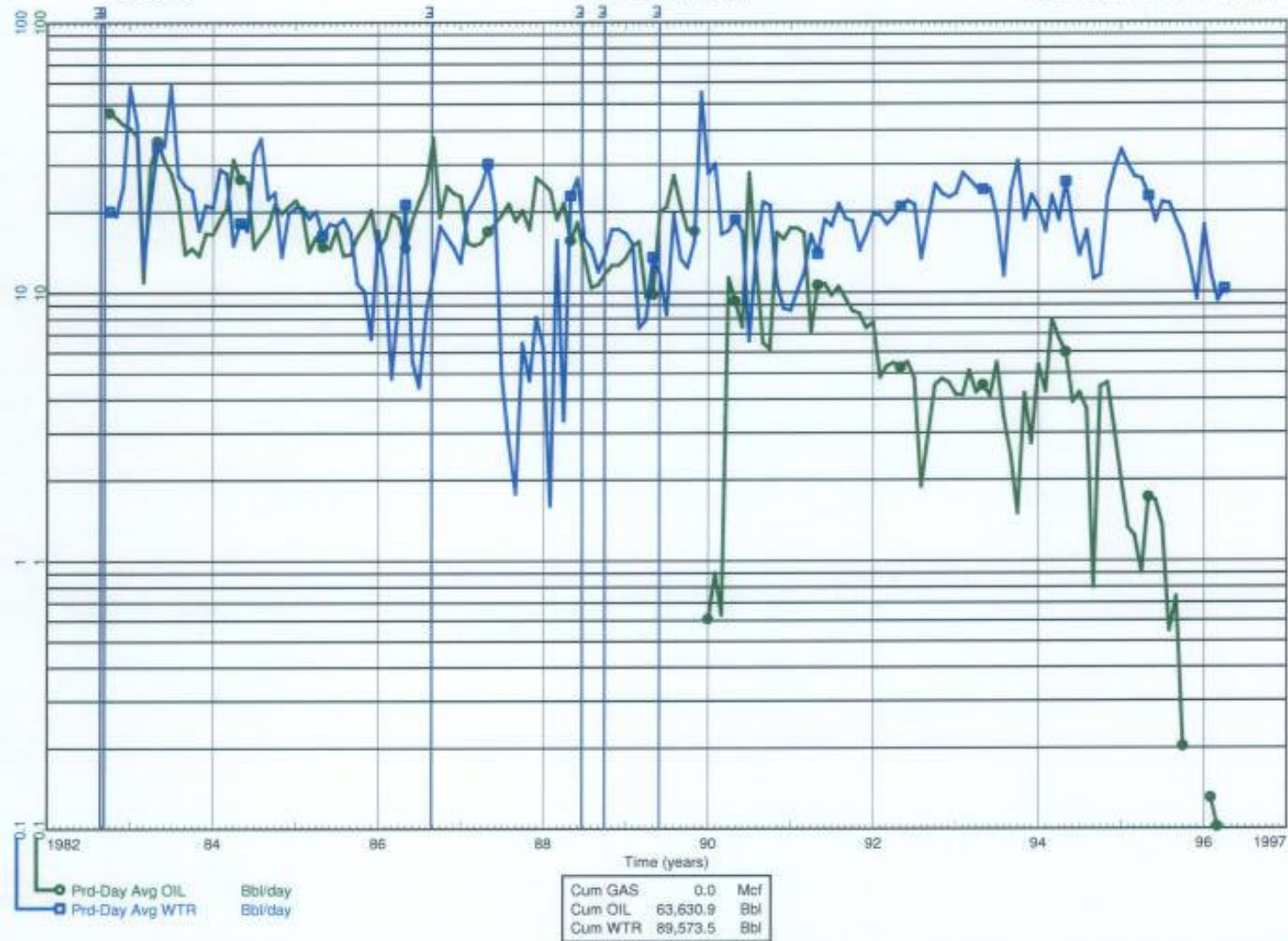
Thursday, April 21, 2011, 10:27 AM

geoSCOUT
 www.geoscout.com

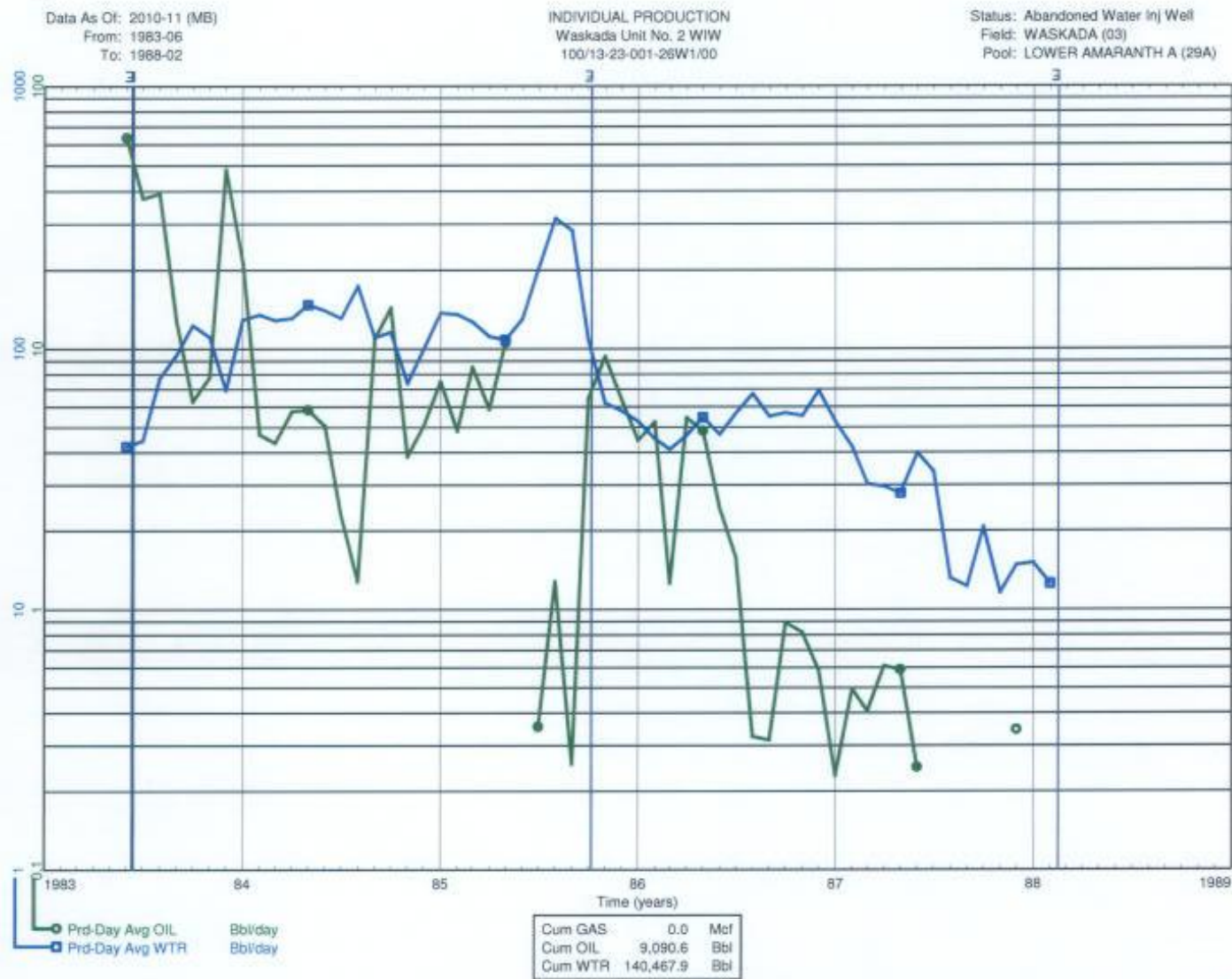
Data As Of: 2010-11 (MB)
From: 1982-10
To: 1996-04

INDIVIDUAL PRODUCTION
Waskada Unit No. 2
100/14-23-001-26W1/00

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



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Friday, February 11, 2011, 03:26 PM

geoSCOUT
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Data As Of: 2011-01 (MB)
 From: 1985-11
 To: 1987-04

INDIVIDUAL PRODUCTION
 -Omega.Waskada-
 100/14-22-001-26W1/00

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

