

**EOG Resources Canada Inc.**

Waskada Unit No. 18

*Waterflood Progress Report 2013*

January 1<sup>st</sup> through to December 31<sup>st</sup> 2013

Prepared for:

Manitoba Industry, Economic Development and Mines

Petroleum Branch

Prepared by:

EOG Resources Canada Inc.



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February 28, 2014

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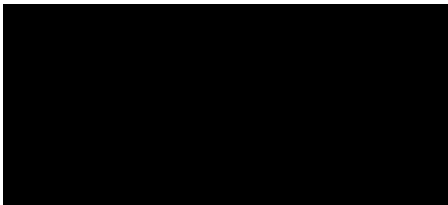
RE: Enhanced Oil Recovery Reports

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EOG Resources Canada Inc. (EOG) is submitting an Enhanced Oil Recovery Projects Reports to fulfill the requirements of subsection 73 of the Drilling and Production Regulations. We hope that this reports all requirements set forth.

If you have any questions or wish to discuss this report any further, please feel free to contact the undersigned.

Sincerely,



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## Unit 18 Discussion

### Introduction

The Waskada Unit No. 18 pressure maintenance project commenced water injection into the Lower Amaranth A pool in accordance with Manitoba Energy and Mines Order No. PM 68 dated October 1, 1991. Figure 1 shows a map of Unit No. 18.

Unit No. 18 consists of 35 wells (producers/shut in/abandoned/injectors) which are summarized in Table 1. Water injection commenced with 4 injector wells on October, 1991. Two more injector wells were added in March 2001. In 2011 EOG received permission to convert three Spearfish injection wells into Mississippian SWD wells, so there only 3 Spearfish injection wells remaining. There is currently one active injection well in the unit which was brought on in August of 2012 (02/12-21-001-25W1). There are currently 24 producing wells..

### Discussion

From January 1 to December 31 in 2013, Unit No. 18 produced 55,017 m<sup>3</sup> of total fluids (8,246 m<sup>3</sup> oil, 46,771 m<sup>3</sup> water), and injected 10,382 m<sup>3</sup> of source water, giving an annual oil and water voidage replacement ratio (VRR) of 0.2 for this reporting period. The cumulative oil and water VRR since injection commenced in October 1991 is 0.8. Table 2 summarizes the yearly and cumulative VRR for Unit No. 18. A formation volume factor of 1.15 was applied to the oil volumes when calculating the Produced Fluid Reservoir volumes. Disposal volumes that are injected into the 3 disposal wells are not included in these numbers because they are being injected into the Mississippian, and do not contribute to the VRR of the producing reservoir.

When the water injection commenced in 1991, there was no effect on production. In 2002, water injection rates fell off sharply as wellhead pressures increased. In 2009, the amount of water that could be injected was insignificant.

In 2010 & 2011 there was no water being injected into the producing formation (Spearfish). In 2012 the 02/12-21-001-25 well was converted from a horizontal producer to a horizontal injector. This horizontal injection trial has been active since August 2012. There has been no response in the offsetting producers to date. These results are graphed in Appendix A. The historical production and injection rates can be seen in Appendices B and C.

There have been no pressure surveys done on the reservoir.

Gas volumes from the field are measured at the 15-21-1-25W1M battery. There is no individual well gas volume measurement. It is not possible to separate out the gas production from only the wells in Unit No. 18, so the effectiveness of the pressure maintenance program cannot be evaluated on the GOR.

### Workovers

There were five workovers performed in 2013 in Unit No.18, consisting of three simple acid stimulations, and three pump repairs. A workover summary can be found in Table 5.

### Corrosion and Scale Prevention.

The facilities in Unit 17 are currently using cathodic protection and chemicals to protect against corrosion and scale. All facilities are monitored every 3 months to assess the corrosion and ensure that proper electrical current is being supplied. There have been no issues with corrosion or scale to date.

All water flood injection water is treated with biocide and scale inhibitor. Corrosion mitigation in the wells is achieved by either batch inhibition in the wells or continuous chemical injection down the annulus. A biocide chemical is added to the injection water to prevent any sulphide producing bacteria from forming

### Conclusion

EOG will continue to inject into the Horizontal Injection Trial well, 02/12-21-001-25W1. And will continue to monitor production and pressure performance to evaluate the feasibility of a wider scale Spearfish Horizontal Waterflood.

There are no current plans to drill any wells in Unit 18.

Figure 1 – Unit 18 MAP

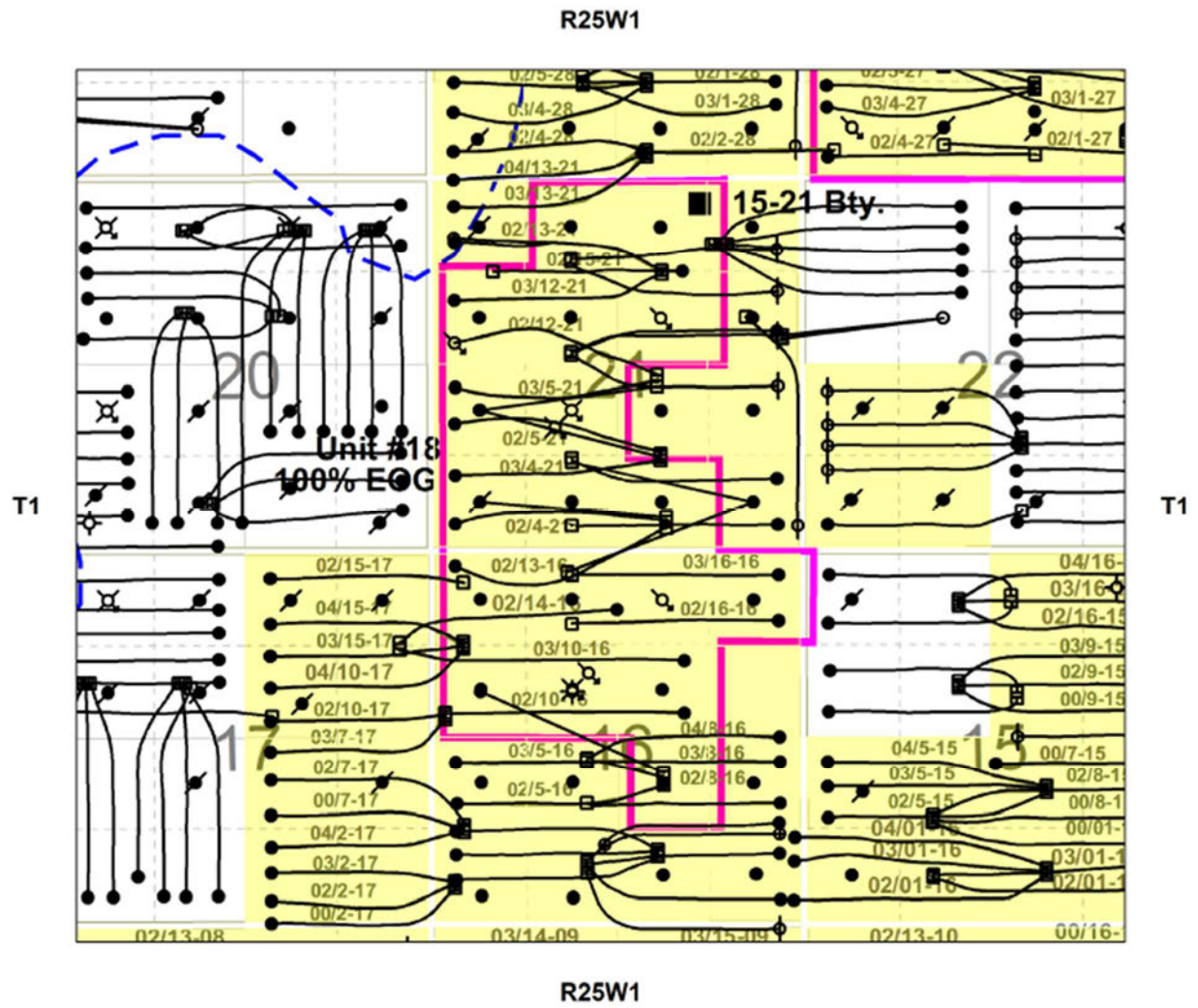


Table 1 – Summary of Unit 18 Wells

Well Location	Unit No.	Status	On Prod. Date	Cum Oil Prod. (m³)	Cum H2O Prod. (m³)	Last Prod. Date	On Inj. Date	Cum H2O Inj. (m³)	Last Inj. Date
100/02-21-001-25W1/00	18	prod	Jul-90	6,672	594	Active	n/a	n/a	n/a
100/03-21-001-25W1/00	18	prod	Mar-90	9,039	7,379	Active	n/a	n/a	n/a
100/04-21-001-25W1/00	18	abdn	Oct-90	3,219	2,476	Nov-00	n/a	n/a	n/a
100/05-21-001-25W1/00	18	prod	Feb-91	7,245	2,577	Active	n/a	n/a	n/a
100/06-21-001-25W1/00	18	abdn*	Nov-90	501	216	Oct-91	n/a	n/a	n/a
100/06-21-001-25W1/00	18	abdn	n/a	n/a	n/a	n/a	Oct-91	74,313	Mar-01
100/07-16-001-25W1/00	18	prod	Jul-90	6,849	404	Active	n/a	n/a	n/a
100/10-16-001-25W1/00	18	prod	Nov-90	8,797	897	Active	n/a	n/a	n/a
100/10-21-001-25W1/00	18	abdn**	Oct-90	841	210	Oct-91	n/a	n/a	n/a
100/10-21-001-25W1/00	18	SWD	n/a	n/a	n/a	n/a	Oct-91	201,583	Nov-09
100/11-21-001-25W1/00	18	prod	Jul-90	6,108	1,187	Active	n/a	n/a	n/a
100/12-16-001-25W1/00	18	prod	Nov-90	4,999	876	Active	n/a	n/a	n/a
100/12-21-001-25W1/00	18	prod	Oct-90	7,441	3,193	Active	n/a	n/a	n/a
100/13-16-001-25W1/00	18	prod	Feb-91	4,111	3,403	Active	n/a	n/a	n/a
100/14-16-001-25W1/00	18	prod	Jul-90	6,662	1,039	Active	n/a	n/a	n/a
100/14-21-001-25W1/00	18	prod	Mar-91	8,821	1,110	Active	n/a	n/a	n/a
100/15-16-001-25W1/00	18	abdn**	Mar-90	1,462	591	Oct-91	n/a	n/a	n/a
100/15-16-001-25W1/00	18	SWD	n/a	n/a	n/a	n/a	Oct-91	373,468	Sep-09
100/15-21-001-25W1/00	18	prod	Nov-90	6,363	751	Active	n/a	n/a	n/a
100/16-16-001-25W1/00	18	prod	Feb-91	5,446	13,505	Active	n/a	n/a	n/a
102/04-21-001-25W1/00	18	prod	Nov-10	5,600	2,726	Active	n/a	n/a	n/a
102/05-21-001-25W1/00	18	prod	Dec-10	6,204	8,007	Active	n/a	n/a	n/a
102/06-21-001-25W1/00	18	abdn	n/a	n/a	n/a	n/a	Mar-01	3,055	Nov-01
102/10-16-001-25W1/00	18	prod	Nov-09	9,338	11,087	Active	n/a	n/a	n/a
102/11-16-001-25W1/00	18	abdn*	Nov-89	1,894	236	Sep-91	n/a	n/a	n/a
102/11-16-001-25W1/00	18	abdn	n/a	n/a	n/a	n/a	Oct-91	75,629	Jun-06
102/12-21-001-25W1/00	18	abdn*	Dec-10	3,795	1,271	Mar-12	n/a	n/a	n/a
102/12-21-001-25W1/00	18	inj	n/a	n/a	n/a	n/a	Aug-12	19,309	active
102/13-16-001-25W1/00	18	prod	Nov-10	5,243	9,099	Active	n/a	n/a	n/a
102/13-21-001-25W1/00	18	prod	Dec-10	3,171	1,398	Active	n/a	n/a	n/a
102/15-21-001-25W1/00	18	prod	Oct-07	5,344	36,404	Active	n/a	n/a	n/a
102/16-16-001-25W1/00	18	abdn	Dec-09	1,102	77,562	Nov-10	n/a	n/a	n/a
103/04-21-001-25W1/00	18	prod	Dec-10	4,804	10,902	Active	n/a	n/a	n/a
103/05-21-001-25W1/00	18	prod	Dec-10	5,176	1,894	Active	n/a	n/a	n/a
103/10-16-001-25W1/00	18	prod	Feb-10	8,606	27,504	Active	n/a	n/a	n/a
103/11-16-001-25W1/00	18	SWD	n/a	n/a	n/a	n/a	Mar-01	184,234	Jun-09
103/12-21-001-25W1/00	18	prod	Dec-10	4,551	1,421	Active	n/a	n/a	n/a
103/16-16-001-25W1/00	18	prod	Oct-09	7,830	32,951	Active	n/a	n/a	n/a

Table 2 – Voidage Replacement Ratio Calculations

Year	Prod. Oil (m³)	Cum Prod. Oil (m³)	Prod. H <sub>2</sub> O (m³)	Cum Prod. H <sub>2</sub> O (m³)	Prod Fluid Rsvr (m³)	H <sub>2</sub> O Injected (m³)	Cum Prod. Fluid Rsvr (m³)	Cum H <sub>2</sub> O Injected (m³)	Annual VRR	Cum VRR (m³/m³)
1989	339	339	66	66	455	-	455	-	0.0	0.0
1990	6,979	7,318	1,784	1,850	9,811	-	10,265	-	0.0	0.0
1991	11,355	18,673	2,943	4,793	16,001	7,816	26,267	7,816	0.5	0.3
1992	6,805	25,478	1,169	5,962	8,995	25,867	35,261	33,683	2.9	1.0
1993	5,779	31,257	1,087	7,049	7,732	32,427	42,994	66,110	4.2	1.5
1994	5,221	36,478	1,032	8,081	7,037	32,903	50,030	99,013	4.7	2.0
1995	4,618	41,096	875	8,956	6,186	27,508	56,216	126,520	4.4	2.3
1996	4,438	45,534	920	9,877	6,024	29,853	62,241	156,373	5.0	2.5
1997	3,981	49,515	868	10,745	5,446	21,457	67,686	177,831	3.9	2.6
1998	3,820	53,335	886	11,630	5,279	24,241	72,965	202,071	4.6	2.8
1999	3,685	57,020	989	12,620	5,228	29,328	78,193	231,399	5.6	3.0
2000	3,465	60,485	2,836	15,456	6,820	18,424	85,013	249,823	2.7	2.9
2001	3,491	63,976	1,927	17,383	5,942	10,860	90,955	260,683	1.8	2.9
2002	3,290	67,266	1,486	18,868	5,269	2,940	96,224	263,623	0.6	2.7
2003	3,371	70,638	3,130	21,998	7,007	2,633	103,231	266,256	0.4	2.6
2004	3,543	74,180	6,738	28,737	10,812	1,707	114,044	267,962	0.2	2.3
2005	3,297	77,477	1,561	30,297	5,352	2,344	119,396	270,306	0.4	2.3
2006	3,135	80,612	1,492	31,789	5,097	2,155	124,492	272,461	0.4	2.2
2007	3,555	84,167	4,409	36,198	8,497	2,023	132,990	274,484	0.2	2.1
2008	4,386	88,552	9,403	45,601	14,446	2,398	147,436	276,882	0.2	1.9
2009	5,031	93,584	9,428	55,029	15,214	1,924	162,650	278,806	0.1	1.7
2010	24,369	117,952	90,615	145,644	118,639	-	281,289	278,806	0.0	1.0
2011*	29,301	147,253	50,589	196,233	84,285	-	365,574	278,806	0.0	0.8
2012*	13,115	160,368	32,354	228,587	47,436	8,927	413,010	287,733	0.2	0.7
2013	8,246	168,614	46,771	275,358	56,254	10,382	469,264	298,114	0.2	0.6
<b>TOTAL</b>	<b>147,253</b>		<b>196,233</b>		<b>365,574</b>	<b>287,733</b>				<b>0.8</b>

**NOTE: A FORMATION VOLUME FACTOR OF 1.15 WAS USED**

\*Values for 2011 & 2012 have been corrected since the 2012 Report to exclude disposal volumes because they are disposing into the Mississippian and do not contribute to the Voidage Replacement of a reservoir.



Table 3. a) – Summary of Injection Wells

Well Location	Date	Hours On	H <sub>2</sub> O Inj Cal-d avg (m <sup>3</sup> /d)	H <sub>2</sub> O Inj Prd-d avg (m <sup>3</sup> /d)	Monthly Injected H <sub>2</sub> O (m <sup>3</sup> )	Wellhead Inj Pressure (kPa)
00/10-21-001-25W1/0 Disposal Well	Jan-13	744	329	329	10,202	5,235
	Feb-13	672	337	337	9,431	5,149
	Mar-13	744	345	345	10,697	5,304
	Apr-13	720	335	335	10,059	5,189
	May-13	744	345	345	10,704	5,212
	Jun-13	720	343	343	10,297	5,069
	Jul-13	744	365	365	11,325	5,267
	Aug-13	216	102	350	3,150	5,254
	Sep-13	-	-	-	-	5,299
	Oct-13	-	-	-	-	5,299
	Nov-13	274	156	374	4,687	5,329
	Dec-13	-	-	-	-	5,349
2013 Totals:		5,578			80,552	

Well Location	Date	Hours On	H <sub>2</sub> O Inj Cal-d avg (m <sup>3</sup> /d)	H <sub>2</sub> O Inj Prd-d avg (m <sup>3</sup> /d)	Monthly Injected H <sub>2</sub> O (m <sup>3</sup> )	Wellhead Inj Pressure (kPa)
00/15-16-001-25W1/0 Disposal Well	Jan-13	744	489	489	15,146	4,648
	Feb-13	672	491	491	13,760	4,635
	Mar-13	744	500	500	15,508	4,796
	Apr-13	720	493	493	14,798	4,768
	May-13	744	513	513	15,897	4,806
	Jun-13	720	522	522	15,666	4,678
	Jul-13	744	552	552	17,112	4,960
	Aug-13	744	607	607	18,832	5,288
	Sep-13	720	622	622	18,655	5,334
	Oct-13	744	593	593	18,393	5,261
	Nov-13	720	576	576	17,280	5,181
	Dec-13	744	609	609	18,894	5,467
2013 Totals:		8,760			199,941	

Well Location	Date	Hours On	H <sub>2</sub> O Inj Cal-d avg (m <sup>3</sup> /d)	H <sub>2</sub> O Inj Prd-d avg (m <sup>3</sup> /d)	Monthly Injected H <sub>2</sub> O (m <sup>3</sup> )	Wellhead Inj Pressure (kPa)
03/11-16-001-25W1/0 Disposal Well	Jan-13	744	356	356	11,022	3,729
	Feb-13	672	362	362	10,136	3,735
	Mar-13	744	368	368	11,417	3,803
	Apr-13	720	355	355	10,663	3,780
	May-13	744	338	338	10,480	3,543
	Jun-13	720	289	289	8,679	3,273
	Jul-13	744	271	271	8,389	3,024
	Aug-13	744	386	386	11,963	4,087
	Sep-13	720	425	425	12,755	4,248
	Oct-13	744	407	407	12,631	4,125
	Nov-13	720	360	360	10,788	3,801
	Dec-13	744	357	357	11,074	4,676
2013 Totals:		8,760			129,998	

Well Location	Date	Hours On	H <sub>2</sub> O Inj Cal-d avg (m <sup>3</sup> /d)	H <sub>2</sub> O Inj Prd-d avg (m <sup>3</sup> /d)	Monthly Injected H <sub>2</sub> O (m <sup>3</sup> )	Wellhead Inj Pressure (kPa)
02/12-21-001-25W1/0	Jan-13	744	25	25	786	3,828
	Feb-13	672	26	26	736	4,085
	Mar-13	744	29	29	884	4,359
	Apr-13	720	29	29	868	4,426
	May-13	648	26	28	803	4,564
	Jun-13	720	27	27	815	4,502
	Jul-13	744	27	27	847	4,512
	Aug-13	280	12	32	373	4,358
	Sep-13	720	29	29	878	4,415
	Oct-13	744	32	32	1,006	4,813
	Nov-13	720	33	33	992	4,717
	Dec-13	744	45	45	1,394	4,540
2013 Totals:		8,200			10,382	

Table 3. b) – Summary of Injection Wells

**Unit No. 18 Total:**

<b>Date</b>	<b>H<sub>2</sub>O Inj Cal-d avg (m<sup>3</sup>/d)</b>	<b>Yearly Injected H<sub>2</sub>O (m<sup>3</sup>)</b>
1989	-	-
1990	-	-
1991	21	7,816
1992	71	25,867
1993	89	32,427
1994	90	32,903
1995	75	27,508
1996	82	29,853
1997	59	21,457
1998	66	24,241
1999	80	29,328
2000	50	18,424
2001	30	10,860
2002	8	2,940
2003	7	2,633
2004	5	1,707
2005	6	2,344
2006	6	2,155
2007	6	2,023
2008	7	2,398
2009	5	1,924
2010	-	-
2011	-	-
2012	24	8,927
2013	28	10,382
<b>Group Totals:</b>		<b>278,806</b>

NOTE: Disposal Wells are not included in these totals because they do not contribute to the Pressure Maintenance of the Reservoir.

Table 4 – Summary of Producing Wells

Well Location	Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)
00/02-21-001-25W1/0	Jan-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	Feb-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	Mar-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	Apr-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	May-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	Jun-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	Jul-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	Aug-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	Sep-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	Oct-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	Nov-13	0	0	0	0	0	0	0	0
00/02-21-001-25W1/0	Dec-13	0	0	0	0	0	0	0	0
<b>00/02-21-001-25W1/0</b>	<b>Subtotal</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
00/03-21-001-25W1/0	Jan-13	744	33.12	1.07	1.07	23.81	0.77	0.77	0.72
00/03-21-001-25W1/0	Feb-13	672	30.81	1.1	1.1	22.31	0.8	0.8	0.72
00/03-21-001-25W1/0	Mar-13	619	20.71	0.67	0.8	15.31	0.49	0.59	0.74
00/03-21-001-25W1/0	Apr-13	720	18.11	0.6	0.6	13.51	0.45	0.45	0.75
00/03-21-001-25W1/0	May-13	744	19.51	0.63	0.63	14.81	0.48	0.48	0.76
00/03-21-001-25W1/0	Jun-13	720	24.11	0.8	0.8	17.51	0.58	0.58	0.73
00/03-21-001-25W1/0	Jul-13	744	29.81	0.96	0.96	22.11	0.71	0.71	0.74
00/03-21-001-25W1/0	Aug-13	744	31.31	1.01	1.01	21.31	0.69	0.69	0.68
00/03-21-001-25W1/0	Sep-13	720	21.61	0.72	0.72	20.71	0.69	0.69	0.96
00/03-21-001-25W1/0	Oct-13	744	16.91	0.55	0.55	21.61	0.7	0.7	1.28
00/03-21-001-25W1/0	Nov-13	720	18.01	0.6	0.6	23.21	0.77	0.77	1.29
00/03-21-001-25W1/0	Dec-13	744	16.01	0.52	0.52	19.81	0.64	0.64	1.24
<b>00/03-21-001-25W1/0</b>	<b>Subtotal</b>	<b>8,635</b>	<b>280.0</b>	<b>9.2</b>	<b>9.4</b>	<b>236.0</b>	<b>7.8</b>	<b>7.9</b>	<b>10.6</b>
00/05-21-001-25W1/0	Jan-13	744	17.21	0.56	0.56	1.4	0.05	0.05	0.08
00/05-21-001-25W1/0	Feb-13	672	19.01	0.68	0.68	4.7	0.17	0.17	0.25
00/05-21-001-25W1/0	Mar-13	744	12.81	0.41	0.41	3.5	0.11	0.11	0.27
00/05-21-001-25W1/0	Apr-13	720	11.91	0.4	0.4	3.3	0.11	0.11	0.28
00/05-21-001-25W1/0	May-13	744	20.71	0.67	0.67	5.3	0.17	0.17	0.26
00/05-21-001-25W1/0	Jun-13	720	20.81	0.69	0.69	5.1	0.17	0.17	0.25
00/05-21-001-25W1/0	Jul-13	744	18.01	0.58	0.58	4.5	0.15	0.15	0.25
00/05-21-001-25W1/0	Aug-13	744	14.21	0.46	0.46	3.3	0.11	0.11	0.23
00/05-21-001-25W1/0	Sep-13	720	9	0.3	0.3	2.3	0.08	0.08	0.26
00/05-21-001-25W1/0	Oct-13	744	9.1	0.29	0.29	2.3	0.07	0.07	0.25
00/05-21-001-25W1/0	Nov-13	720	7	0.23	0.23	1.8	0.06	0.06	0.26
00/05-21-001-25W1/0	Dec-13	744	10.8	0.35	0.35	2.7	0.09	0.09	0.25
<b>00/05-21-001-25W1/0</b>	<b>Subtotal</b>	<b>8,760</b>	<b>170.6</b>	<b>5.6</b>	<b>5.6</b>	<b>40.2</b>	<b>1.3</b>	<b>1.3</b>	<b>2.9</b>

Well Location	Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)
00/07-16-001-25W1/0	Jan-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	Feb-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	Mar-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	Apr-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	May-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	Jun-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	Jul-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	Aug-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	Sep-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	Oct-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	Nov-13	0	0	0	0	0	0	0	0
00/07-16-001-25W1/0	Dec-13	0	0	0	0	0	0	0	0
<b>00/07-16-001-25W1/0</b>	<b>Subtotal</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
00/10-16-001-25W1/0	Jan-13	0	0	0	0	0	0	0	0
00/10-16-001-25W1/0	Feb-13	0	0	0	0	0	0	0	0
00/10-16-001-25W1/0	Mar-13	0	0	0	0	0	0	0	0
00/10-16-001-25W1/0	Apr-13	0	0	0	0	0	0	0	0
00/10-16-001-25W1/0	May-13	0	0	0	0	0	0	0	0
00/10-16-001-25W1/0	Jun-13	0	0	0	0	0	0	0	0
00/10-16-001-25W1/0	Jul-13	648	0	0	0	0.9	0.03	0.03	0
00/10-16-001-25W1/0	Aug-13	576	2	0.06	0.08	0.7	0.02	0.03	0.35
00/10-16-001-25W1/0	Sep-13	312	2.8	0.09	0.22	1.5	0.05	0.12	0.54
00/10-16-001-25W1/0	Oct-13	744	7.8	0.25	0.25	2.9	0.09	0.09	0.37
00/10-16-001-25W1/0	Nov-13	720	6.5	0.22	0.22	2.4	0.08	0.08	0.37
00/10-16-001-25W1/0	Dec-13	744	3.8	0.12	0.12	1.4	0.05	0.05	0.37
<b>00/10-16-001-25W1/0</b>	<b>Subtotal</b>	<b>3,744</b>	<b>22.9</b>	<b>0.8</b>	<b>0.9</b>	<b>9.8</b>	<b>0.3</b>	<b>0.4</b>	<b>2.0</b>
00/11-21-001-25W1/0	Jan-13	0	0	0	0	0	0	0	0
00/11-21-001-25W1/0	Feb-13	37	0.2	0.01	0.13	12.01	0.43	7.79	60
00/11-21-001-25W1/0	Mar-13	646	13.91	0.45	0.52	5	0.16	0.19	0.36
00/11-21-001-25W1/0	Apr-13	720	15.21	0.51	0.51	3.9	0.13	0.13	0.26
00/11-21-001-25W1/0	May-13	744	17.31	0.56	0.56	4.6	0.15	0.15	0.27
00/11-21-001-25W1/0	Jun-13	720	19.51	0.65	0.65	8.3	0.28	0.28	0.43
00/11-21-001-25W1/0	Jul-13	744	15.61	0.5	0.5	2.8	0.09	0.09	0.18
00/11-21-001-25W1/0	Aug-13	744	22.81	0.74	0.74	3	0.1	0.1	0.13
00/11-21-001-25W1/0	Sep-13	708	32.21	1.07	1.09	4.4	0.15	0.15	0.14
00/11-21-001-25W1/0	Oct-13	432	18.91	0.61	1.05	2.8	0.09	0.16	0.15
00/11-21-001-25W1/0	Nov-13	384	24.31	0.81	1.52	3.2	0.11	0.2	0.13
00/11-21-001-25W1/0	Dec-13	744	39.82	1.28	1.28	5.1	0.16	0.16	0.13
<b>00/11-21-001-25W1/0</b>	<b>Subtotal</b>	<b>6,623</b>	<b>219.8</b>	<b>7.2</b>	<b>8.6</b>	<b>55.1</b>	<b>1.8</b>	<b>9.4</b>	<b>62.2</b>



Well Location	Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)
00/12-16-001-25W1/0	Jan-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	Feb-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	Mar-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	Apr-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	May-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	Jun-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	Jul-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	Aug-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	Sep-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	Oct-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	Nov-13	0	0	0	0	0	0	0	0
00/12-16-001-25W1/0	Dec-13	0	0	0	0	0	0	0	0
<b>00/12-16-001-25W1/0</b>	<b>Subtotal</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
00/12-21-001-25W1/0	Jan-13	744	8.8	0.28	0.28	1	0.03	0.03	0.11
00/12-21-001-25W1/0	Feb-13	672	6.8	0.24	0.24	0.7	0.03	0.03	0.1
00/12-21-001-25W1/0	Mar-13	744	8.2	0.26	0.26	0.9	0.03	0.03	0.11
00/12-21-001-25W1/0	Apr-13	720	7.9	0.26	0.26	0.9	0.03	0.03	0.11
00/12-21-001-25W1/0	May-13	713	7.2	0.23	0.24	0.9	0.03	0.03	0.13
00/12-21-001-25W1/0	Jun-13	720	7.4	0.25	0.25	0.9	0.03	0.03	0.12
00/12-21-001-25W1/0	Jul-13	600	6.1	0.2	0.24	0.8	0.03	0.03	0.13
00/12-21-001-25W1/0	Aug-13	0	0	0	0	0	0	0	0
00/12-21-001-25W1/0	Sep-13	0	0	0	0	0	0	0	0
00/12-21-001-25W1/0	Oct-13	480	5	0.16	0.25	0.6	0.02	0.03	0.12
00/12-21-001-25W1/0	Nov-13	720	15.61	0.52	0.52	1.7	0.06	0.06	0.11
00/12-21-001-25W1/0	Dec-13	744	20.51	0.66	0.66	2.2	0.07	0.07	0.11
<b>00/12-21-001-25W1/0</b>	<b>Subtotal</b>	<b>6,857</b>	<b>93.5</b>	<b>3.1</b>	<b>3.2</b>	<b>10.6</b>	<b>0.4</b>	<b>0.4</b>	<b>1.2</b>
00/13-16-001-25W1/0	Jan-13	744	15.31	0.49	0.49	15.21	0.49	0.49	0.99
00/13-16-001-25W1/0	Feb-13	672	8.2	0.29	0.29	8.2	0.29	0.29	1
00/13-16-001-25W1/0	Mar-13	744	7.8	0.25	0.25	8	0.26	0.26	1.03
00/13-16-001-25W1/0	Apr-13	720	7.3	0.24	0.24	7.6	0.25	0.25	1.04
00/13-16-001-25W1/0	May-13	744	7.2	0.23	0.23	7.6	0.25	0.25	1.06
00/13-16-001-25W1/0	Jun-13	720	5.7	0.19	0.19	5.8	0.19	0.19	1.02
00/13-16-001-25W1/0	Jul-13	744	7.3	0.24	0.24	7.5	0.24	0.24	1.03
00/13-16-001-25W1/0	Aug-13	744	6.9	0.22	0.22	6.5	0.21	0.21	0.94
00/13-16-001-25W1/0	Sep-13	720	5.8	0.19	0.19	5.8	0.19	0.19	1
00/13-16-001-25W1/0	Oct-13	744	6.8	0.22	0.22	6.7	0.22	0.22	0.99
00/13-16-001-25W1/0	Nov-13	704	6.8	0.23	0.23	6.9	0.23	0.24	1.01
00/13-16-001-25W1/0	Dec-13	228	1.6	0.05	0.17	1.6	0.05	0.17	1
<b>00/13-16-001-25W1/0</b>	<b>Subtotal</b>	<b>8,228</b>	<b>86.7</b>	<b>2.9</b>	<b>3.0</b>	<b>87.4</b>	<b>2.9</b>	<b>3.0</b>	<b>12.1</b>

Well Location	Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)
00/14-16-001-25W1/0	Jan-13	744	8.9	0.29	0.29	1.5	0.05	0.05	0.17
00/14-16-001-25W1/0	Feb-13	672	6	0.21	0.21	1	0.04	0.04	0.17
00/14-16-001-25W1/0	Mar-13	744	7.4	0.24	0.24	1.4	0.05	0.05	0.19
00/14-16-001-25W1/0	Apr-13	720	6.6	0.22	0.22	1.2	0.04	0.04	0.18
00/14-16-001-25W1/0	May-13	744	4.8	0.15	0.15	0.8	0.03	0.03	0.17
00/14-16-001-25W1/0	Jun-13	720	7.1	0.24	0.24	1.4	0.05	0.05	0.2
00/14-16-001-25W1/0	Jul-13	744	7.2	0.23	0.23	1.4	0.05	0.05	0.19
00/14-16-001-25W1/0	Aug-13	744	5.5	0.18	0.18	0.8	0.03	0.03	0.15
00/14-16-001-25W1/0	Sep-13	720	6.2	0.21	0.21	1.1	0.04	0.04	0.18
00/14-16-001-25W1/0	Oct-13	744	5.9	0.19	0.19	1.1	0.04	0.04	0.19
00/14-16-001-25W1/0	Nov-13	720	2.9	0.1	0.1	0.6	0.02	0.02	0.21
00/14-16-001-25W1/0	Dec-13	744	5.2	0.17	0.17	1	0.03	0.03	0.19
00/14-16-001-25W1/0	Subtotal	8,760	73.7	2.4	2.4	13.3	0.4	0.4	2.2
00/14-21-001-25W1/0	Jan-13	744	18.31	0.59	0.59	0.8	0.03	0.03	0.04
00/14-21-001-25W1/0	Feb-13	672	12.11	0.43	0.43	0.6	0.02	0.02	0.05
00/14-21-001-25W1/0	Mar-13	744	15.01	0.48	0.48	0.9	0.03	0.03	0.06
00/14-21-001-25W1/0	Apr-13	720	9.4	0.31	0.31	0.6	0.02	0.02	0.06
00/14-21-001-25W1/0	May-13	744	8.4	0.27	0.27	0.4	0.01	0.01	0.05
00/14-21-001-25W1/0	Jun-13	720	7.4	0.25	0.25	0.3	0.01	0.01	0.04
00/14-21-001-25W1/0	Jul-13	24	0.2	0.01	0.2	0	0	0	0
00/14-21-001-25W1/0	Aug-13	0	0	0	0	0	0	0	0
00/14-21-001-25W1/0	Sep-13	0	0	0	0	0	0	0	0
00/14-21-001-25W1/0	Oct-13	0	0	0	0	0	0	0	0
00/14-21-001-25W1/0	Nov-13	0	0	0	0	0	0	0	0
00/14-21-001-25W1/0	Dec-13	0	0	0	0	0	0	0	0
00/14-21-001-25W1/0	Subtotal	4,368	70.8	2.3	2.5	3.6	0.1	0.1	0.3
00/15-21-001-25W1/0	Jan-13	720	0.6	0.02	0.02	0	0	0	0
00/15-21-001-25W1/0	Feb-13	528	0.4	0.01	0.02	0	0	0	0
00/15-21-001-25W1/0	Mar-13	16	0	0	0	0	0	0	0
00/15-21-001-25W1/0	Apr-13	0	0	0	0	0	0	0	0
00/15-21-001-25W1/0	May-13	0	0	0	0	0	0	0	0
00/15-21-001-25W1/0	Jun-13	0	0	0	0	0	0	0	0
00/15-21-001-25W1/0	Jul-13	0	0	0	0	0	0	0	0
00/15-21-001-25W1/0	Aug-13	0	0	0	0	0	0	0	0
00/15-21-001-25W1/0	Sep-13	0	0	0	0	0	0	0	0
00/15-21-001-25W1/0	Oct-13	0	0	0	0	0	0	0	0
00/15-21-001-25W1/0	Nov-13	0	0	0	0	0	0	0	0
00/15-21-001-25W1/0	Dec-13	0	0	0	0	0	0	0	0
00/15-21-001-25W1/0	Subtotal	1,264	1.0	0.0	0.0	0.0	0.0	0.0	0.0



Well Location	Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)
00/16-16-001-25W1/0	Jan-13	744	15.31	0.49	0.49	86.74	2.8	2.8	5.67
00/16-16-001-25W1/0	Feb-13	672	13.41	0.48	0.48	77.14	2.75	2.75	5.75
00/16-16-001-25W1/0	Mar-13	619	12.71	0.41	0.49	74.43	2.4	2.89	5.86
00/16-16-001-25W1/0	Apr-13	720	13.31	0.44	0.44	79.84	2.66	2.66	6
00/16-16-001-25W1/0	May-13	744	14.31	0.46	0.46	84.64	2.73	2.73	5.92
00/16-16-001-25W1/0	Jun-13	720	13.31	0.44	0.44	75.93	2.53	2.53	5.71
00/16-16-001-25W1/0	Jul-13	744	13.41	0.43	0.43	79.84	2.58	2.58	5.96
00/16-16-001-25W1/0	Aug-13	264	5.2	0.17	0.47	28.21	0.91	2.56	5.42
00/16-16-001-25W1/0	Sep-13	720	14.21	0.47	0.47	79.84	2.66	2.66	5.62
00/16-16-001-25W1/0	Oct-13	744	14.01	0.45	0.45	79.44	2.56	2.56	5.67
00/16-16-001-25W1/0	Nov-13	720	14.11	0.47	0.47	82.24	2.74	2.74	5.83
00/16-16-001-25W1/0	Dec-13	744	14.41	0.46	0.46	82.04	2.65	2.65	5.69
<b>00/16-16-001-25W1/0</b>	<b>Subtotal</b>	<b>8,155</b>	<b>157.7</b>	<b>5.2</b>	<b>5.6</b>	<b>910.3</b>	<b>30.0</b>	<b>32.1</b>	<b>69.1</b>
02/04-21-001-25W1/0	Jan-13	648	42.42	1.37	1.57	32.21	1.04	1.19	0.76
02/04-21-001-25W1/0	Feb-13	652	18.11	0.65	0.67	14.31	0.51	0.53	0.79
02/04-21-001-25W1/0	Mar-13	744	25.21	0.81	0.81	23.91	0.77	0.77	0.95
02/04-21-001-25W1/0	Apr-13	720	39.02	1.3	1.3	45.72	1.52	1.52	1.17
02/04-21-001-25W1/0	May-13	744	44.72	1.44	1.44	29.31	0.95	0.95	0.66
02/04-21-001-25W1/0	Jun-13	720	30.51	1.02	1.02	11.71	0.39	0.39	0.38
02/04-21-001-25W1/0	Jul-13	708	58.13	1.88	1.97	22.91	0.74	0.78	0.39
02/04-21-001-25W1/0	Aug-13	721	75.93	2.45	2.53	25.81	0.83	0.86	0.34
02/04-21-001-25W1/0	Sep-13	720	47.82	1.59	1.59	22.11	0.74	0.74	0.46
02/04-21-001-25W1/0	Oct-13	744	76.43	2.47	2.47	26.41	0.85	0.85	0.35
02/04-21-001-25W1/0	Nov-13	720	61.13	2.04	2.04	19.91	0.66	0.66	0.33
02/04-21-001-25W1/0	Dec-13	744	64.33	2.08	2.08	23.41	0.76	0.76	0.36
<b>02/04-21-001-25W1/0</b>	<b>Subtotal</b>	<b>8,585</b>	<b>583.8</b>	<b>19.1</b>	<b>19.5</b>	<b>297.7</b>	<b>9.8</b>	<b>10.0</b>	<b>6.9</b>
02/05-21-001-25W1/0	Jan-13	744	86.24	2.78	2.78	179.28	5.78	5.78	2.08
02/05-21-001-25W1/0	Feb-13	672	72.33	2.58	2.58	156.97	5.61	5.61	2.17
02/05-21-001-25W1/0	Mar-13	744	75.63	2.44	2.44	161.17	5.2	5.2	2.13
02/05-21-001-25W1/0	Apr-13	720	69.03	2.3	2.3	155.07	5.17	5.17	2.25
02/05-21-001-25W1/0	May-13	732	72.63	2.34	2.38	152.77	4.93	5.01	2.1
02/05-21-001-25W1/0	Jun-13	720	70.13	2.34	2.34	146.47	4.88	4.88	2.09
02/05-21-001-25W1/0	Jul-13	744	63.43	2.05	2.05	143.07	4.62	4.62	2.26
02/05-21-001-25W1/0	Aug-13	744	66.33	2.14	2.14	129.66	4.18	4.18	1.95
02/05-21-001-25W1/0	Sep-13	720	61.93	2.06	2.06	120.45	4.02	4.02	1.95
02/05-21-001-25W1/0	Oct-13	744	60.93	1.97	1.97	120.96	3.9	3.9	1.99
02/05-21-001-25W1/0	Nov-13	720	54.72	1.82	1.82	115.25	3.84	3.84	2.11
02/05-21-001-25W1/0	Dec-13	744	57.73	1.86	1.86	113.55	3.66	3.66	1.97
<b>02/05-21-001-25W1/0</b>	<b>Subtotal</b>	<b>8,748</b>	<b>811.1</b>	<b>26.7</b>	<b>26.7</b>	<b>1694.7</b>	<b>55.8</b>	<b>55.9</b>	<b>25.0</b>



Well Location	Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)
02/10-16-001-25W1/0	Jan-13	744	51.42	1.66	1.66	94.24	3.04	3.04	1.83
02/10-16-001-25W1/0	Feb-13	672	50.52	1.8	1.8	94.04	3.36	3.36	1.86
02/10-16-001-25W1/0	Mar-13	744	54.83	1.77	1.77	105.25	3.4	3.4	1.92
02/10-16-001-25W1/0	Apr-13	720	51.32	1.71	1.71	98.95	3.3	3.3	1.93
02/10-16-001-25W1/0	May-13	744	50.32	1.62	1.62	97.34	3.14	3.14	1.93
02/10-16-001-25W1/0	Jun-13	720	62.23	2.07	2.07	115.85	3.86	3.86	1.86
02/10-16-001-25W1/0	Jul-13	744	61.83	1.99	1.99	118.35	3.82	3.82	1.91
02/10-16-001-25W1/0	Aug-13	744	54.22	1.75	1.75	95.24	3.07	3.07	1.76
02/10-16-001-25W1/0	Sep-13	624	43.32	1.44	1.67	80.24	2.67	3.09	1.85
02/10-16-001-25W1/0	Oct-13	658	44.32	1.43	1.62	82.44	2.66	3.01	1.86
02/10-16-001-25W1/0	Nov-13	720	47.42	1.58	1.58	89.44	2.98	2.98	1.89
02/10-16-001-25W1/0	Dec-13	744	46.32	1.49	1.49	85.04	2.74	2.74	1.84
<b>02/10-16-001-25W1/0</b>	<b>Subtotal</b>	<b>8,578</b>	<b>618.1</b>	<b>20.3</b>	<b>20.7</b>	<b>1156.4</b>	<b>38.0</b>	<b>38.8</b>	<b>22.4</b>
02/13-16-001-25W1/0	Jan-13	706	35.42	1.14	1.2	194.09	6.26	6.6	5.48
02/13-16-001-25W1/0	Feb-13	672	44.12	1.58	1.58	182.98	6.54	6.54	4.15
02/13-16-001-25W1/0	Mar-13	744	38.72	1.25	1.25	205.29	6.62	6.62	5.3
02/13-16-001-25W1/0	Apr-13	720	38.72	1.29	1.29	195.99	6.53	6.53	5.06
02/13-16-001-25W1/0	May-13	744	40.22	1.3	1.3	198.79	6.41	6.41	4.94
02/13-16-001-25W1/0	Jun-13	720	48.62	1.62	1.62	181.08	6.04	6.04	3.72
02/13-16-001-25W1/0	Jul-13	744	51.72	1.67	1.67	186.39	6.01	6.01	3.6
02/13-16-001-25W1/0	Aug-13	744	52.32	1.69	1.69	176.88	5.71	5.71	3.38
02/13-16-001-25W1/0	Sep-13	720	48.22	1.61	1.61	174.68	5.82	5.82	3.62
02/13-16-001-25W1/0	Oct-13	744	44.82	1.45	1.45	177.28	5.72	5.72	3.96
02/13-16-001-25W1/0	Nov-13	720	42.02	1.4	1.4	168.38	5.61	5.61	4.01
02/13-16-001-25W1/0	Dec-13	744	29.51	0.95	0.95	159.57	5.15	5.15	5.41
<b>02/13-16-001-25W1/0</b>	<b>Subtotal</b>	<b>8,722</b>	<b>514.4</b>	<b>16.9</b>	<b>17.0</b>	<b>2201.4</b>	<b>72.4</b>	<b>72.8</b>	<b>52.6</b>
02/13-21-001-25W1/2	Jan-13	744	45.12	1.46	1.46	19.11	0.62	0.62	0.42
02/13-21-001-25W1/2	Feb-13	672	43.32	1.55	1.55	16.81	0.6	0.6	0.39
02/13-21-001-25W1/2	Mar-13	744	48.32	1.56	1.56	13.71	0.44	0.44	0.28
02/13-21-001-25W1/2	Apr-13	720	40.22	1.34	1.34	14.71	0.49	0.49	0.37
02/13-21-001-25W1/2	May-13	744	49.12	1.58	1.58	8.5	0.27	0.27	0.17
02/13-21-001-25W1/2	Jun-13	612	37.22	1.24	1.46	9.4	0.31	0.37	0.25
02/13-21-001-25W1/2	Jul-13	744	34.22	1.1	1.1	10.1	0.33	0.33	0.3
02/13-21-001-25W1/2	Aug-13	744	39.62	1.28	1.28	11.31	0.36	0.36	0.29
02/13-21-001-25W1/2	Sep-13	720	36.72	1.22	1.22	9.3	0.31	0.31	0.25
02/13-21-001-25W1/2	Oct-13	744	39.92	1.29	1.29	12.91	0.42	0.42	0.32
02/13-21-001-25W1/2	Nov-13	720	23.11	0.77	0.77	15.41	0.51	0.51	0.67
02/13-21-001-25W1/2	Dec-13	744	29.51	0.95	0.95	36.32	1.17	1.17	1.23
<b>02/13-21-001-25W1/2</b>	<b>Subtotal</b>	<b>8,652</b>	<b>466.4</b>	<b>15.3</b>	<b>15.6</b>	<b>177.6</b>	<b>5.8</b>	<b>5.9</b>	<b>4.9</b>

Well Location	Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)
02/14-16-001-25W1/0	Jan-13	744	57.43	1.85	1.85	38.52	1.24	1.24	0.67
02/14-16-001-25W1/0	Feb-13	672	56.83	2.03	2.03	40.82	1.46	1.46	0.72
02/14-16-001-25W1/0	Mar-13	744	63.43	2.05	2.05	40.12	1.29	1.29	0.63
02/14-16-001-25W1/0	Apr-13	720	46.32	1.54	1.54	28.31	0.94	0.94	0.61
02/14-16-001-25W1/0	May-13	744	46.22	1.49	1.49	30.11	0.97	0.97	0.65
02/14-16-001-25W1/0	Jun-13	720	45.92	1.53	1.53	22.01	0.73	0.73	0.48
02/14-16-001-25W1/0	Jul-13	728	43.22	1.39	1.42	22.81	0.74	0.75	0.53
02/14-16-001-25W1/0	Aug-13	744	44.12	1.42	1.42	29.71	0.96	0.96	0.67
02/14-16-001-25W1/0	Sep-13	720	42.22	1.41	1.41	33.12	1.1	1.1	0.78
02/14-16-001-25W1/0	Oct-13	744	42.22	1.36	1.36	28.61	0.92	0.92	0.68
02/14-16-001-25W1/0	Nov-13	704	41.22	1.37	1.41	29.61	0.99	1.01	0.72
02/14-16-001-25W1/0	Dec-13	744	44.82	1.45	1.45	35.12	1.13	1.13	0.78
02/14-16-001-25W1/0	Subtotal	8,728	574.0	18.9	19.0	378.9	12.5	12.5	7.9
02/15-21-001-25W1/0	Jan-13	720	25.71	0.83	0.86	480.02	15.48	16	18.67
02/15-21-001-25W1/0	Feb-13	672	23.61	0.84	0.84	449.91	16.07	16.07	19.06
02/15-21-001-25W1/0	Mar-13	744	25.61	0.83	0.83	505.23	16.3	16.3	19.73
02/15-21-001-25W1/0	Apr-13	720	24.01	0.8	0.8	475.92	15.86	15.86	19.82
02/15-21-001-25W1/0	May-13	744	23.11	0.75	0.75	458.01	14.77	14.77	19.82
02/15-21-001-25W1/0	Jun-13	720	22.81	0.76	0.76	432.9	14.43	14.43	18.98
02/15-21-001-25W1/0	Jul-13	588	18.71	0.6	0.76	365.07	11.78	14.9	19.51
02/15-21-001-25W1/0	Aug-13	60	0.1	0	0.04	57.43	1.85	22.97	574
02/15-21-001-25W1/0	Sep-13	37	0	0	0	60.03	2	38.94	0
02/15-21-001-25W1/0	Oct-13	96	2.8	0.09	0.7	52.62	1.7	13.16	18.79
02/15-21-001-25W1/0	Nov-13	336	4.9	0.16	0.35	188.09	6.27	13.43	38.37
02/15-21-001-25W1/0	Dec-13	96	0.9	0.03	0.23	46.82	1.51	11.71	52
02/15-21-001-25W1/0	Subtotal	5,533	172.3	5.7	6.9	3572.0	118.0	208.5	818.7
02/16-16-001-25W1/0	Jan-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Feb-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Mar-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Apr-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	May-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Jun-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Jul-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Aug-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Sep-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Oct-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Nov-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Dec-13	0	0	0	0	0	0	0	0
02/16-16-001-25W1/0	Subtotal	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Well Location	Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)
03/04-21-001-25W1/0	Jan-13	732	59.93	1.93	1.96	275.43	8.88	9.03	4.6
03/04-21-001-25W1/0	Feb-13	672	32.21	1.15	1.15	232.21	8.29	8.29	7.21
03/04-21-001-25W1/0	Mar-13	744	32.51	1.05	1.05	252.72	8.15	8.15	7.77
03/04-21-001-25W1/0	Apr-13	720	30.31	1.01	1.01	232.41	7.75	7.75	7.67
03/04-21-001-25W1/0	May-13	744	30.11	0.97	0.97	230.71	7.44	7.44	7.66
03/04-21-001-25W1/0	Jun-13	720	33.12	1.1	1.1	299.14	9.97	9.97	9.03
03/04-21-001-25W1/0	Jul-13	744	34.02	1.1	1.1	249.31	8.04	8.04	7.33
03/04-21-001-25W1/0	Aug-13	744	42.92	1.38	1.38	209.2	6.75	6.75	4.87
03/04-21-001-25W1/0	Sep-13	720	38.62	1.29	1.29	197.09	6.57	6.57	5.1
03/04-21-001-25W1/0	Oct-13	744	34.22	1.1	1.1	209.6	6.76	6.76	6.13
03/04-21-001-25W1/0	Nov-13	720	31.61	1.05	1.05	196.99	6.57	6.57	6.23
03/04-21-001-25W1/0	Dec-13	744	34.72	1.12	1.12	187.49	6.05	6.05	5.4
<b>03/04-21-001-25W1/0</b>	<b>Subtotal</b>	<b>8,748</b>	<b>434.3</b>	<b>14.3</b>	<b>14.3</b>	<b>2772.3</b>	<b>91.2</b>	<b>91.4</b>	<b>79.0</b>
03/05-21-001-25W1/0	Jan-13	744	85.34	2.75	2.75	28.81	0.93	0.93	0.34
03/05-21-001-25W1/0	Feb-13	672	60.63	2.17	2.17	20.41	0.73	0.73	0.34
03/05-21-001-25W1/0	Mar-13	744	60.13	1.94	1.94	51.52	1.66	1.66	0.86
03/05-21-001-25W1/0	Apr-13	720	61.13	2.04	2.04	38.12	1.27	1.27	0.62
03/05-21-001-25W1/0	May-13	744	68.53	2.21	2.21	23.61	0.76	0.76	0.34
03/05-21-001-25W1/0	Jun-13	720	70.73	2.36	2.36	23.21	0.77	0.77	0.33
03/05-21-001-25W1/0	Jul-13	744	71.73	2.31	2.31	20.71	0.67	0.67	0.29
03/05-21-001-25W1/0	Aug-13	288	29.01	0.94	2.42	8.5	0.27	0.71	0.29
03/05-21-001-25W1/0	Sep-13	720	77.24	2.57	2.57	20.01	0.67	0.67	0.26
03/05-21-001-25W1/0	Oct-13	744	67.83	2.19	2.19	17.71	0.57	0.57	0.26
03/05-21-001-25W1/0	Nov-13	720	62.33	2.08	2.08	19.81	0.66	0.66	0.32
03/05-21-001-25W1/0	Dec-13	744	47.22	1.52	1.52	17.41	0.56	0.56	0.37
<b>03/05-21-001-25W1/0</b>	<b>Subtotal</b>	<b>8,304</b>	<b>761.9</b>	<b>25.1</b>	<b>26.6</b>	<b>289.8</b>	<b>9.5</b>	<b>10.0</b>	<b>4.6</b>
03/10-16-001-25W1/0	Jan-13	728	34.42	1.11	1.13	630.09	20.33	20.77	18.31
03/10-16-001-25W1/0	Feb-13	637	20.51	0.73	0.77	554.95	19.82	20.91	27.06
03/10-16-001-25W1/0	Mar-13	744	30.81	0.99	0.99	834.08	26.91	26.91	27.07
03/10-16-001-25W1/0	Apr-13	672	35.42	1.18	1.26	964.74	32.16	34.45	27.24
03/10-16-001-25W1/0	May-13	732	21.31	0.69	0.7	1074.59	34.66	35.23	50.43
03/10-16-001-25W1/0	Jun-13	680	35.62	1.19	1.26	1001.76	33.39	35.36	28.13
03/10-16-001-25W1/0	Jul-13	744	58.03	1.87	1.87	1049.38	33.85	33.85	18.08
03/10-16-001-25W1/0	Aug-13	744	104.15	3.36	3.36	961.54	31.02	31.02	9.23
03/10-16-001-25W1/0	Sep-13	720	87.44	2.91	2.91	928.52	30.95	30.95	10.62
03/10-16-001-25W1/0	Oct-13	732	69.13	2.23	2.27	923.92	29.8	30.29	13.36
03/10-16-001-25W1/0	Nov-13	720	53.62	1.79	1.79	800.47	26.68	26.68	14.93
03/10-16-001-25W1/0	Dec-13	744	49.52	1.6	1.6	656.3	21.17	21.17	13.25
<b>03/10-16-001-25W1/0</b>	<b>Subtotal</b>	<b>8,597</b>	<b>600.0</b>	<b>19.7</b>	<b>19.9</b>	<b>10380.3</b>	<b>340.7</b>	<b>347.6</b>	<b>257.7</b>

Well Location	Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)
03/12-21-001-25W1/0	Jan-13	628	9.8	0.32	0.37	1.5	0.05	0.06	0.15
03/12-21-001-25W1/0	Feb-13	672	34.92	1.25	1.25	0	0	0	0
03/12-21-001-25W1/0	Mar-13	744	75.93	2.45	2.45	0	0	0	0
03/12-21-001-25W1/0	Apr-13	690	62.83	2.09	2.19	10.4	0.35	0.36	0.17
03/12-21-001-25W1/0	May-13	738	65.73	2.12	2.14	30.01	0.97	0.98	0.46
03/12-21-001-25W1/0	Jun-13	720	72.73	2.42	2.42	27.11	0.9	0.9	0.37
03/12-21-001-25W1/0	Jul-13	744	73.43	2.37	2.37	24.51	0.79	0.79	0.33
03/12-21-001-25W1/0	Aug-13	744	74.43	2.4	2.4	21.21	0.68	0.68	0.28
03/12-21-001-25W1/0	Sep-13	720	73.63	2.45	2.45	21.61	0.72	0.72	0.29
03/12-21-001-25W1/0	Oct-13	744	68.63	2.21	2.21	20.51	0.66	0.66	0.3
03/12-21-001-25W1/0	Nov-13	720	67.73	2.26	2.26	19.01	0.63	0.63	0.28
03/12-21-001-25W1/0	Dec-13	744	68.53	2.21	2.21	18.91	0.61	0.61	0.28
<b>03/12-21-001-25W1/0</b>	<b>Subtotal</b>	<b>8,608</b>	<b>748.3</b>	<b>24.6</b>	<b>24.7</b>	<b>194.8</b>	<b>6.4</b>	<b>6.4</b>	<b>2.9</b>
03/13-21-001-25W1/0	Jan-13	732	2.7	0.09	0.09	1333.51	43.02	43.72	493.67
03/13-21-001-25W1/0	Feb-13	672	3.5	0.13	0.13	1224.36	43.73	43.73	349.66
03/13-21-001-25W1/0	Mar-13	744	25.41	0.82	0.82	1332.11	42.97	42.97	52.42
03/13-21-001-25W1/0	Apr-13	720	18.11	0.6	0.6	1250.57	41.69	41.69	69.06
03/13-21-001-25W1/0	May-13	738	6.3	0.2	0.2	1305.1	42.1	42.44	207.06
03/13-21-001-25W1/0	Jun-13	567	1.2	0.04	0.05	982.85	32.76	41.6	818.67
03/13-21-001-25W1/0	Jul-13	744	1.5	0.05	0.05	1305	42.1	42.1	869.6
03/13-21-001-25W1/0	Aug-13	744	1.7	0.05	0.05	1237.86	39.93	39.93	727.82
03/13-21-001-25W1/0	Sep-13	720	2.7	0.09	0.09	1176.64	39.22	39.22	435.59
03/13-21-001-25W1/0	Oct-13	72	0.3	0.01	0.1	113.85	3.67	37.95	379.33
03/13-21-001-25W1/0	Nov-13	19	0	0	0	57.23	1.91	72.29	0
03/13-21-001-25W1/0	Dec-13	720	4	0.13	0.13	1729.19	55.78	57.64	432.1
<b>03/13-21-001-25W1/0</b>	<b>Subtotal</b>	<b>7,192</b>	<b>67.4</b>	<b>2.2</b>	<b>2.3</b>	<b>13048.3</b>	<b>428.9</b>	<b>545.3</b>	<b>4835.0</b>
03/16-16-001-25W1/0	Jan-13	744	95.84	3.09	3.09	855.99	27.61	27.61	8.93
03/16-16-001-25W1/0	Feb-13	672	85.04	3.04	3.04	767.65	27.42	27.42	9.03
03/16-16-001-25W1/0	Mar-13	0	0	0	0	0	0	0	0
03/16-16-001-25W1/0	Apr-13	522	48.92	1.63	2.25	668.81	22.29	30.75	13.67
03/16-16-001-25W1/0	May-13	538	70.93	2.29	3.16	853.99	27.55	38.1	12.04
03/16-16-001-25W1/0	Jun-13	720	79.74	2.66	2.66	935.83	31.19	31.19	11.74
03/16-16-001-25W1/0	Jul-13	728	53.12	1.71	1.75	771.55	24.89	25.44	14.52
03/16-16-001-25W1/0	Aug-13	744	59.83	1.93	1.93	886.1	28.58	28.58	14.81
03/16-16-001-25W1/0	Sep-13	708	56.43	1.88	1.91	881.2	29.37	29.87	15.62
03/16-16-001-25W1/0	Oct-13	744	57.23	1.85	1.85	897.91	28.96	28.96	15.69
03/16-16-001-25W1/0	Nov-13	720	53.62	1.79	1.79	849.39	28.31	28.31	15.84
03/16-16-001-25W1/0	Dec-13	744	56.53	1.82	1.82	872.1	28.13	28.13	15.43
<b>03/16-16-001-25W1/0</b>	<b>Subtotal</b>	<b>7,584</b>	<b>717.2</b>	<b>23.7</b>	<b>25.3</b>	<b>9240.5</b>	<b>304.3</b>	<b>324.4</b>	<b>147.3</b>

Unit No. 18 Total:

Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)	Well Count
Jan-13	15,286	749	24	25	4,293	139	141	5.7	21
Feb-13	13,950	643	23	23	3,882	139	147	6.0	22
Mar-13	14,548	655	21	21	3,635	117	118	5.5	20
Apr-13	14,844	655	22	23	4,291	143	154	6.5	21
May-13	15,351	689	22	23	4,612	149	160	6.7	21
Jun-13	14,819	716	24	24	4,305	143	154	6.0	21
Jul-13	15,184	721	23	24	4,409	142	146	6.1	21
Aug-13	13,069	733	24	26	3,914	126	150	5.3	20
Sep-13	13,189	708	24	24	3,841	128	166	5.4	19
Oct-13	13,630	693	22	24	2,802	90	137	4.0	21
Nov-13	13,667	639	21	22	2,691	90	167	4.2	20
Dec-13	14,436	646	21	21	4,097	132	144	6.3	21
<b>TOTALS</b>	<b>171,973</b>	<b>8,246</b>			<b>46,771</b>				

Unit No. 18 Total:

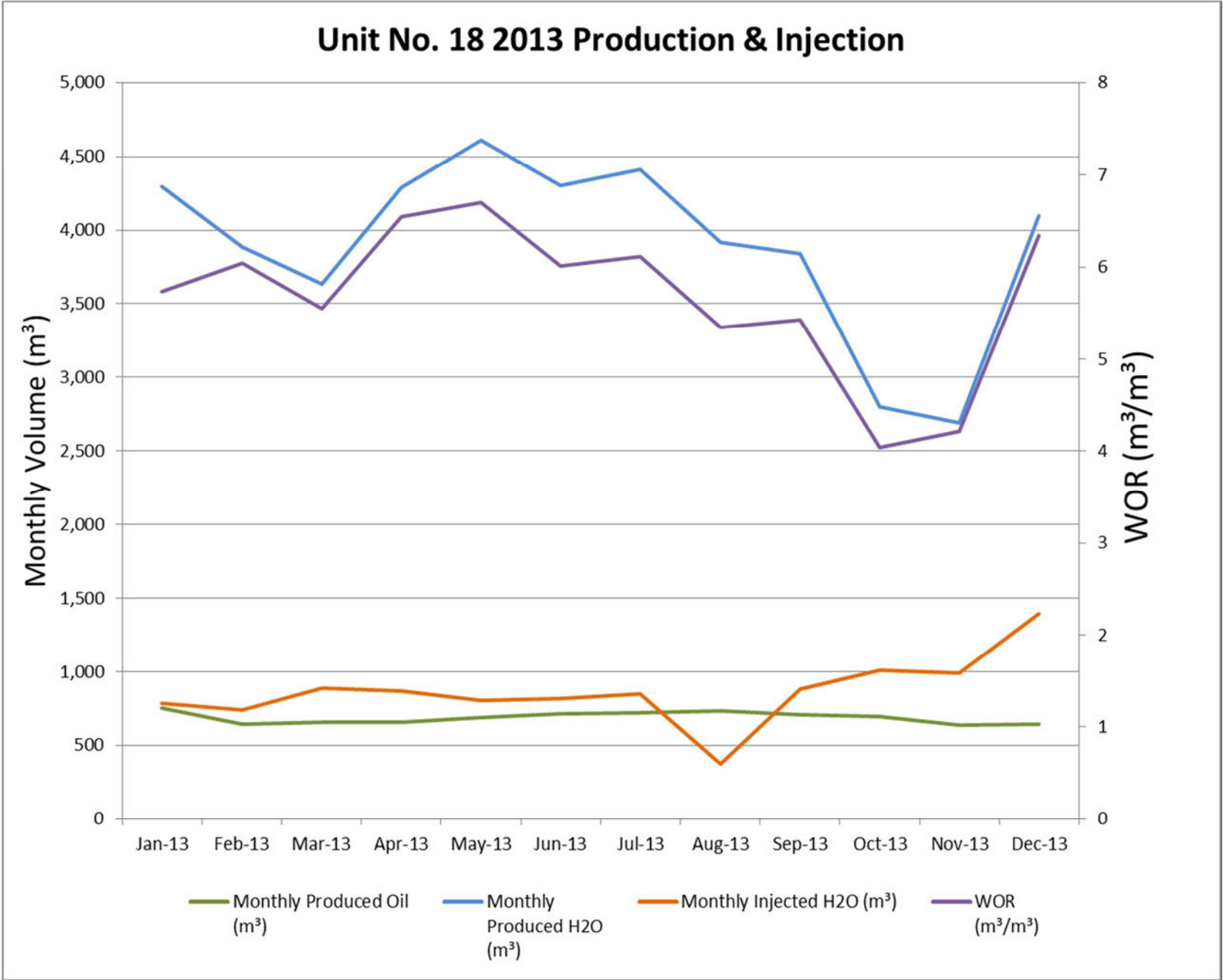
Date	Hours On	Monthly Produced Oil (m³)	Oil Cal-d (m³/d)	Oil Prd-d (m³/d)	Monthly Produced H <sub>2</sub> O (m³)	H <sub>2</sub> O Cal-d (m³/d)	H <sub>2</sub> O Prd-d (m³/d)	WOR (m³/m³)	Well Count
1989	1,296	339	0.9	0.0	66	0.2	0.0	0.19	1
1990	46,848	6,979	19.1	4.3	1,784	4.9	1.1	0.26	6
1991	141,504	11,355	31.1	20.9	2,943	8.1	5.4	0.26	17
1992	121,032	6,805	18.6	10.7	1,169	3.2	1.8	0.17	14
1993	118,320	5,779	15.8	8.9	1,087	3.0	1.7	0.19	14
1994	118,704	5,221	14.3	8.1	1,032	2.8	1.6	0.20	14
1995	117,072	4,618	12.7	7.0	875	2.4	1.3	0.19	14
1996	120,240	4,438	12.2	7.0	920	2.5	1.4	0.21	14
1997	119,712	3,981	10.9	6.2	868	2.4	1.4	0.22	14
1998	120,360	3,820	10.5	6.0	886	2.4	1.4	0.23	14
1999	116,472	3,685	10.1	5.6	989	2.7	1.5	0.27	14
2000	114,096	3,465	9.5	5.2	2,836	7.8	4.2	0.82	14
2001	110,280	3,491	9.6	5.0	1,927	5.3	2.8	0.55	13
2002	107,448	3,290	9.0	4.6	1,486	4.1	2.1	0.45	13
2003	94,152	3,371	9.2	4.1	3,130	8.6	3.8	0.93	13
2004	109,944	3,543	9.7	5.1	6,738	18.5	9.7	1.90	13
2005	109,368	3,297	9.0	4.7	1,561	4.3	2.2	0.47	13
2006	107,508	3,135	8.6	4.4	1,492	4.1	2.1	0.48	13
2007	113,875	3,555	9.7	5.3	4,409	12.1	6.5	1.24	13
2008	118,440	4,386	12.0	6.8	9,403	25.8	14.5	2.14	14
2009	118,368	5,031	13.8	7.8	9,428	25.8	14.5	1.87	15
2010	146,808	24,369	66.8	46.6	90,615	248.3	173.4	3.72	19
2011	214,008	29,301	80.3	81.7	50,589	138.6	141.1	1.73	19
2012	189,314	13,115	35.9	32.4	32,354	88.6	79.8	2.47	19
2013	171,973	8,246	22.6	24.2	46,771	128.1	137.1	5.67	21
<b>TOTALS</b>	<b>2,795,169</b>	<b>160,368</b>			<b>228,587</b>				



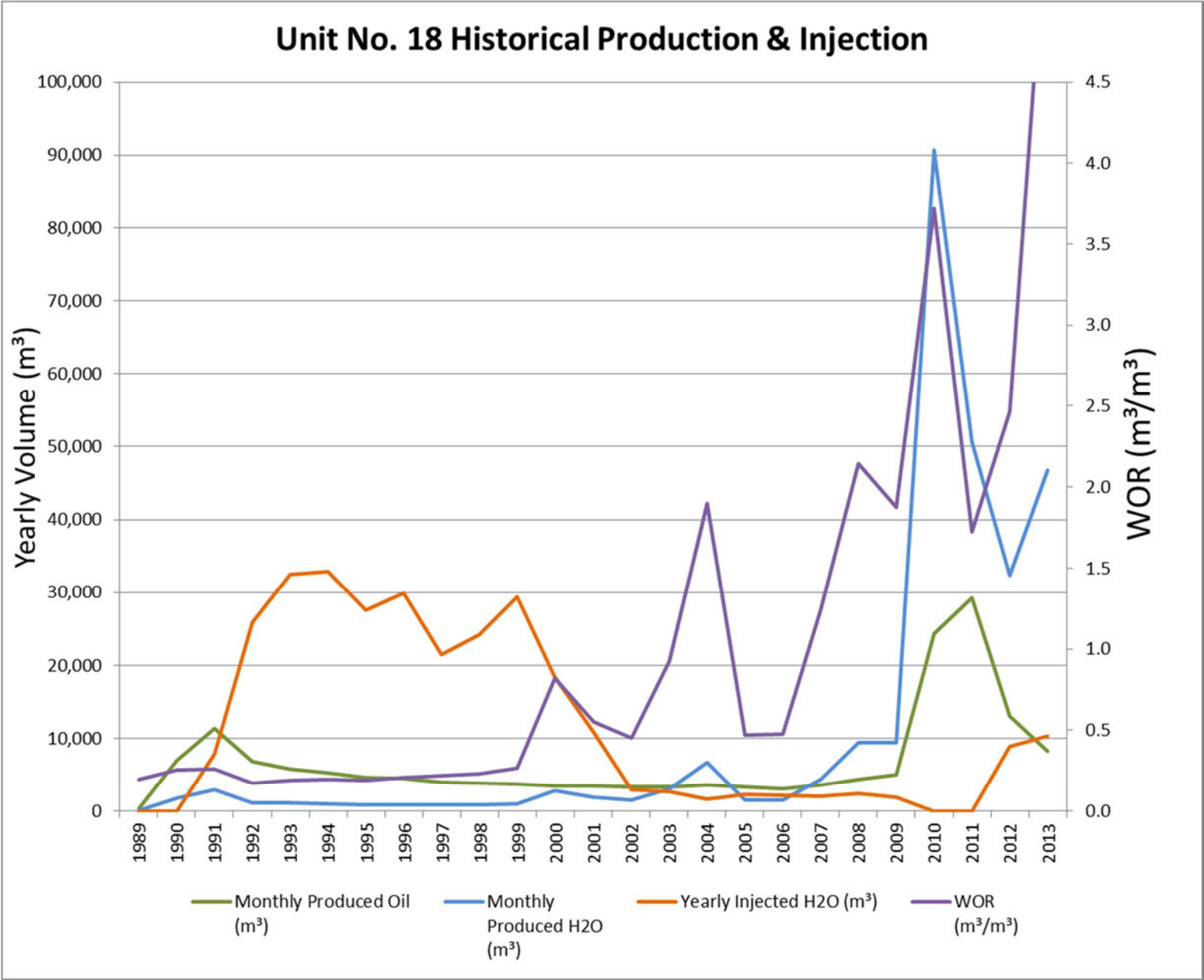
Table 5 – 2013 Workovers

Well Type	UWI	Workover	Date
Oil	103/12-21-001-25W1	Pump	1/16/2013
Oil	100/05-21-001-25W1	Acid	1/22/2013
Oil	100/11-21-001-25W1	Pump	2/27/2013
Oil	100/11-21-001-25W1	Acid	3/26/2013
Oil	100/15-21-001-25W1	Acid	3/26/2013
Oil	100/02-21-001-25W1	Pump	8/18/2013

Appendix A – Unit 18 Production & Injection 2013

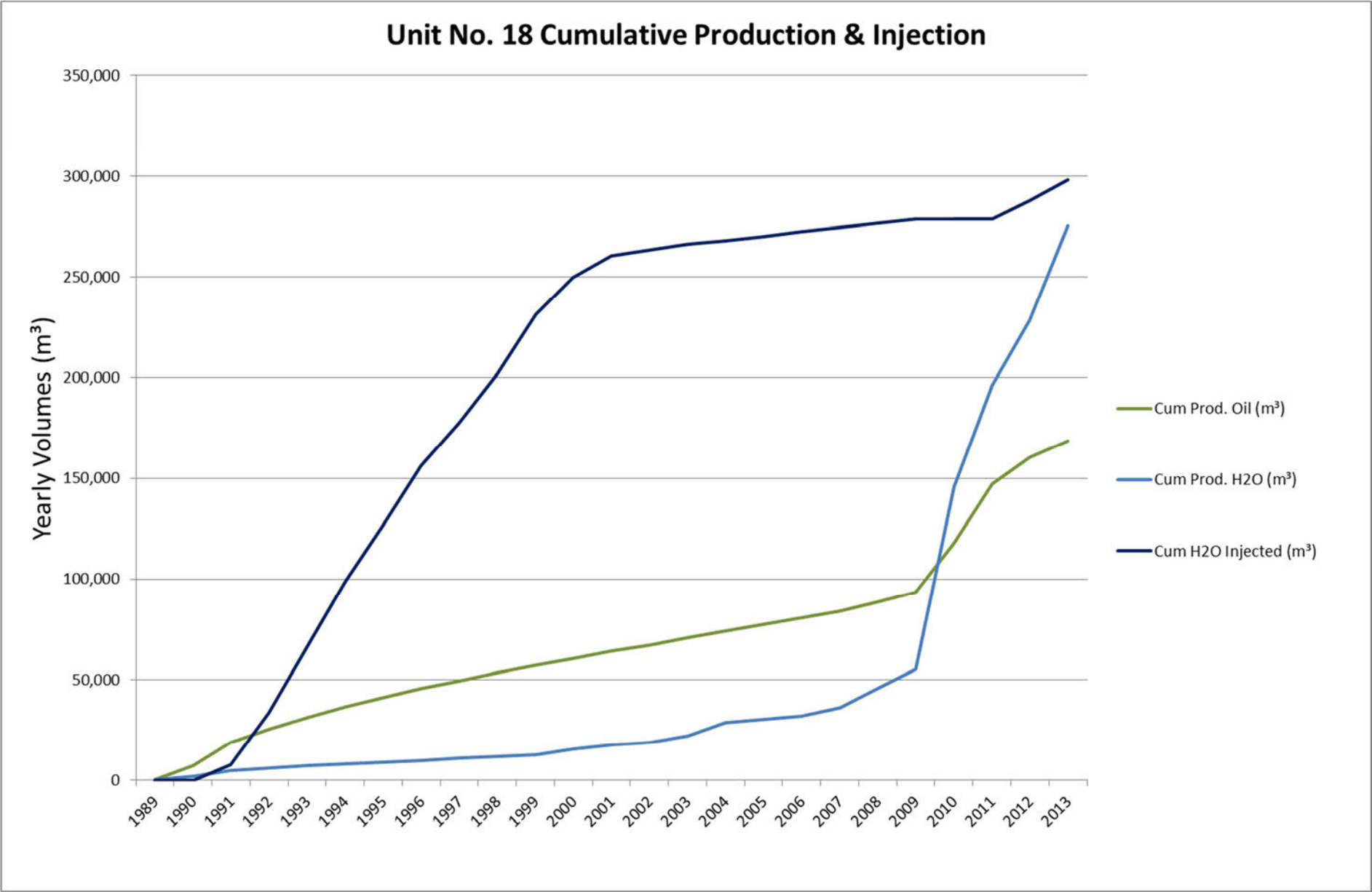


Appendix B – Unit 18 Historical Production & Injection





Appendix C – Unit 18 Cumulative Production & injection



NOTE: Disposal Volumes are not included in these injection numbers.