

SINCLAIR UNIT NO. 2
WATERFLOOD EOR PROJECT
ANNUAL REPORT FOR 2014

May 1, 2015

Tundra Oil and Gas Partnership

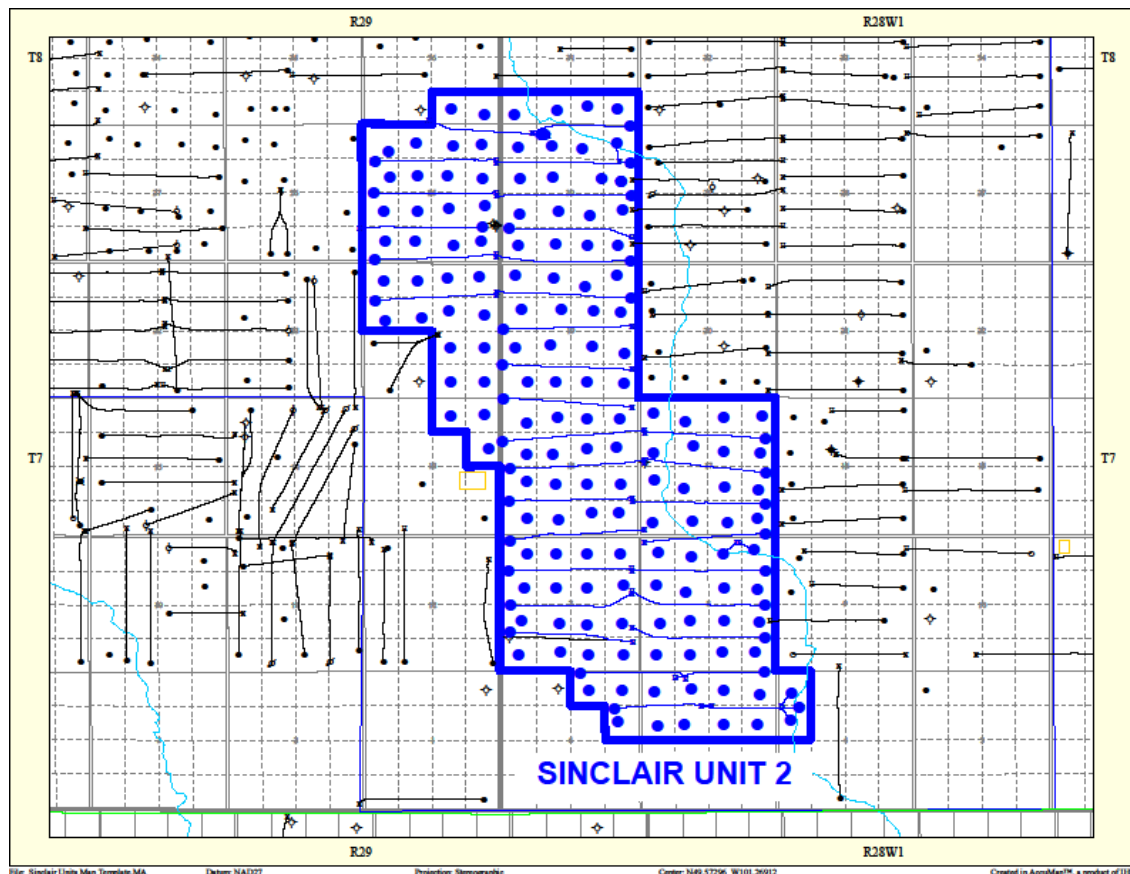
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INTRODUCTION

Sinclair Unit No. 2 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Waterflood Order No. 17 effective January 1, 2010 with Tundra Oil and Gas (Tundra) as Operator. The EOR project area contains 154 producing and 26 injection wells in just over 9 sections in Township 7, Ranges 28 and 29 W1 as shown in the figure below.

Figure 1: Sinclair Unit No. 2 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra hereby submits the following 2014 Annual Progress Report for Sinclair Unit No. 2 as required by Waterflood Order No 17.

DISCUSSION

Production History

For the wells included in Sinclair Unit No. 2, production started in August 2004 with 00/08-25-007-29W1. Oil production peaked at an average of 3.8 m³/d per well, in

January of 2008. This production was coming from 127 wells and totaled 481 m³/d for the whole Unit. Since then production has steadily declined while the water oil ratio (WOR) has remained steady, averaging 0.51 m³/m³ over the past five years. Water injection began in November 2010. Water injection rates were 475 m³/d in December 2014, through 26 wells. In December 2014, the Unit was producing 165.9 m³/d of oil and 109.1 m³/d of water. The rates and WOR are presented in Figure 2.

Figure 2: Sinclair Unit No. 2 Production/Injection Rates and WOR vs Time

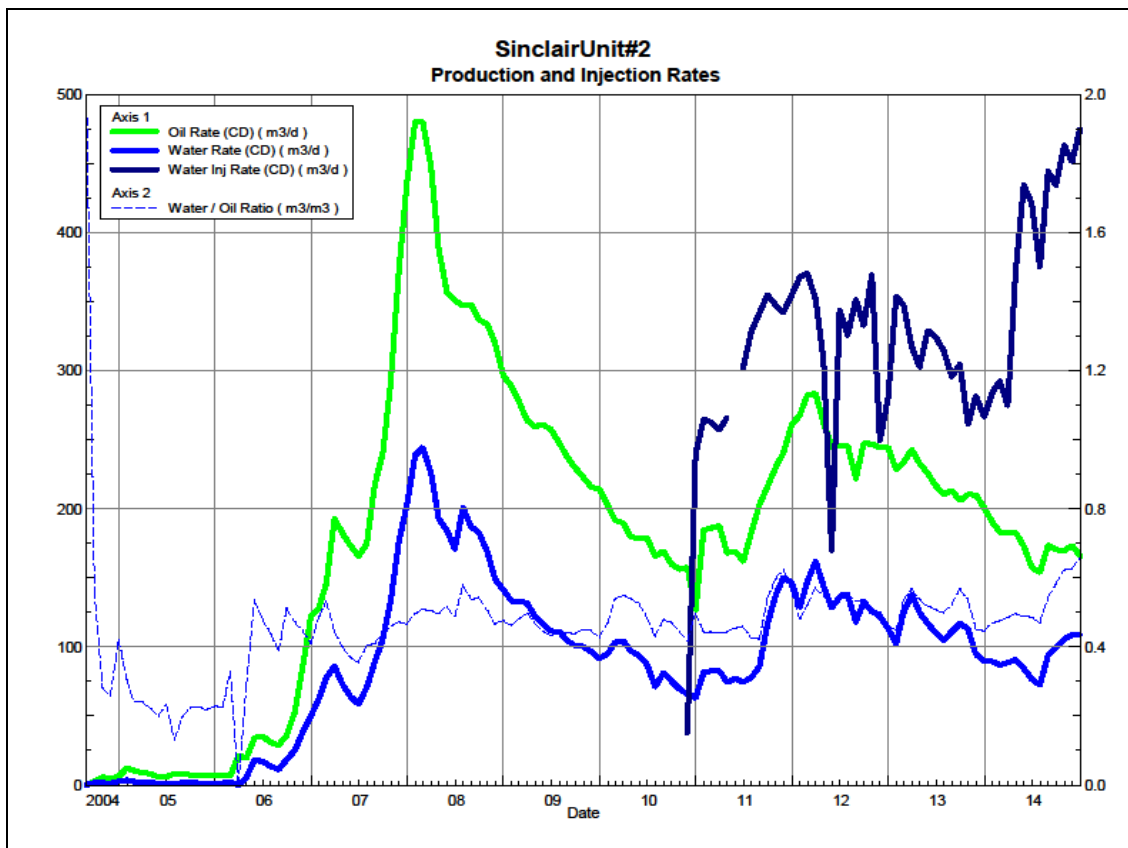
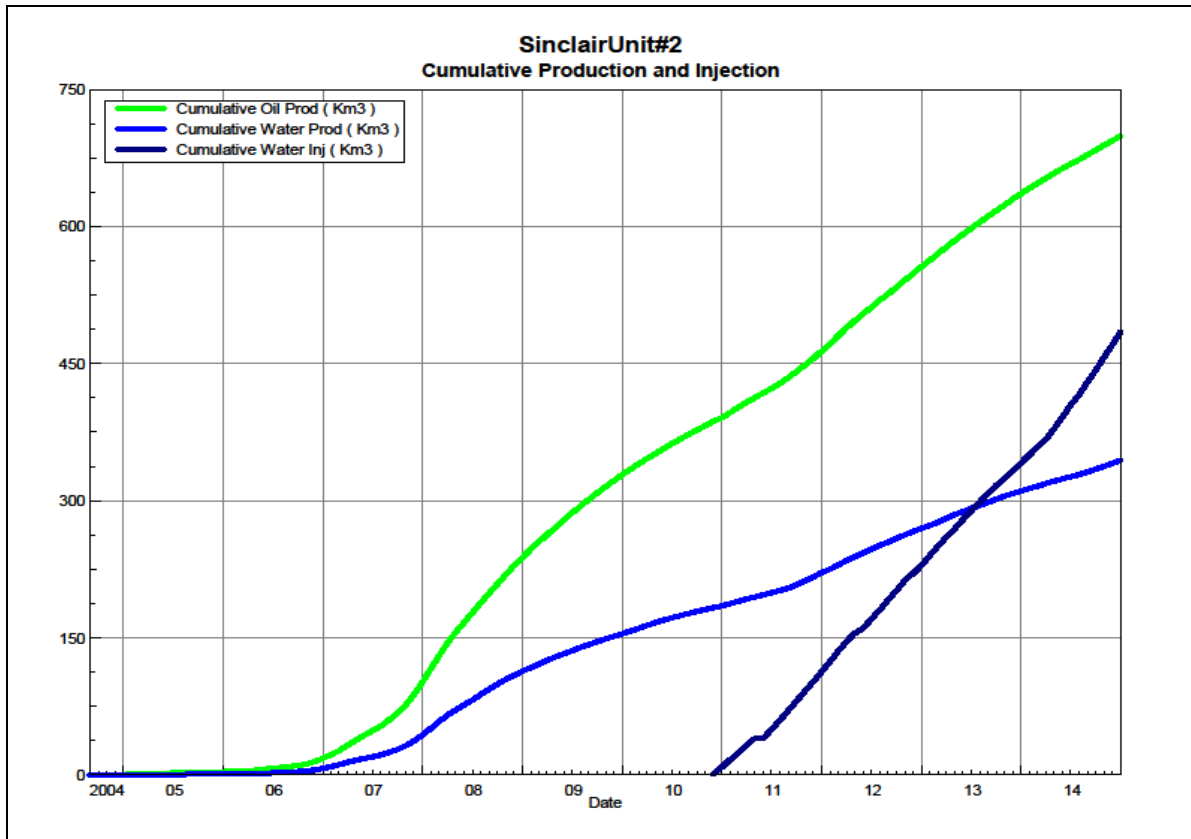


Figure 3 shows the cumulative production for Sinclair Unit No. 2 to the end of December 2014 as 699 e³m³ of oil, and 344 e³m³ of water, representing 11.8 % recovery factor of the OOIP. The cumulative water injected is 485 e³m³.

Figure 3: Sinclair Unit No. 2 Cumulative Oil, Water and Water Injected vs Time



Waterflood Development Plan

Sinclair Unit No. 2 Waterflood (WF) Development Plan

Sinclair Unit No. 2 is still in the early stages of water injection, with injection just beginning in November 2010. As of December 2014, the Unit has 26 active horizontal injectors, 7 wells on production and 1 waiting to be completed. In 2014, Tundra converted 9 of the 17 remaining already drilled proposed injectors. Tundra expects to convert up to 3 of the 8 remaining proposed injectors prior to the end of 2015 subject to rig availability and reservoir performance. All injection wells are fracture stimulated to improve the injection rates.

Any future revisions to the waterflood development or surveillance plan would be based on new production or performance response data, technical studies, or observed reservoir behavior and reserves recovery interpretations.

Waterflood EOR Operating Strategy and Performance

Water Source and Quality

The injection water for Sinclair Unit No. 2 is sourced from the Lodgepole formation of the 16-32-007-29W1 well. The water is treated at the 03-04-008-29W1 battery where it is filtered to 0.5 microns and has scale inhibitor added. The injection water is then distributed to the injectors through the dedicated infrastructure system.

Injection Wellhead Pressures

The monthly wellhead injection pressures for each injection well are summarized in Appendix A. Since injection in this Unit is still in the early stages a few of the injectors show very low wellhead pressure, this is due to the low reservoir pressures in the pattern area. As fill-up occurs the wellhead pressures begin to register.

Reservoir Pressure

Tundra is committed to collecting pressures from every new openhole injection well drilled. It is not possible to collect a meaningful pressure for wells completed as cemented liners. Currently, for Sinclair Unit No. 2 the pressure data from 24 locations is available. Appendix B summarizes these results. The pressures were corrected to a common datum of -450 m SS for comparison. The table shows quite a range in pressure, from a low of 2700 kPaa to a high of 7400 kPaa. These values appear reasonable given their location in the pool and the corresponding production voidage in the surrounding area.

Well Servicing

The following table summarizes the well servicing performed within Sinclair Unit No. 2 during 2014:

102.08-30-007-28W1.00	Cemented Liner Cleanout	1/23/2014
100.12-18-007-28W1.00	Pump Change	1/24/2014
100.13-17-007-28W1.00	Pump Change	1/29/2014
102.04-30-007-28W1.00	Pump Change / Tubing Reconfiguration	1/31/2014
100.05-17-007-28W1.00	Pump Change	2/6/2014
100.14-07-007-28W1.00	Pump Change	2/24/2014
102.09-17-007-28W1.00	Add Frac	2/26/2014
102.04-19-007-28W1.00	Add Frac	3/10/2014
100.15-30-007-28W1.00	Pump Change	3/31/2014
100.10-18-007-28W1.00	Pump Change	7/21/2014

100.10-36-007-29W1.00	Pump Change	7/22/2014
102.12-18-007-28W1.00	Add Frac	7/23/2014
100.13-36-007-29W1.00	Pump Change	7/23/2014
100.15-13-007-29W1.00	Pump Change	7/24/2014
100.14-30-007-28W1.00	Pump Change	7/29/2014
102.04-25-007-29W1.00	Add Frac	8/1/2014
100.15-19-007-28W1.00	Rod Failure	8/18/2014
102.08-30-007-28W1.00	Packer Repair	9/10/2014
103.08-08-007-28W1.00	Packer Repair	9/12/2014
100.11-07-007-28W1.00	Pump Change	9/24/2014
100.01-19-007-28W1.00	Scale Squeeze	10/20/2014
100.10-18-007-28W1.00	Scale Squeeze	10/22/2014
100.11-07-007-28W1.00	Scale Squeeze	10/22/2014
100.13-08-007-28W1.00	Scale Squeeze	10/22/2014

Voidage Replacement

Tundra injects water for a minimum 1-3 year period to re-pressurize the reservoir due to cumulative primary production voidage and corresponding pressure depletion. During the initial fill-up period, the instantaneous voidage replacement ratio (VRR) ranges between 2 and 5 and averages approximately 1.25 to 2.0 by individual patterns. The injector pattern VRRs will be discussed in the waterflood performance section of the report.

Waterflood Performance Discussion

At the end of 2014, Sinclair Unit No. 2 waterflood area had 34 injection wells drilled, 26 of these wells are injecting into the Unit, 7 wells are producing and 1 is waiting to be completed. Water injection started in mid-November 2010 at the 02/09-30 injector. A quarter of the proposed future injectors were producing at the end of 2014, therefore, waterflood performance analysis will not be relevant until at least the 2016 Annual Report.

A summary table of the injector patterns is presented in Appendix C. Plots of the production and injection data along with the VRR information are presented in Appendix D for each of the injector patterns.

List of Appendices

Appendix A: Monthly Injection Wellhead Pressures Table and Plots

Appendix B: Sinclair Unit No. 2 Reservoir Pressure Summary Table

Appendix C: Sinclair Unit No. 2 Injection Pattern Summary

Appendix D: Injector Pattern Production/Injection Rates, Cumulative and VRR Plots for
the following injectors:

02/12-04-007-28W1
02/16-05-007-28W1
02/09-06-007-28W1
02/15-06-007-28W1
02/05-07-007-28W1
03/05-07-007-28W1
02/12-07-007-28W1
02/13-07-007-28W1
02/08-08-007-28W1
03/08-08-007-28W1
02/09-08-007-28W1
02/01-17-007-28W1
03/01-17-007-28W1
02/08-17-007-28W1
02/09-17-007-28W1
02/05-18-007-28W1
03/05-18-007-28W1
02/12-18-007-28W1
02/04-19-007-28W1
03/04-19-007-28W1
02/12-19-007-28W1
03/16-19-007-28W1
02/01-30-007-28W1
02/04-30-007-28W1
02/08-30-007-28W1
02/09-30-007-28W1
03/14-30-007-29W1
02/16-30-007-28W1
02/15-13-007-29W1
02/12-24-007-29W1
02/04-25-007-29W1
04/08-25-007-29W1
02/12-25-007-29W1
03/12-25-007-29W1

Appendix A

Average Monthly Injection Pressure (kPag)

Month	Injection Pressure							
	Section 04	Section 05	Section 06		Section 07			
	102/12-04	102/16-05	102/09-06	102/15-06	102/05-07	103/05-07	102/12-07	102/13-07
Nov-10	0	0	0	0	0	0	0	0
Dec-10	0	0	0	0	0	0	0	0
Jan-11	0	0	0	0	0	0	0	0
Feb-11	0	0	0	0	0	0	1627	0
Mar-11	0	0	0	0	0	0	2595	0
Apr-11	0	0	0	0	0	0	3525	0
May-11	0	0	0	0	0	0	3897	0
Jun-11	0	0	0	0	0	0	4463	0
Jul-11	0	0	0	0	0	0	4968	0
Aug-11	0	0	0	0	0	0	5098	0
Sep-11	0	0	0	0	0	0	5373	13
Oct-11	0	0	0	0	0	0	5469	387
Nov-11	0	0	0	0	0	0	5490	660
Dec-11	0	0	0	0	0	0	5713	1406
Jan-12	0	0	0	0	0	0	6111	2200
Feb-12	0	0	0	0	0	0	6101	3100
Mar-12	0	0	0	0	0	0	6004	3916
Apr-12	0	0	0	0	0	0	6015	4594
May-12	0	0	0	0	0	0	4033	2761
Jun-12	0	0	0	0	0	0	6058	4895
Jul-12	0	0	0	0	0	0	5988	4755
Aug-12	0	0	0	0	0	0	6141	5420
Sep-12	0	0	0	0	0	0	5915	5391
Oct-12	0	0	0	0	0	0	6203	6164
Nov-12	0	0	0	0	0	0	5341	5416
Dec-12	0	0	0	0	0	0	5319	5633
Jan-13	0	0	0	0	0	0	6044	6273
Feb-13	0	0	0	0	0	0	6008	6246
Mar-13	0	0	0	0	0	0	6151	6274
Apr-13	0	0	0	0	0	0	6235	6283
May-13	0	0	0	0	0	0	6257	6263
Jun-13	0	0	0	0	0	0	6278	6270
Jul-13	0	0	0	0	0	0	6282	6266
Aug-13	0	0	0	0	0	0	6265	5883
Sep-13	0	0	0	0	0	0	6257	5192
Oct-13	0	0	0	0	0	0	6069	6031
Nov-13	0	0	0	0	0	0	6290	6278
Dec-13	0	0	0	0	0	0	6220	6279
Jan-14	0	0	0	0	-22	0	6120	6289
Feb-14	0	0	0	0	-41	0	5958	6289
Mar-14	0	0	0	0	-87	0	5079	6289
Apr-14	0	0	0	0	-89	17	5321	557
May-14	12	0	0	0	-88	-48	4906	730
Jun-14	-80	123	60	34	-87	-84	5672	1353
Jul-14	-80	176	85	35	-85	98	5634	1624
Aug-14	-67	1168	887	87	63	1202	5628	2315
Sep-14	-67	1168	887	87	1090	2591	5736	2731
Oct-14	-67	1168	887	87	2489	3417	5509	3037
Nov-14	-67	1168	887	87	2629	3695	5646	3056
Dec-14	-67	1168	887	87	3066	3995	5618	3276

Appendix A

Average Monthly Injection Pressure (kPag)

Month	Injection Pressure						
	Section 08		Section 17			Section 18	
	102/08-08	103/08-08	102/01-17	103/01-17	102/09-17	102/05-18	102/12-18
Nov-10	0	0	0	0	0	0	0
Dec-10	0	0	0	0	7	0	7
Jan-11	0	0	0	0	150	340	123
Feb-11	0	0	0	0	1138	1804	591
Mar-11	0	0	97	71	1965	2939	1302
Apr-11	0	0	564	733	2690	3658	2193
May-11	0	0	1100	1076	3169	4117	2621
Jun-11	0	0	1788	1638	3738	4672	3235
Jul-11	0	0	2900	2958	4469	5010	4123
Aug-11	0	0	3452	3410	4852	5027	4547
Sep-11	0	0	3964	3878	5092	5227	4920
Oct-11	0	0	4450	4221	5379	5500	5000
Nov-11	0	0	4735	4393	5500	5500	5000
Dec-11	0	0	4913	4616	5484	5702	5187
Jan-12	0	0	5019	4752	5498	6181	5503
Feb-12	0	0	5001	4994	5478	6278	5496
Mar-12	0	0	5019	5027	5479	6292	5227
Apr-12	0	0	5068	4905	5415	6118	5472
May-12	0	0	3553	2680	3440	4818	3054
Jun-12	0	0	5496	4858	6135	6276	5288
Jul-12	0	0	5497	4997	6139	6203	5606
Aug-12	0	0	5590	5140	6184	6247	5719
Sep-12	0	0	5695	5215	6059	6104	5841
Oct-12	0	0	5961	5440	6276	6278	6115
Nov-12	0	0	5284	4759	5400	5645	5227
Dec-12	0	0	5553	4429	5716	5886	5599
Jan-13	0	0	6150	4832	6297	6294	6287
Feb-13	0	0	6129	5090	6264	6270	6254
Mar-13	0	0	6274	2379	6290	6298	6242
Apr-13	0	0	6291	2629	6301	6300	6219
May-13	0	0	6285	5011	6308	6302	6301
Jun-13	0	0	6268	5308	6298	6300	6287
Jul-13	0	0	6289	5460	6302	6274	6297
Aug-13	0	0	6238	5574	6271	6280	6250
Sep-13	0	0	6252	5614	6230	6276	6243
Oct-13	0	0	6003	5582	4929	6050	6041
Nov-13	0	0	6290	5803	4052	6299	6251
Dec-13	0	0	6271	5839	4052	6291	6195
Jan-14	0	-13	6279	5931	4197	6272	6294
Feb-14	0	-38	6198	5723	6300	6272	6291
Mar-14	0	-82	5768	5404	5492	6070	5727
Apr-14	46	-85	5506	4766	97	901	6213
May-14	-15	-85	5365	4171	-70	2828	5955
Jun-14	-80	-83	5261	3675	95	4474	4454
Jul-14	-80	-81	4928	3573	761	4897	0
Aug-14	-79	-82	5093	3605	1422	5437	-52
Sep-14	-78	-90	5204	2676	1243	5712	-86
Oct-14	-77	44	5190	2278	1439	5744	-81
Nov-14	-73	152	5121	2150	1481	5884	-45
Dec-14	-68	-77	5085	2038	1579	5957	311

Appendix A

Average Monthly Injection Pressure (kPag)

Month	Injection Pressure							
	Section 19			Section 30				Section 24
	102/04-19	102/12-19	103/16-19	102/01-30	102/08-30	102/09-30	102/16-30	102/12-24
Nov-10	0	0	0	0	0	0	0	0
Dec-10	13	0	0	0	0	0	0	381
Jan-11	0	0	16	0	0	0	0	2021
Feb-11	0	0	100	0	0	0	0	2929
Mar-11	13	0	29	0	0	0	0	3718
Apr-11	751	0	0	0	0	0	0	4000
May-11	1808	0	0	0	0	0	0	4314
Jun-11	2938	0	405	0	0	442	0	4823
Jul-11	4084	0	1668	0	0	1834	0	5000
Aug-11	4787	0	2292	0	0	2255	0	5000
Sep-11	5225	0	2895	0	0	2159	0	5147
Oct-11	5500	0	3695	0	31	3019	0	5465
Nov-11	5500	22	3907	0	815	3295	0	5500
Dec-11	5760	449	4066	0	1817	3230	0	5676
Jan-12	6210	821	4440	0	3069	3860	0	5956
Feb-12	6280	1353	4512	0	3820	4318	0	6282
Mar-12	6278	1728	4555	0	4177	4413	0	6262
Apr-12	6005	2107	4628	0	4513	4287	0	6194
May-12	2862	668	2937	0	2993	1721	0	5224
Jun-12	6176	1857	4665	0	4916	3577	0	6237
Jul-12	5626	2870	4961	0	4822	4071	0	6218
Aug-12	6132	3931	5046	0	5474	4838	0	6245
Sep-12	5979	4160	5198	0	5970	5090	0	6157
Oct-12	6284	4874	5416	0	6186	5598	0	6251
Nov-12	4742	4344	4901	0	4811	4785	0	4605
Dec-12	5330	4815	5231	0	5014	5320	0	2873
Jan-13	6290	5551	5644	0	5702	6023	0	2603
Feb-13	6258	5645	5791	0	5935	6046	0	3571
Mar-13	6300	5776	5934	0	6136	6234	0	4966
Apr-13	6251	5608	5851	0	5876	6177	0	5543
May-13	6297	5189	6118	0	2863	6295	0	6606
Jun-13	6242	6221	6142	0	-73	6285	0	6280
Jul-13	6279	6241	6224	0	-88	6229	0	6281
Aug-13	6202	6197	6189	0	-88	2946	0	6276
Sep-13	6160	6225	6122	0	-88	666	0	6252
Oct-13	5973	5976	5952	0	-88	382	0	6069
Nov-13	6044	6292	5777	0	-88	382	0	6277
Dec-13	5166	6288	4914	0	-88	382	0	6275
Jan-14	6288	6286	2643	0	-88	382	0	6275
Feb-14	5297	6286	3690	0	-54	85	0	6275
Mar-14	2467	6029	3788	0	-36	484	0	6001
Apr-14	219	6211	4522	0	461	3135	0	6264
May-14	1391	6296	4717	0	1802	4732	0	6282
Jun-14	2112	6297	4988	0	2631	5074	0	6250
Jul-14	2210	6215	4763	0	2895	4102	0	6150
Aug-14	2954	6296	5130	0	3759	3922	0	6187
Sep-14	3387	6296	5291	0	1071	3955	0	6281
Oct-14	3871	6286	5232	0	2711	4189	0	6269
Nov-14	3992	6286	5072	-56	3790	4288	4	6269
Dec-14	4114	6291	5307	-87	4311	4526	-58	6276

Appendix A

Average Monthly Injection Pressure (kPag)

Month	Injection Pressure		
	Section 25		
	102/04-25	102/12-25	103/12-25
Nov-10	0	0	0
Dec-10	0	0	0
Jan-11	58	0	394
Feb-11	716	0	1443
Mar-11	1361	0	2160
Apr-11	1950	43	2860
May-11	2569	419	3386
Jun-11	3352	1103	4127
Jul-11	4155	1981	4927
Aug-11	4358	2487	5000
Sep-11	4908	2912	5001
Oct-11	5015	3218	5053
Nov-11	5000	3482	5098
Dec-11	5187	3947	5211
Jan-12	5470	4687	5520
Feb-12	5425	4986	5497
Mar-12	5477	4989	5388
Apr-12	5583	4645	5364
May-12	4437	2949	4253
Jun-12	5966	4462	5447
Jul-12	6174	4989	5427
Aug-12	6054	5314	6018
Sep-12	6161	4964	6203
Oct-12	6288	5654	6249
Nov-12	4430	4972	5738
Dec-12	2569	5465	5870
Jan-13	1683	6151	6297
Feb-13	2288	6044	6289
Mar-13	4711	5412	6255
Apr-13	5458	3475	6139
May-13	6158	2706	6281
Jun-13	6129	4683	5997
Jul-13	6297	5899	5439
Aug-13	6279	5999	3599
Sep-13	6272	6084	4607
Oct-13	6111	5966	5265
Nov-13	6291	6272	6135
Dec-13	6291	6283	6283
Jan-14	6290	6277	6291
Feb-14	6292	6283	6295
Mar-14	6027	4985	5615
Apr-14	6283	6273	6180
May-14	6298	6291	6303
Jun-14	6103	6296	6306
Jul-14	1406	5729	6169
Aug-14	15	5993	6309
Sep-14	1085	6255	6300
Oct-14	1663	6261	6301
Nov-14	1948	8032	6289
Dec-14	2377	6242	6190

Appendix B

Sinclair Unit #2 - Pressure Summary

Sinclair Horizontal Well Pressures

-450 m SS (datum depth)
8.25 kPa/m (pressure gradient)
93 kPa added to gauge pressure

Location	KB m	Open Hole	mKB	mTVD	MPP mKB	MPP mTVD	MPP mSS	Last Stable P	Pres @ MPP (kPaa)	Corrected to Datum	Start Date	End Date	Shut-in (days)	Last Temp °C
102/12-04-007-28W1/00	493.72	1102.50	2066.00	971.15	978.57	974.86	-481.14	3937	4090	3833	13-Aug-11	27-Aug-11	0	
102/16-05-007-28W1/00	497.67	1119.50	1966.00	973.18	975.42	974.42	-476.75	4488	4641	4420	30-Jul-11	10-Aug-11	11	33.9
102/09-06-007-28W1/00	491.98	1091.00	2079.00	969.85	977.38	973.62	-481.64	4661	4800	4539	19-Aug-11	28-Aug-11	9	34.1
102/15-06-007-28W1/00	497.09	1114.50	2167.00	973.41	980.27	976.84	-479.75	3647	3800	3555	6-Aug-11	13-Aug-11	7	34.3
102/05-07-007-28W1/02													0	
103/05-07-007-28W1/00	498.37	1167	2376.0	972.1	980.4	976.2	-477.83	4470	4627	4397	17-Nov-11	2-Dec-11	15	33.2
102/12-07-007-28W1/00													0	
102/13-07-007-28W1/00													0	
102/08-08-007-28W1/00													0	
103/08-08-007-28W1/00	500.35	1106.5	2505.0	975.3	970.0	972.6	-472.25	3206	3252	3068	8-Dec-11	4-Jan-12	27	33.2
102/09-08-007-28W1/00													0	
102/01-17-007-28W1/00	491.54	1073.50	2487.00	953.46	954.93	954.19	-462.65	3644	3792	3688	5-Sep-10	15-Sep-10	10	32.8
103/01-17-007-28W1/00	491.47	1074.00	2332.00	957.42	954.14	955.78	-464.31	3326	3478	3360	28-Aug-10	15-Sep-10	18	30.5
102/08-17-007-28W1/00	491.64	1064.00	2238.40	956.90	950.50	953.70	-462.06	3508	3659	3560	3-Feb-11	19-Jun-11	136	
102/09-17-007-28W1/00	461.62	1060.50	2317.00	947.75	944.77	946.26	-484.64	2833	2983	2697	11-Sep-10	26-Sep-10	15	32.9
102/05-18-007-28W1/00	491.66	1086.50	2370.00	955.47	965.38	960.42	-468.76	5118	5270	5115	11-Sep-10	29-Sep-10	18	32.8
103/05-18-007-28W1/02	491.49	1086.50	2370.00	955.50	965.40	960.45	-468.96	3351	3506	3350	22-Jan-11	6-Jul-11	165	32.5
102/12-18-007-28W1/00	491.39	1074.00	2580.00	948.78	958.13	953.46	-462.07	2730	2880	2780	19-Sep-10	26-Sep-10	7	32.8
102/04-19-007-28W1/00	492.47	1070.50	2429.00	950.75	957.10	953.93	-461.46	2785	2939	2844	8-Aug-10	17-Aug-10	9	32.8
103/04-19-007-28W1/00													0	
102/12-19-007-28W1/00													0	
103/16-19-007-28W1/00	506.91	1074.50	2503.00	964.15	959.51	961.83	-454.92	2792	2948	2907	30-Aug-10	11-Sep-10	12	32.4
102/01-30-007-28W1/00													0	
102/04-30-007-28W1/00	496.60	1065.00	2365.00	945.59	950.04	947.82	-451.22	3225	3301	3291	30-Sep-11	9-Oct-11	9	32.5
102/08-30-007-28W1/00													0	
102/09-30-007-28W1/00	499.98	1060.00	2479.00	948.85	951.09	949.97	-449.99	3788	3940	3940	22-Aug-10	3-Sep-10	12	31.9
103/14-30-007-28W1/00	503.98	1087.00	2243.20	957.82	950.81	954.32	-450.34	4978		4975	31-Oct-12	25-Jan-13	86	31.1
102/16-30-007-28W1/00	496.23	1064.50	2051.00	944.83	944.62	944.73	-448.50	4833		4845	7-Oct-11	20-Oct-11	13	31.9
102/15-13-007-29W1/00													0	
102/12-24-007-29W1/00	507.02	1070.50	2341.00	967.24	974.99	971.11	-464.09	7291	7441	7325	5-Sep-10	13-Sep-10	8	32.2
102/04-25-007-29W1/00	507.38	1099.50	2345.00	965.95	973.07	969.51	-462.13	4151	4300	4200	30-Sep-10	22-Oct-10	22	31.9
104/08-25-007-29W1/00	511.04	1092.50	2356.00	973.28	967.55	970.42	-459.38	3558	3710	3633	24-Sep-11	27-Sep-11	3	32.25
102/12-25-007-29W1/00	503.35	1078.00	2345.00	955.46	966.42	960.94	-457.59	4940	5109	5046	12-Aug-10	18-Aug-10	6	32.7
103/12-25-007-29W1/00	500.13	1057.50	2328.00	950.28	959.10	954.69	-454.56	3828	3977	3939	15-Aug-10	27-Aug-10	12	31.9

Cemented liner - no pressure available

P @ MPP- last stable

These are using the approximate average from the Unit 1 well testing results

AVERAGE

496.46

1084.98

2318.28

959.77

962.90

1701.64

961.34

-464.87

4020

3971

17.9

32.6



TUNDRA OIL & GAS PARTNERSHIP

TUNDRA SINCLAIR UNIT # 2 (13-30) HZ W1W 1-31-7-28

102/01-31-007-28W1/00

LICENSE #: 8068

BAKKEN FORMATION

Open Hole: 1064.50 – 2051.00 mKBMD

(944.830 – 944.620 TVD)

RESERVOIR PRESSURE SURVEY DATA

OCTOBER 7th – 20th, 2011

Prepared by: **DOLLCO Well Data Services**

e-mail: dollco@shaw.ca

PO Box 326
417A Mississippian Drive
Estevan, SK
S4A 2A4

Cell: (306) 421 - 7330
Fax: (306) 634 - 7976
Res: (306) 634 - 8761

E-mail: qualityw@sasktel.net

Pressure Survey Report

Company Information

Company Name
Contact
e-mail
Phone
Site Contact
Site Phone

TUNDRA OIL & GAS PARTNERSHIP
JOSH PORTER
Josh.Porter@tundraoilandgas.com
1-204-851-2504
KIM COWAN
1-204-851-0543

Well Information

Well Name
Unique Well ID
Surface Location
Well License Number
Well Type
Well Fluid Type
Field

TUNDRA SINCLAIR UNIT # 2 (13-30) HZ W1W 1-31-7-28
102/01-31-007-28W1/00
13-30 / 1-31-7-28W1
8068
Horizontal
01 Oil
SINCLAIR UNIT # 2

KB Elevation (SL)
CF Elevation (SL)
GL Elevation (SL)
Distance from KB to CF (Log)
KB-GL Offset

496.23 m
492.43 m
492.13 m
3.80 m
4.10 m

Tubing ID
Tubing OD
Tubing Depth(Log KB)
Tubing Depth(TVD KB)
Casing ID
Casing OD
Casing Depth(Log KB)
Casing Depth(TVD KB)
PBTD(Log KB)
PBTD(TVD KB)

mm
mm
m
m
mm
139.7 mm
1064.50 m
944.83 m
m
m



Pressure Survey Report

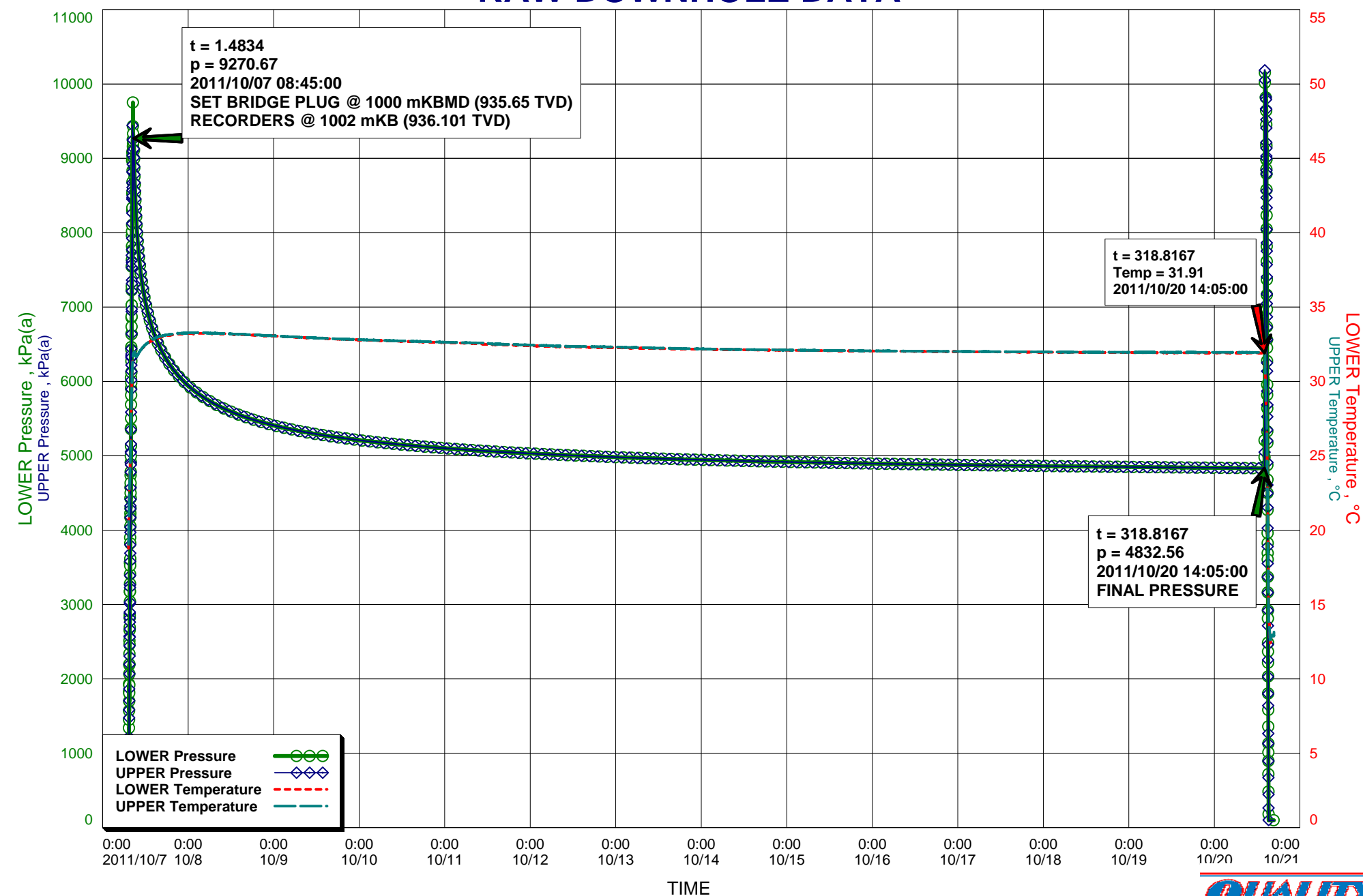
Test Information

Well Name	TUNDRA SINCLAIR UNIT # 2 (13-30) HZ W1W 1-31-7-28
Unique Well ID	102/01-31-007-28W1/00
Surface Location	13-30 / 1-31-7-28W1
Well License Number	8068
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Test Type	RESERVOIR PRESSURE SURVEY
Formation	BAKKEN
Pool	
Well Type Indicator	Horizontal
Test/Prod. Interval Top KB (Log)	1064.50 m
Test/Prod. Interval Base KB (Log)	2051.00 m
Test/Prod Interval Top KB (TVD)	944.83 m
Test/Prod. Interval Base m KB (TVD)	944.62 m
MPP(Log KB)	1557.75 m
MPP(TVD KB)	944.73 m
Date/Time Gauge on Bottom	2011/10/07 08:36:00
Date/Time Gauge Off Bottom	2011/10/20 14:26:00
Time/Date Well Shut-In	2011/10/07 08:45:00
Tubing Pressure Initial	93.01 kPa(a)
Casing Pressure Initial	93.01 kPa(a)
Tubing Pressure: Final	93.01 kPa(a)
Casing Pressure: Final	93.01 kPa(a)
Last Measured Pressure at Run Depth	4832.56 kPa(a)
Reservoir Temperature	31.91 °C
Service Company	Quality Wireline Services Ltd.
Representative	MIKE MUIR
Prepared By	DOLLCO Well Data Services
Qualified By	RICK DOLL
Report Date	2012/03/23

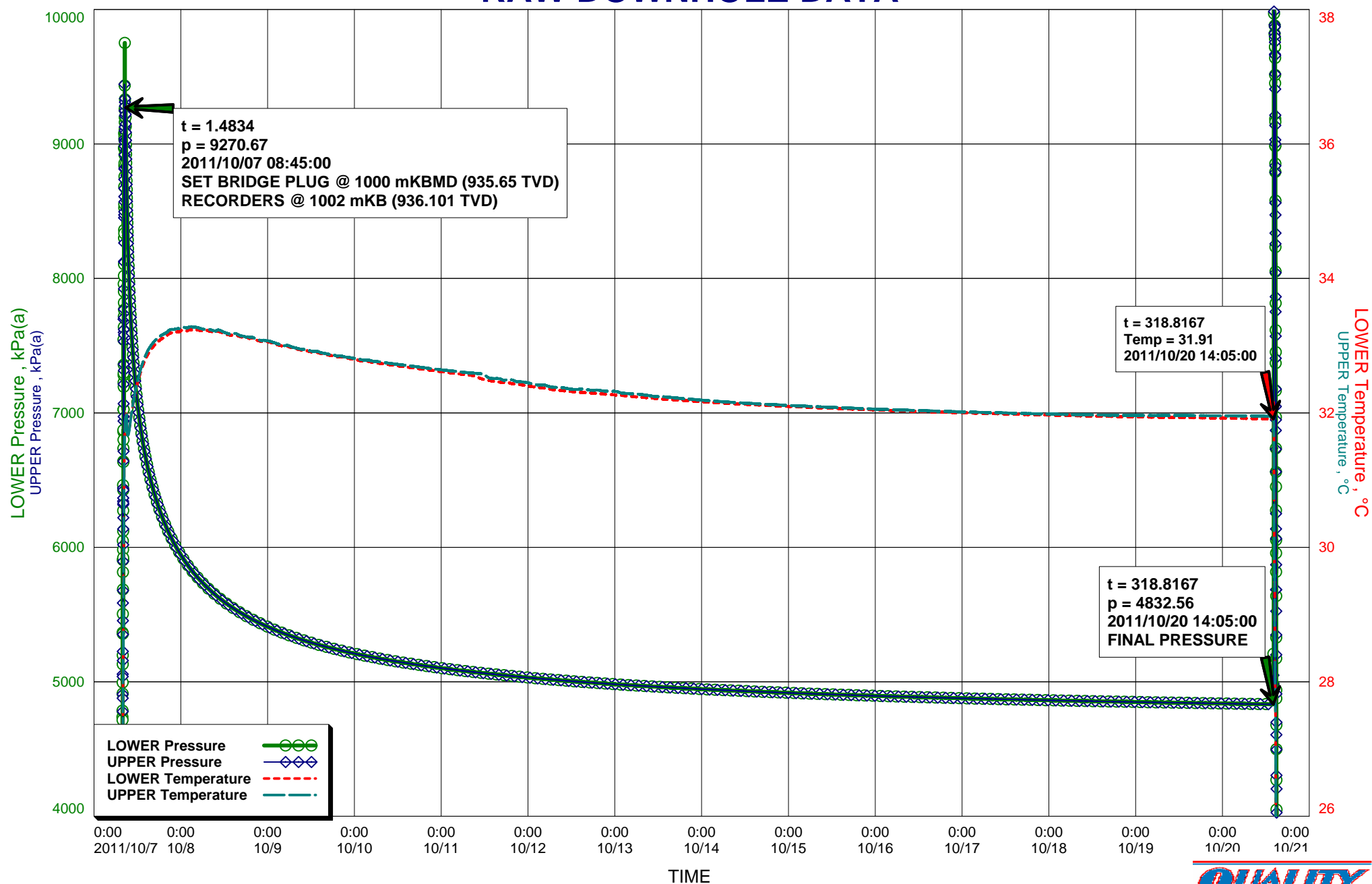
RECORDERS RUN & PULLED BELOW A BRIDGE PLUG WITH PIPE
OPEN HOLE: 1064.5 - 2051.0 mKBMD (944.83 - 944.62 TVD)



RAW DOWNHOLE DATA



RAW DOWNHOLE DATA



Recorder Information

Company Name	TUNDRA OIL & GAS PARTNERSHIP
Unique Well ID	102/01-31-007-28W1/00
Well Name	TUNDRA SINCLAIR UNIT # 2 (13-30) HZ W1W 1-31-7-28
Formation	BAKKEN
Start Test Date	2011/10/07
Final Test Date	2011/10/20

Gauge 1

Gauge Name	LOWER	Gauge Type	ELECTRONIC
Gauge Serial Number	40437	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	1002.00 m	Gauge Model	KC2 STRAIN
Date of Last Calibration	2010/02/17	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2011/10/07	Gauge Start Time	07:16:00
Gauge Stop Date	2011/10/20	Gauge Stop Time	16:45:00
Date Gauge On Bottom	2011/10/07	Time Gauge On Bottom	08:36:00
Date Gauge Off Bottom	2011/10/20	Time Gauge Off Bottom	14:26:00

Gauge 2

Gauge Name	UPPER	Gauge Type	ELECTRONIC
Gauge Serial Number	40430	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	1001.70 m	Gauge Model	KC2 STRAIN
Date of Last Calibration	2010/02/17	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2011/10/07	Gauge Start Time	07:16:00
Gauge Stop Date	2011/10/20	Gauge Stop Time	16:45:00
Date Gauge On Bottom	2011/10/07	Time Gauge On Bottom	08:36:00
Date Gauge Off Bottom	2011/10/20	Time Gauge Off Bottom	14:26:00

RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
1	2011/10/07	07:16:00	0.0000	464.80	18.78	0.0000	466.14	19.04
2	2011/10/07	07:16:00	0.0000	TRIGGER ACTIVATE RECORDERS S/N: 40437(L) & 40430(U)				
3	2011/10/07	07:16:30	0.0084	596.88	18.96	0.0084	465.59	19.23
4	2011/10/07	08:36:00	1.3334	9271.90	31.86	1.3334	9282.07	31.87
5	2011/10/07	08:36:00	1.3334	RECORDERS LANDED @ 1002 mKBMD (936.101 TVD)				
6	2011/10/07	08:36:30	1.3417	9266.72	31.88	1.3417	9270.19	31.88
7	2011/10/07	08:45:00	1.4834	9270.67	31.93	1.4834	9262.66	31.94
8	2011/10/07	08:45:00	1.4834	SET BRIDGE PLUG @ 1000 mKBMD (935.65 TVD)				
9	2011/10/07	08:45:30	1.4917	9246.19	31.93	1.4917	9263.18	31.94
10	2011/10/07	09:16:30	2.0084	8365.37	31.73	2.0084	8373.90	31.69
11	2011/10/07	11:16:30	4.0084	7265.61	32.27	4.0084	7270.01	32.28
12	2011/10/07	13:16:30	6.0084	6820.17	32.67	6.0084	6822.23	32.71
13	2011/10/07	15:16:30	8.0084	6543.43	32.91	8.0084	6545.09	32.96
14	2011/10/07	17:16:30	10.0084	6346.81	33.04	10.0084	6348.23	33.10
15	2011/10/07	19:16:30	12.0084	6196.35	33.12	12.0084	6197.66	33.17
16	2011/10/07	21:16:30	14.0084	6075.40	33.19	14.0084	6076.50	33.24
17	2011/10/07	23:16:30	16.0084	5975.81	33.20	16.0084	5976.52	33.26
18	2011/10/08	01:16:30	18.0084	5891.75	33.22	18.0084	5892.53	33.27
19	2011/10/08	03:16:30	20.0084	5820.01	33.23	20.0084	5820.34	33.28
20	2011/10/08	05:16:30	22.0084	5757.40	33.23	22.0084	5757.39	33.26
21	2011/10/08	07:16:30	24.0084	5702.31	33.23	24.0084	5702.63	33.25
22	2011/10/08	09:16:30	26.0084	5653.23	33.20	26.0084	5653.52	33.22
23	2011/10/08	11:16:30	28.0084	5609.42	33.20	28.0084	5609.63	33.22
24	2011/10/08	13:16:30	30.0084	5569.62	33.16	30.0084	5569.95	33.18
25	2011/10/08	15:17:00	32.0167	5533.89	33.16	32.0084	5534.06	33.18
26	2011/10/08	17:17:00	34.0167	5501.24	33.13	34.0084	5501.43	33.14
27	2011/10/08	19:17:00	36.0167	5471.30	33.11	36.0084	5471.60	33.12
28	2011/10/08	21:17:00	38.0167	5443.47	33.08	38.0084	5443.66	33.09
29	2011/10/08	23:17:00	40.0167	5418.04	33.06	40.0084	5418.11	33.08
30	2011/10/09	01:17:00	42.0167	5394.29	33.04	42.0084	5394.48	33.05
31	2011/10/09	03:17:00	44.0167	5372.54	33.01	44.0084	5372.46	33.02
32	2011/10/09	05:17:00	46.0167	5351.75	33.00	46.0084	5351.90	33.01
33	2011/10/09	07:17:00	48.0167	5332.67	32.96	48.0084	5332.59	32.97
34	2011/10/09	09:17:00	50.0167	5314.48	32.94	50.0084	5314.65	32.95
35	2011/10/09	11:17:00	52.0167	5297.47	32.92	52.0084	5297.26	32.93
36	2011/10/09	13:17:00	54.0167	5281.67	32.91	54.0084	5281.54	32.92
37	2011/10/09	15:17:00	56.0167	5266.60	32.88	56.0084	5266.38	32.89
38	2011/10/09	17:17:00	58.0167	5252.60	32.86	58.0084	5252.49	32.87
39	2011/10/09	19:17:00	60.0167	5239.16	32.84	60.0084	5239.09	32.85
40	2011/10/09	21:17:00	62.0167	5226.14	32.82	62.0084	5226.05	32.83

LOWER Serial Number: 40437 Start Date: 2011/10/07 07:16:00 Run Depth: 1002.00

UPPER Serial Number: 40430 Start Date: 2011/10/07 07:16:00 Run Depth: 1001.70

Print Filter: Print every 2 hour

TUNDRA OIL & GAS PARTNERSHIP
102/01-31-007-28W1/00
Start Test Date: 2011/10/07
Final Test Date: 2011/10/20

TUNDRA SINCLAIR UNIT # 2 (13-30) HZ W1W 1-31-7-28
Formation: BAKKEN

RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
41	2011/10/09	23:17:00	64.0167	5214.13	32.80	64.0167	5213.96	32.82
42	2011/10/10	01:17:00	66.0167	5202.64	32.78	66.0167	5202.75	32.80
43	2011/10/10	03:17:00	68.0167	5191.84	32.77	68.0167	5191.68	32.78
44	2011/10/10	05:17:00	70.0167	5181.48	32.75	70.0167	5181.50	32.77
45	2011/10/10	07:17:00	72.0167	5171.60	32.74	72.0167	5171.40	32.76
46	2011/10/10	09:17:00	74.0167	5161.70	32.72	74.0167	5161.72	32.74
47	2011/10/10	11:17:00	76.0167	5152.52	32.70	76.0167	5152.57	32.73
48	2011/10/10	13:17:00	78.0167	5143.84	32.69	78.0167	5143.49	32.71
49	2011/10/10	15:17:00	80.0167	5135.24	32.68	80.0167	5135.31	32.70
50	2011/10/10	17:17:00	82.0167	5127.21	32.66	82.0167	5127.36	32.69
51	2011/10/10	19:17:00	84.0167	5119.34	32.65	84.0167	5119.50	32.67
52	2011/10/10	21:17:00	86.0167	5111.86	32.63	86.0167	5111.90	32.66
53	2011/10/10	23:17:00	88.0167	5104.38	32.62	88.0167	5104.34	32.65
54	2011/10/11	01:17:00	90.0167	5097.31	32.61	90.0167	5097.36	32.64
55	2011/10/11	03:17:00	92.0167	5090.36	32.59	92.0167	5090.29	32.62
56	2011/10/11	05:17:00	94.0167	5084.17	32.58	94.0167	5083.82	32.61
57	2011/10/11	07:17:00	96.0167	5077.89	32.57	96.0167	5077.82	32.60
58	2011/10/11	09:17:00	98.0167	5071.37	32.55	98.0167	5071.58	32.59
59	2011/10/11	11:17:00	100.0167	5065.55	32.50	100.0167	5065.47	32.58
60	2011/10/11	13:17:00	102.0167	5059.75	32.48	102.0167	5059.48	32.52
61	2011/10/11	15:17:00	104.0167	5054.22	32.47	104.0167	5054.19	32.51
62	2011/10/11	17:17:00	106.0167	5048.67	32.45	106.0167	5048.41	32.49
63	2011/10/11	19:17:00	108.0167	5043.31	32.44	108.0167	5043.35	32.49
64	2011/10/11	21:17:00	110.0167	5038.28	32.42	110.0167	5038.06	32.46
65	2011/10/11	23:17:00	112.0167	5033.41	32.41	112.0167	5033.11	32.45
66	2011/10/12	01:17:00	114.0167	5028.51	32.39	114.0167	5028.16	32.43
67	2011/10/12	03:17:00	116.0167	5023.58	32.37	116.0167	5023.61	32.42
68	2011/10/12	05:17:00	118.0167	5019.16	32.36	118.0167	5018.97	32.40
69	2011/10/12	07:17:00	120.0167	5014.89	32.34	120.0167	5014.77	32.38
70	2011/10/12	09:17:00	122.0167	5010.53	32.33	122.0167	5010.41	32.38
71	2011/10/12	11:17:00	124.0167	5006.06	32.32	124.0167	5006.10	32.36
72	2011/10/12	13:17:00	126.0167	5001.97	32.31	126.0167	5001.98	32.35
73	2011/10/12	15:17:00	128.0167	4998.28	32.30	128.0167	4998.09	32.35
74	2011/10/12	17:17:00	130.0167	4994.42	32.30	130.0167	4994.17	32.34
75	2011/10/12	19:17:00	132.0167	4990.88	32.29	132.0167	4990.43	32.34
76	2011/10/12	21:17:00	134.0167	4986.88	32.28	134.0167	4986.60	32.32
77	2011/10/12	23:17:00	136.0167	4983.22	32.27	136.0167	4983.12	32.32
78	2011/10/13	01:17:00	138.0167	4979.48	32.26	138.0167	4979.29	32.30
79	2011/10/13	03:17:00	140.0167	4976.41	32.25	140.0167	4976.23	32.29
80	2011/10/13	05:17:00	142.0167	4973.03	32.24	142.0167	4973.10	32.28

LOWER Serial Number: 40437 Start Date: 2011/10/07 07:16:00 Run Depth: 1002.00
UPPER Serial Number: 40430 Start Date: 2011/10/07 07:16:00 Run Depth: 1001.70
Print Filter: Print every 2 hour

TUNDRA OIL & GAS PARTNERSHIP

102/01-31-007-28W1/00

Start Test Date: 2011/10/07

Final Test Date: 2011/10/20

TUNDRA SINCLAIR UNIT # 2 (13-30) HZ W1W 1-31-7-28

Formation: BAKKEN

RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
81	2011/10/13	07:17:00	144.0167	4969.87	32.23	144.0167	4969.65	32.27
82	2011/10/13	09:17:00	146.0167	4966.76	32.23	146.0167	4966.49	32.26
83	2011/10/13	11:17:00	148.0167	4963.59	32.21	148.0167	4963.42	32.24
84	2011/10/13	13:17:00	150.0167	4960.50	32.21	150.0167	4960.35	32.24
85	2011/10/13	15:17:00	152.0167	4957.69	32.20	152.0167	4957.50	32.23
86	2011/10/13	17:17:00	154.0167	4955.00	32.19	154.0167	4954.67	32.22
87	2011/10/13	19:17:00	156.0167	4951.94	32.18	156.0167	4951.74	32.21
88	2011/10/13	21:17:00	158.0167	4949.27	32.18	158.0167	4949.06	32.20
89	2011/10/13	23:17:00	160.0167	4946.65	32.17	160.0167	4946.07	32.19
90	2011/10/14	01:17:00	162.0167	4943.62	32.16	162.0167	4943.58	32.18
91	2011/10/14	03:17:00	164.0167	4941.18	32.15	164.0167	4940.93	32.18
92	2011/10/14	05:17:00	166.0167	4938.65	32.15	166.0167	4938.47	32.17
93	2011/10/14	07:17:00	168.0167	4936.27	32.14	168.0167	4936.18	32.16
94	2011/10/14	09:17:00	170.0167	4934.27	32.14	170.0167	4933.69	32.15
95	2011/10/14	11:17:00	172.0167	4931.89	32.13	172.0167	4931.32	32.15
96	2011/10/14	13:17:00	174.0167	4929.64	32.12	174.0167	4929.31	32.14
97	2011/10/14	15:17:00	176.0167	4927.17	32.12	176.0167	4926.85	32.14
98	2011/10/14	17:17:00	178.0167	4925.09	32.11	178.0167	4924.89	32.13
99	2011/10/14	19:17:00	180.0167	4922.99	32.11	180.0167	4922.85	32.12
100	2011/10/14	21:17:00	182.0167	4920.69	32.10	182.0167	4920.66	32.12
101	2011/10/14	23:17:00	184.0167	4918.51	32.10	184.0167	4918.26	32.11
102	2011/10/15	01:17:00	186.0167	4916.28	32.09	186.0167	4916.22	32.11
103	2011/10/15	03:17:00	188.0167	4914.46	32.09	188.0167	4914.13	32.10
104	2011/10/15	05:17:00	190.0167	4912.45	32.08	190.0167	4912.27	32.10
105	2011/10/15	07:17:00	192.0167	4910.39	32.08	192.0167	4910.50	32.09
106	2011/10/15	09:17:00	194.0167	4908.52	32.08	194.0167	4908.45	32.09
107	2011/10/15	11:17:00	196.0167	4906.82	32.07	196.0167	4906.48	32.08
108	2011/10/15	13:17:00	198.0167	4904.84	32.07	198.0167	4904.49	32.08
109	2011/10/15	15:17:00	200.0167	4902.82	32.06	200.0167	4903.02	32.08
110	2011/10/15	17:17:00	202.0167	4901.20	32.06	202.0167	4901.00	32.07
111	2011/10/15	19:17:00	204.0167	4899.61	32.05	204.0167	4899.57	32.07
112	2011/10/15	21:17:00	206.0167	4898.04	32.05	206.0167	4897.78	32.06
113	2011/10/15	23:17:00	208.0167	4896.25	32.04	208.0167	4896.08	32.06
114	2011/10/16	01:17:00	210.0167	4894.36	32.04	210.0167	4894.17	32.05
115	2011/10/16	03:17:00	212.0167	4892.55	32.04	212.0167	4892.51	32.05
116	2011/10/16	05:17:00	214.0167	4891.16	32.03	214.0167	4891.30	32.05
117	2011/10/16	07:17:00	216.0167	4889.84	32.03	216.0167	4889.50	32.04
118	2011/10/16	09:17:00	218.0167	4888.19	32.03	218.0167	4888.30	32.04
119	2011/10/16	11:17:00	220.0167	4886.71	32.02	220.0167	4886.60	32.04
120	2011/10/16	13:17:00	222.0167	4885.19	32.02	222.0167	4885.17	32.03

LOWER Serial Number: 40437 Start Date: 2011/10/07 07:16:00 Run Depth: 1002.00

UPPER Serial Number: 40430 Start Date: 2011/10/07 07:16:00 Run Depth: 1001.70

Print Filter: Print every 2 hour

RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
121	2011/10/16	15:17:00	224.0167	4883.88	32.02	224.0167	4883.40	32.03
122	2011/10/16	17:17:00	226.0167	4882.30	32.01	226.0167	4882.20	32.03
123	2011/10/16	19:17:00	228.0167	4880.94	32.01	228.0167	4880.73	32.02
124	2011/10/16	21:17:00	230.0167	4879.52	32.01	230.0167	4879.44	32.02
125	2011/10/16	23:17:00	232.0167	4878.01	32.00	232.0167	4877.99	32.01
126	2011/10/17	01:17:00	234.0167	4876.78	32.00	234.0167	4876.42	32.01
127	2011/10/17	03:17:00	236.0167	4875.15	32.00	236.0167	4874.98	32.01
128	2011/10/17	05:17:00	238.0167	4873.97	32.00	238.0167	4873.54	32.01
129	2011/10/17	07:17:00	240.0167	4872.63	31.99	240.0167	4872.24	32.00
130	2011/10/17	09:17:00	242.0167	4871.55	31.99	242.0167	4871.19	32.00
131	2011/10/17	11:17:00	244.0167	4870.37	31.99	244.0167	4870.20	32.00
132	2011/10/17	13:17:00	246.0167	4868.99	31.98	246.0167	4868.81	32.00
133	2011/10/17	15:17:00	248.0167	4867.67	31.98	248.0167	4867.62	31.99
134	2011/10/17	17:17:00	250.0167	4866.60	31.98	250.0167	4866.38	31.99
135	2011/10/17	19:17:00	252.0167	4865.49	31.97	252.0167	4865.24	31.99
136	2011/10/17	21:17:00	254.0167	4864.11	31.97	254.0167	4863.87	31.99
137	2011/10/17	23:17:30	256.0250	4862.98	31.97	256.0250	4862.75	31.98
138	2011/10/18	01:17:30	258.0250	4861.69	31.96	258.0250	4861.53	31.98
139	2011/10/18	03:17:30	260.0250	4860.59	31.96	260.0250	4860.31	31.98
140	2011/10/18	05:17:30	262.0250	4859.57	31.96	262.0250	4859.39	31.98
141	2011/10/18	07:17:30	264.0250	4858.49	31.96	264.0250	4858.16	31.97
142	2011/10/18	09:17:30	266.0250	4857.37	31.96	266.0250	4857.34	31.97
143	2011/10/18	11:17:30	268.0250	4856.45	31.95	268.0250	4856.19	31.97
144	2011/10/18	13:17:30	270.0250	4855.53	31.95	270.0250	4855.04	31.97
145	2011/10/18	15:17:30	272.0250	4854.07	31.95	272.0250	4854.01	31.96
146	2011/10/18	17:17:30	274.0250	4853.34	31.95	274.0250	4852.79	31.97
147	2011/10/18	19:17:30	276.0250	4852.17	31.94	276.0250	4852.14	31.97
148	2011/10/18	21:17:30	278.0250	4851.09	31.94	278.0250	4851.10	31.96
149	2011/10/18	23:17:30	280.0250	4850.21	31.94	280.0250	4850.12	31.96
150	2011/10/19	01:17:30	282.0250	4849.23	31.94	282.0250	4848.84	31.96
151	2011/10/19	03:17:30	284.0250	4848.33	31.94	284.0250	4848.25	31.96
152	2011/10/19	05:17:30	286.0250	4847.01	31.94	286.0250	4847.10	31.96
153	2011/10/19	07:17:30	288.0250	4846.34	31.93	288.0250	4845.98	31.96
154	2011/10/19	09:17:30	290.0250	4845.29	31.93	290.0250	4845.23	31.96
155	2011/10/19	11:17:30	292.0250	4844.48	31.93	292.0250	4844.27	31.97
156	2011/10/19	13:17:30	294.0250	4843.66	31.93	294.0250	4843.36	31.96
157	2011/10/19	15:17:30	296.0250	4842.69	31.93	296.0250	4842.17	31.96
158	2011/10/19	17:17:30	298.0250	4841.63	31.93	298.0250	4841.26	31.96
159	2011/10/19	19:17:30	300.0250	4840.56	31.92	300.0250	4840.54	31.96
160	2011/10/19	21:17:30	302.0250	4839.61	31.92	302.0250	4839.47	31.96

LOWER Serial Number: 40437 Start Date: 2011/10/07 07:16:00 Run Depth: 1002.00

UPPER Serial Number: 40430 Start Date: 2011/10/07 07:16:00 Run Depth: 1001.70

Print Filter: Print every 2 hour

TUNDRA OIL & GAS PARTNERSHIP
 102/01-31-007-28W1/00
 Start Test Date: 2011/10/07
 Final Test Date: 2011/10/20

TUNDRA SINCLAIR UNIT # 2 (13-30) HZ W1W 1-31-7-28
 Formation: BAKKEN

RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
161	2011/10/19	23:17:30	304.0250	4839.03	31.92	304.0250	4838.74	31.96
162	2011/10/20	01:17:30	306.0250	4838.05	31.92	306.0250	4837.69	31.96
163	2011/10/20	03:17:30	308.0250	4836.92	31.92	308.0250	4837.08	31.96
164	2011/10/20	05:17:30	310.0250	4836.27	31.92	310.0250	4835.92	31.95
165	2011/10/20	07:17:30	312.0250	4835.11	31.92	312.0250	4835.03	31.96
166	2011/10/20	09:17:30	314.0250	4834.55	31.92	314.0250	4834.20	31.95
167	2011/10/20	11:17:30	316.0250	4833.53	31.91	316.0250	4833.51	31.95
168	2011/10/20	13:17:30	318.0250	4833.16	31.91	318.0250	4832.74	31.95
169	2011/10/20	14:05:00	318.8167	4832.56	31.91	318.8167	4833.10	31.95
170	2011/10/20	14:05:00	318.8167	FINAL PRESSURE, UNSETTING BRIDGE PLUG				
171	2011/10/20	14:05:30	318.8250	5207.91	31.92	318.8250	5049.11	31.95
172	2011/10/20	14:11:00	318.9167	10151.19	32.23	318.9167	10051.09	32.00
173	2011/10/20	14:11:00	318.9167	BRIDGE PLUG UNSET.				
174	2011/10/20	14:11:30	318.9250	10015.19	32.22	318.9250	10025.24	31.94
175	2011/10/20	14:26:00	319.1667	9964.53	29.49	319.1667	9825.42	29.59
176	2011/10/20	14:26:00	319.1667	OFF BOTTOM, TOOLS PULLED WITH TUBING				
177	2011/10/20	14:26:30	319.1750	9819.00	29.49	319.1750	9887.28	29.49
178	2011/10/20	15:17:30	320.0250	98.20	13.82	320.0250	94.59	13.69
179	2011/10/20	15:30:00	320.2334	97.93	13.62	320.2334	94.42	13.37
180	2011/10/20	15:30:00	320.2334	RECORDERS AT SURFACE				
181	2011/10/20	15:30:30	320.2417	97.90	13.60	320.2417	94.45	13.34
182	2011/10/20	16:45:00	321.4834	98.48	12.74	321.4834	97.38	13.15

LOWER Serial Number: 40437 Start Date: 2011/10/07 07:16:00 Run Depth: 1002.00
 UPPER Serial Number: 40430 Start Date: 2011/10/07 07:16:00 Run Depth: 1001.70
 Print Filter: Print every 2 hour



DATE: October 7 - 20, 2011	COMPANY: Tundra Oil & Gas Partnership
WELLNAME: Tundra Sinclair Unit #2 (13-30) Hz WIW 1-31-7-28 WPM	ADDRESS: Virden, MB
LOCATION: (13-30) 1-31-7-28 W1M	UWI: 102.01-31-007-28W1.00
FIELD: Sinclair Unit #2	FORMATION: Bakken
CO HQ REP: Josh Porter	PHONE: 204-851-2504
FIELD REP: Kim Cowan	PHONE: 204-851-0543
REPORTS TO (NAME & EMAIL ADDRESS): Eric Bjornsson - eric.bjornsson@tundraoilandgas.com Tyler Routledge - tyler.routledge@tundraoilandgas.com Tim Howell - tim.howell@tundraoilandgas.com Craig Lane - craig.lane@tundraoilandgas.com Bill Jenkins - bill.jenkins@tundraoilandgas.com Adam Berke - adam.berke@tundraoilandgas.com Josh Porter - josh.porter@tundraoilandgas.com	

STATUS: Injection well (completion)		TEST TYPE: build up	
ESTIMATED H2S CONTENT: 0%		ESTIMATED CO2 CONTENT: 0%	
PRODUCING THROUGH: tubing		SHUT IN TIME/DATE: 08:45 Oct 7/11	
KOP: 764 mKB	TVD: ds included		LICENCE #: 8068
PBTD: n/a	TD: 2051 mKB		WELL TYPE: horizontal
CASING SIZE: 177.8 mm	CSG WEIGHT: 34.23 & 29.76		CSG DEPTH: 1064.5 mKB
TUBING SIZE: none	TBG WEIGHT: none		TBG DEPTH: none
Elevations KB: 496.23 m	GRD: 492.13 m		CF: 492.43 m

PRODUCING INTERVAL

TYPE: open hole	SIZE: n/a	INTERVAL: 1064.5 - 2051 mKB
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RECORDER INFORMATION

TOP S/N: 40430	FILE NAME: 13-30-1-31-7-28W1	RANGE: 20,680 kpa
BOTTOM S/N: 40437	FILE NAME: 13-30-1-31-7-28W1	RANGE: 20,680 kpa
TOP BATTERY S/N: n/a	BOTTOM BATTERY S/N: n/a	
CONNECT TIME: 07:15 Oct 7/11	DISCONNECT TIME: 16:49 Oct 20/11	

SURFACE TEMP: 4 C	LEASE CONDITION: good
WIRELINE OPERATOR: Mike Muir	PHONE: 306-421-7330
WIRELINE ASSISTANT: n/a	
DIRECTIONS: n/a	

DWG WELL HEAD PRESSURES:

TUBING (before survey): 0 kpa	CASING (before survey): 0 kpa
TUBING (after survey): 0 kpa	CASING (after survey): 0 kpa

FLUID LEVEL: n/a	RUN DEPTH: 1002 mKB
TIME ON BOTTOM: 08:36 Oct 7/11	TIME OFF BOTTOM: 14:26 Oct 20/11

GRADIENT STOPS

DEPTH mKB:	n/a	FROM:	n/a	UNTIL:	n/a
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COMMENTS: These recorders were run and pulled below a bridge plug with tubing.
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DESCRIPTION OF WORK DONE: October 7, 2011 07:15 - the 21 mPa KC-2 recorders were set to logging mode by a pressure trigger while being run into the well by a drilling rig.

08:36 - the recorders were at 1002 mKB.
08:45 - the bridge plug was set at 1000 mKB (recorders at 1002 mKB), the plug was released and the bridge plug was pulled and laid down.
October 20, 2011
14:05 - a service rig ran tubing into the well, latched onto, and was preparing to unset the bridge plug.
14:11 - the bridge plug was unset.
14:26 - the tools were pulled from the well with the tubing.
15:30 - the recorders were at surface.
16:49 - the recorders were downloaded.

Appendix C

Sinclair Unit No. 2 Injection Pattern Summary as of December 2014

Pattern Name	Injector BH Location (007-28W1)	Injector Surface Location (007-28W1)	Status	Supported Wells (007-28W1)	No. of Supported Wells	Allocation Factor	Pattern Prod Start Month	Injector Start Month	Oil Rate (m³/d)	Water Rate (m³/d)	WOR (m³/m³)	Water Injection (m³/d)	Cum Oil (E³m³)	Cum Water Inj (E³m³)	Monthly VRR	Cum VRR
02/12-04-007-28W1 Injector	02/12-04	14-05	WTR Injection	12-04, 13-04, 09-05, 10-05, 15-05, 16-05	6	0.5	Jan 2007	Mar 2014	1.5	2.1	1.43	18.5	10.6	11.6	5.3	0.23
02/16-05-007-28W1 Injector	02/16-05	14-May	WTR Injection	14-05, 15-05, 16-05, 01-08, 02-08, 03-08	8	0.5	Sep 2007	Jan 2014	1.9	1.1	0.60	24.9	12.2	8.6	7.1	0.33
02/09-06-007-28W1 Injector	02/09-06	15-05	WTR Injection	11-05, 12-05, 13-05, 14-05, 09-06, 16-06	6	0.5	Sep 2006	Jan 2014	1.5	1.0	0.66	24.6	10.0	8.3	6.9	0.36
02/15-06-007-28W1 Injector	02/15-06	14-05	WTR Injection	13-05, 15-06, 16-06, 01-07, 02-07, 04-08	6	0.5	Sep 2006	Dec 2013	2.7	1.0	0.37	19.5	12.8	7.9	7.4	0.34
02/05-07-007-28W1 Injector	02/05-07	01-07	WTR Injection	01-07, 02-07, 03-07, 04-07, 05-07, 06-07, 07-07, 08-07	8	0.5	Jan 2007	Jan 2014	3.7	1.8	0.48	18.4	16.5	13.7	5.5	0.18
03/05-07-007-28W1 Injector	03/05-07	09-07	WTR Injection	05-07, 06-07, 07-07, 08-07, 09-07, 10-07, 11-07, 12-07	8	0.5	Jan 2007	Apr 2014	3.5	3.0	0.88	22.4	15.8	15.8	4.9	0.15
02/12-07-007-28W1 Injector	02/12-07	16-07	WTR Injection	09-07, 10-07, 11-07, 12-07, 13-07, 14-07, 15-07, 16-07	8	0.5	Dec 2007	Dec 2010	3.0	3.7	1.24	10.2	11.0	14.9	23.3	1.49
02/13-07-007-28W1 Injector	02/13-07	04-17	WTR Injection	13-07, 14-07, 15-07, 16-07, 01-18, 02-18, 03-18, 04-18	8	0.5	Oct 2006	Jun 2011	3.1	3.2	1.03	19.7	12.4	12.5	15.4	0.60
02/08-08-007-28W1 Injector	02/08-08	09-07	WTR Injection	05-08, 06-08, 07-08, 08-08, 09-08, 10-08, 11-08, 12-08	6	0.5	Jan 2007	Apr 2014	2.3	1.5	0.68	9.5	15.5	9.4	3.9	0.15
03/08-08-007-28W1 Injector	03/08-08	08-07	WTR Injection	01-08, 02-08, 03-08, 04-08, 05-08, 06-08, 07-08, 08-08	8	0.5	Sep 2007	Jan 2014	3.0	1.2	0.40	8.7	16.4	9.5	5.0	0.19
02/09-08-007-28W1 Injector	02/09-08	09-07	Capable of OIL Prod	09-08, 10-08, 11-08, 12-08, 13-08, 14-08, 15-08, 16-08	8	0.5	Feb 2007	-	7.0	8.0	1.15	-	23.4	13.1	0.0	0.00
02/01-17-007-28W1 Injector	02/01-17	01-18	WTR Injection	01-17, 02-17, 03-17, 04-17, 05-17, 06-17, 07-17, 08-17	8	0.5	Sep 2006	Dec 2010	3.8	3.2	0.84	14.8	20.0	9.4	38.0	1.24
03/01-17-007-28W1 Injector	03/01-17	13-08	WTR Injection	13-08, 14-08, 15-08, 16-08, 01-17, 02-17, 03-17, 04-17	8	0.5	Sep 2006	Dec 2010	3.9	3.1	0.80	9.7	20.8	8.8	38.6	1.24
02/08-17-007-28W1 Injector	02/08-17	12-17	Capable of OIL Prod	05-17, 06-17, 07-17, 08-17, 09-17, 10-17, 11-17, 12-17	8	0.5	Sep 2006	-	9.8	5.8	0.59	-	27.5	11.8	0.0	0.00
02/09-17-007-28W1 Injector	02/09-17	13-17	WTR Injection	09-17, 10-17, 11-17, 12-17, 13-17, 14-17, 15-17, 16-17	4	0.5	Sep 2006	Dec 2010	7.5	2.1	0.28	21.6	26.0	7.8	29.1	2.12
02/05-18-007-28W1 Injector	02/05-18	08-18	WTR Injection	01-18, 02-18, 03-18, 04-18, 05-18, 06-18, 07-18, 08-18	8	0.5	Oct 2006	Dec 2010	2.9	2.9	1.02	23.4	14.8	6.9	19.7	3.91
03/05-18-007-28W1 Injector	03/05-18	12-17	Capable of OIL Prod	05-18, 06-18, 07-18, 08-18, 09-18, 10-18, 11-18, 12-18	8	0.5	Jul 2007	-	8.1	4.4	0.54	-	23.8	10.0	0.0	0.00
02/12-18-007-28W1 Injector	02/12-18	13-17	WTR Injection	09-18, 10-18, 11-18, 12-18, 13-18, 14-18, 15-18, 16-18	8	0.5	Dec 2004	Dec 2010	5.9	2.1	0.35	20.7	23.4	7.4	23.0	0.71
02/04-19-007-28W1 Injector	02/04-19	16-18	WTR Injection	13-18, 14-18, 15-18, 16-18, 01-19, 02-19, 03-19, 04-19	8	0.5	Dec 2004	Dec 2010	6.1	2.3	0.37	24.1	26.1	7.5	25.9	2.72
03/04-19-007-28W1 Injector	03/04-19	01-19	Capable of OIL Prod	01-19, 02-19, 03-19, 04-19, 05-19, 06-19, 07-19, 08-19	8	0.5	Mar 2006	-	9.0	2.3	0.26	-	30.3	9.4	0.0	0.00
02/12-19-007-28W1 Injector	02/12-19	09-19	WTR Injection	05-19, 06-19, 07-19, 08-19, 09-19, 10-19, 11-19, 12-19	8	0.5	Mar 2006	Mar 2011	5.6	1.4	0.26	18.3	25.0	6.4	30.9	2.47
03/16-19-007-28W1 Injector	03/16-19	16-24 (007-29W1)	WTR Injection	09-19, 10-19, 11-19, 12-19, 13-19, 14-19, 15-19, 16-19	8	0.5	Nov 2006	Nov 2010	5.4	1.9	0.34	19.6	26.5	6.1	39.3	2.57
02/01-30-007-28W1 Injector	02/01-30	01-25 (007-29W1)	WTR Injection	13-19, 14-19, 15-19, 16-19, 01-30, 02-30, 03-30, 04-30	8	0.5	Mar 2006	Nov 2014	3.6	1.8	0.49	19.5	25.7	7.9	0.9	3.51
02/04-30-007-28W1 Injector	02/04-30	01-30	Capable of OIL Prod	01-30, 02-30, 03-30, 04-30, 05-30, 06-30, 07-30, 08-30	8	0.5	Mar 2006	-	5.7	3.0	0.52	-	21.1	8.2	0.0	0.00
02/08-30-007-28W1 Injector	02/08-30	08-25 (007-29W1)	WTR Injection	05-30, 06-30, 07-30, 08-30, 09-30, 10-30, 11-30, 12-30	8	0.5	Mar 2006	Jun 2011	4.1	1.2	0.29	29.1	17.7	5.2	17.6	5.26
02/09-30-007-28W1 Injector	02/09-30	09-25 (007-29W1)	WTR Injection	13-30, 14-30, 15-30, 16-30	8	0.5	Oct 2006	Nov 2010	4.9	6.0	1.21	18.9	18.7	9.6	32.7	1.68

Sinclair Unit No. 2 Injection Pattern Summary as of December 2014

13-25, 14-25	2	0.7
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Appendix D

Rates and VRR Plots

Pattern: 02/12-04-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

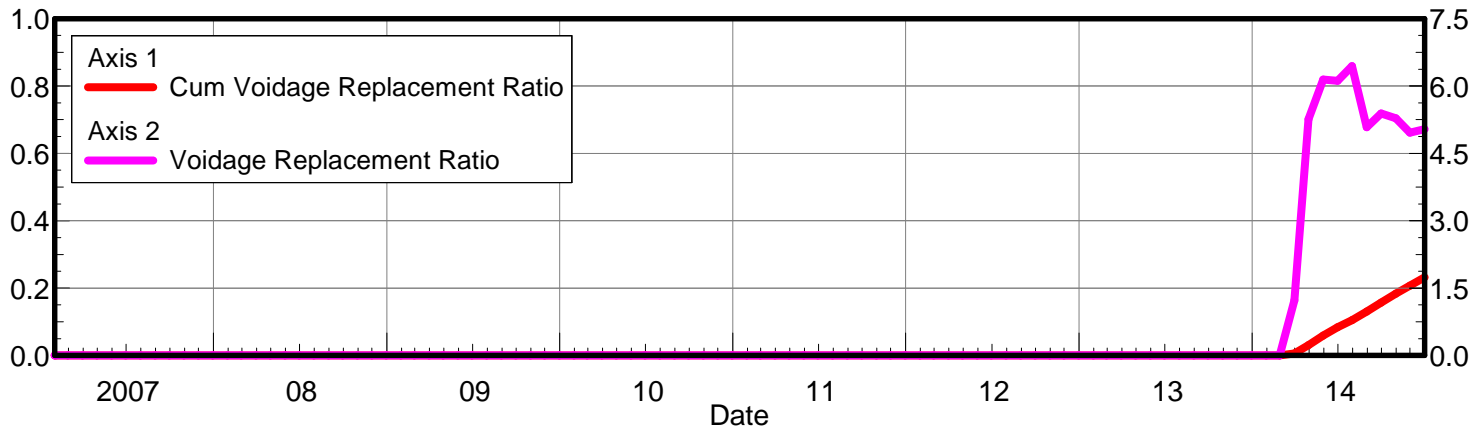
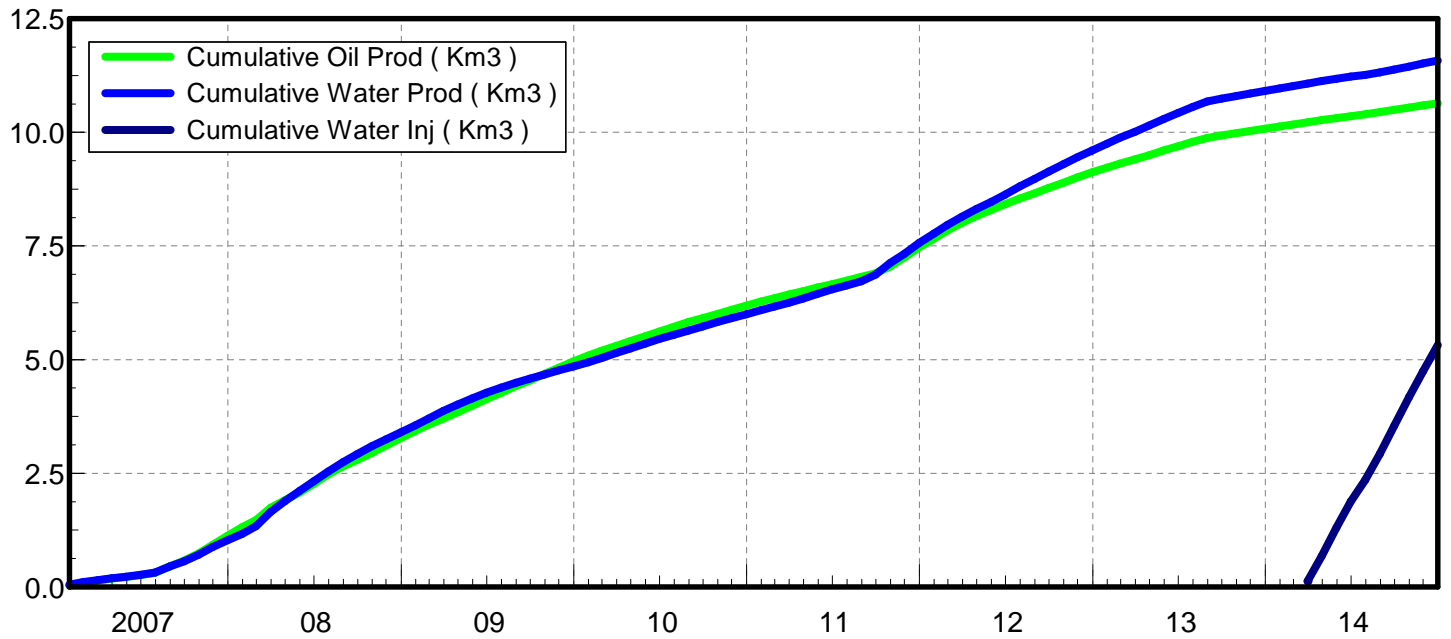
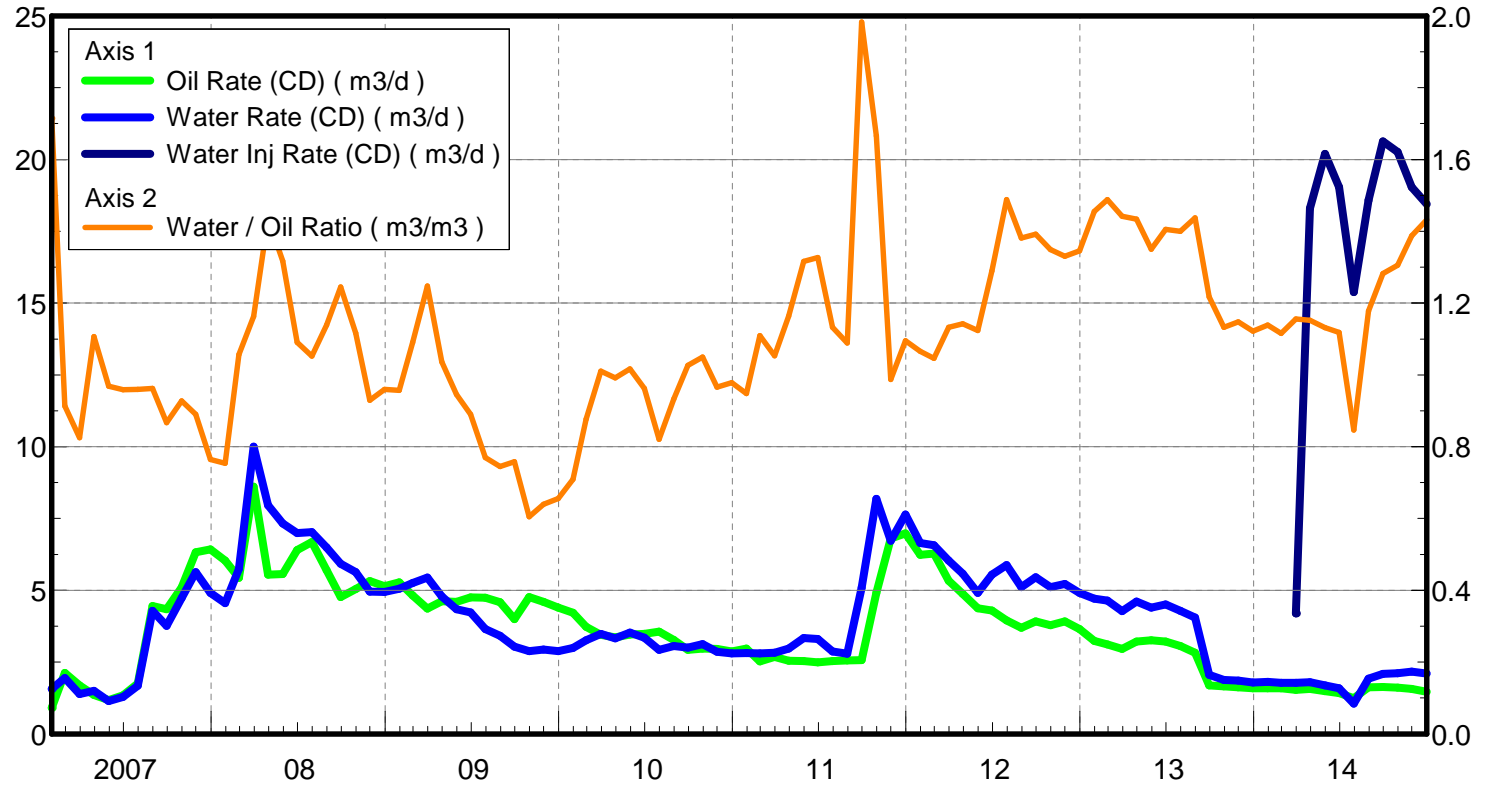
Water / Oil Ratio : 1.43 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 1.46 m3/d

Water Rate (CD) : 2.10 m3/d

Water Inj Rate (CD) : 18.45 m3/d



Pattern: 02/16-05-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.60 m3/m3

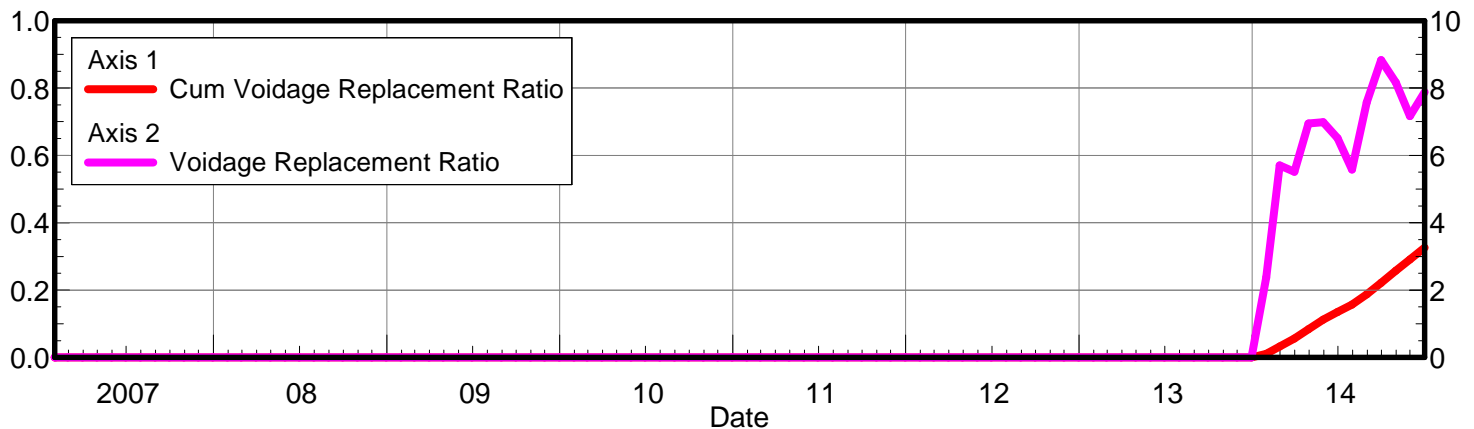
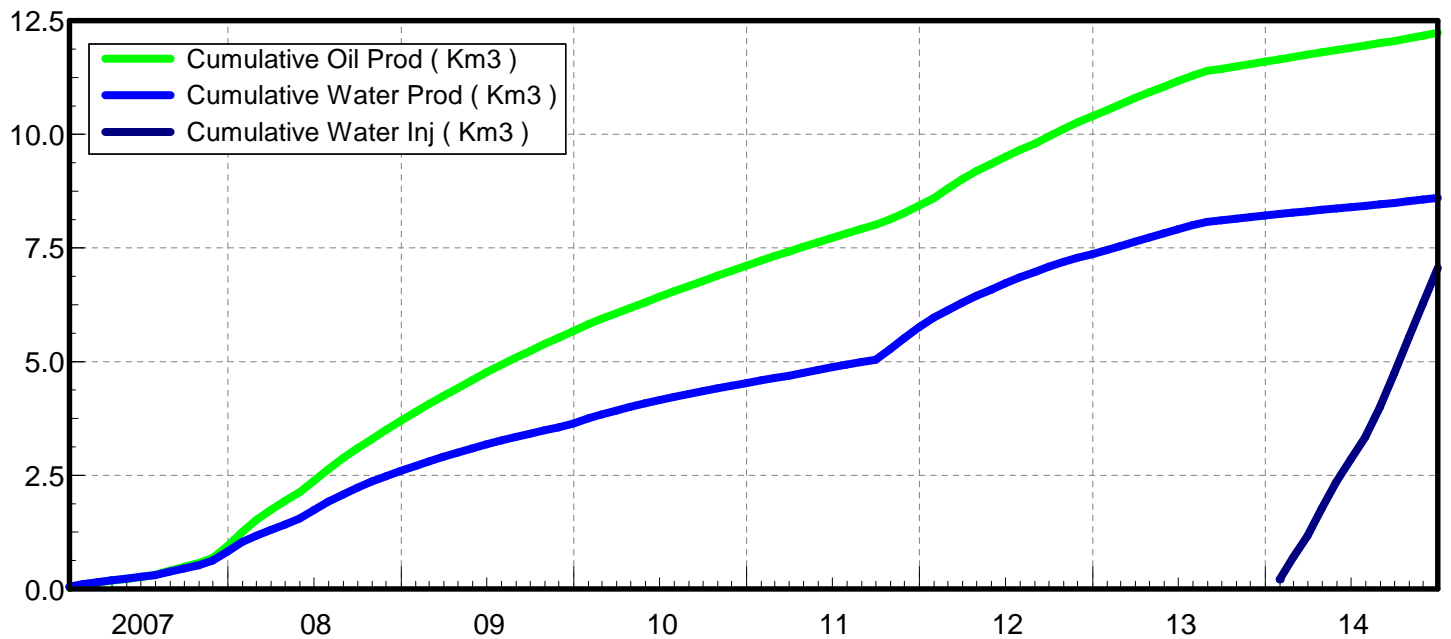
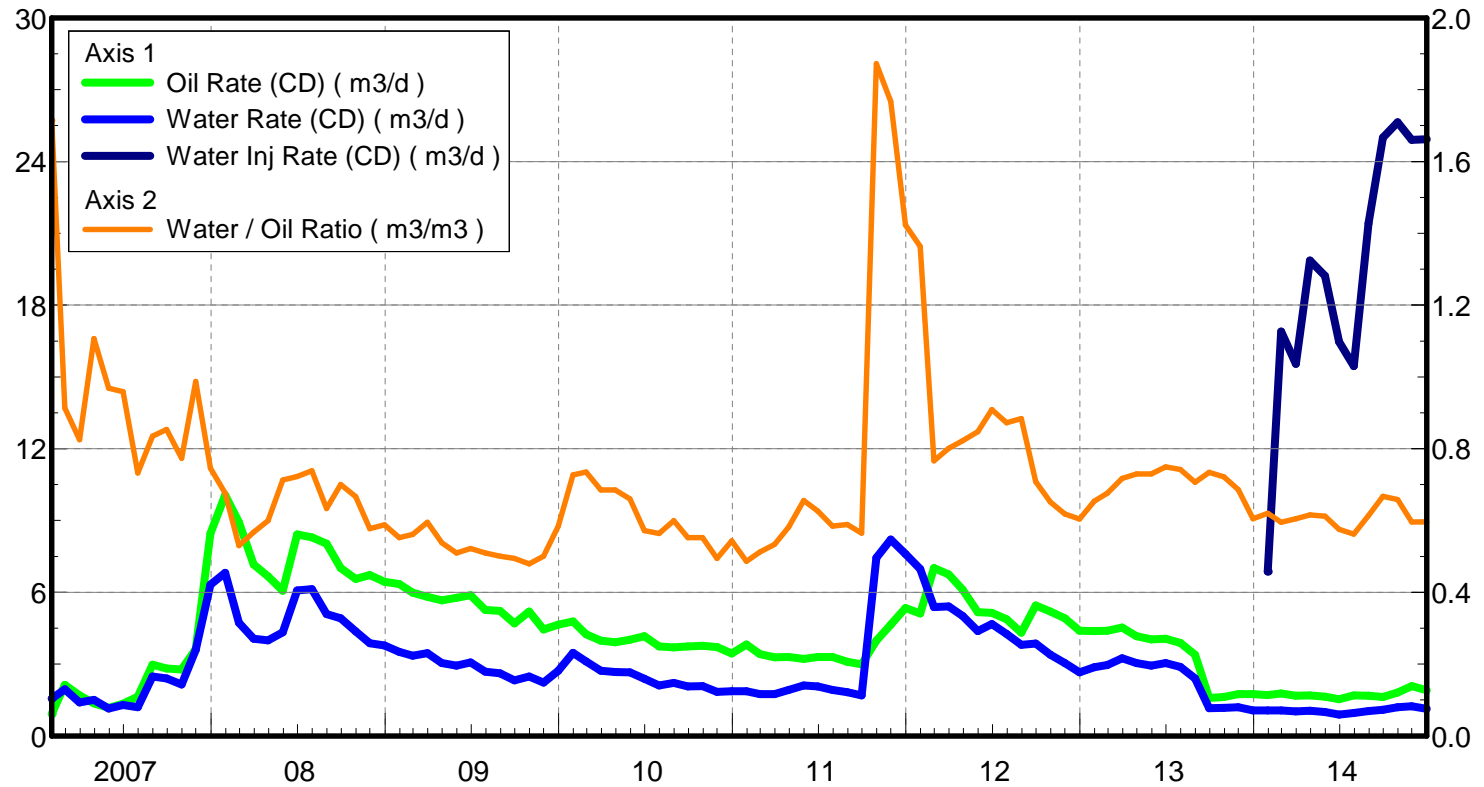
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 1.90 m3/d

Water Rate (CD) : 1.13 m3/d

Water Inj Rate (CD) : 24.94 m3/d



Pattern: 02/09-06-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

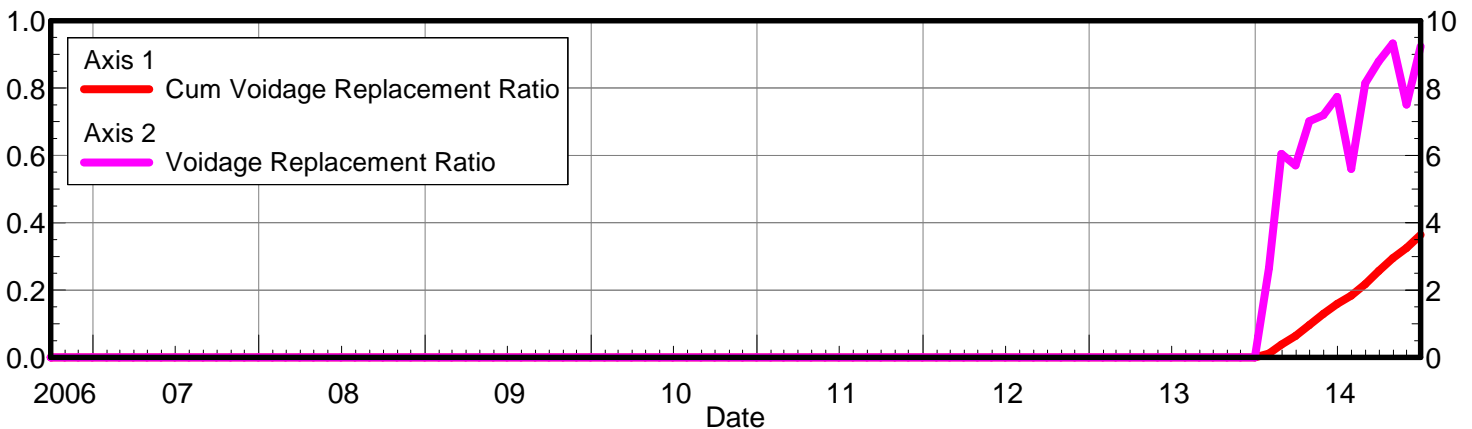
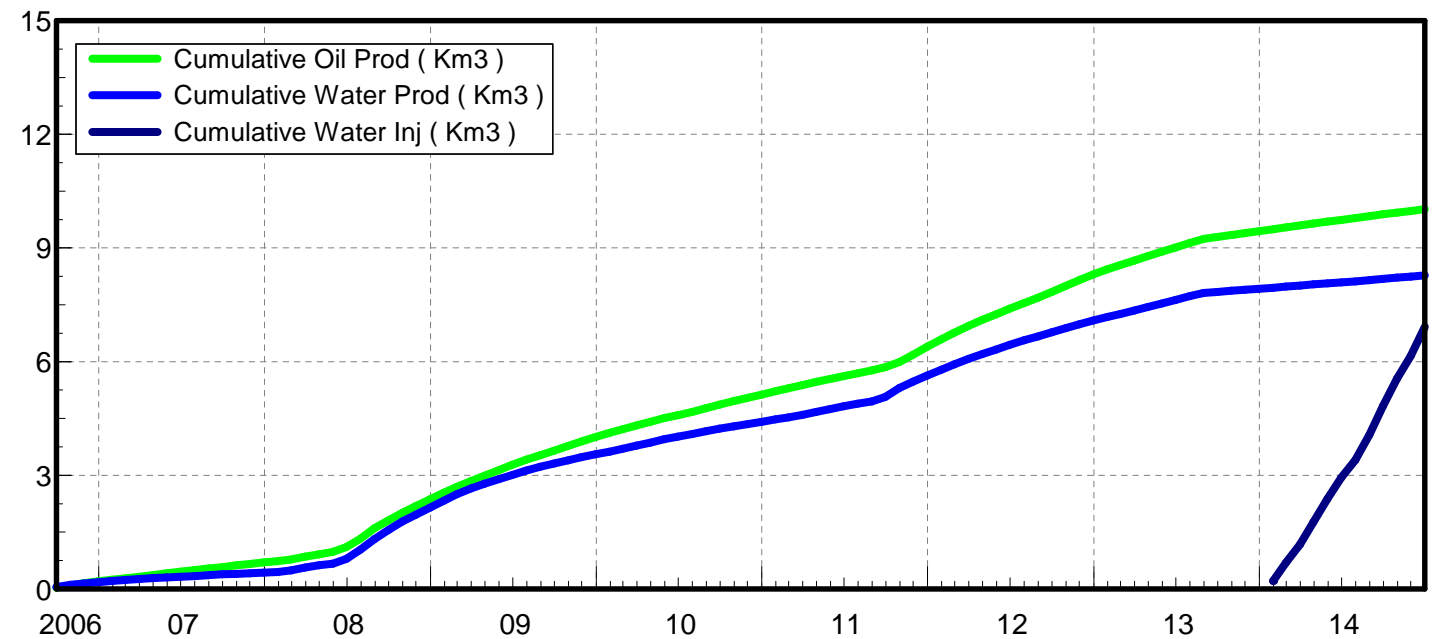
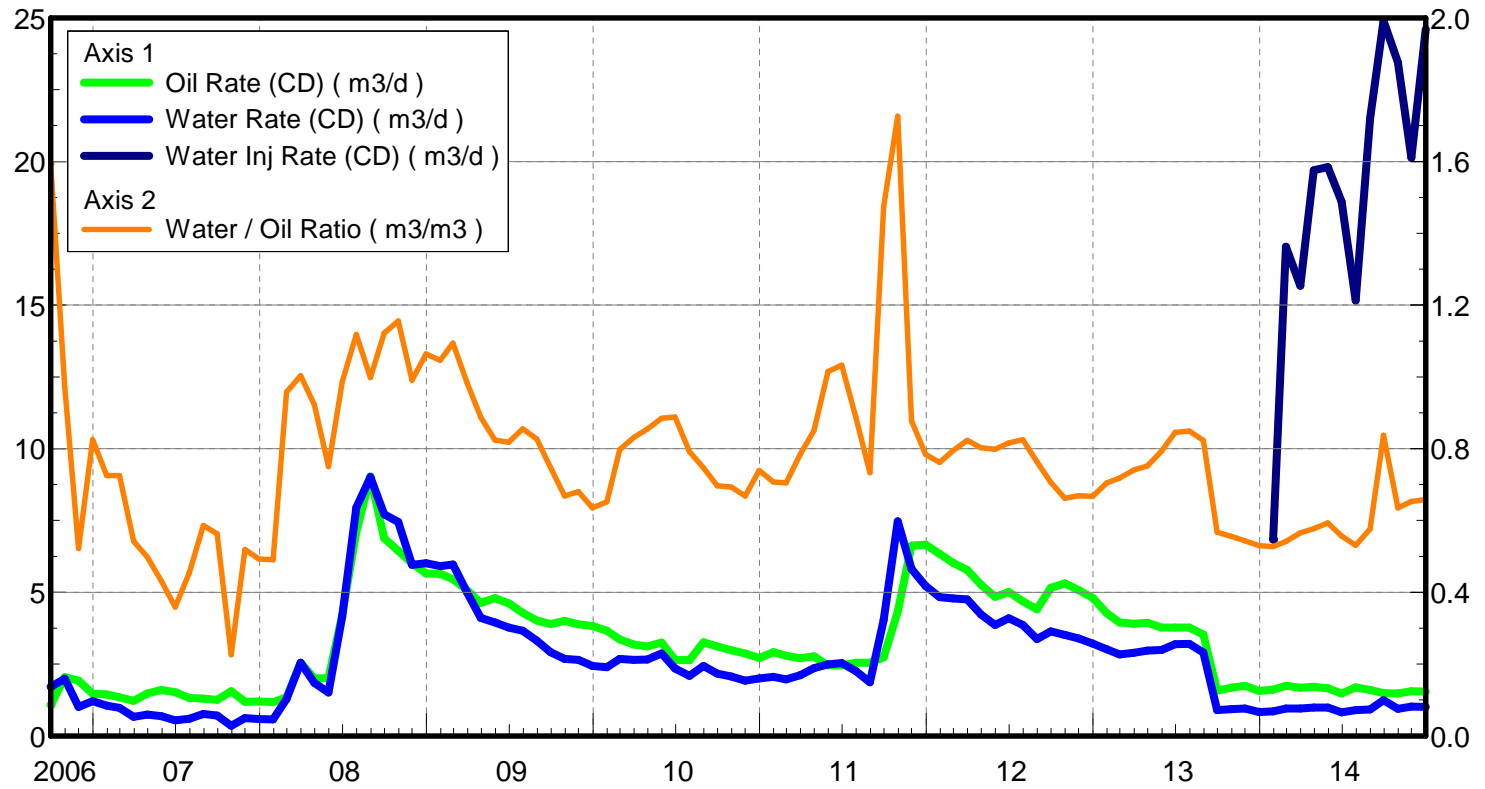
Water / Oil Ratio : 0.66 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 1.54 m3/d

Water Rate (CD) : 1.01 m3/d

Water Inj Rate (CD) : 24.61 m3/d



Pattern: 02/15-06-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

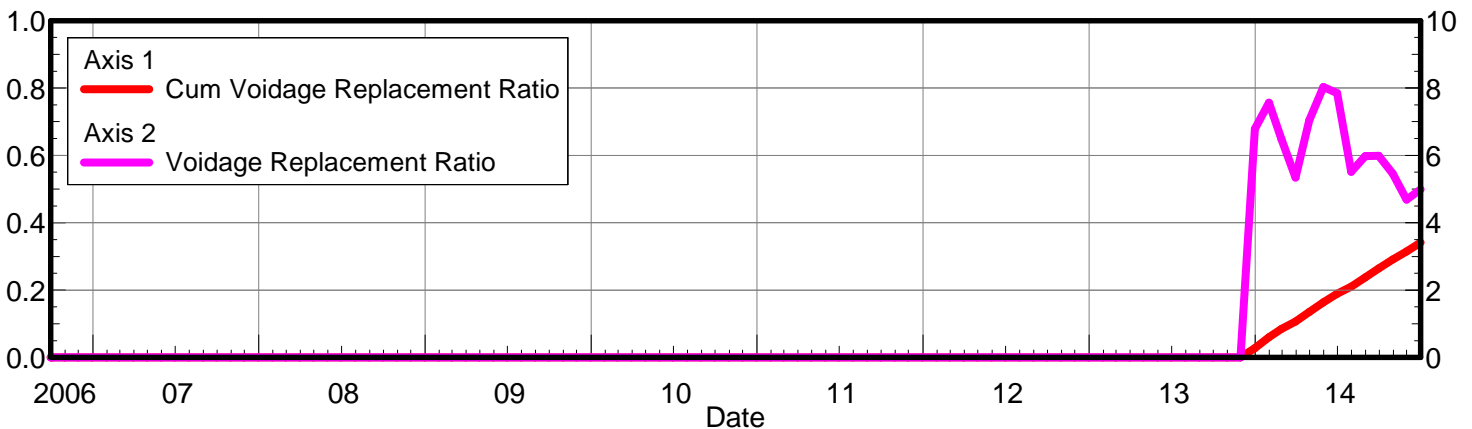
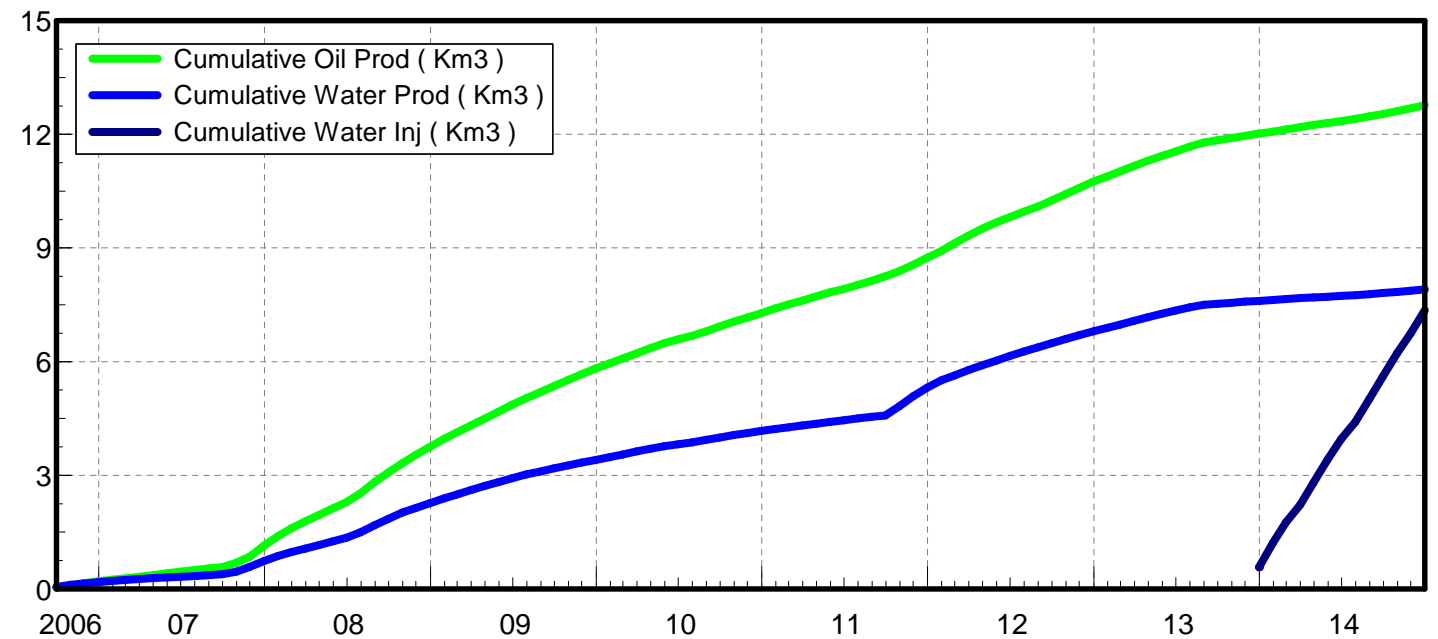
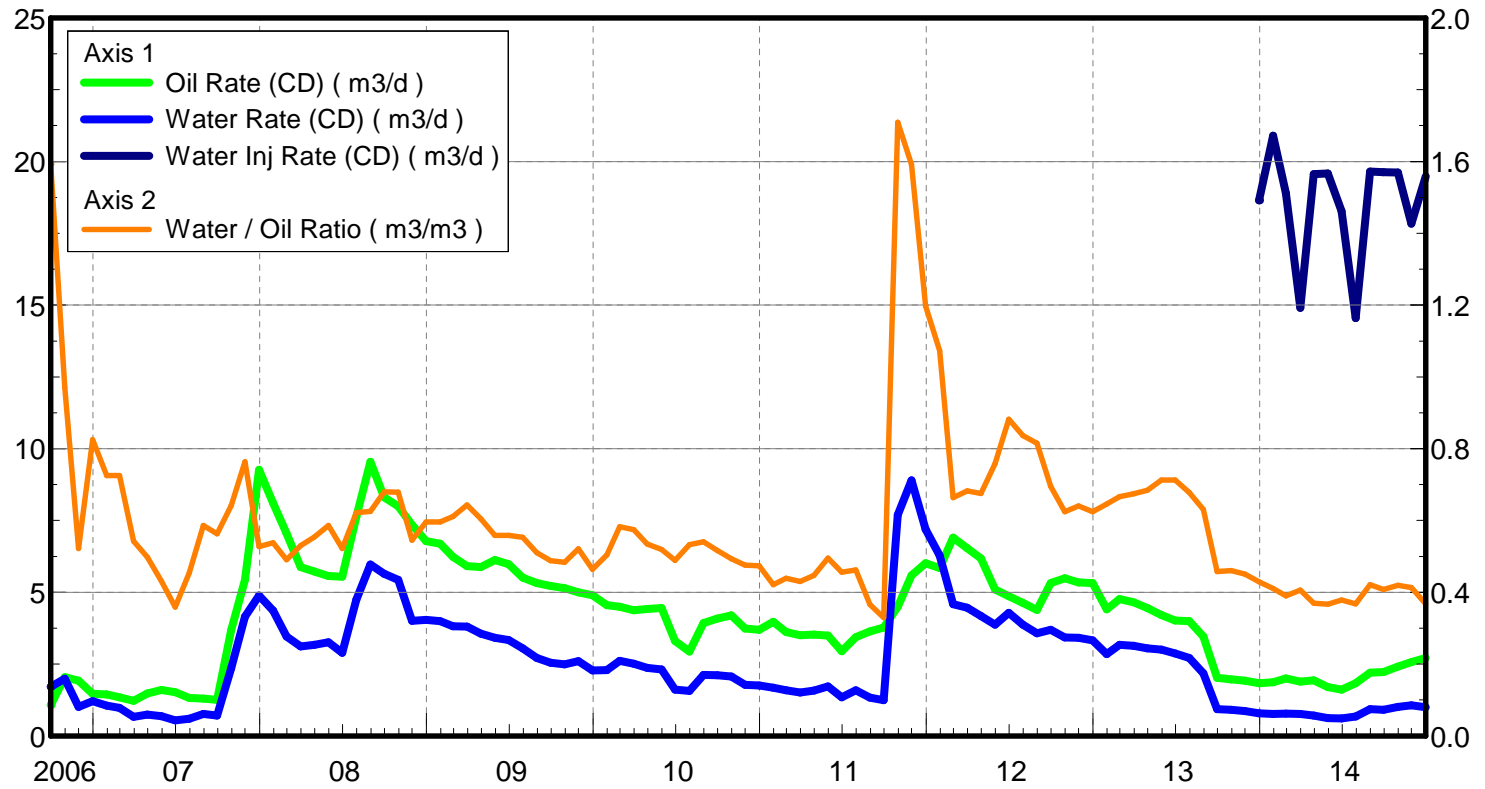
Water / Oil Ratio : 0.37 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 2.72 m3/d

Water Rate (CD) : 1.00 m3/d

Water Inj Rate (CD) : 19.48 m3/d



Pattern: 02/05-07-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

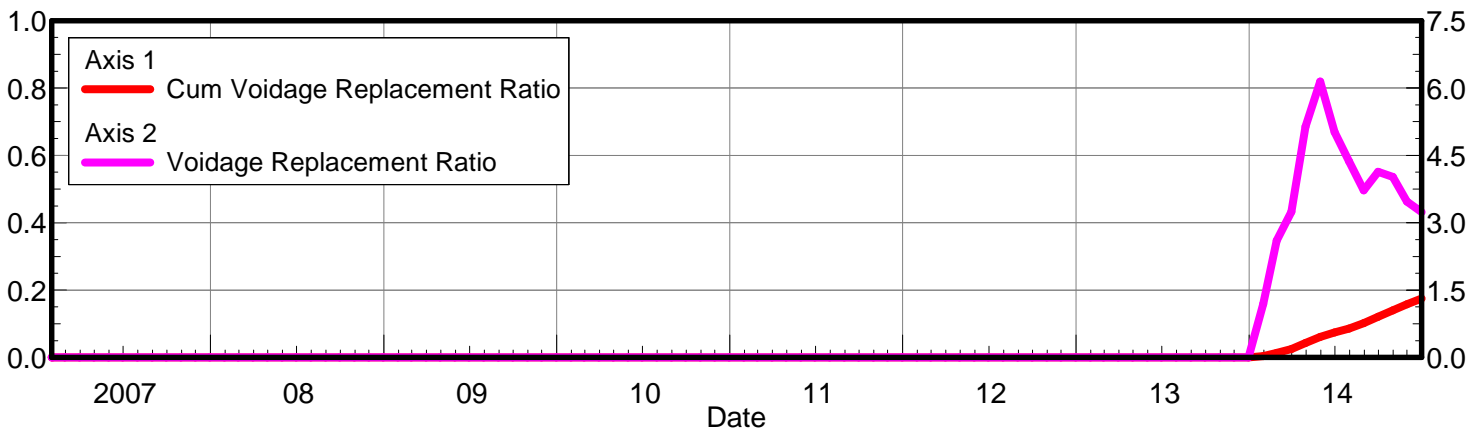
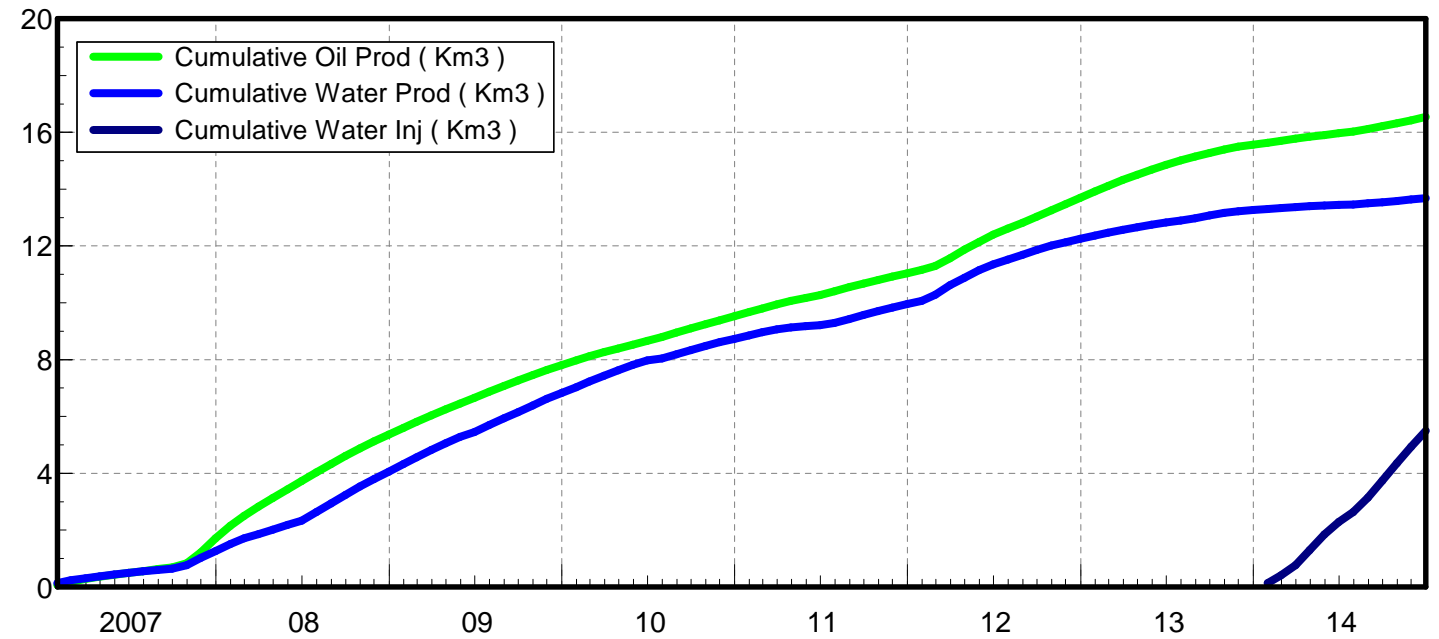
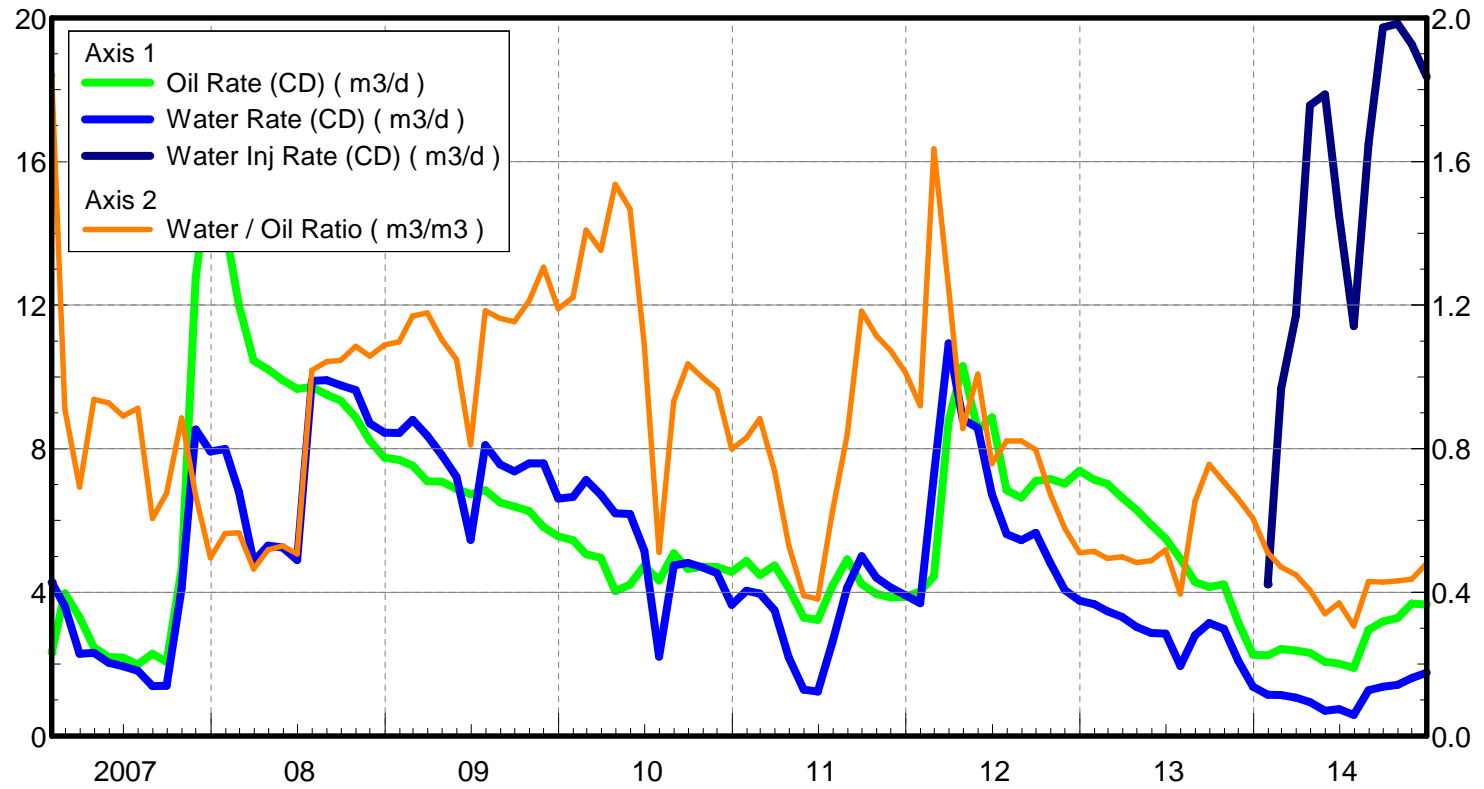
Water / Oil Ratio : 0.48 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 3.66 m3/d

Water Rate (CD) : 1.76 m3/d

Water Inj Rate (CD) : 18.35 m3/d



Pattern: 03/05-07-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

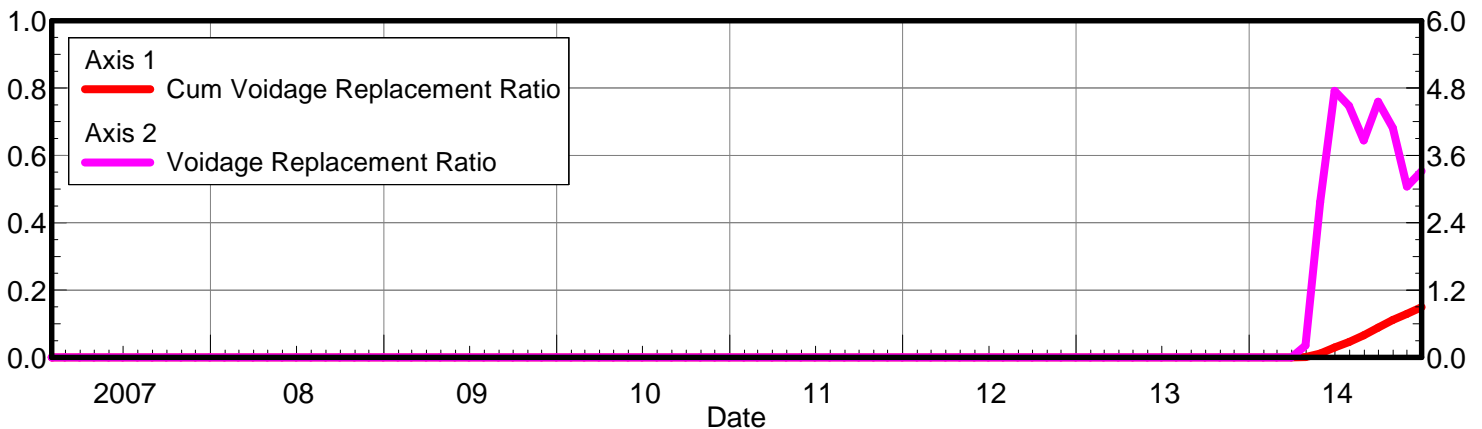
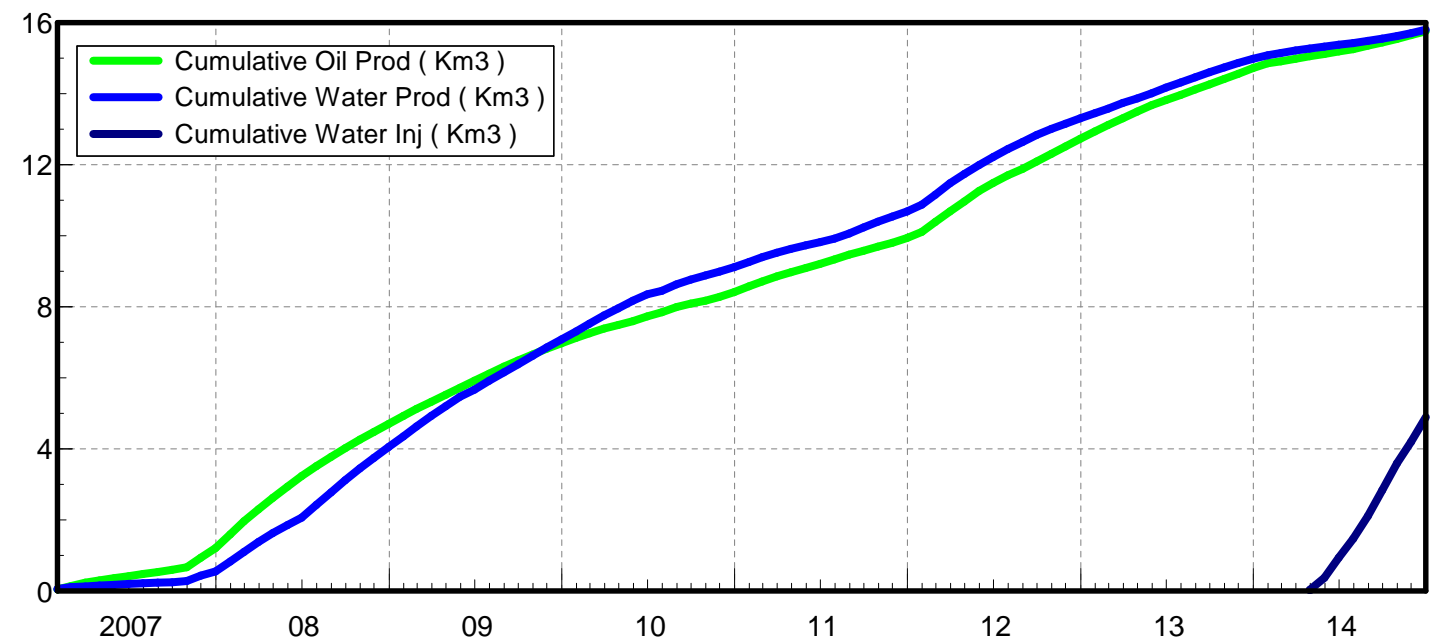
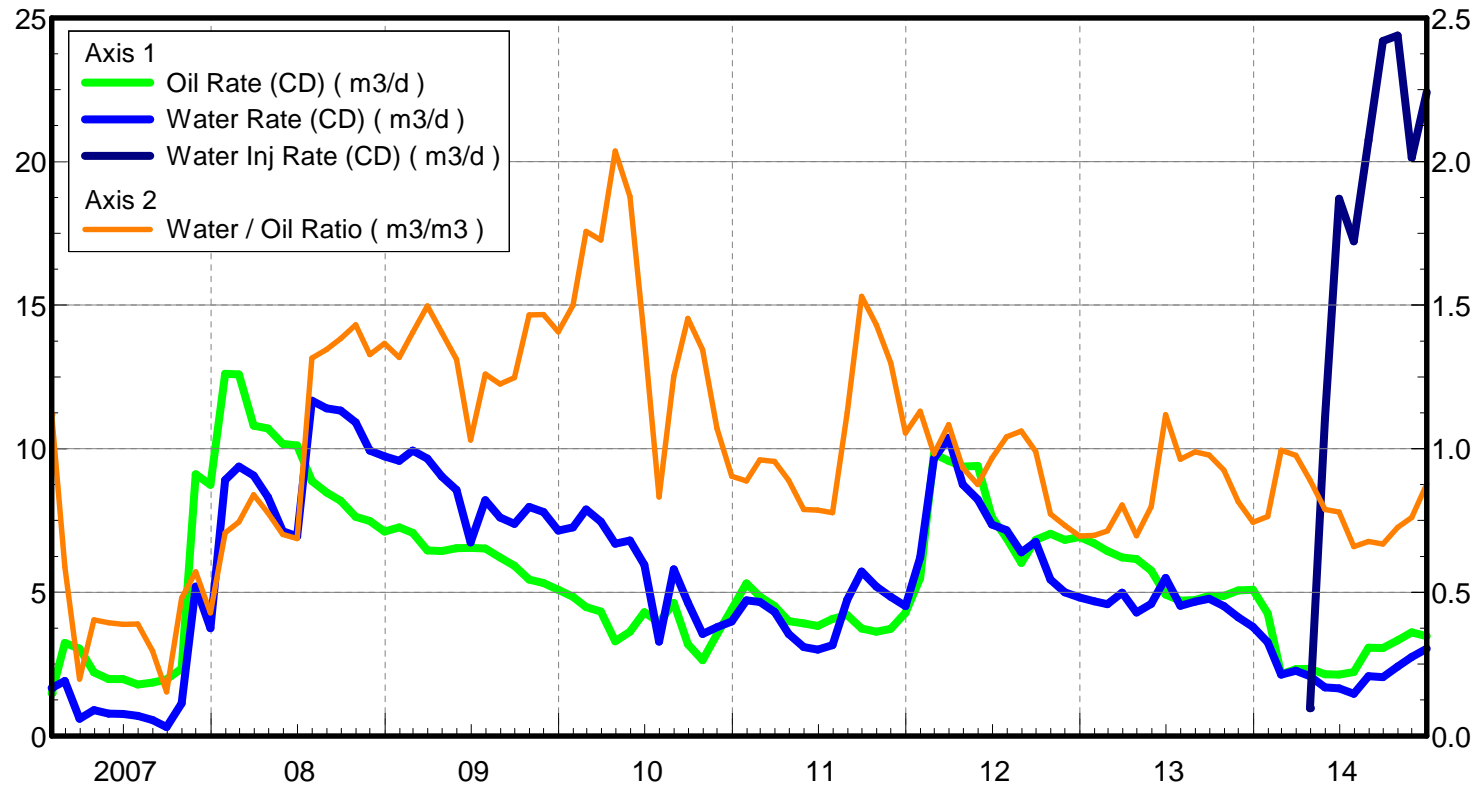
Water / Oil Ratio : 0.88 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 3.47 m3/d

Water Rate (CD) : 3.04 m3/d

Water Inj Rate (CD) : 22.42 m3/d



Pattern: 02/12-07-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

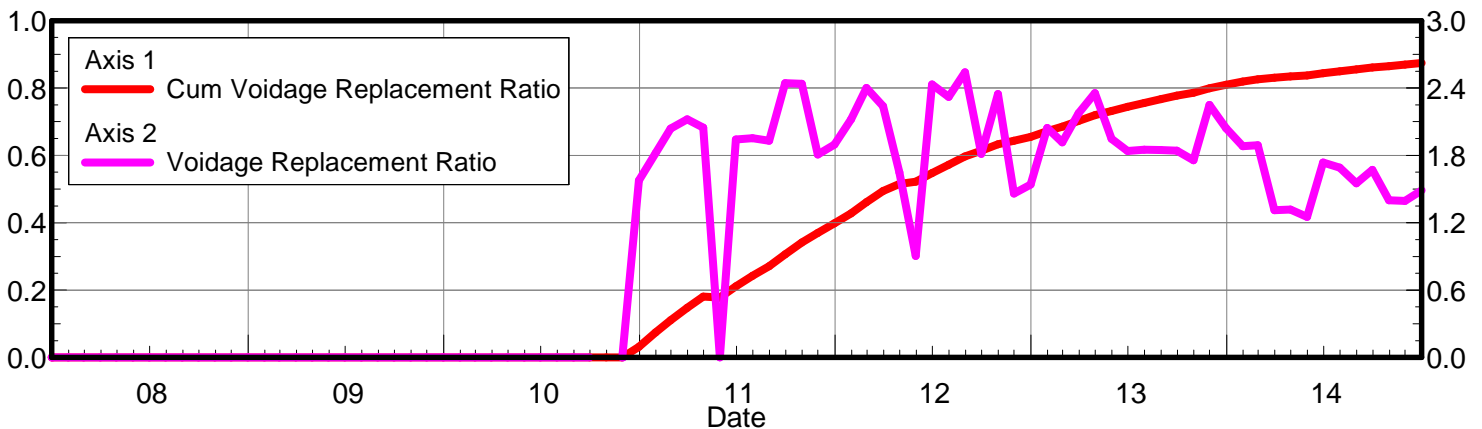
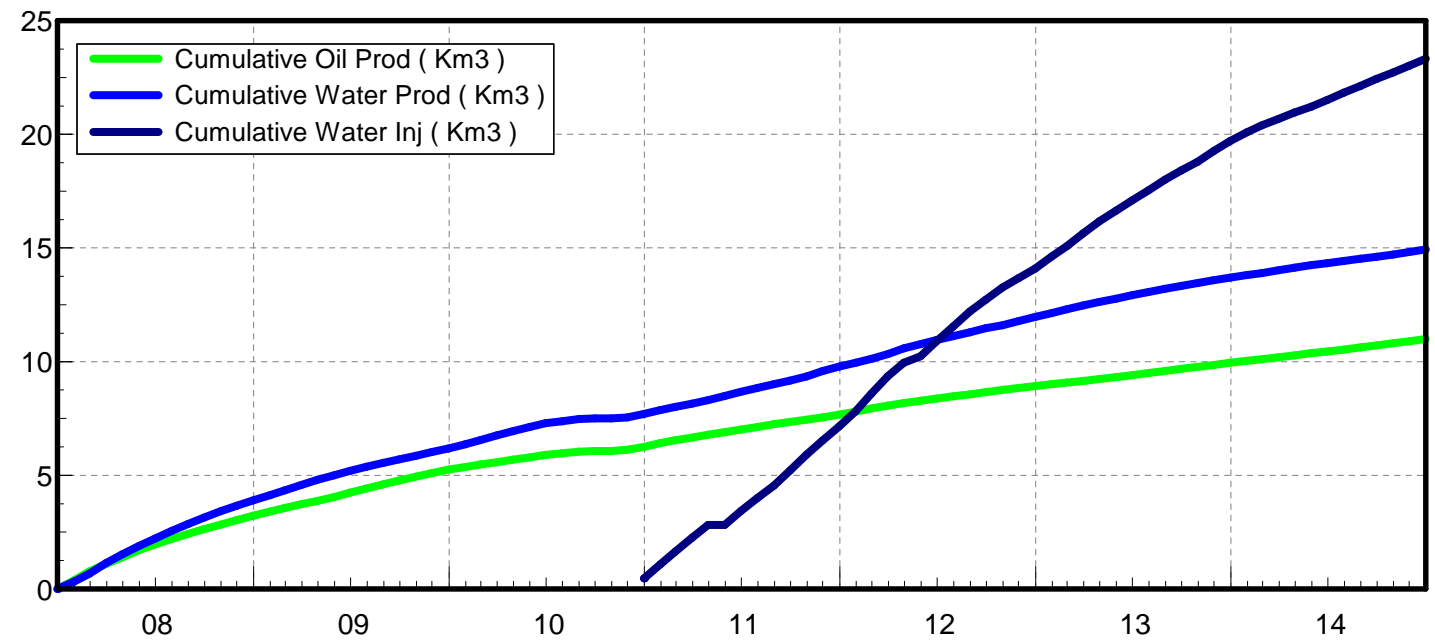
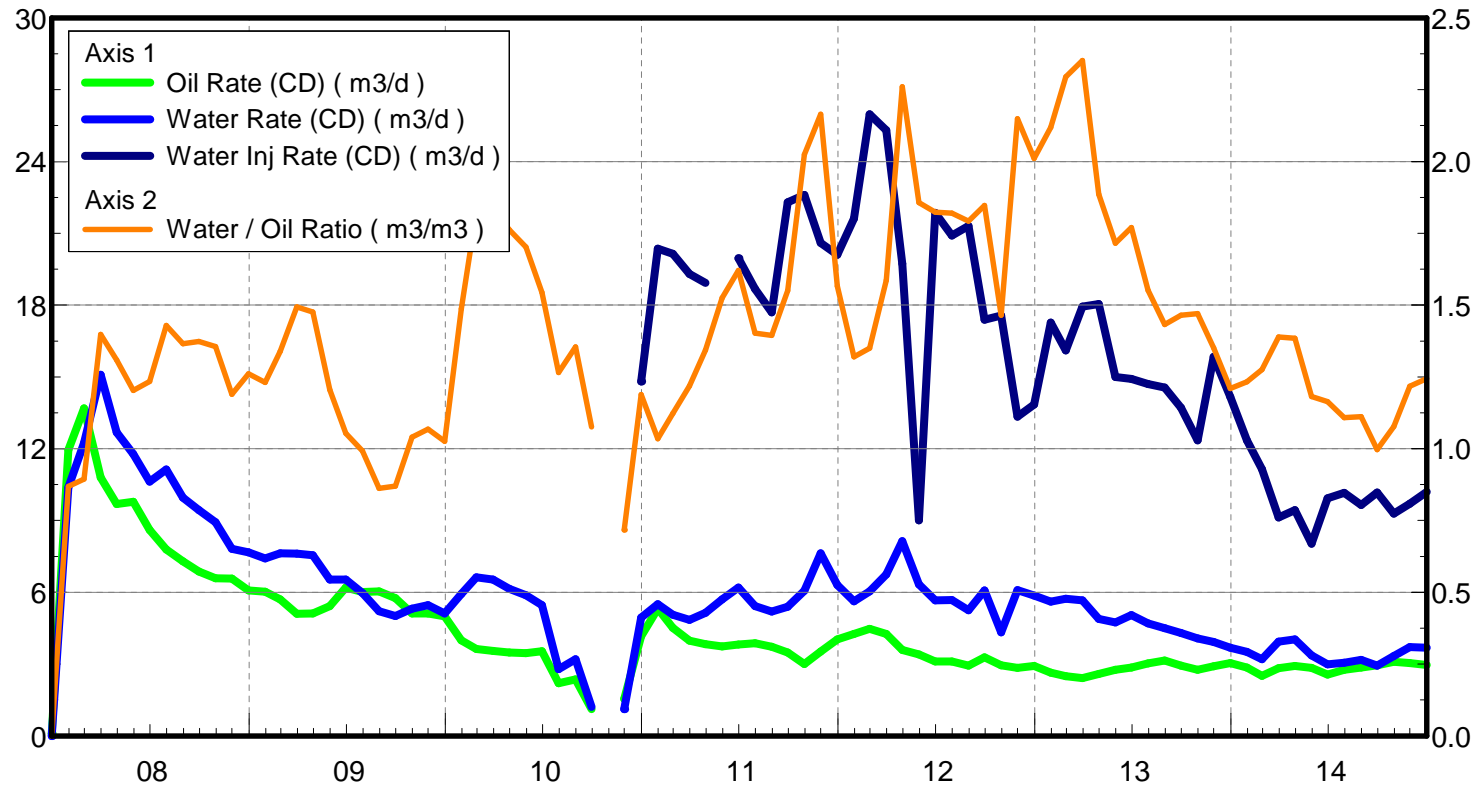
Water / Oil Ratio : 1.24 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 2.96 m3/d

Water Rate (CD) : 3.68 m3/d

Water Inj Rate (CD) : 10.19 m3/d



Pattern: 02/13-07-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 1.03 m3/m3

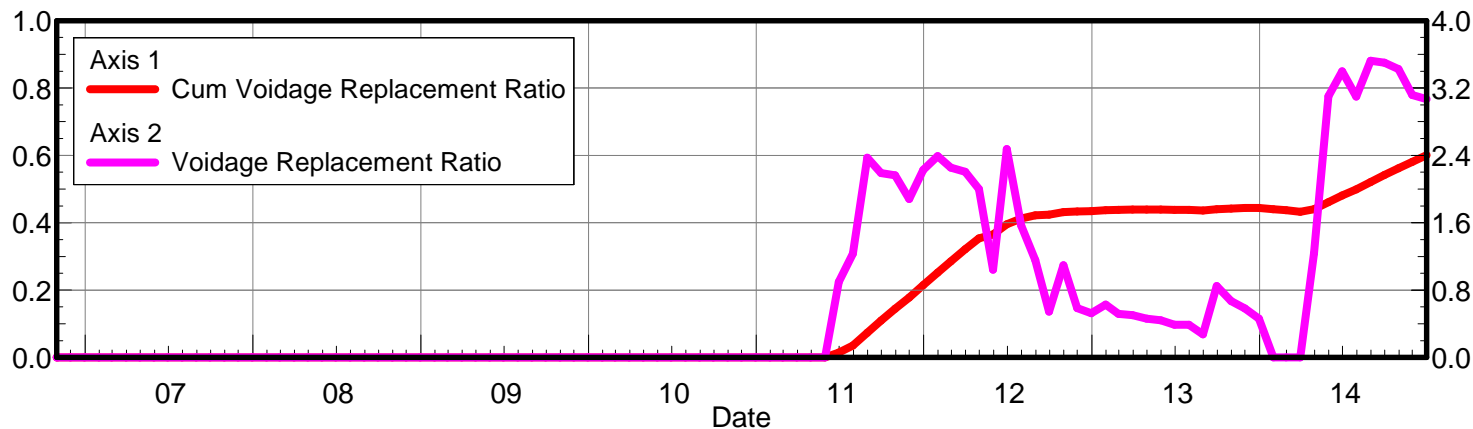
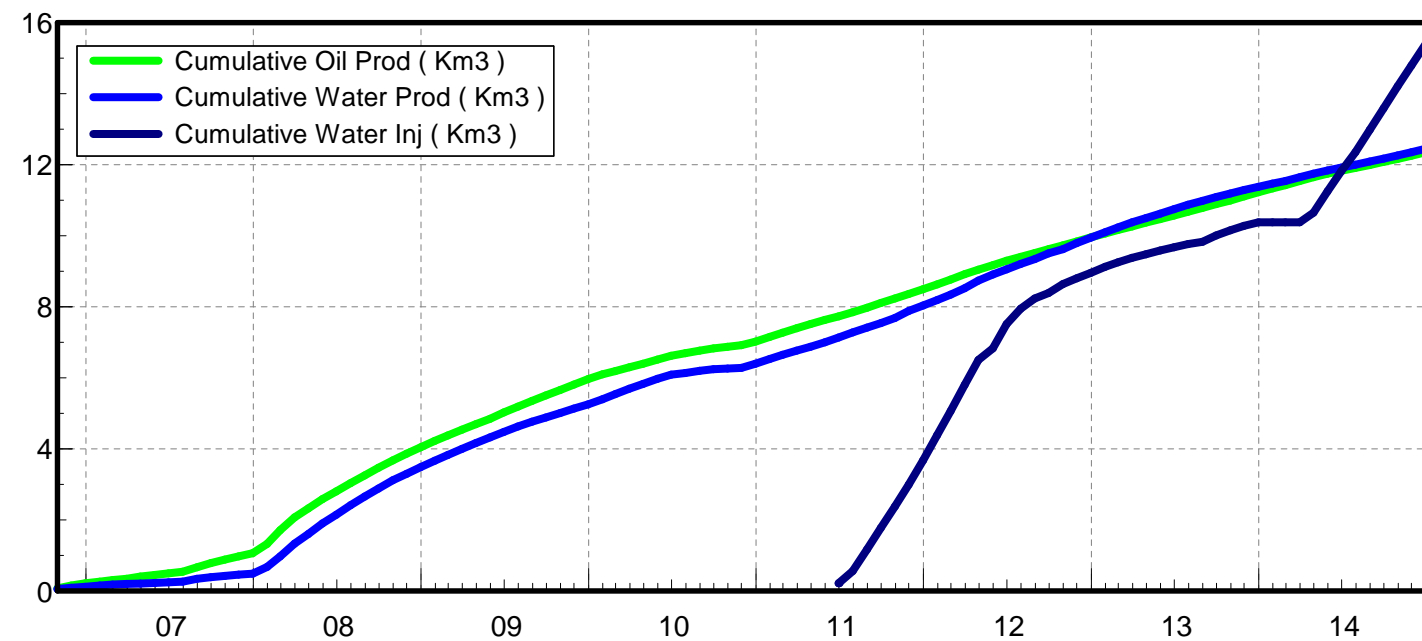
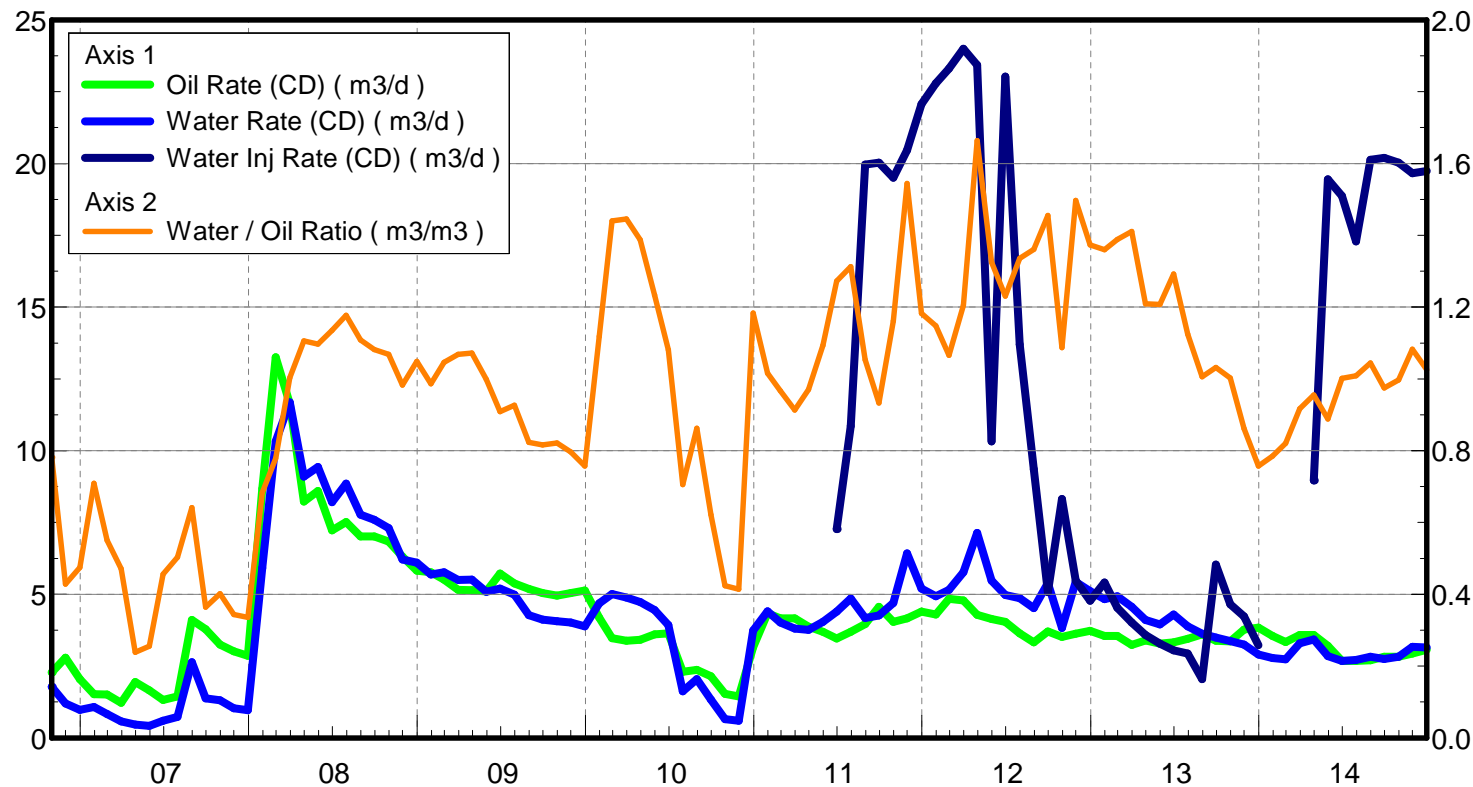
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 3.07 m3/d

Water Rate (CD) : 3.15 m3/d

Water Inj Rate (CD) : 19.74 m3/d



Pattern: 02/08-08-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

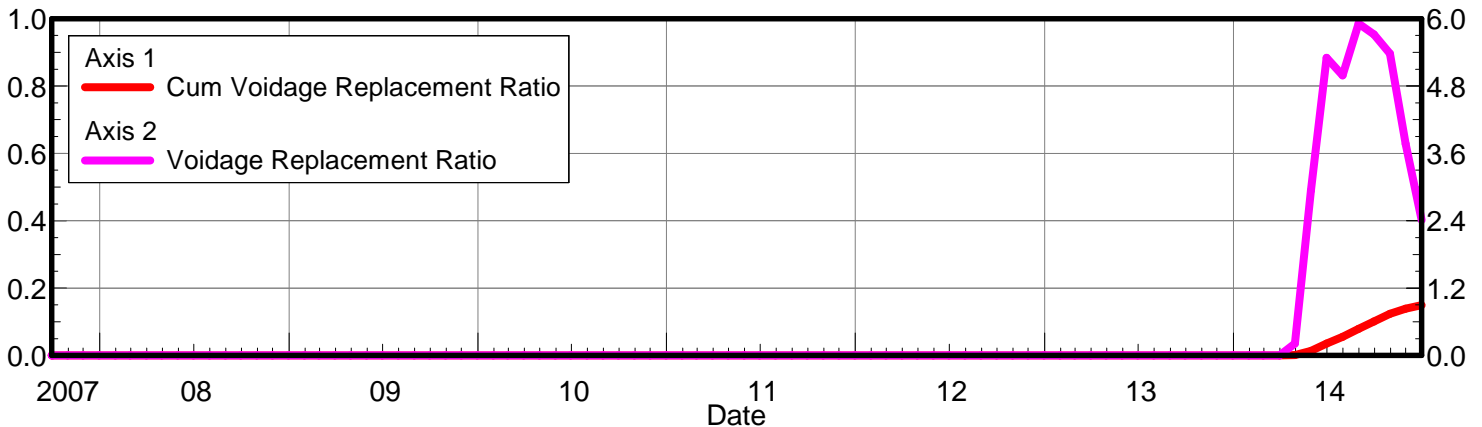
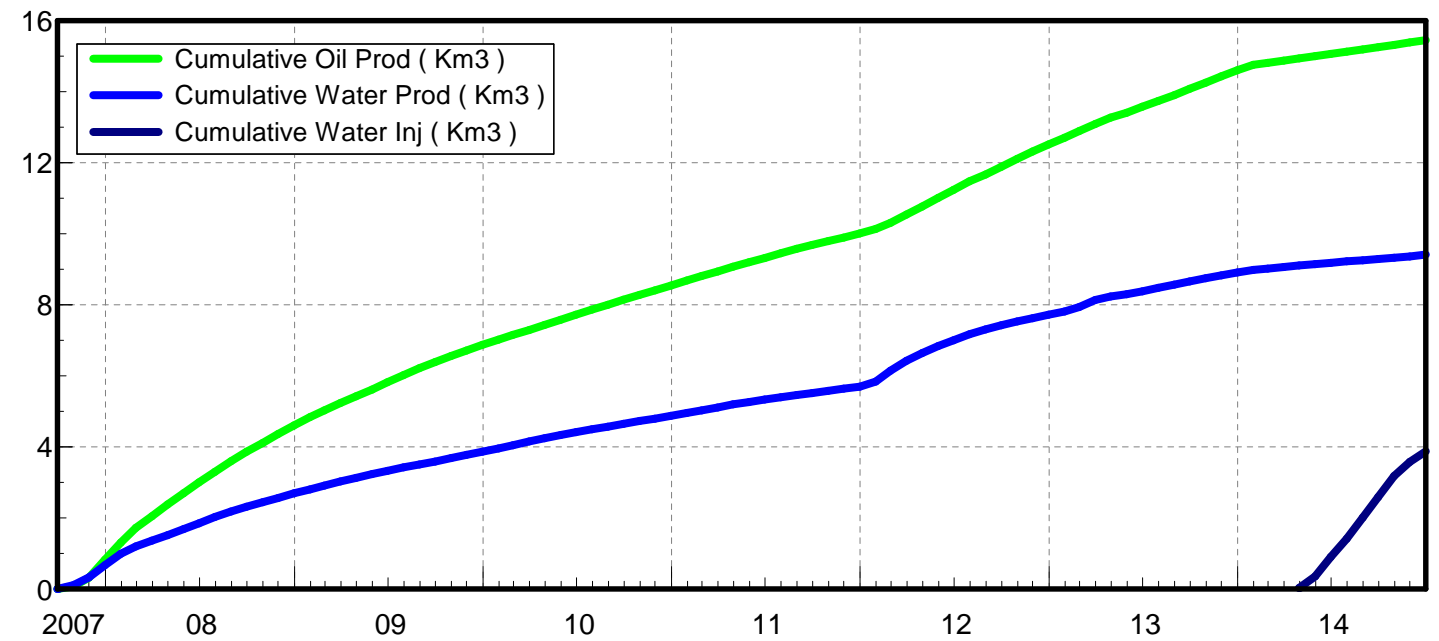
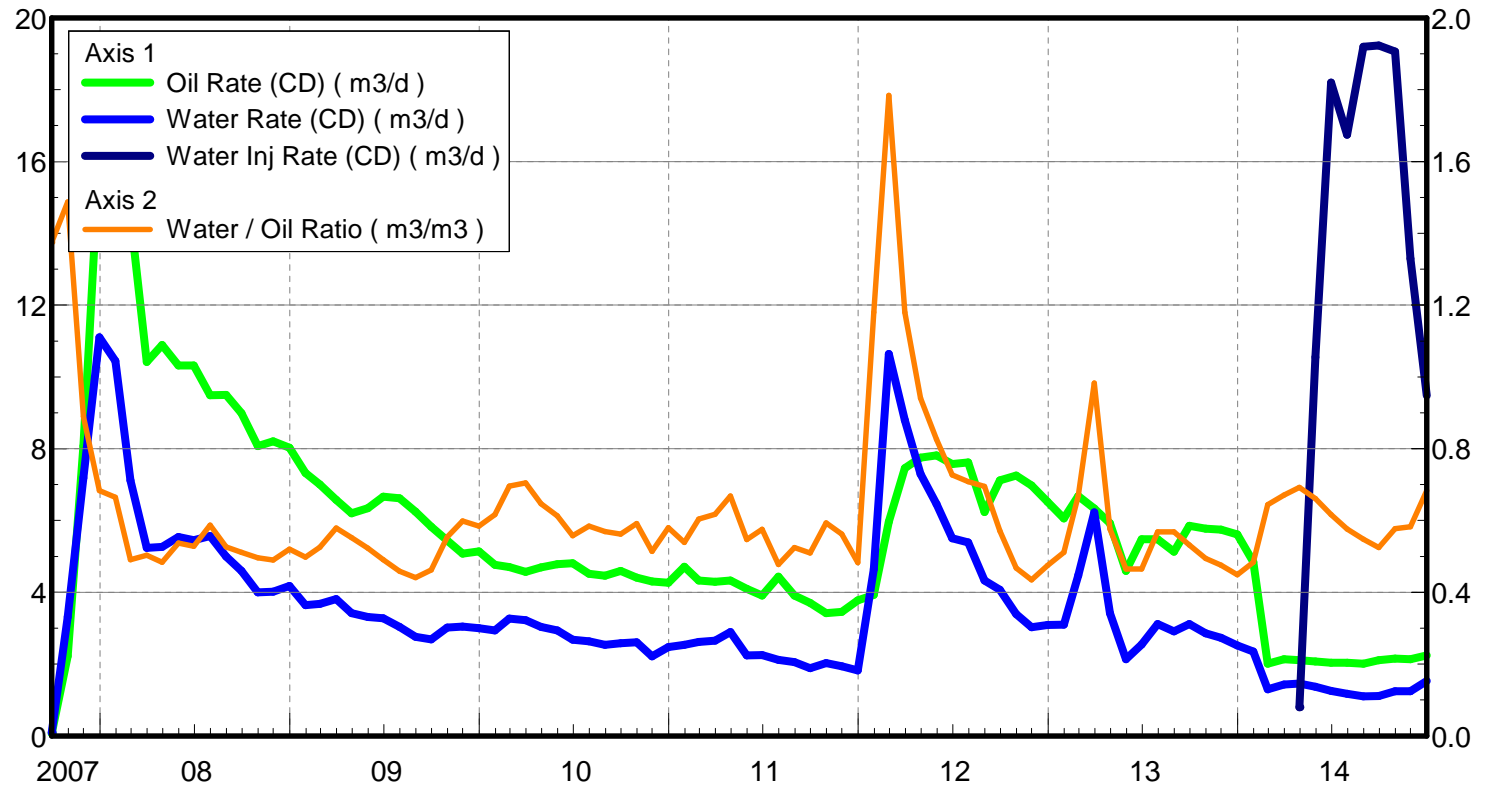
Water / Oil Ratio : 0.68 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 2.25 m3/d

Water Rate (CD) : 1.53 m3/d

Water Inj Rate (CD) : 9.48 m3/d



Pattern: 03/08-08-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.40 m3/m3

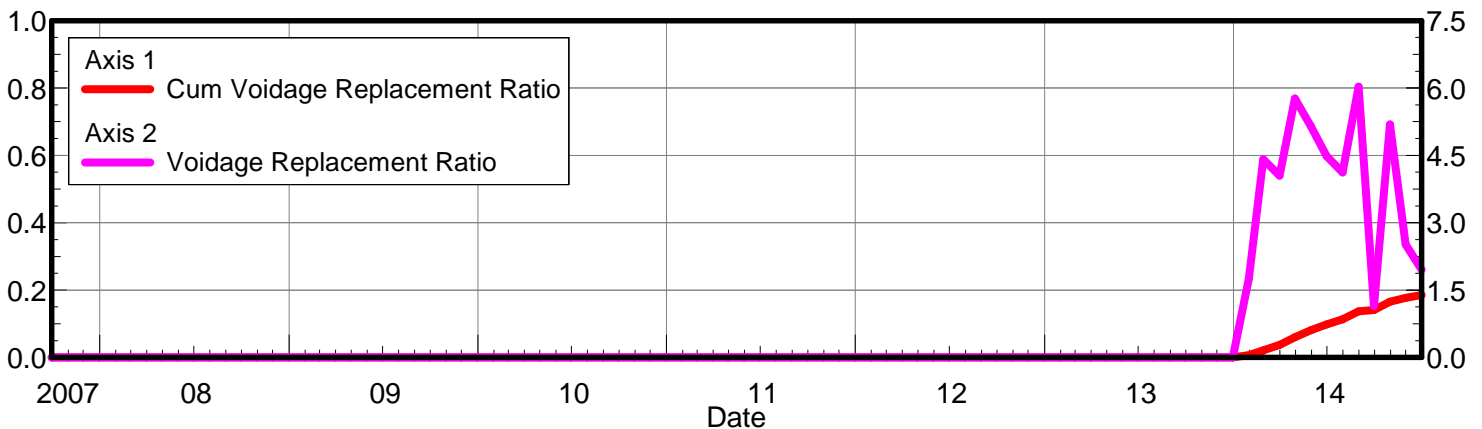
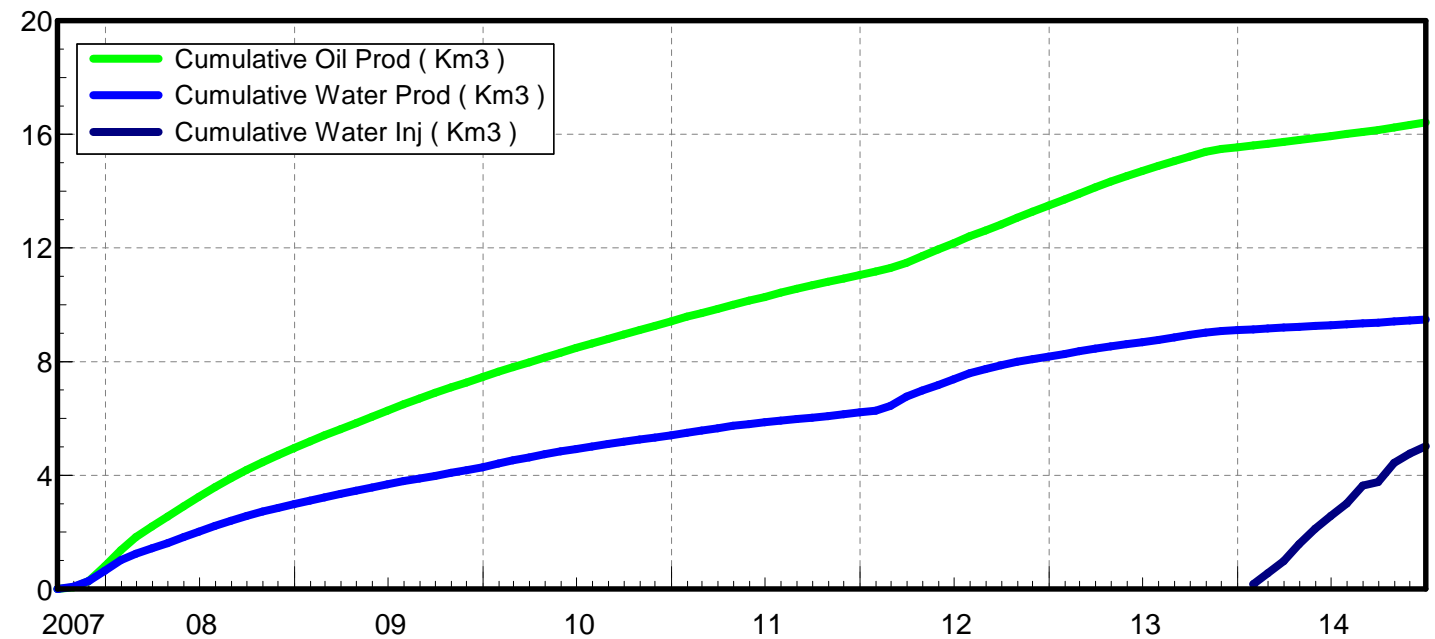
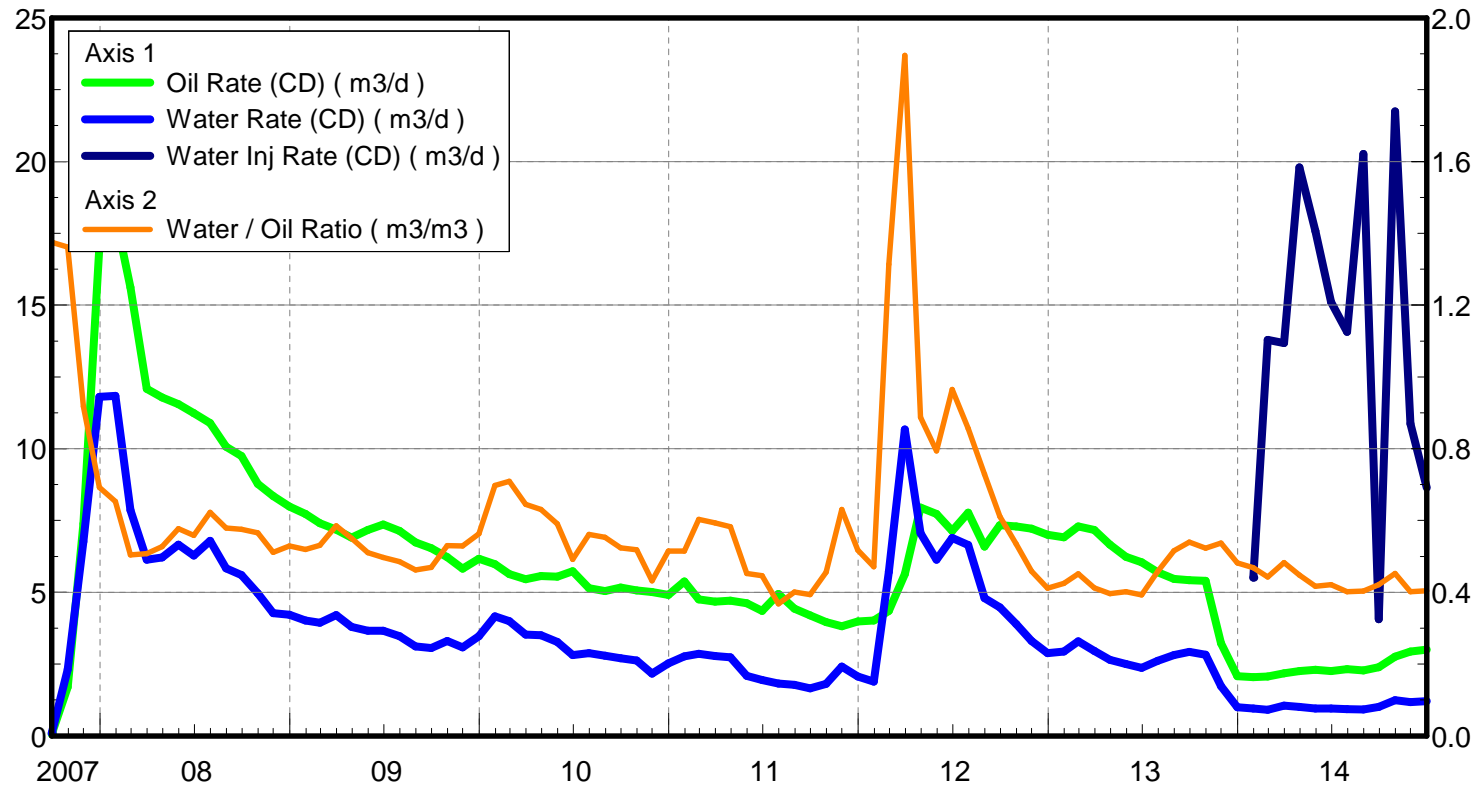
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 3.01 m3/d

Water Rate (CD) : 1.21 m3/d

Water Inj Rate (CD) : 8.65 m3/d



Pattern: 02/09-08-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

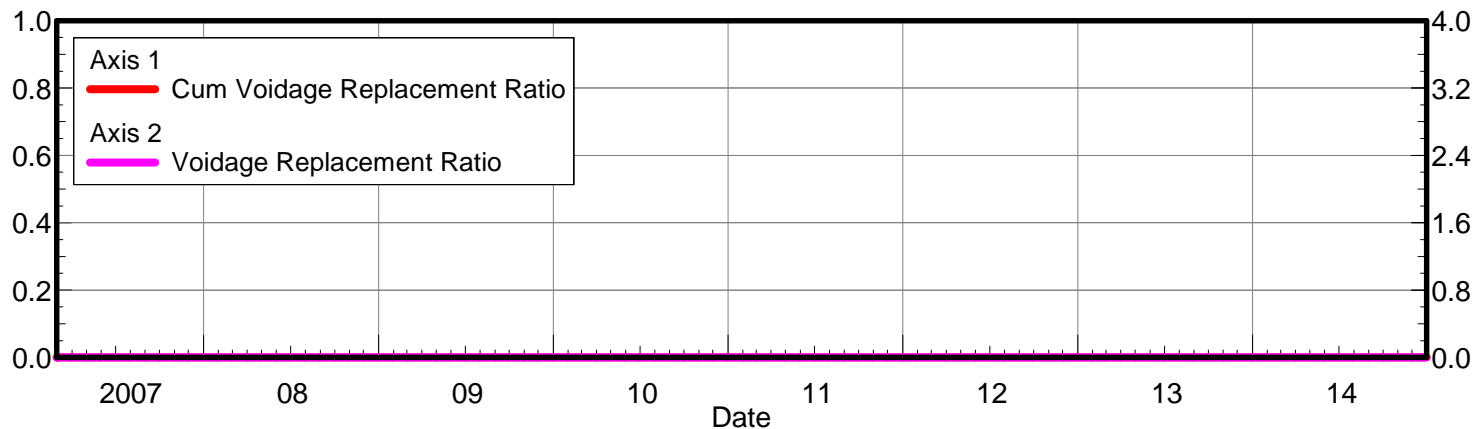
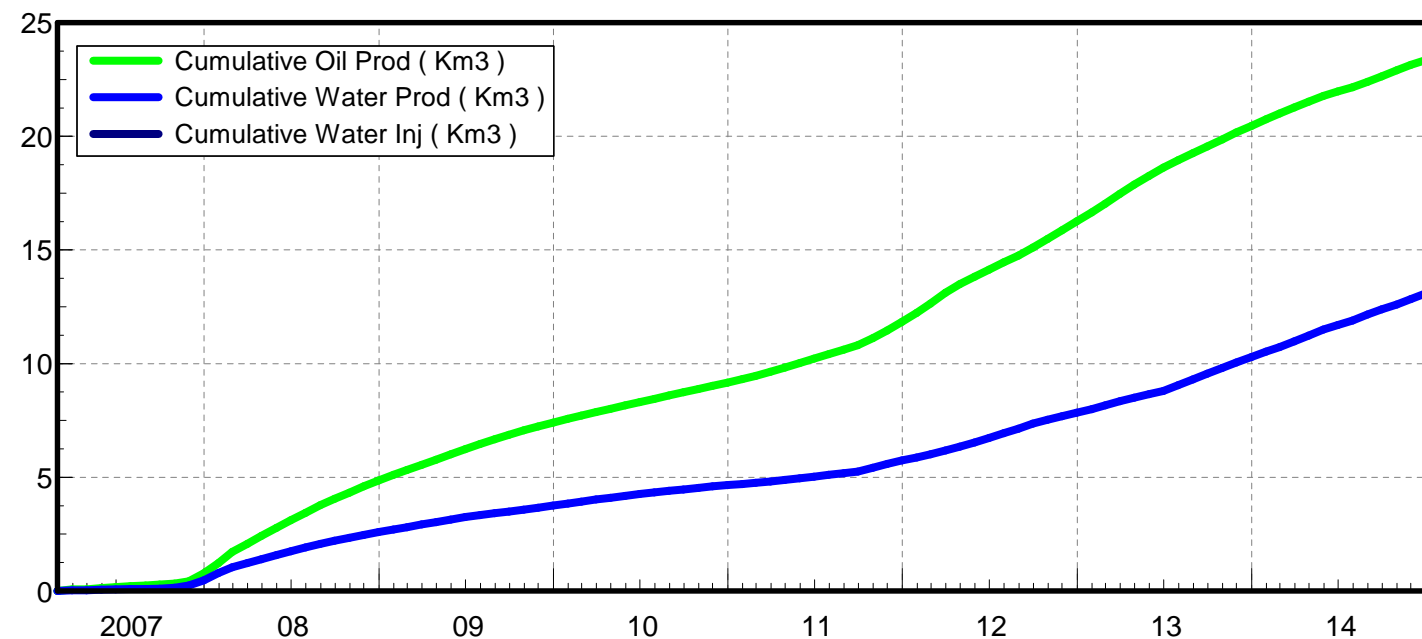
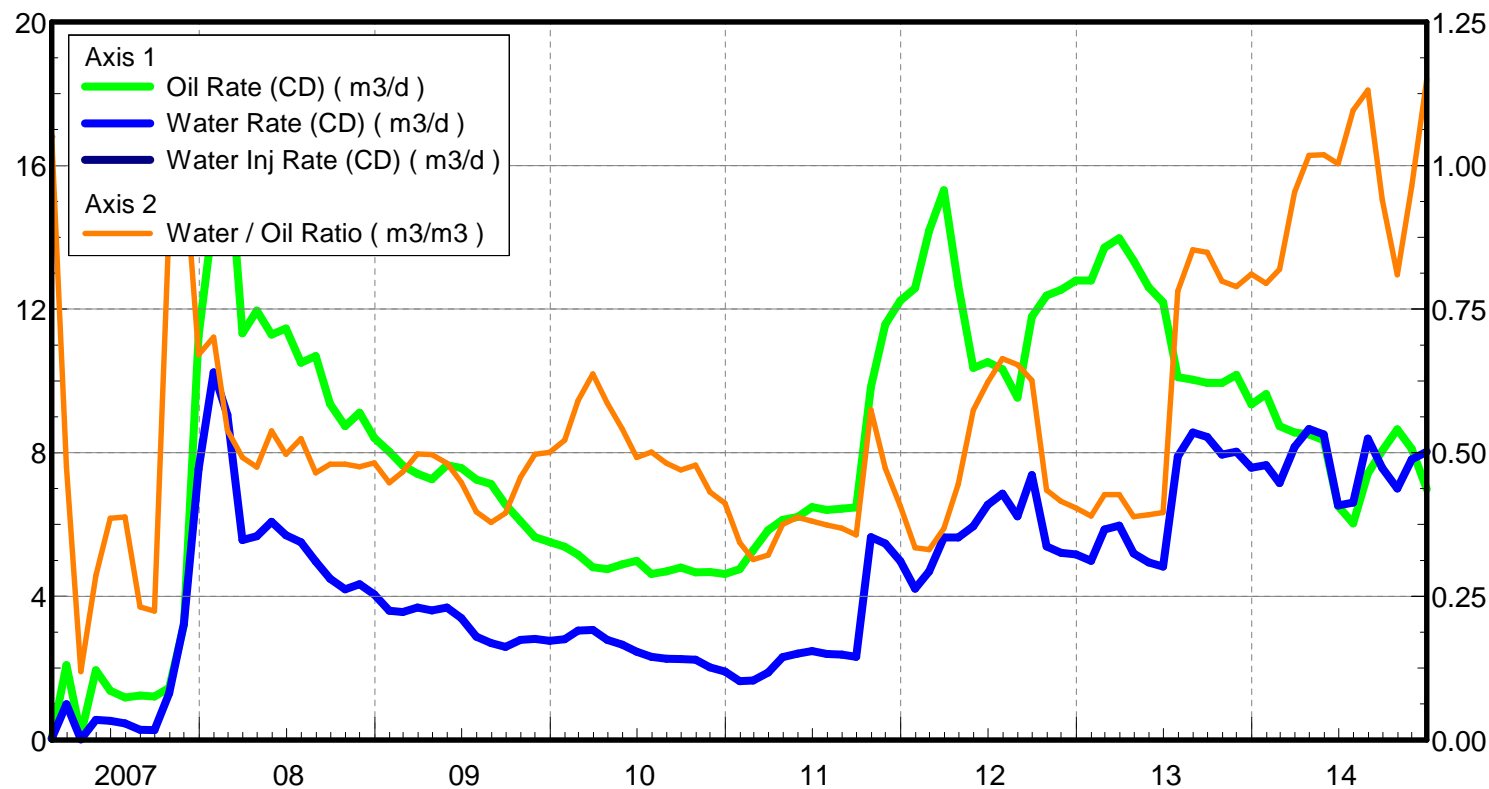
Water / Oil Ratio : 1.15 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 6.99 m3/d

Water Rate (CD) : 8.03 m3/d

Water Inj Rate (CD) : * m3/d



Pattern: 02/01-17-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.84 m3/m3

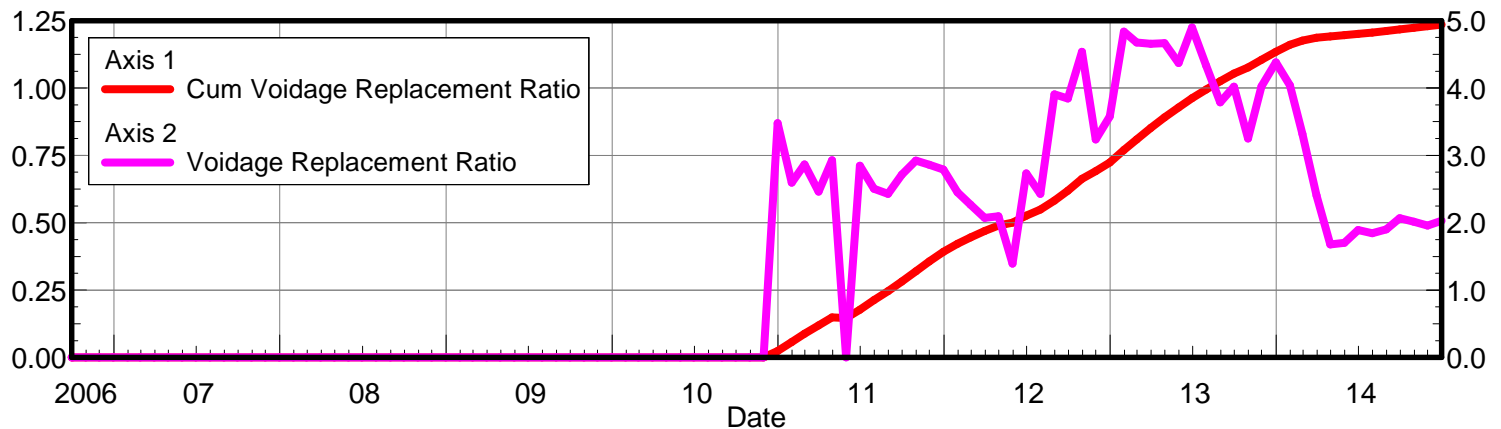
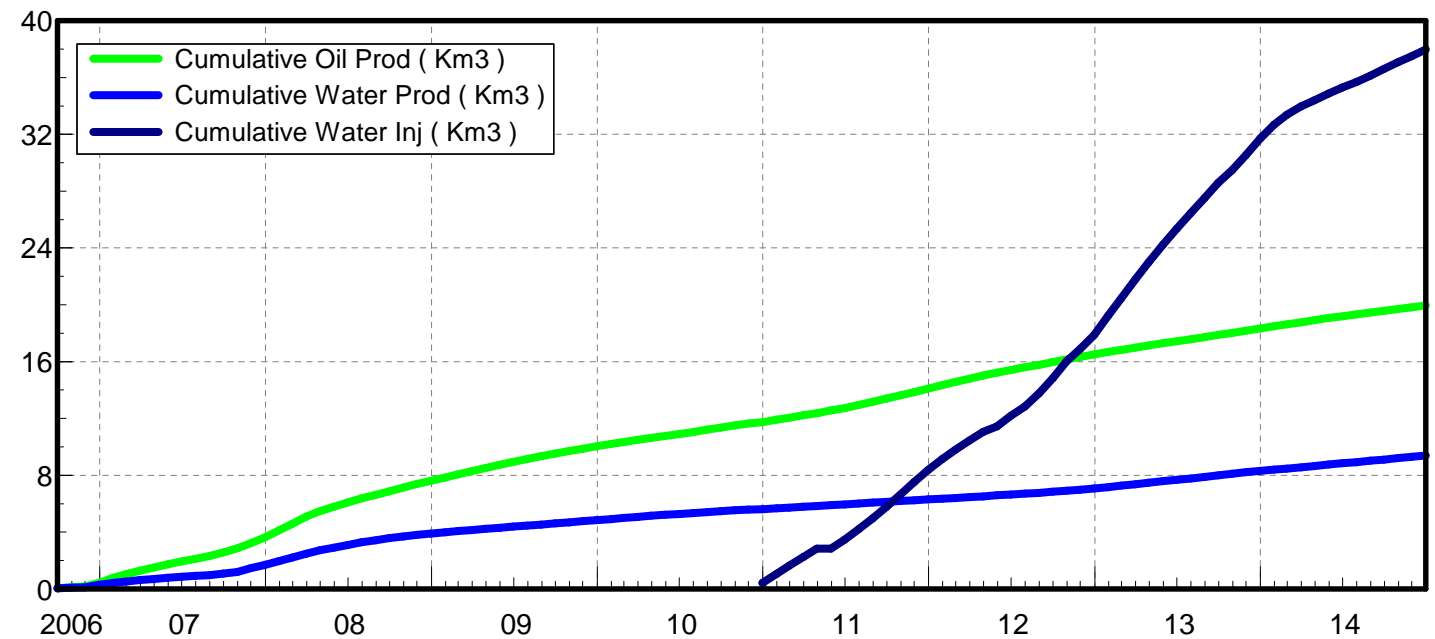
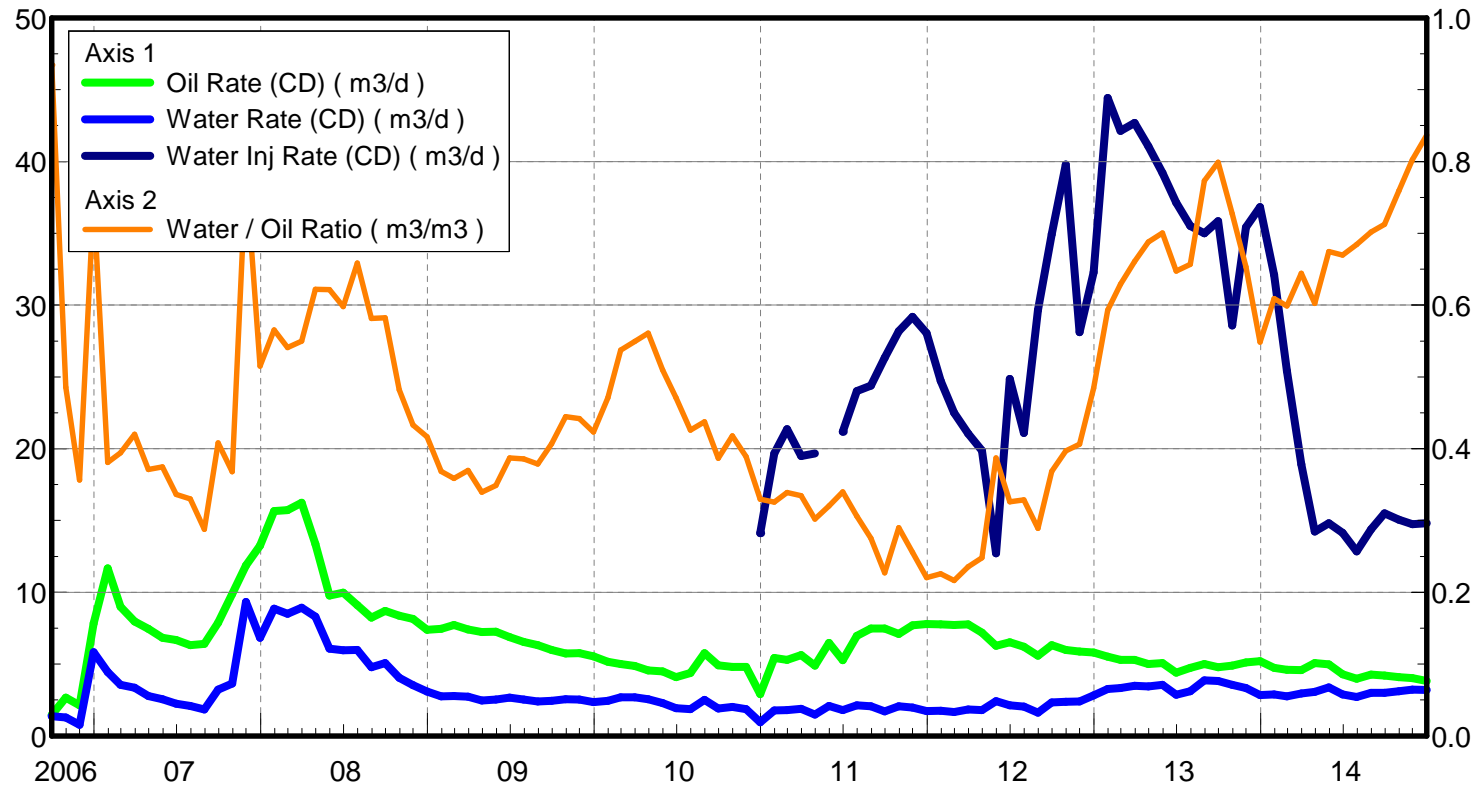
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 3.83 m3/d

Water Rate (CD) : 3.21 m3/d

Water Inj Rate (CD) : 14.81 m3/d



Pattern: 03/01-17-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.80 m3/m3

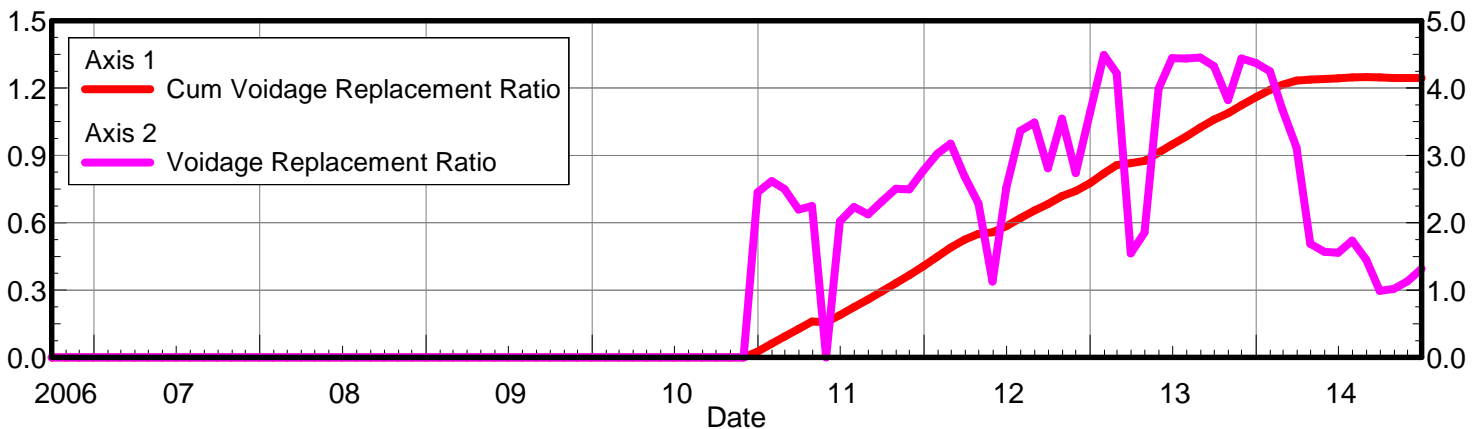
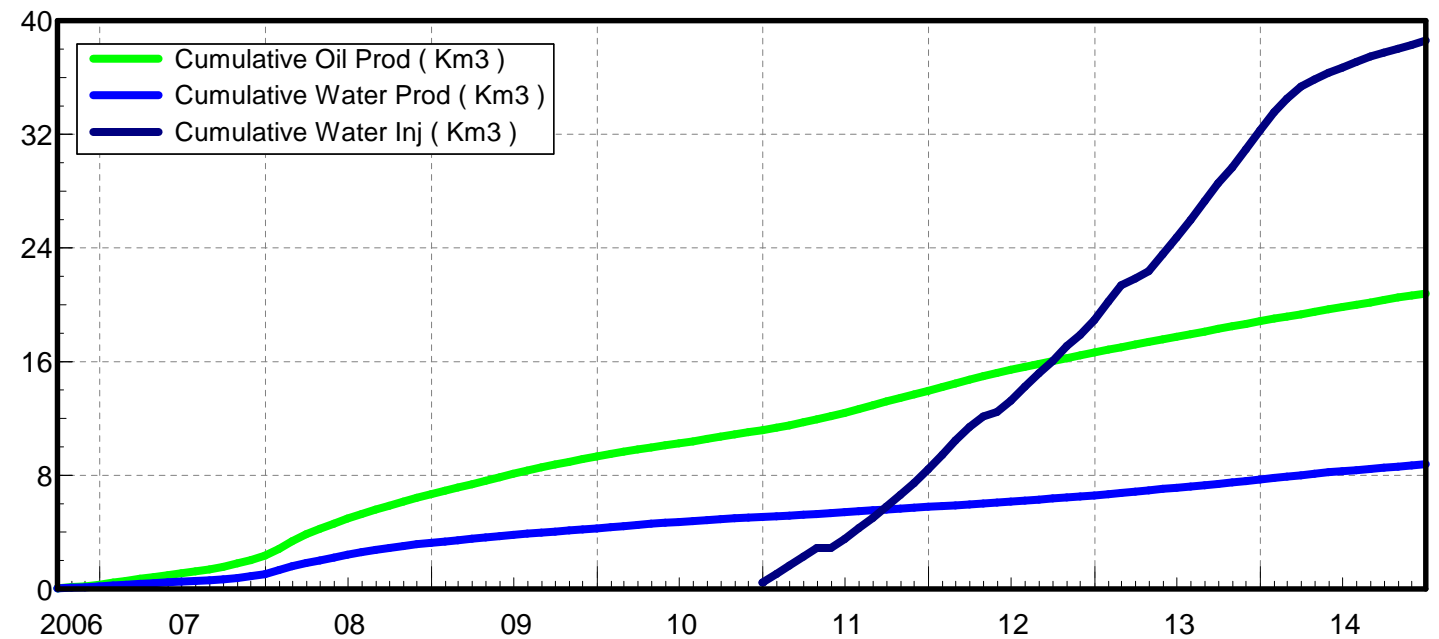
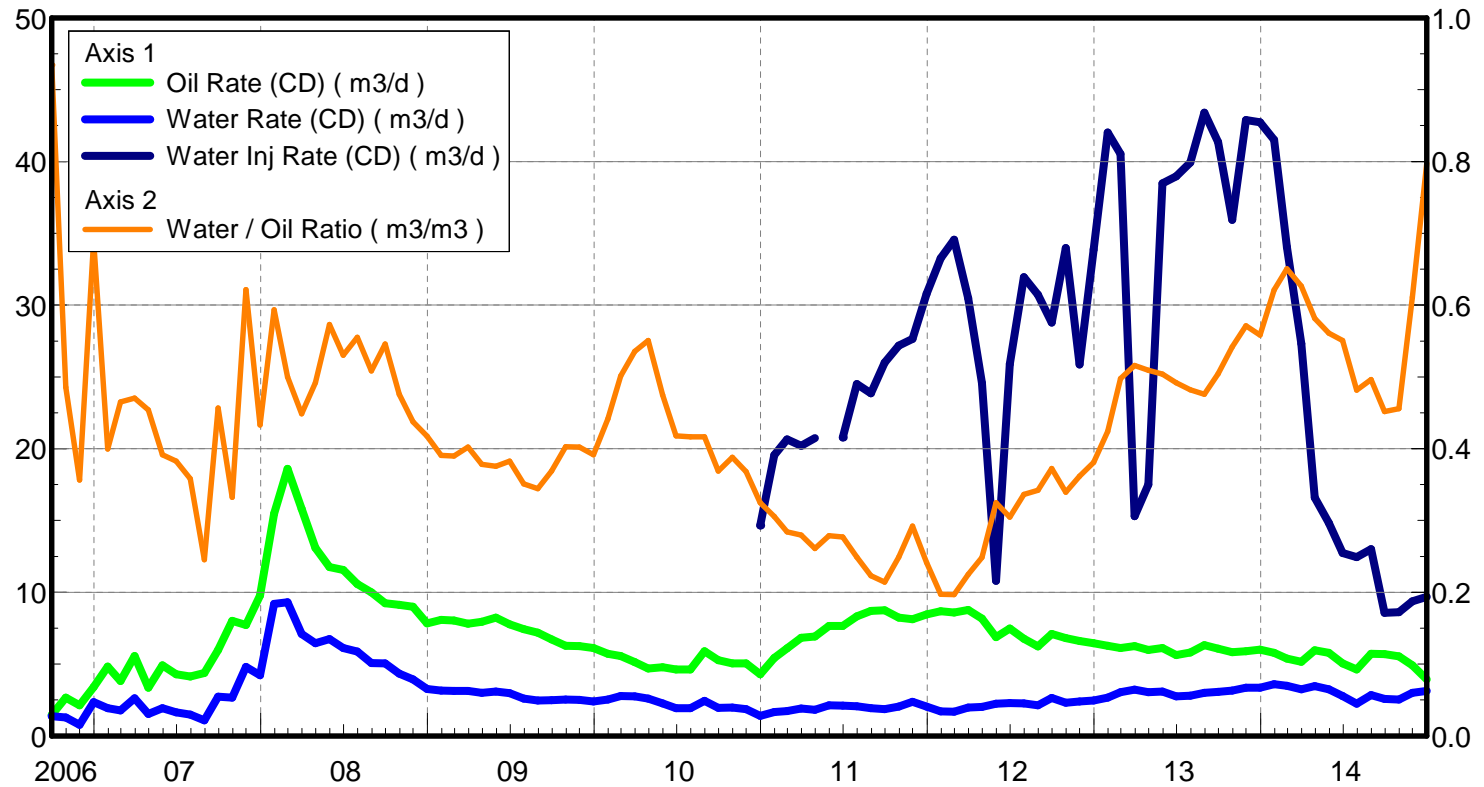
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 3.93 m3/d

Water Rate (CD) : 3.14 m3/d

Water Inj Rate (CD) : 9.68 m3/d



Pattern: 02/08-17-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

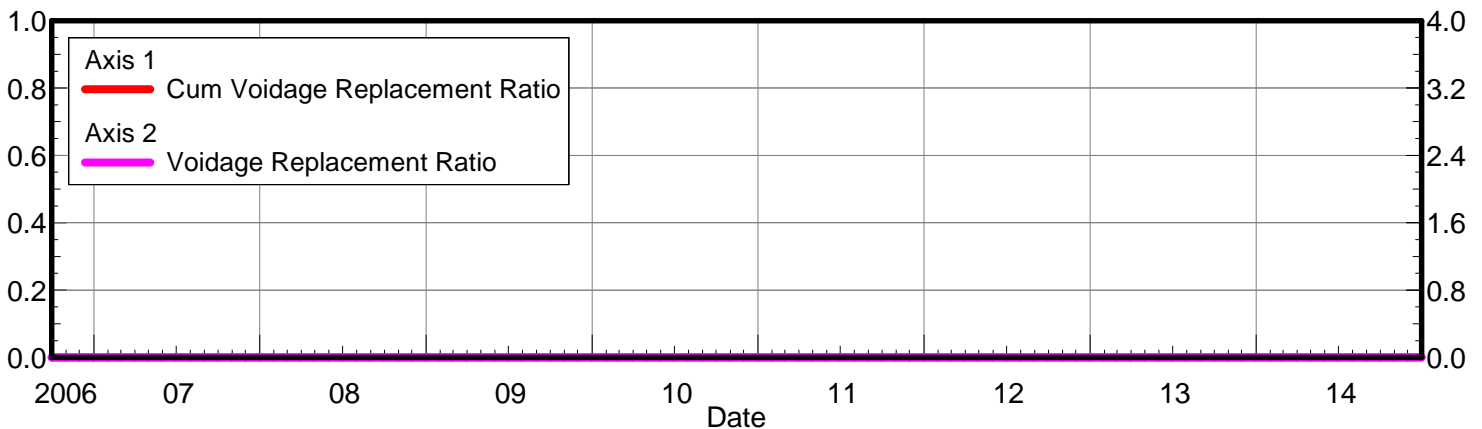
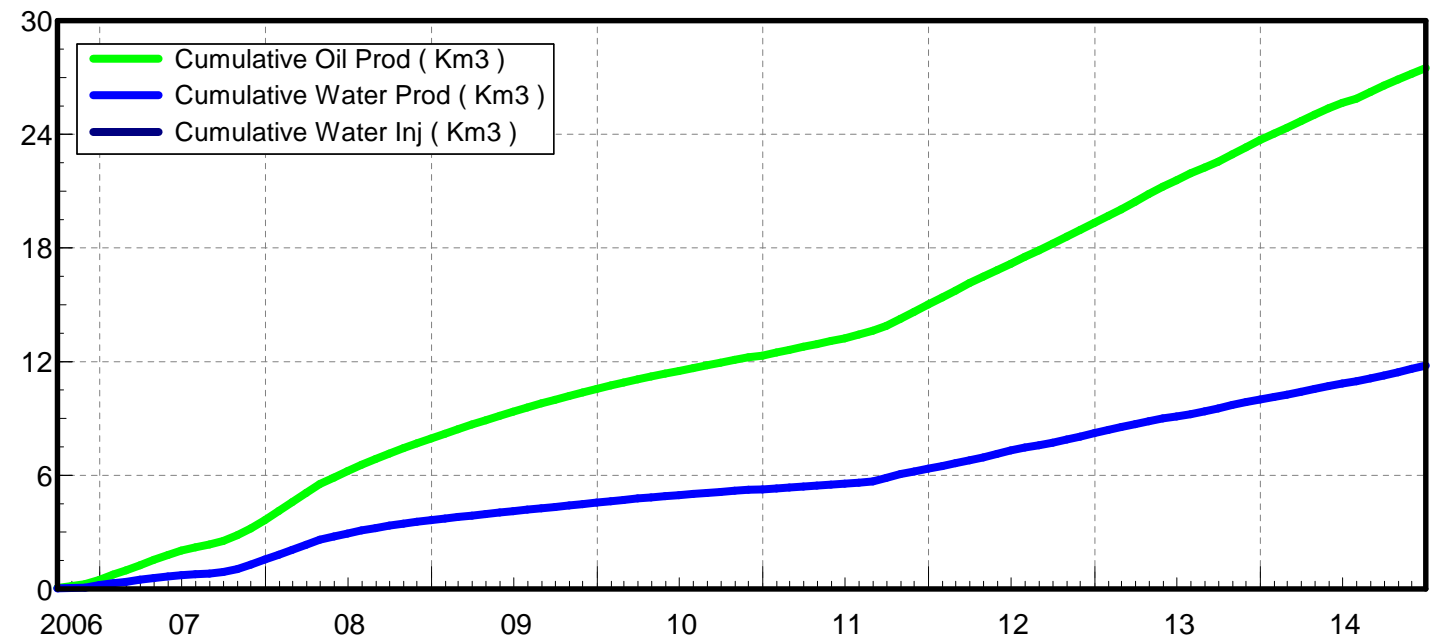
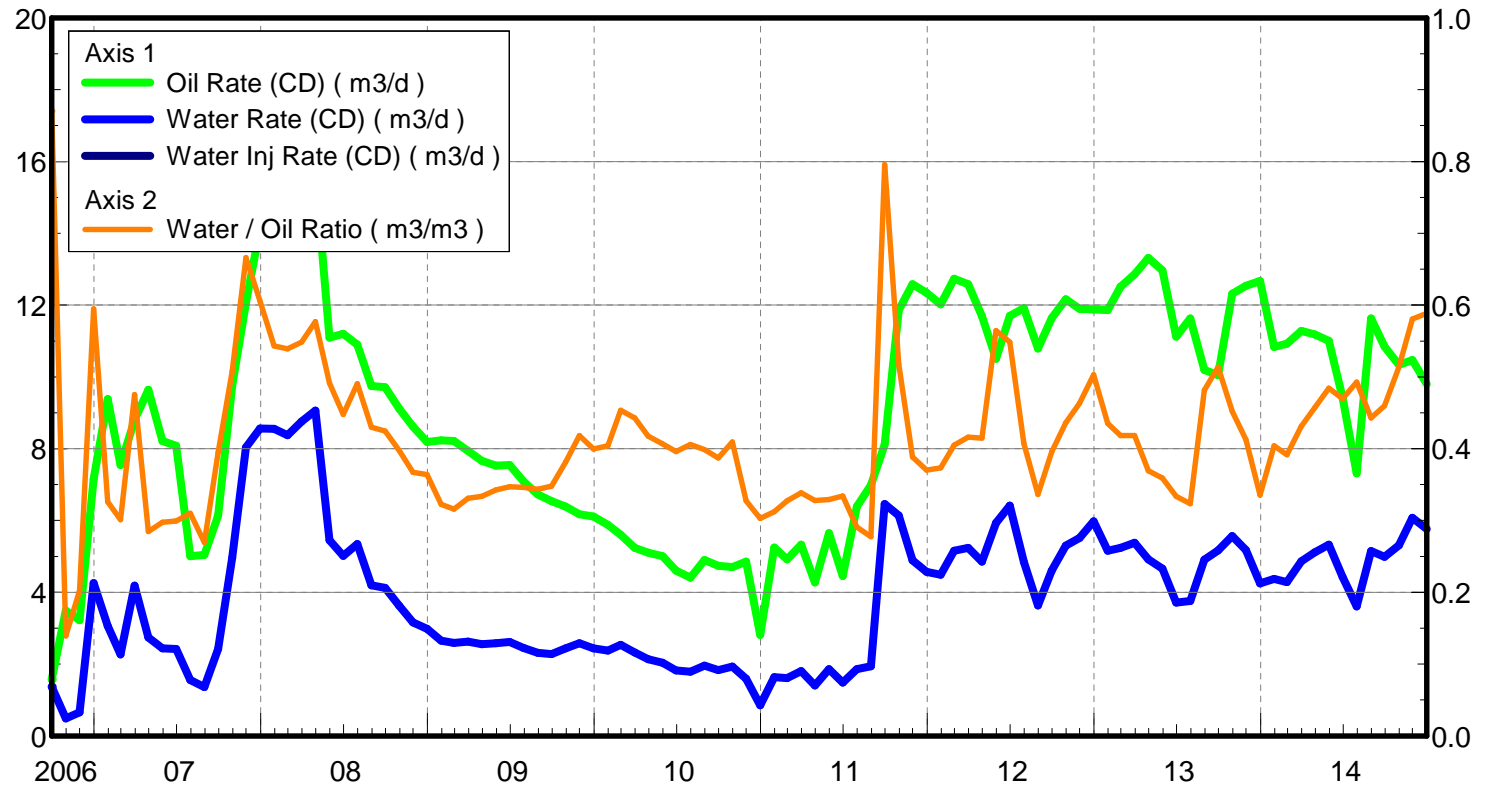
Water / Oil Ratio : 0.59 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 9.80 m3/d

Water Rate (CD) : 5.77 m3/d

Water Inj Rate (CD) : * m3/d



Pattern: 02/09-17-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.28 m3/m3

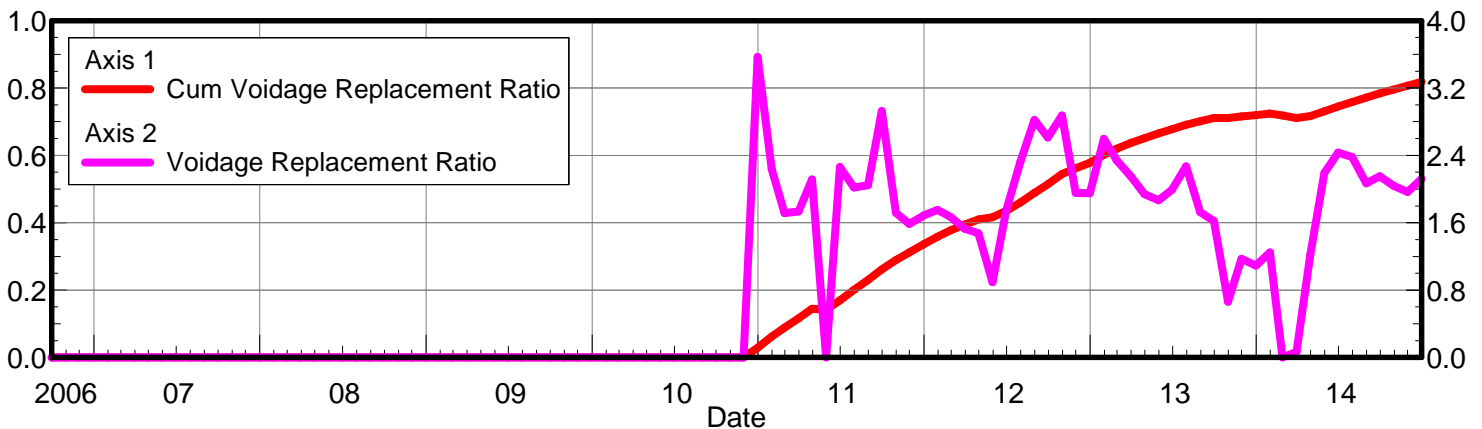
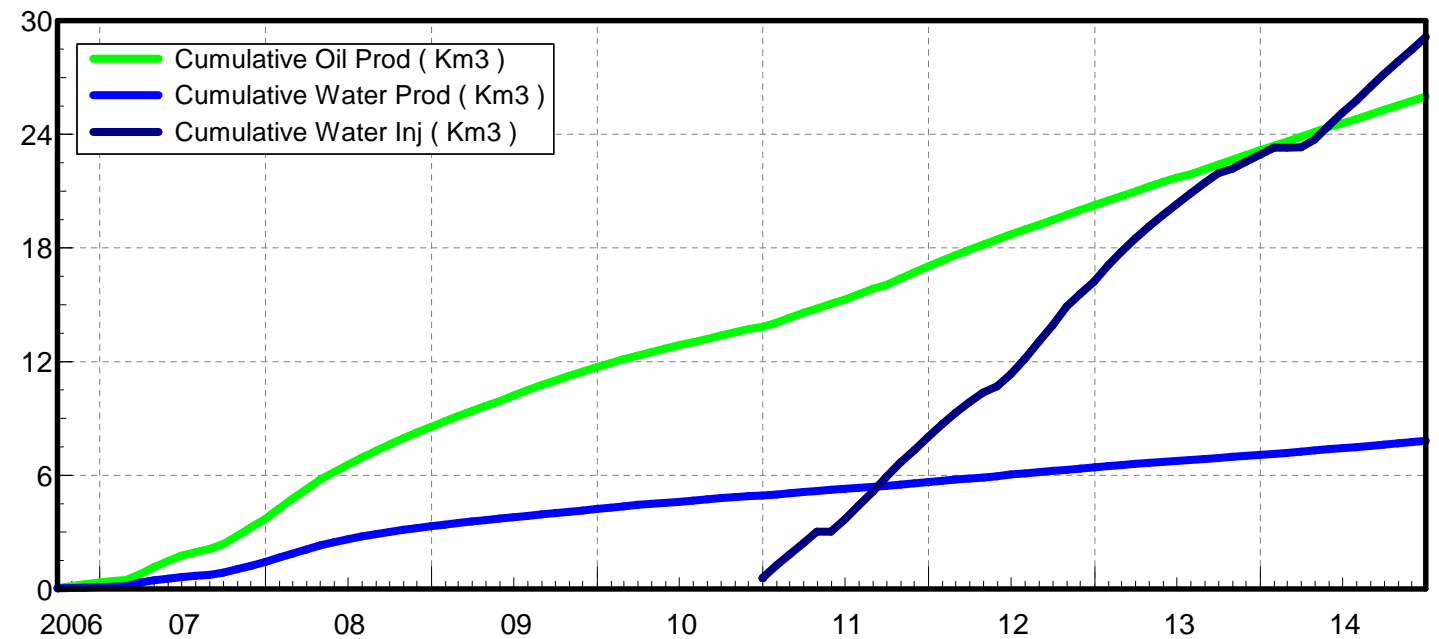
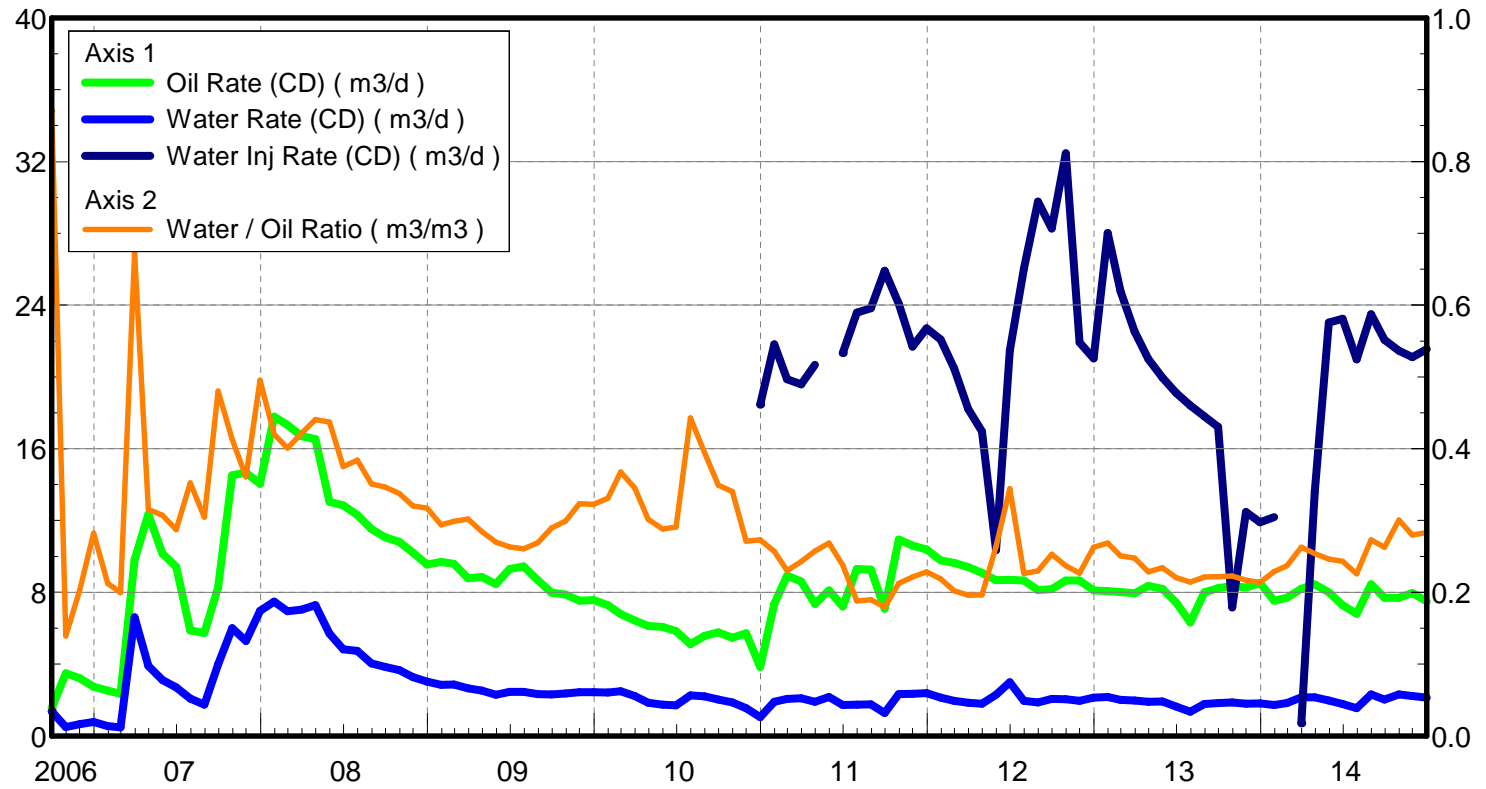
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 7.50 m3/d

Water Rate (CD) : 2.13 m3/d

Water Inj Rate (CD) : 21.55 m3/d



Pattern: 02/05-18-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 1.02 m3/m3

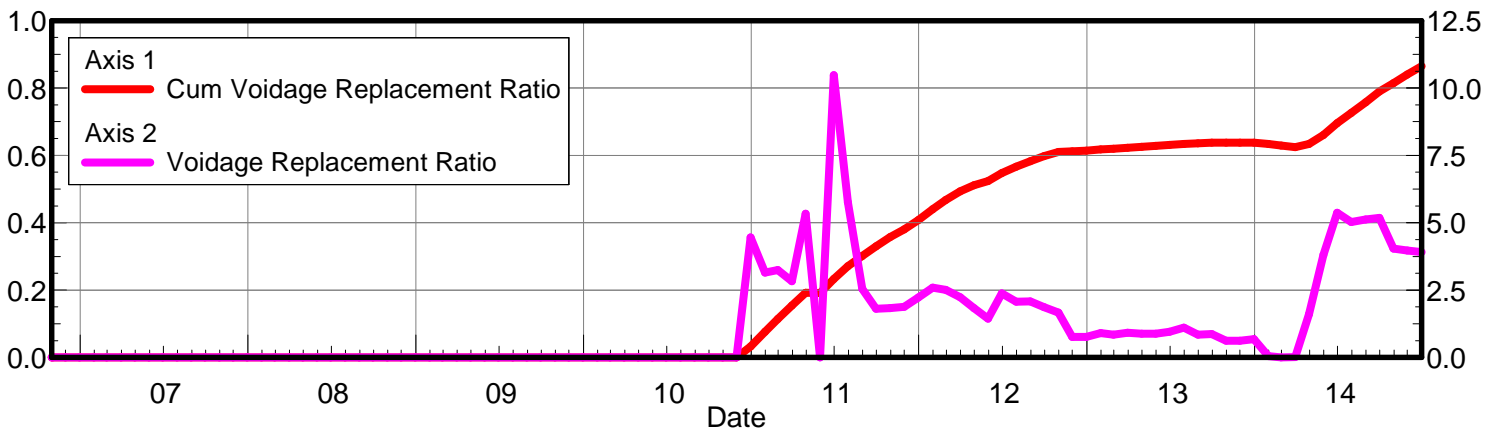
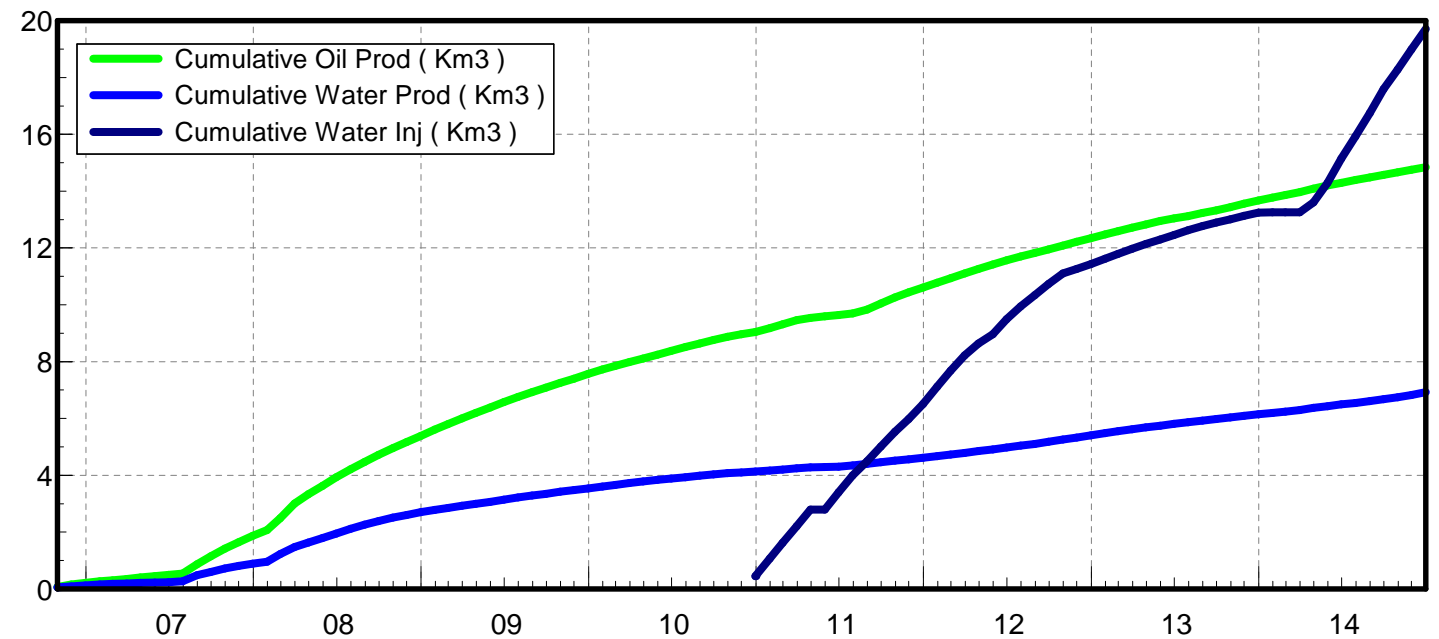
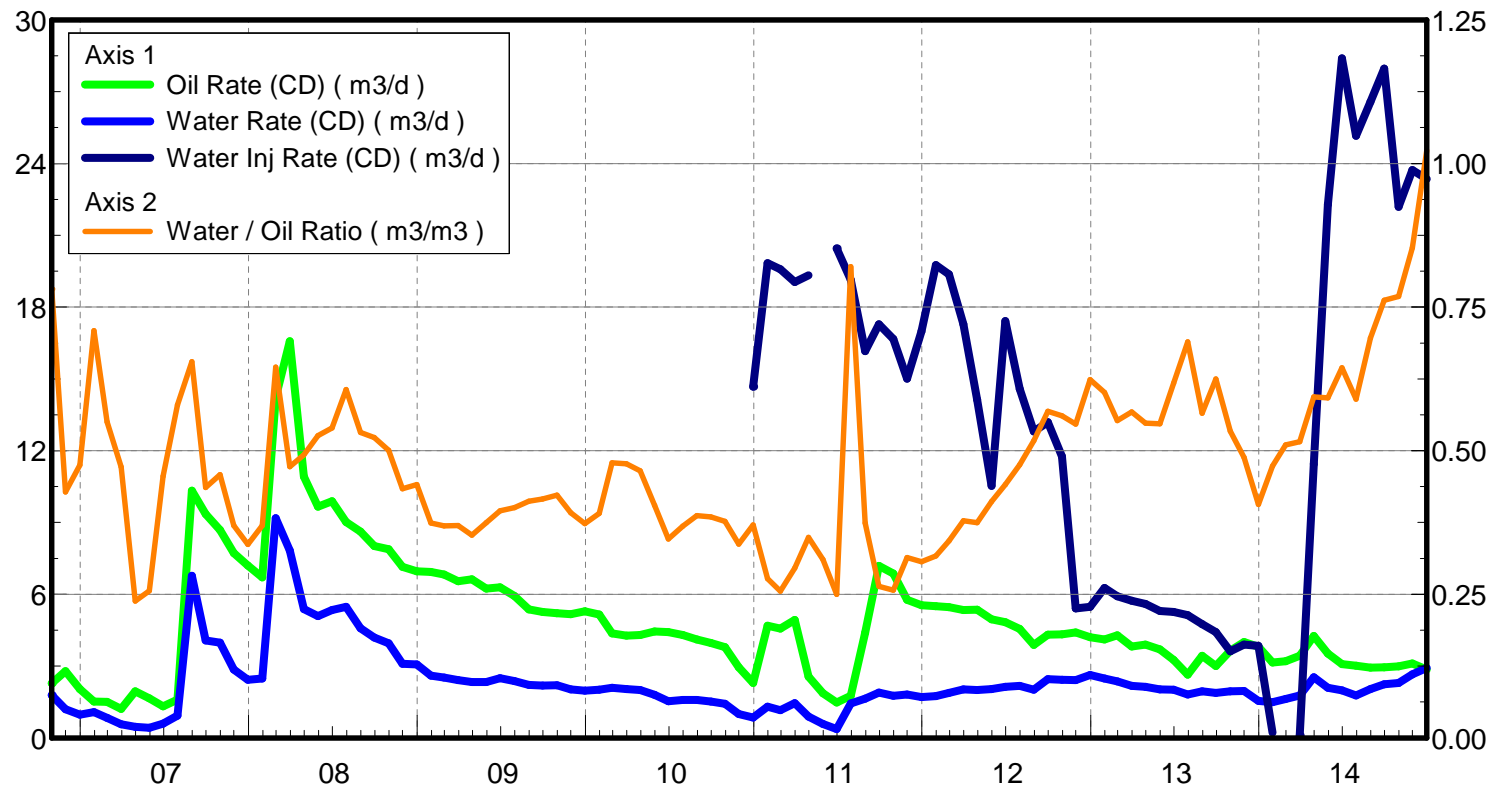
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 2.86 m3/d

Water Rate (CD) : 2.92 m3/d

Water Inj Rate (CD) : 23.35 m3/d



Pattern: 03/05-18-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

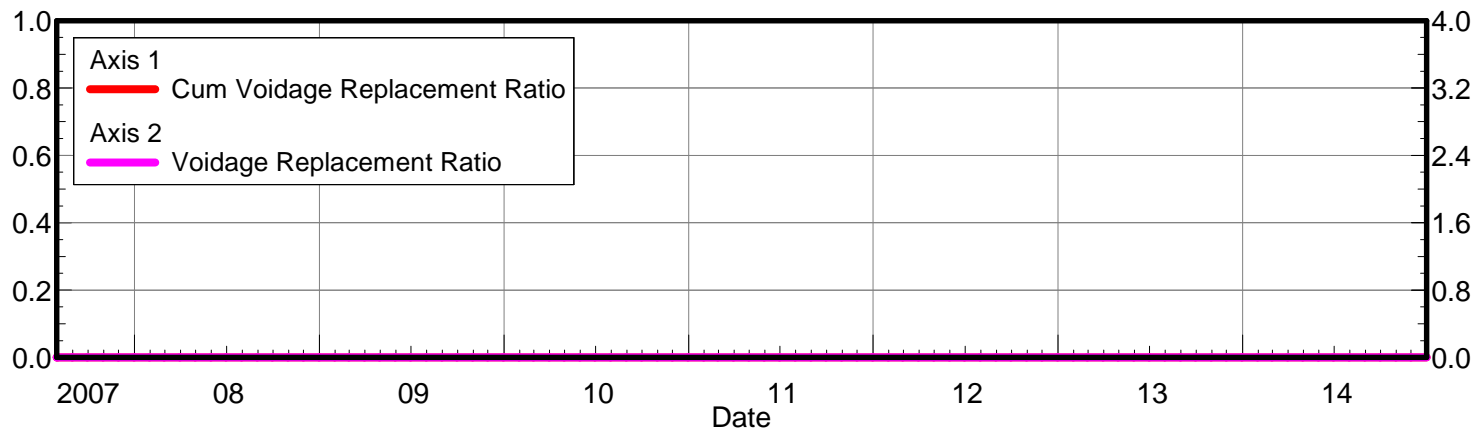
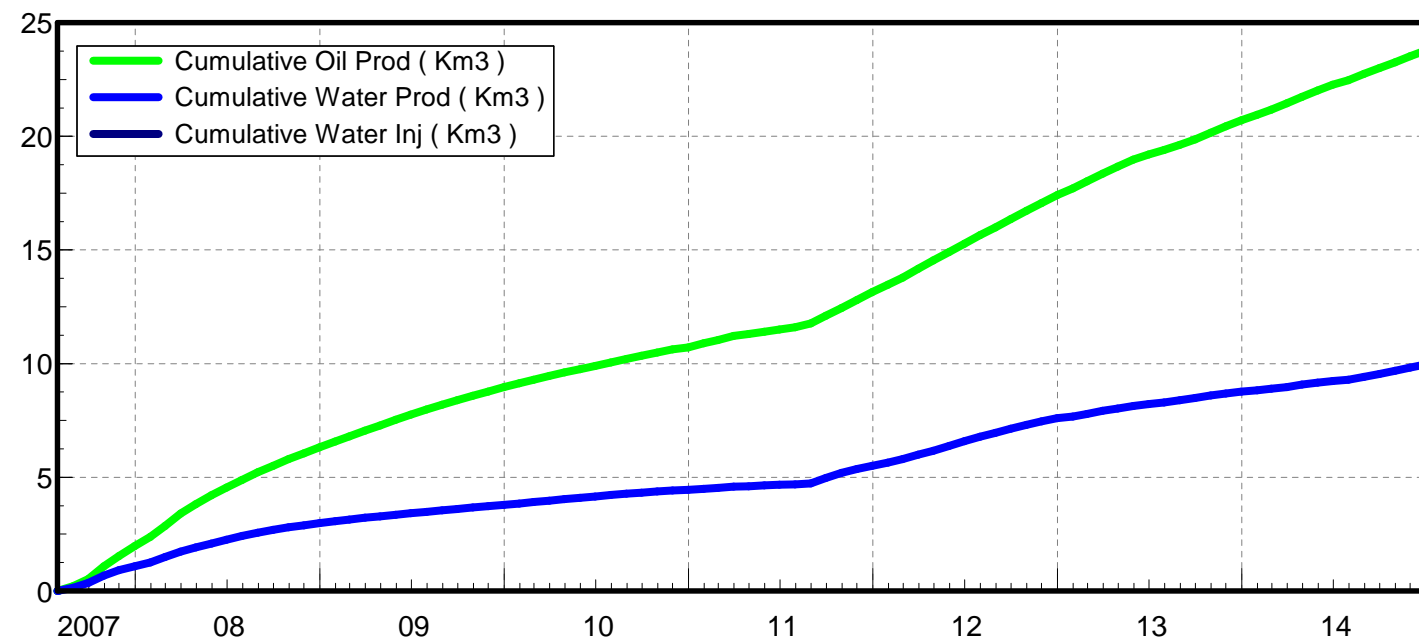
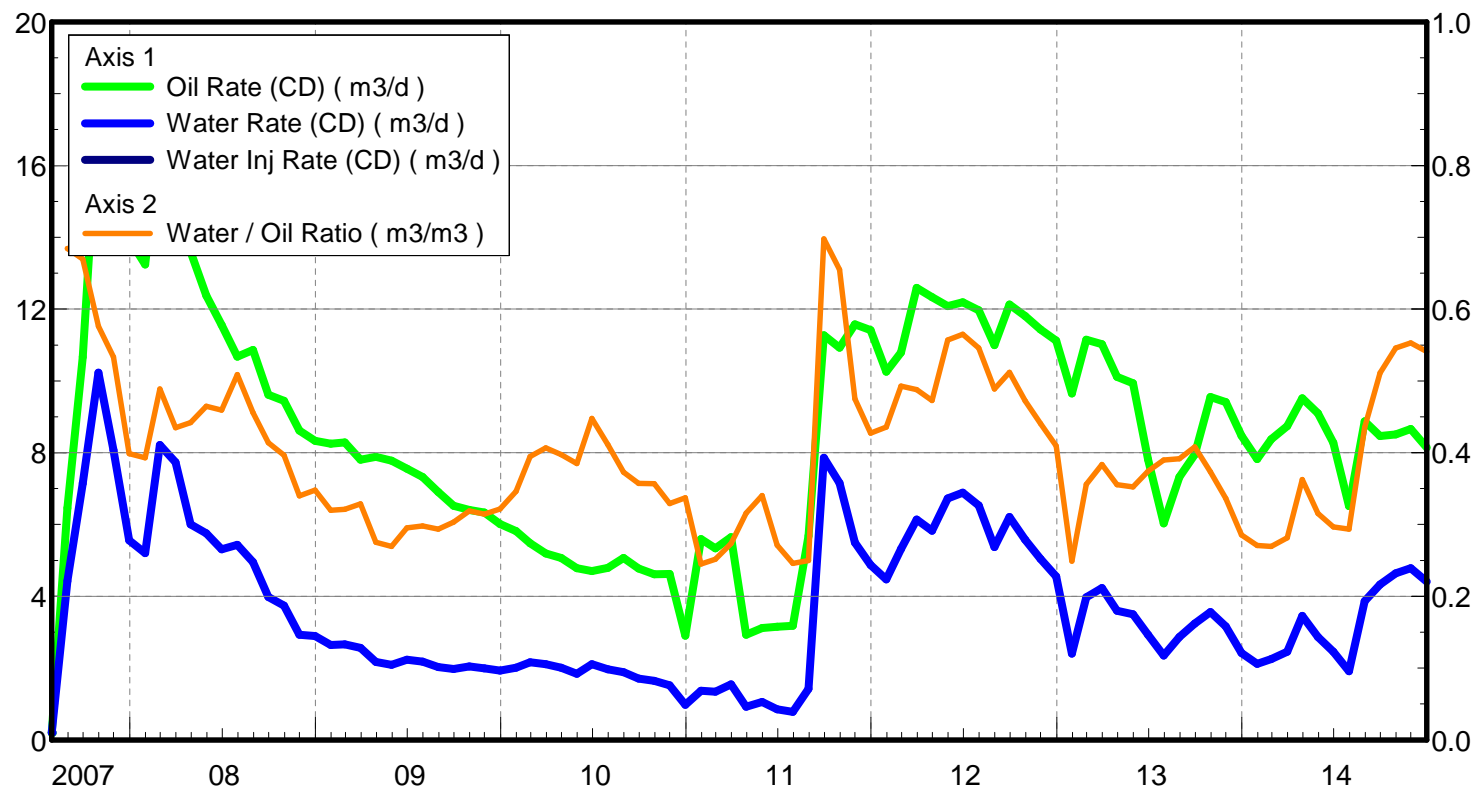
Water / Oil Ratio : 0.54 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 8.14 m3/d

Water Rate (CD) : 4.41 m3/d

Water Inj Rate (CD) : * m3/d



Pattern: 02/12-18-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.35 m3/m3

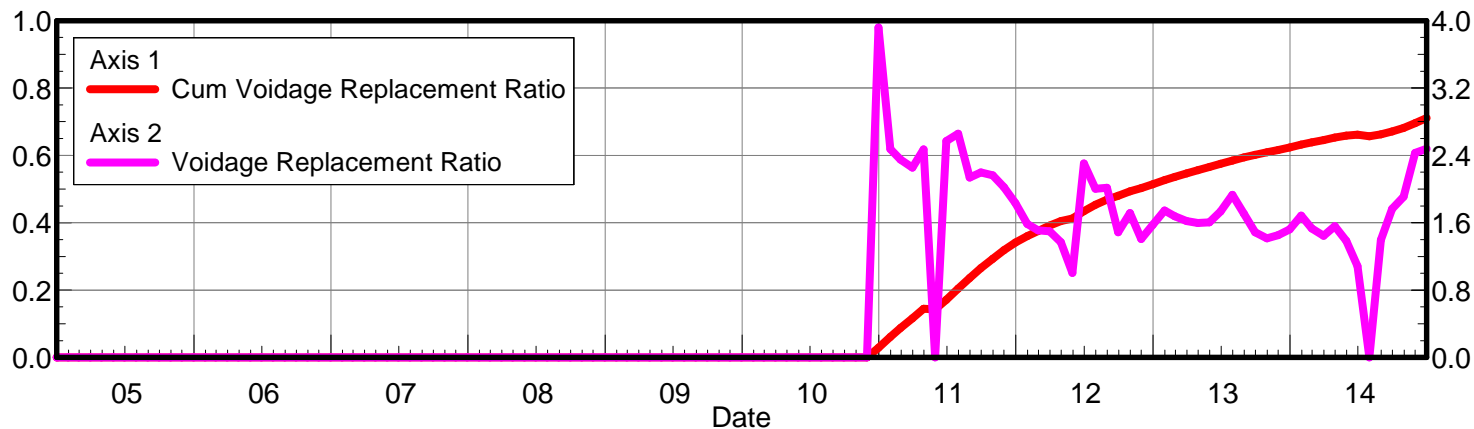
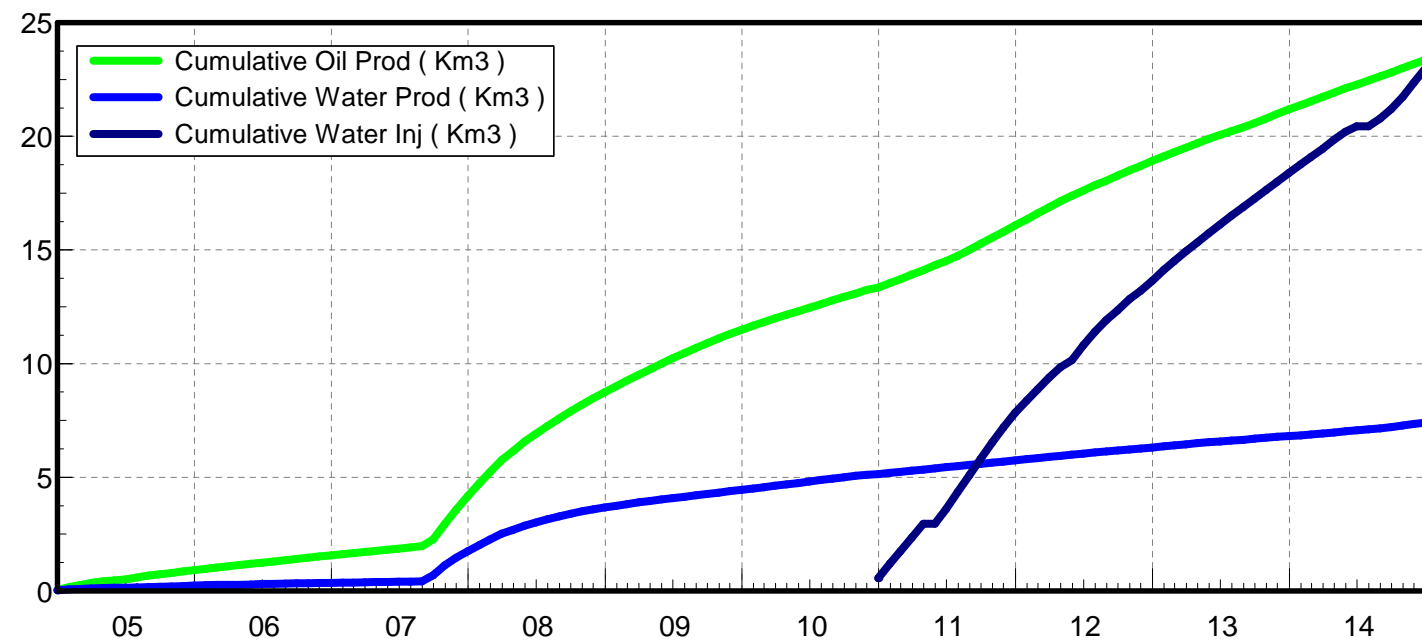
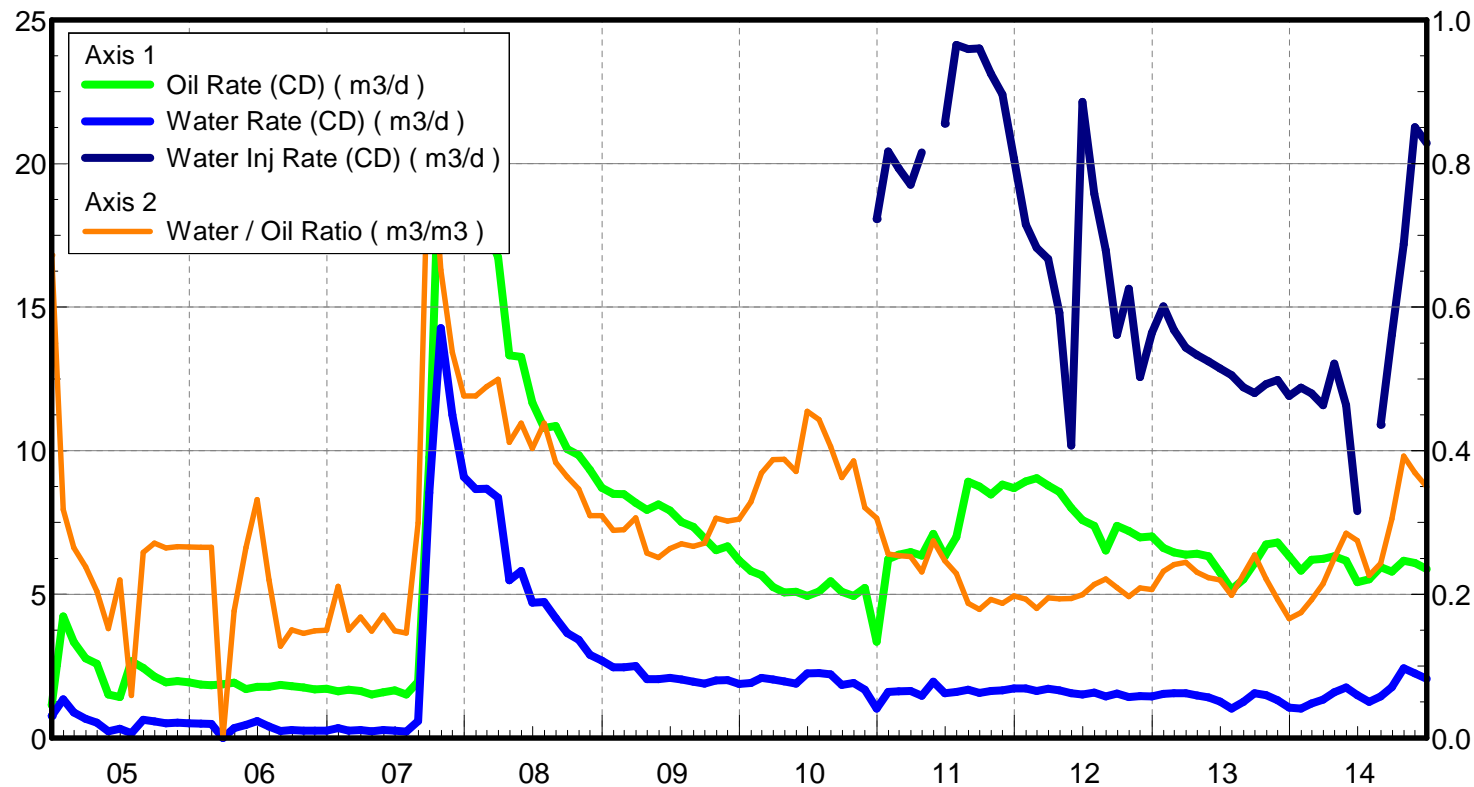
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 5.88 m3/d

Water Rate (CD) : 2.06 m3/d

Water Inj Rate (CD) : 20.71 m3/d



Pattern: 02/04-19-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.37 m3/m3

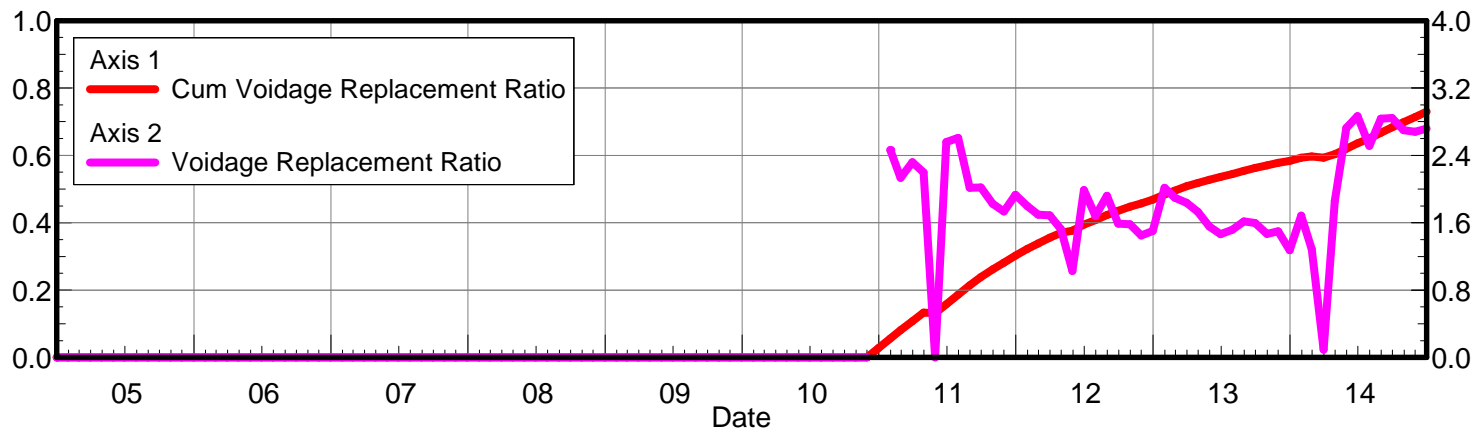
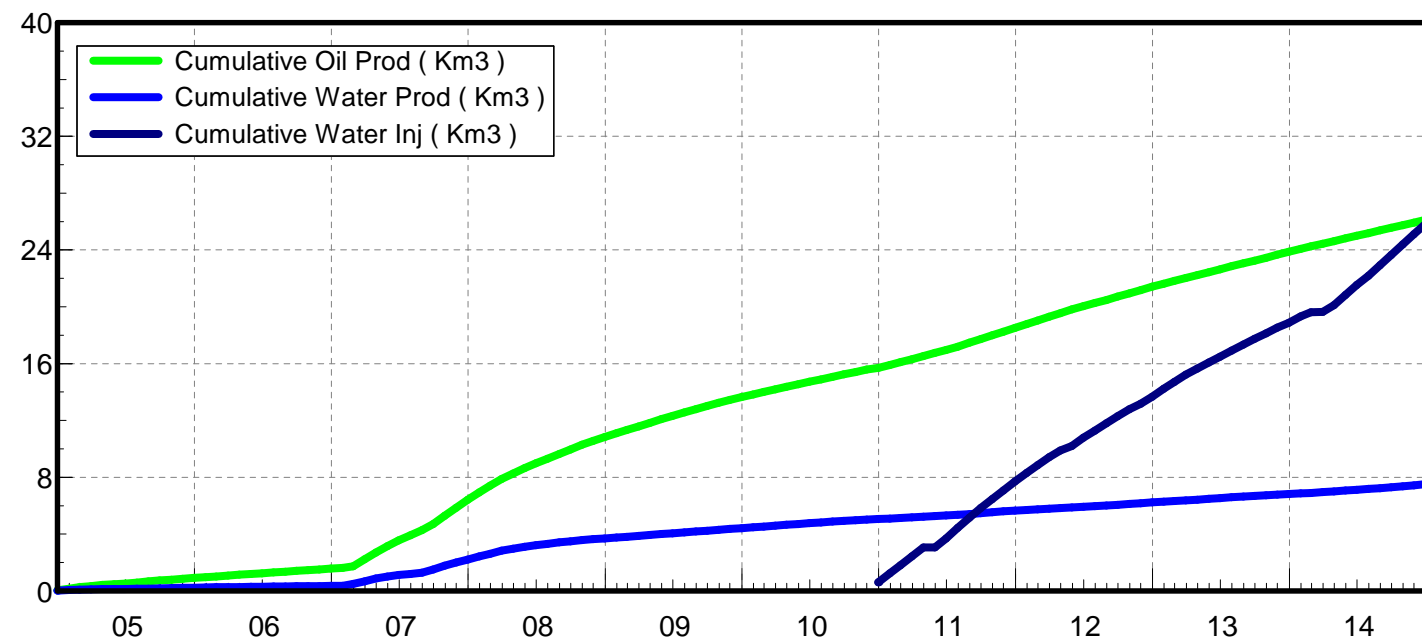
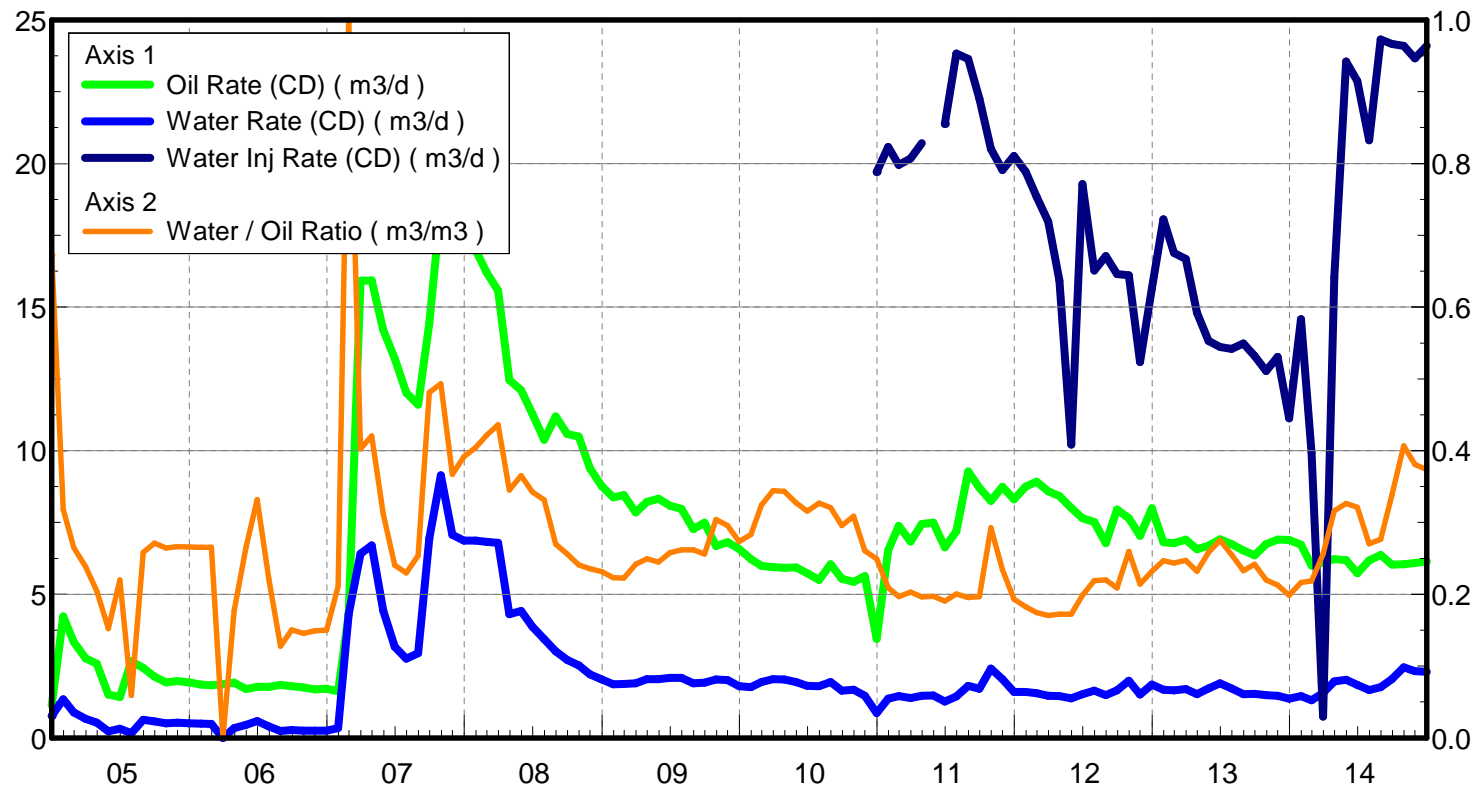
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 6.14 m3/d

Water Rate (CD) : 2.30 m3/d

Water Inj Rate (CD) : 24.10 m3/d



Pattern: 03/04-19-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.26 m3/m3

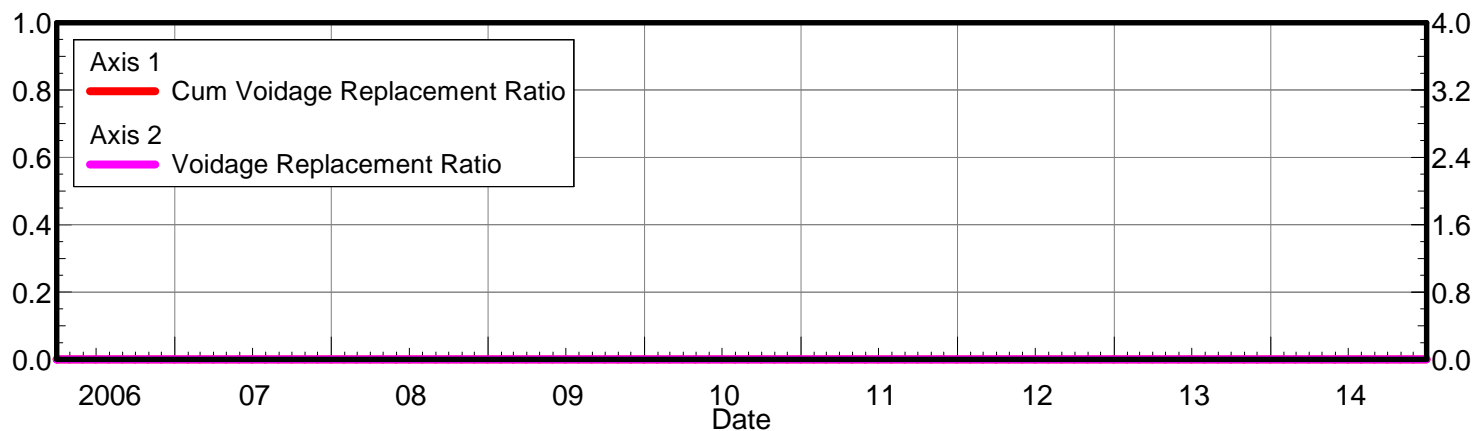
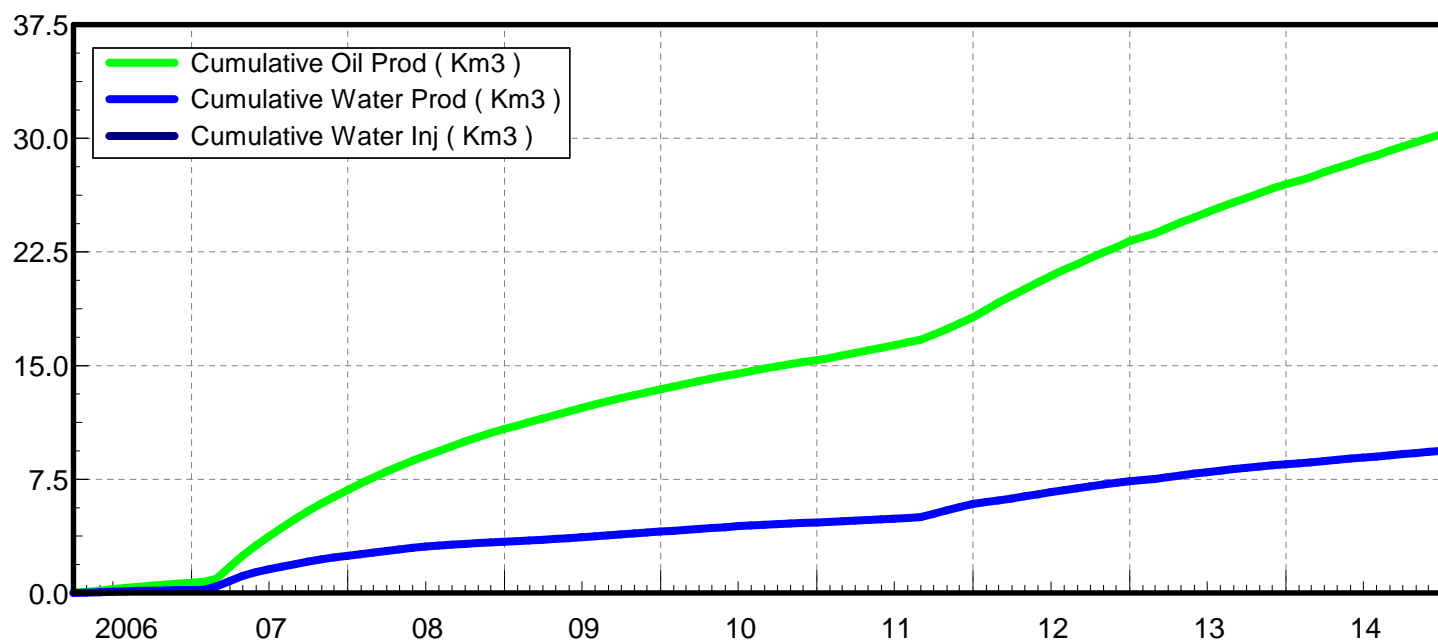
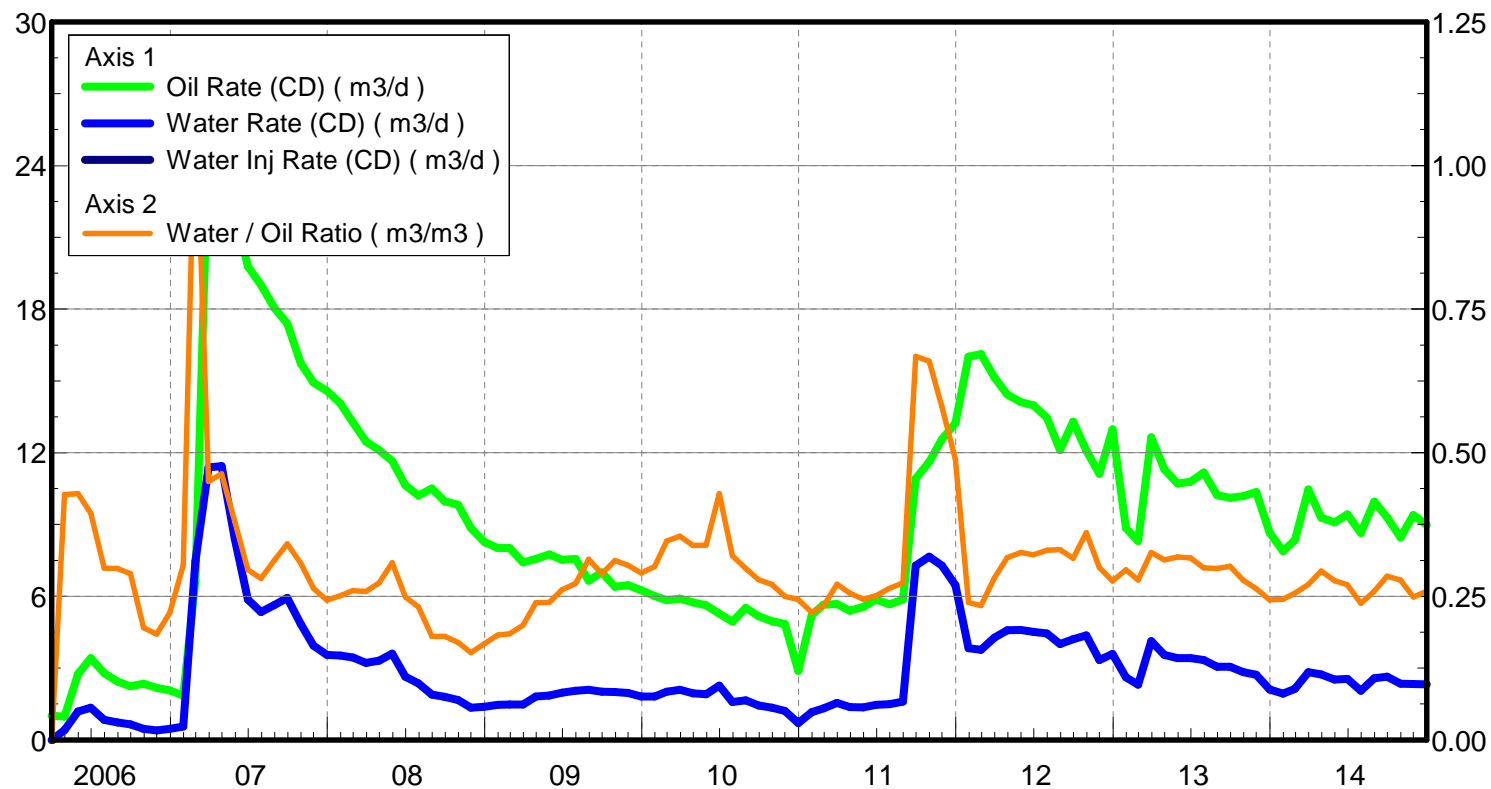
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 8.98 m3/d

Water Rate (CD) : 2.33 m3/d

Water Inj Rate (CD) : * m3/d



Pattern: 02/12-19-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.26 m3/m3

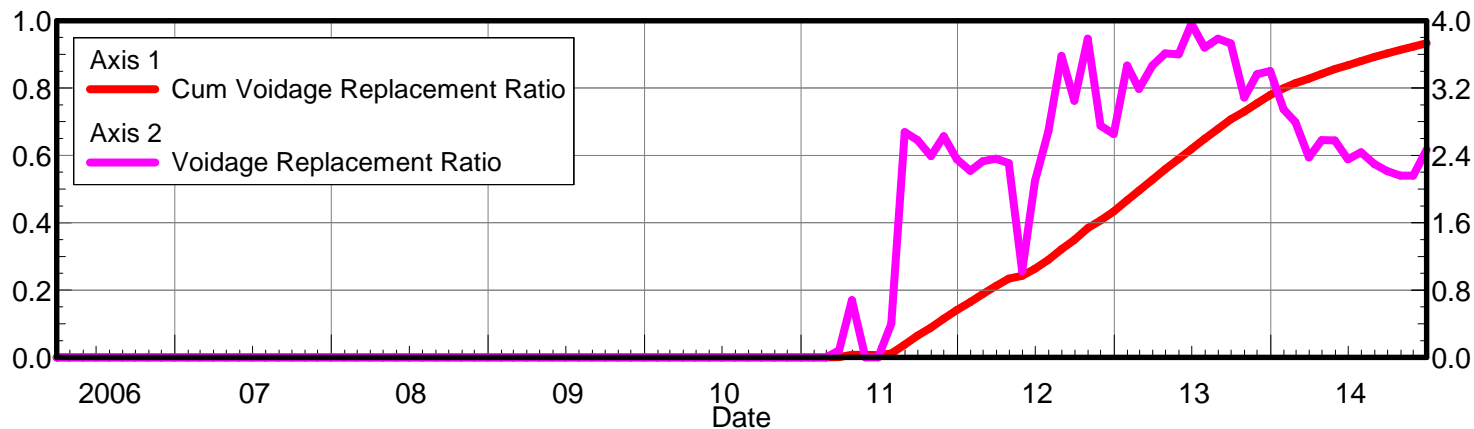
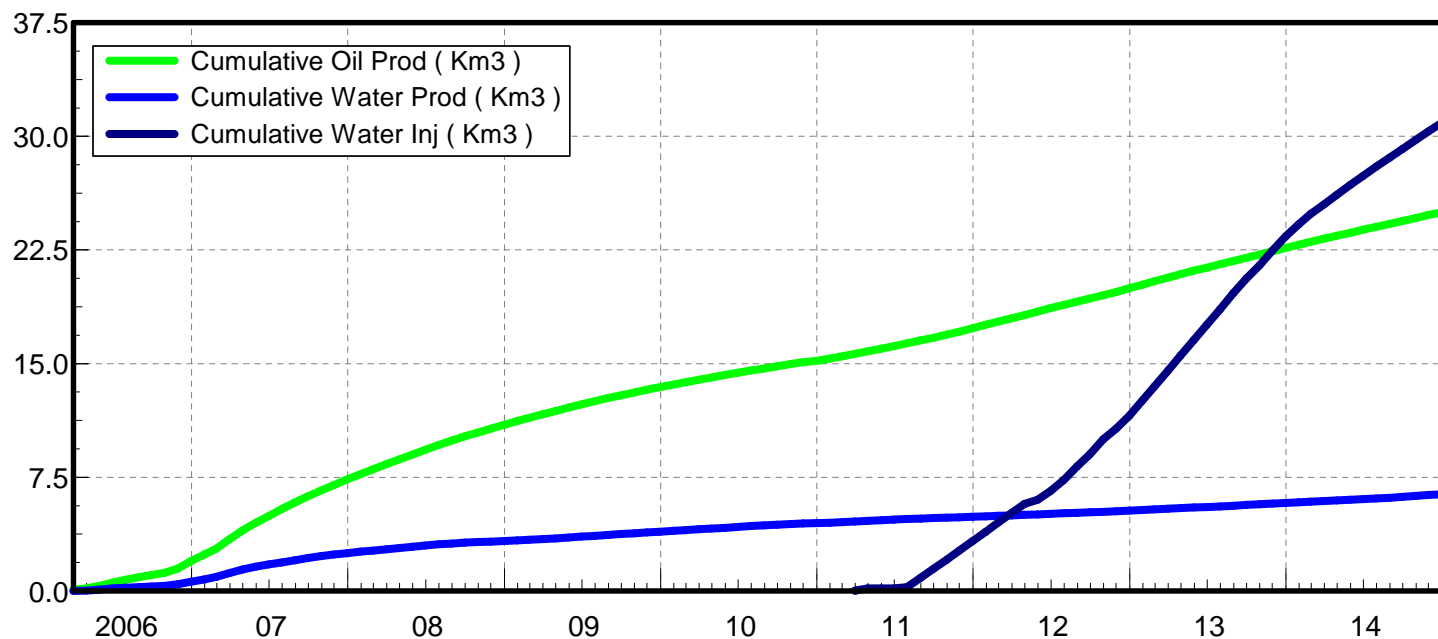
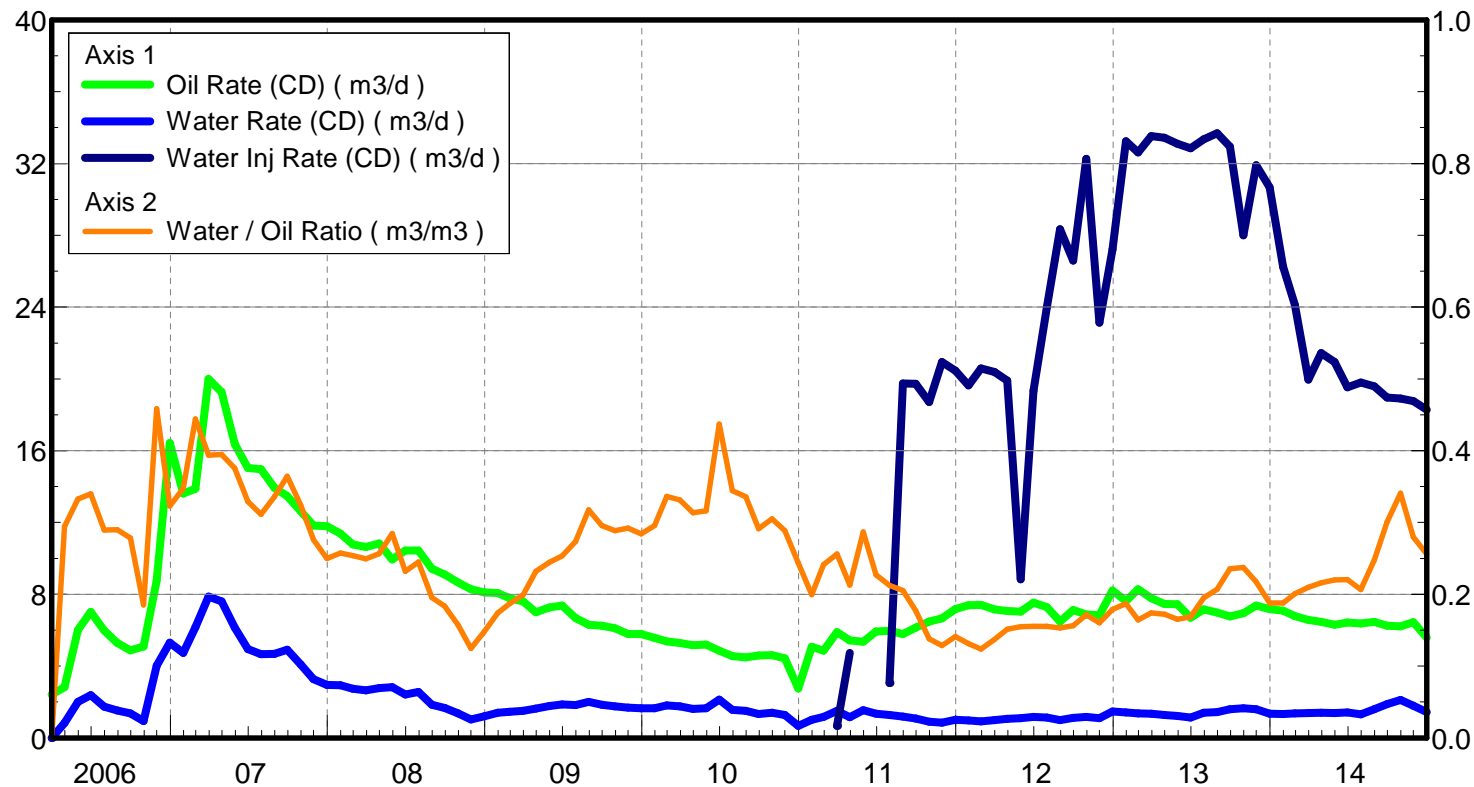
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 5.59 m3/d

Water Rate (CD) : 1.43 m3/d

Water Inj Rate (CD) : 18.29 m3/d



Pattern: 03/16-19-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.34 m3/m3

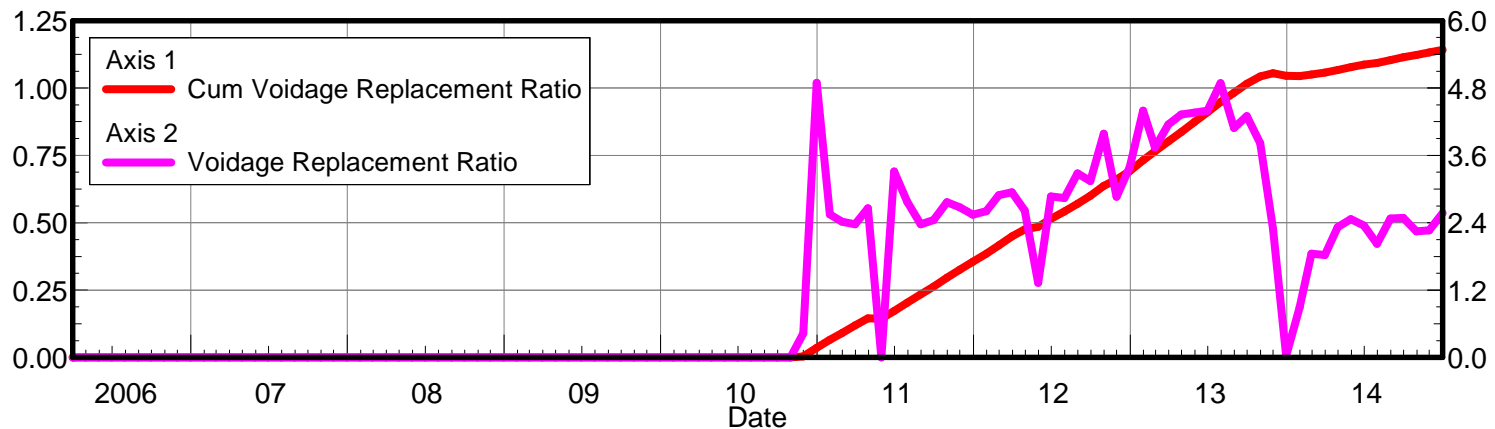
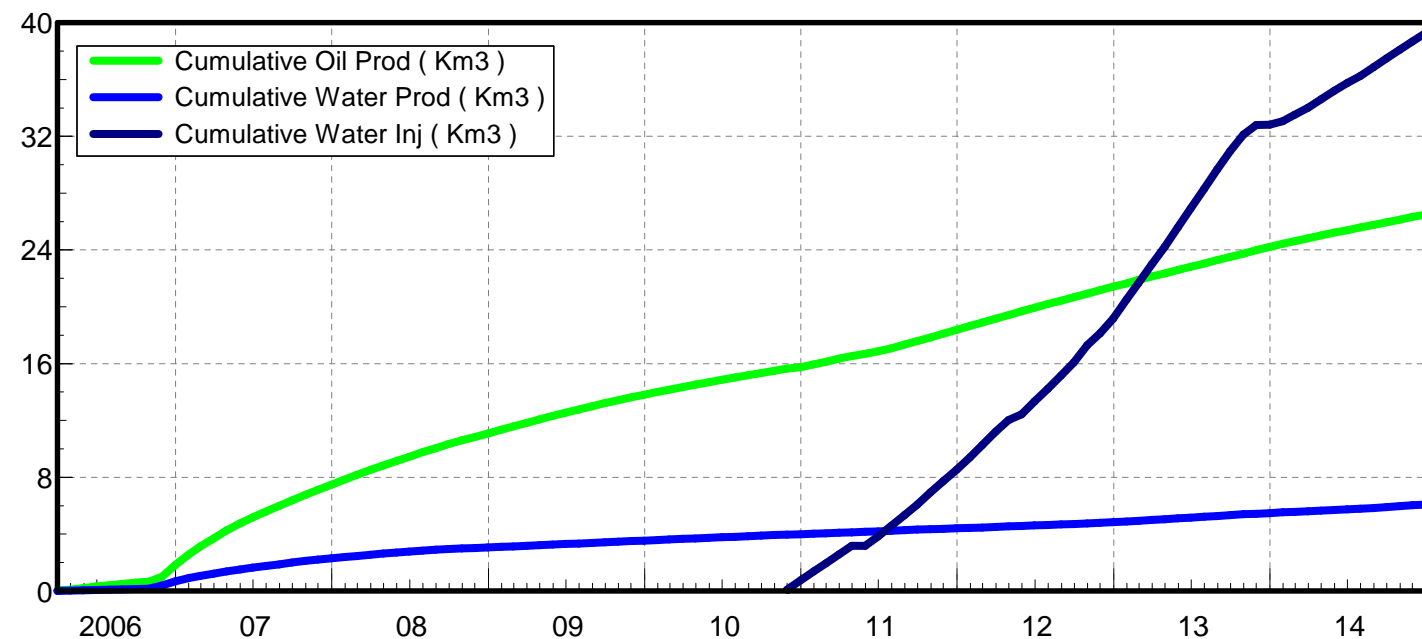
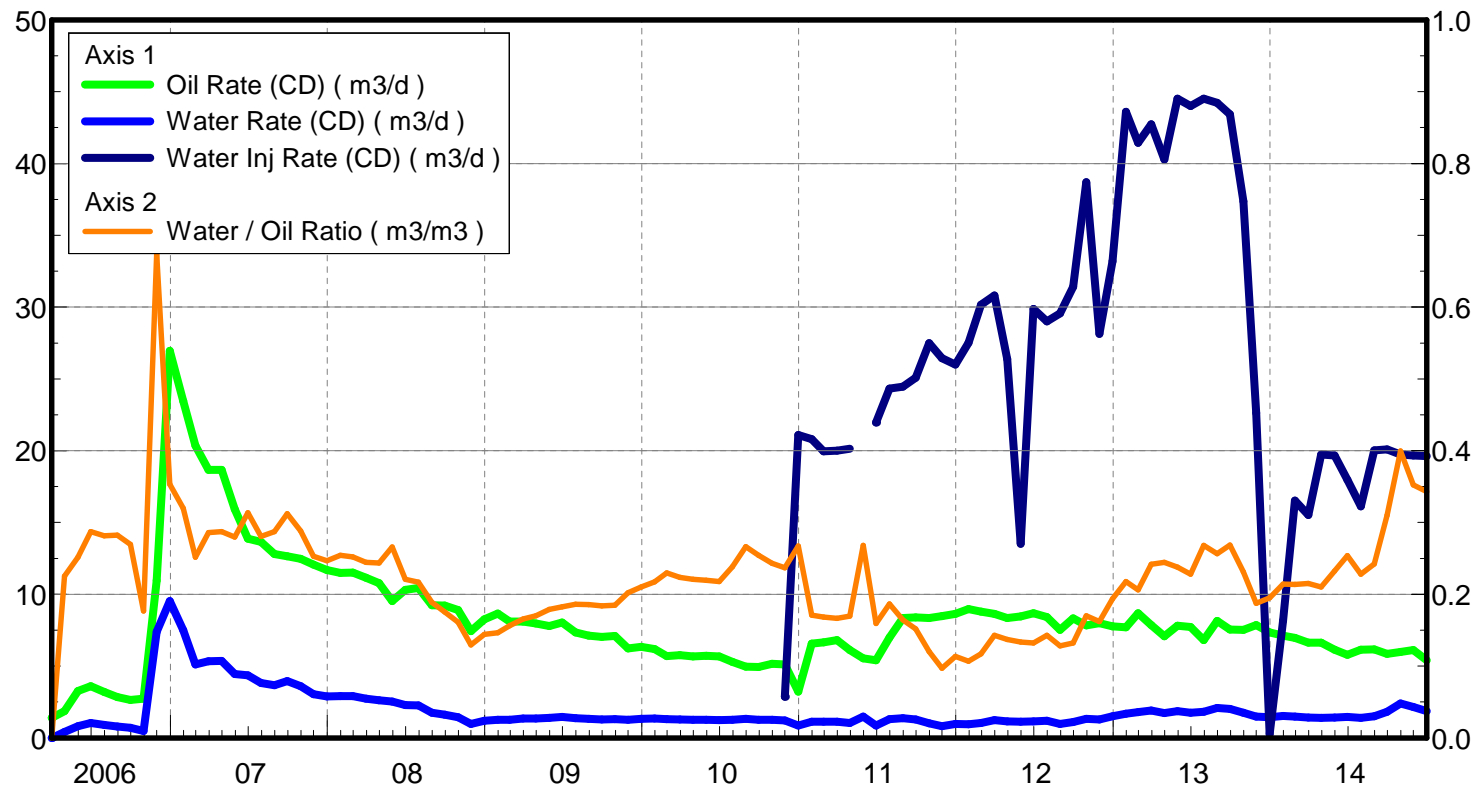
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 5.40 m3/d

Water Rate (CD) : 1.85 m3/d

Water Inj Rate (CD) : 19.61 m3/d



Pattern: 02/01-30-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

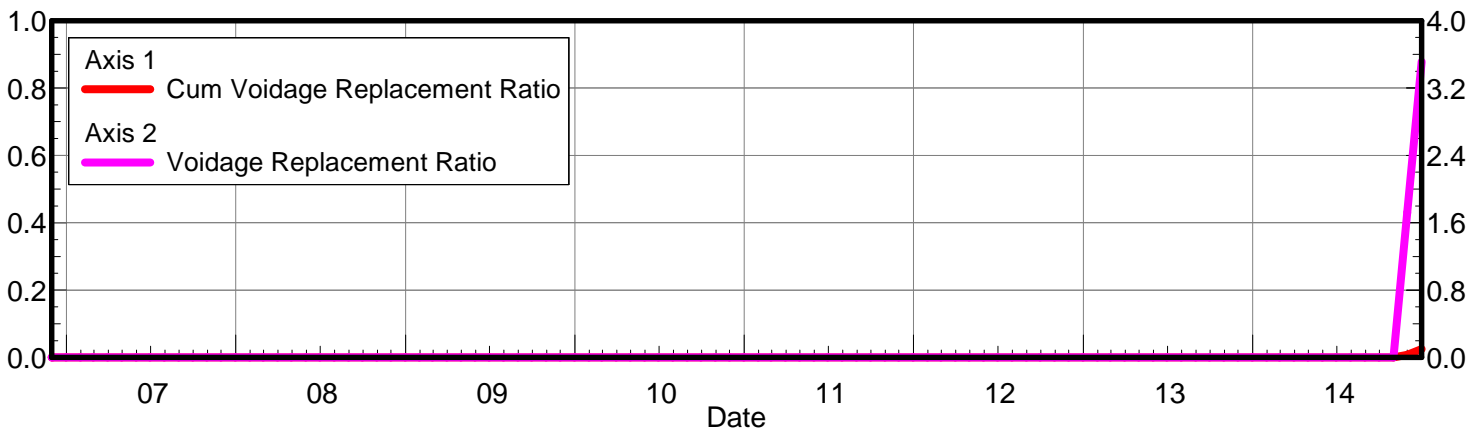
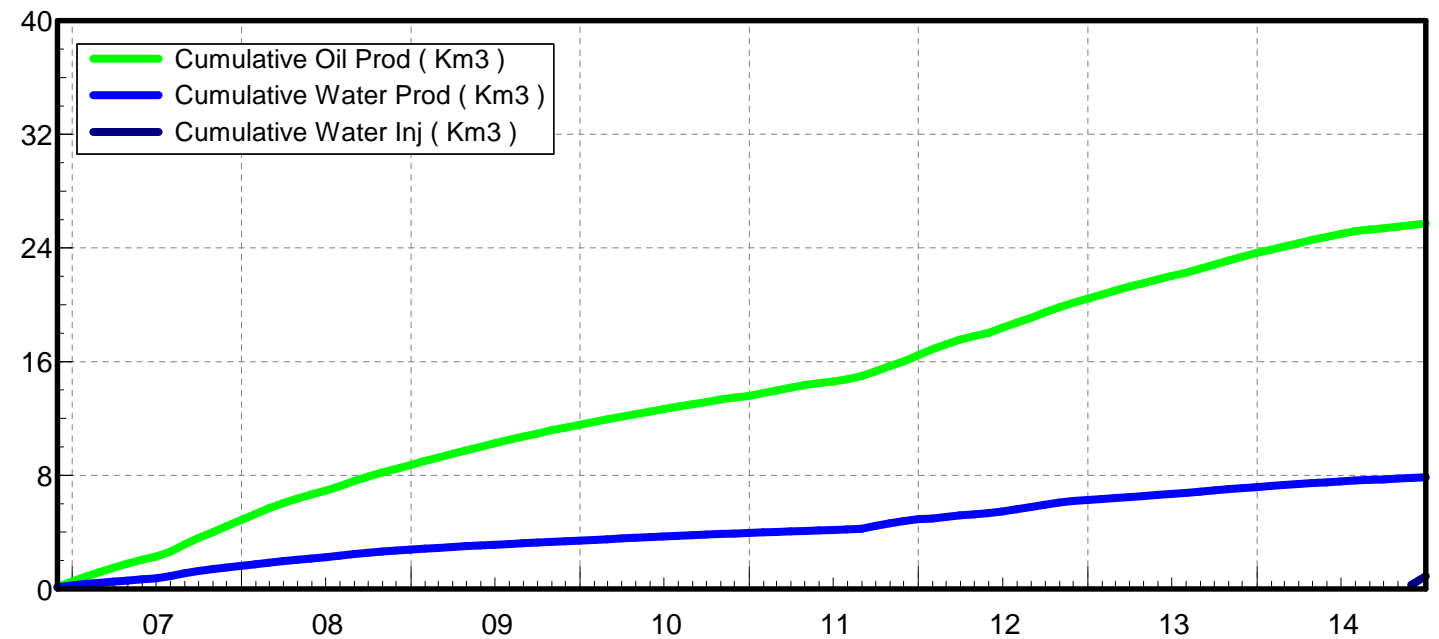
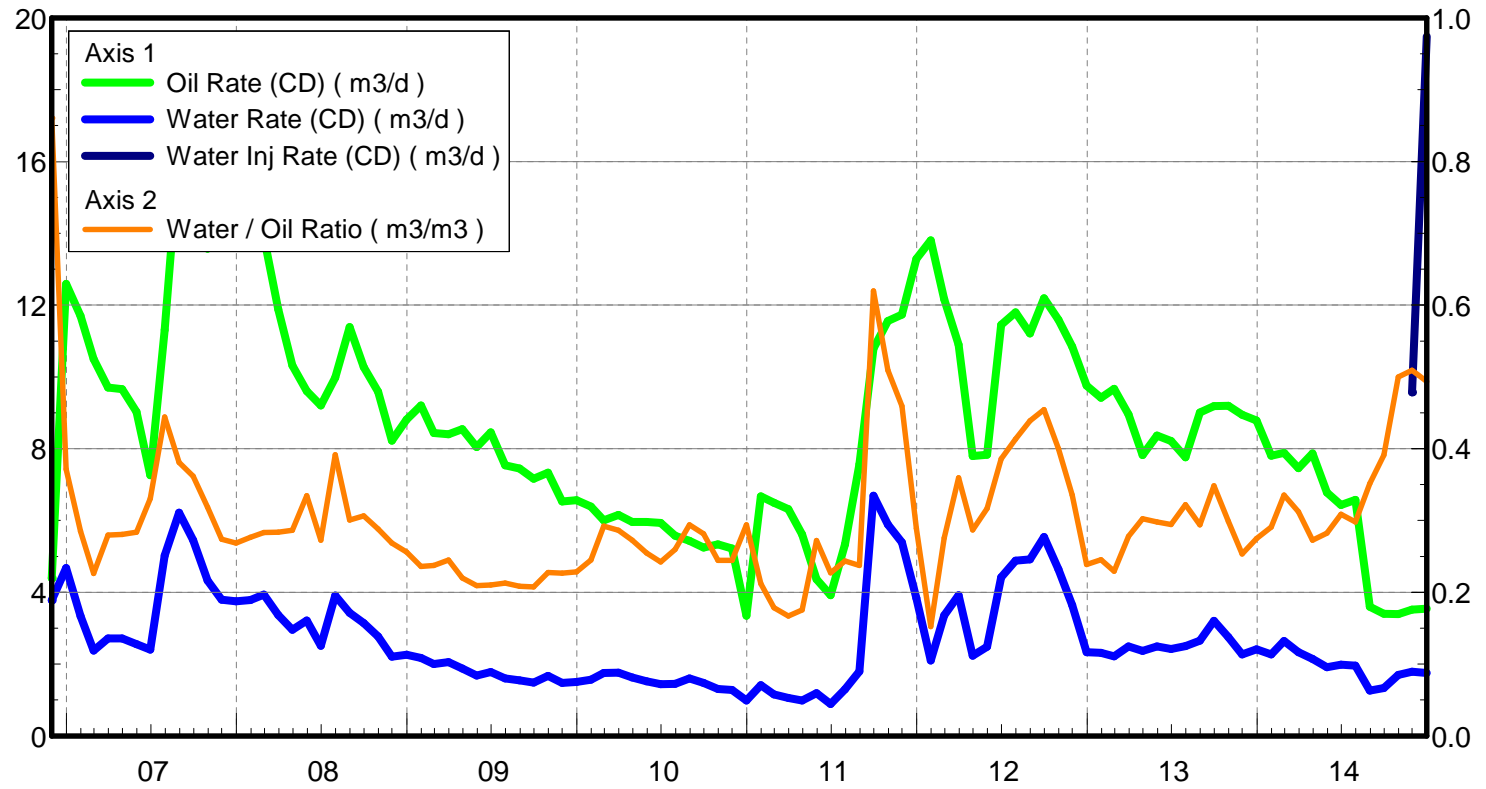
Water / Oil Ratio : 0.49 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 3.55 m3/d

Water Rate (CD) : 1.75 m3/d

Water Inj Rate (CD) : 19.48 m3/d



Pattern: 02/04-30-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

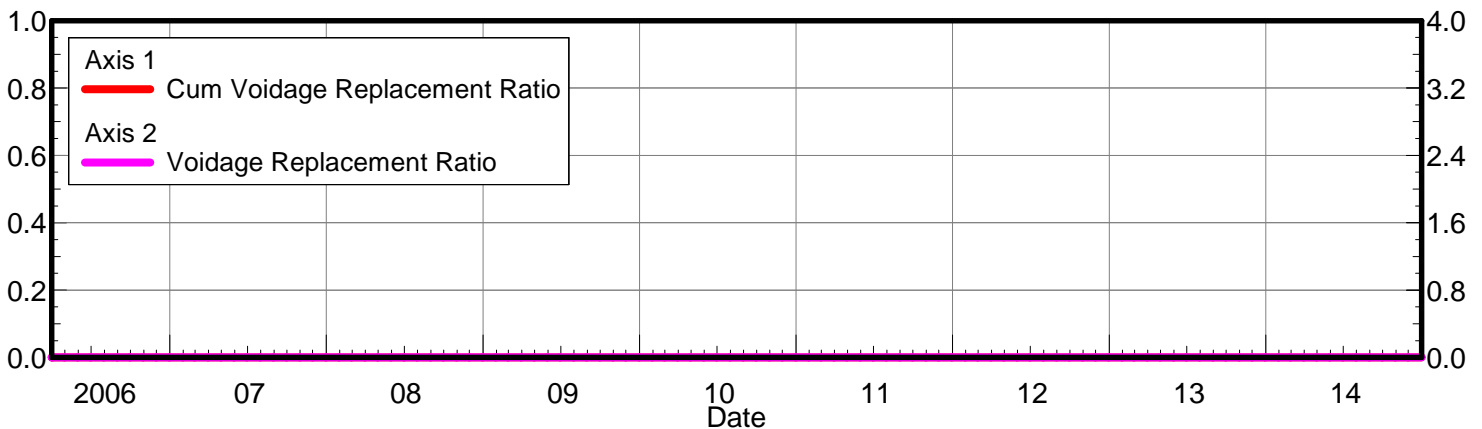
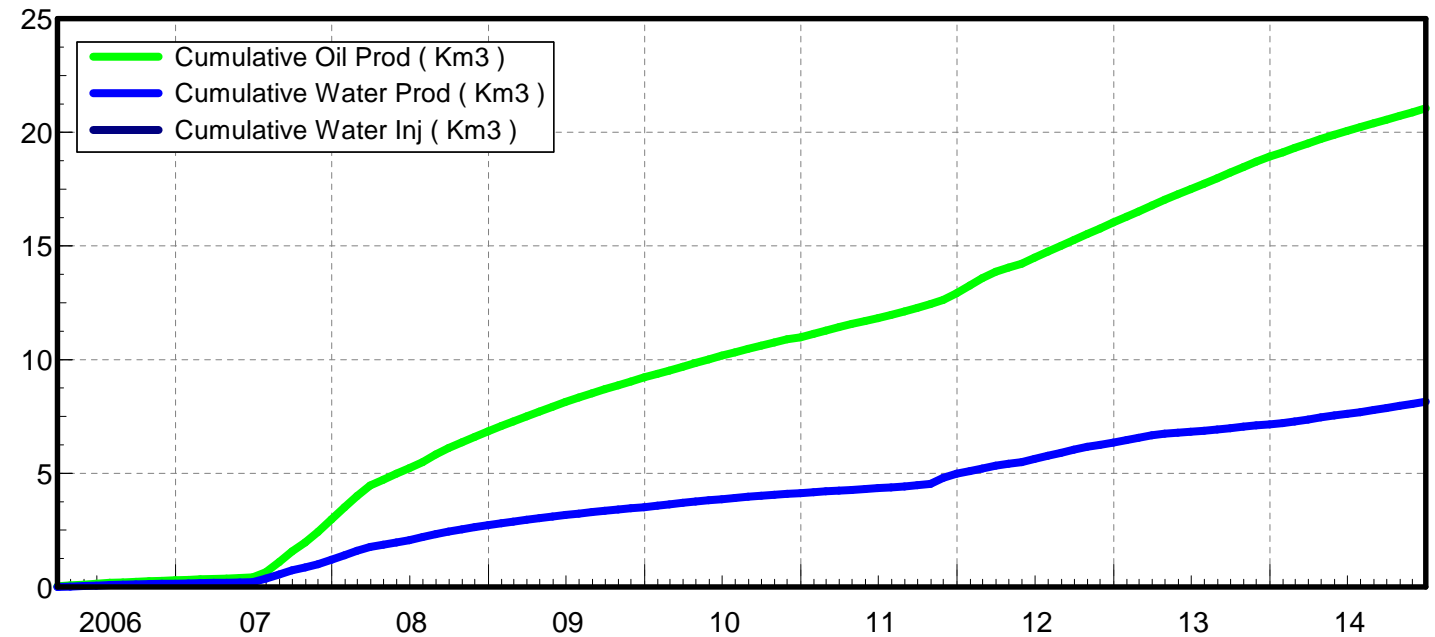
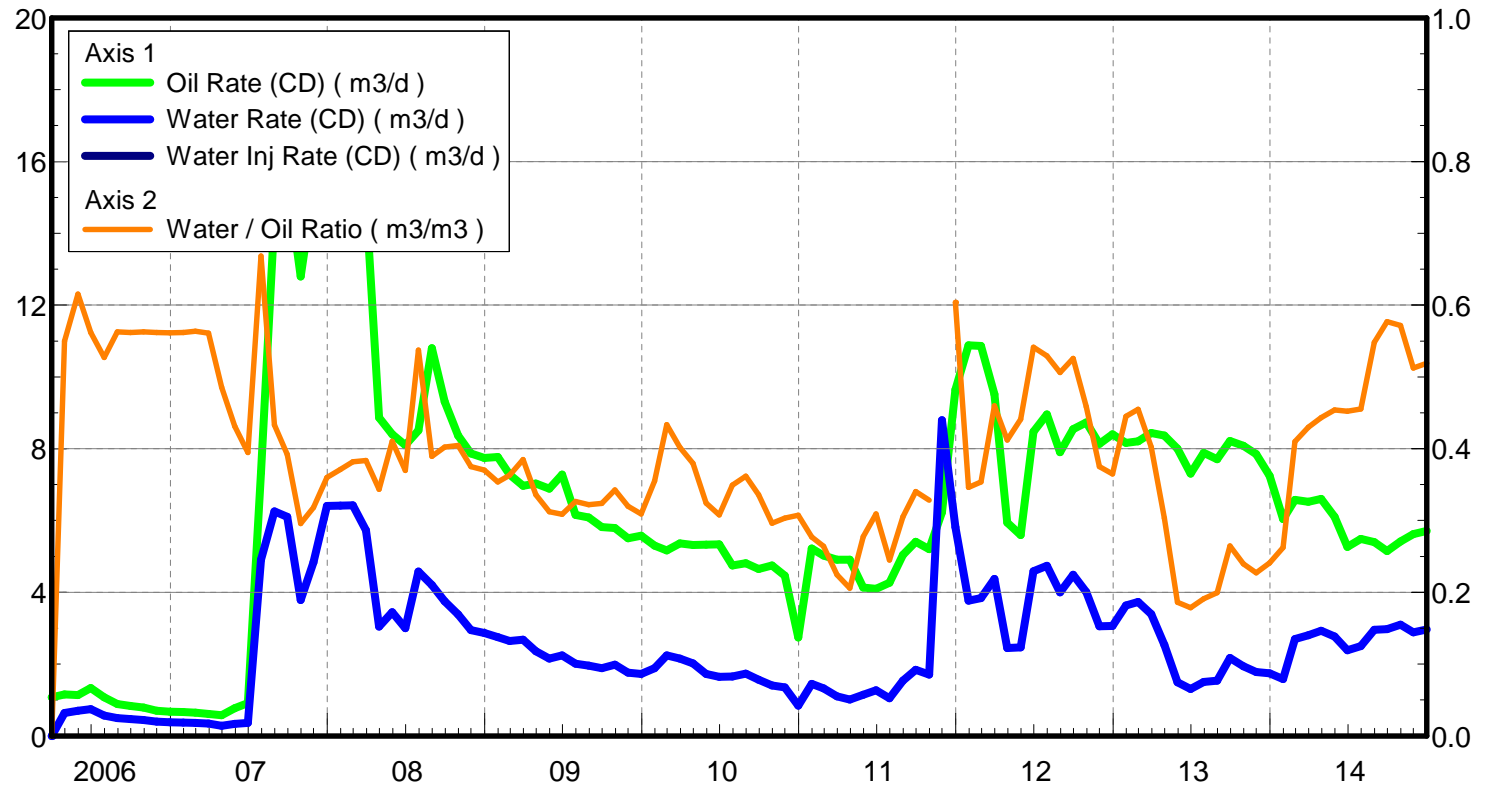
Water / Oil Ratio : 0.52 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 5.71 m3/d

Water Rate (CD) : 2.97 m3/d

Water Inj Rate (CD) : * m3/d



Pattern: 02/08-30-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

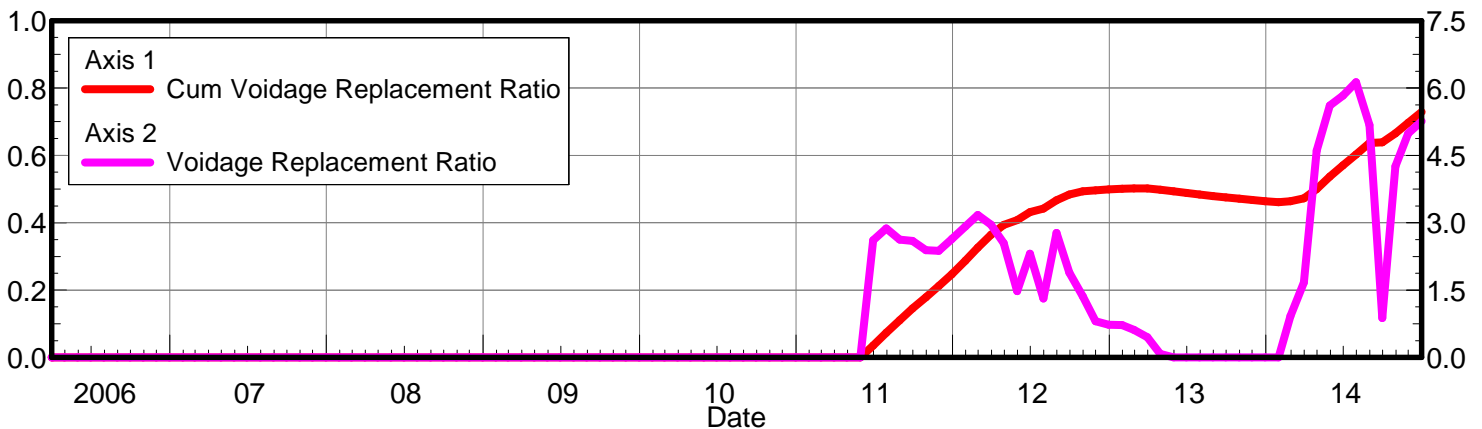
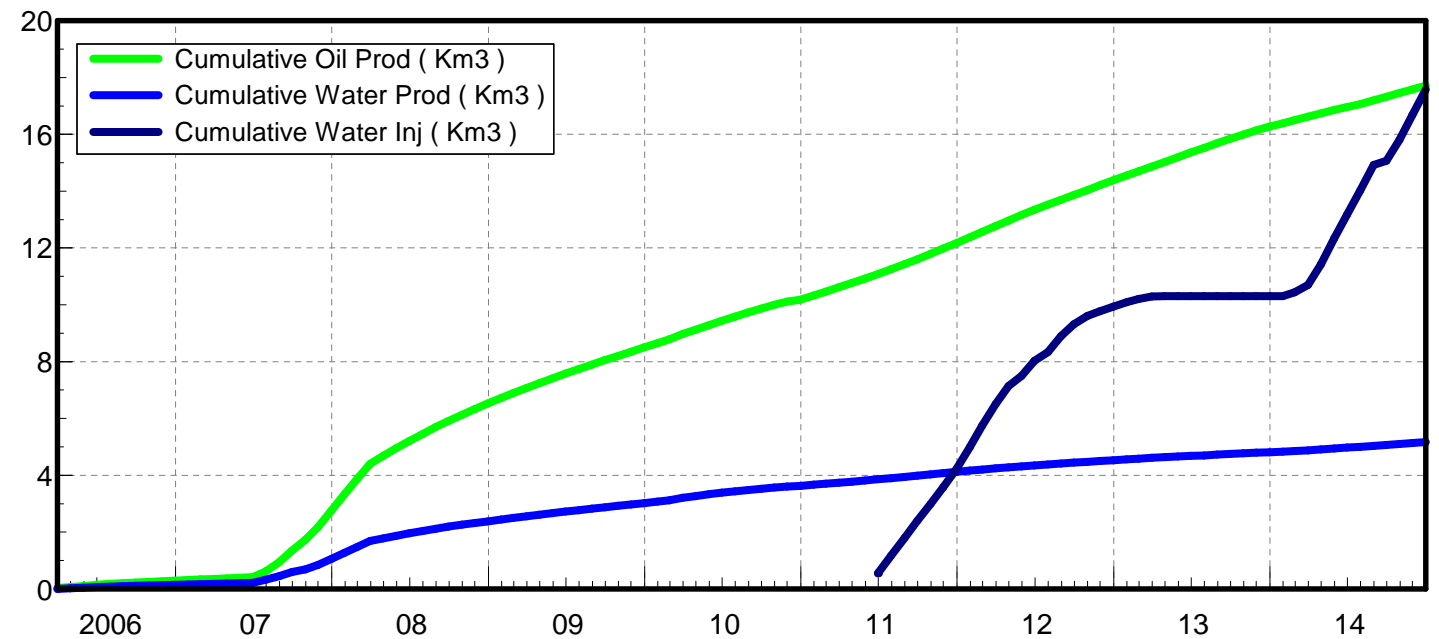
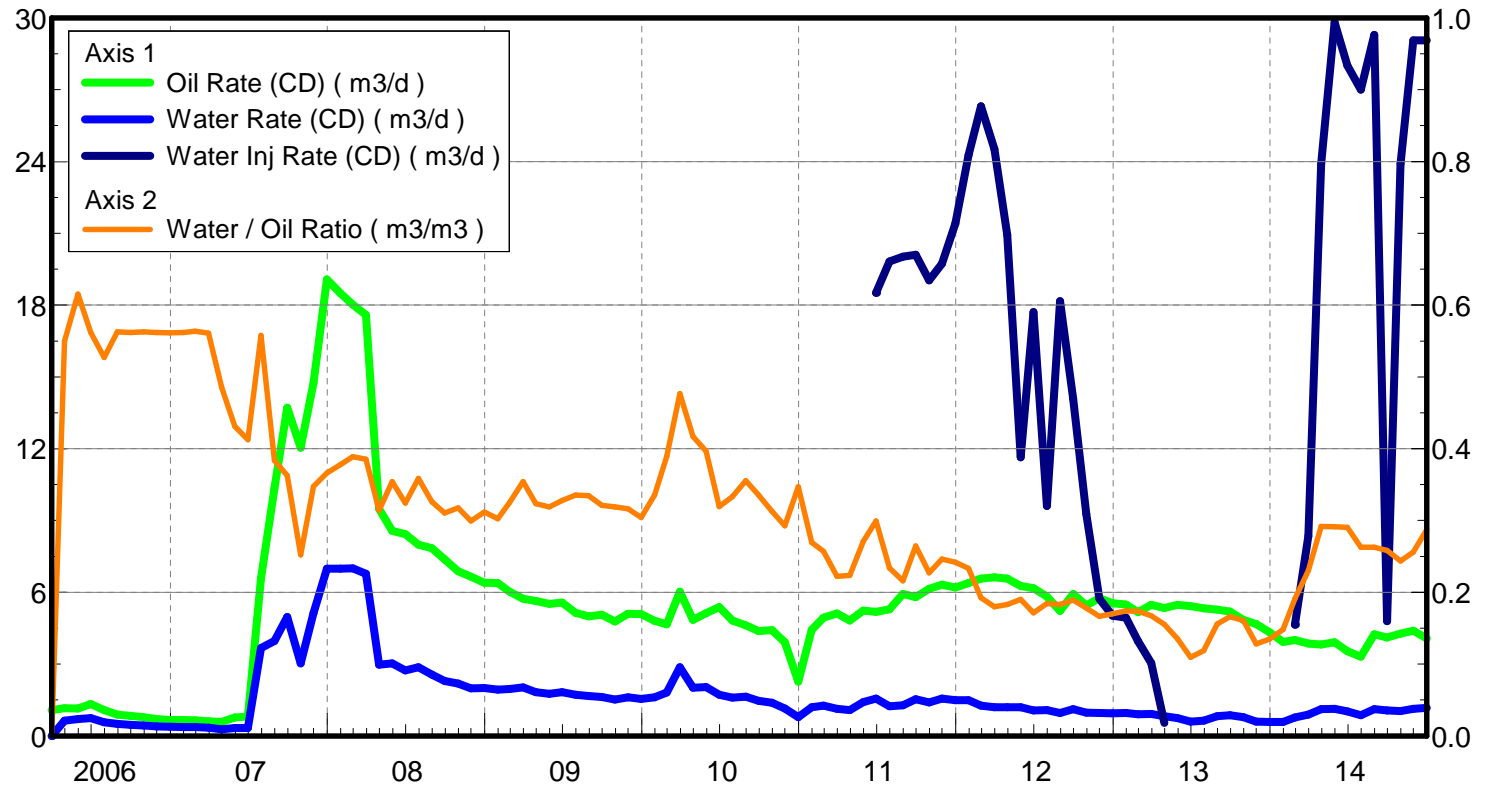
Water / Oil Ratio : 0.29 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 4.07 m3/d

Water Rate (CD) : 1.17 m3/d

Water Inj Rate (CD) : 29.06 m3/d



Pattern: 02/09-30-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 1.21 m3/m3

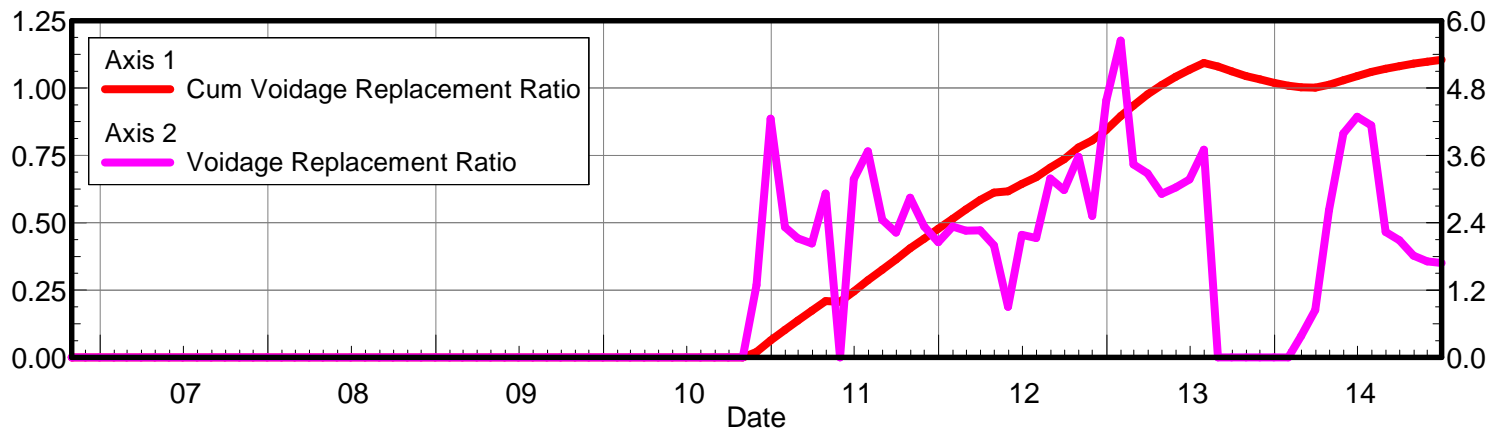
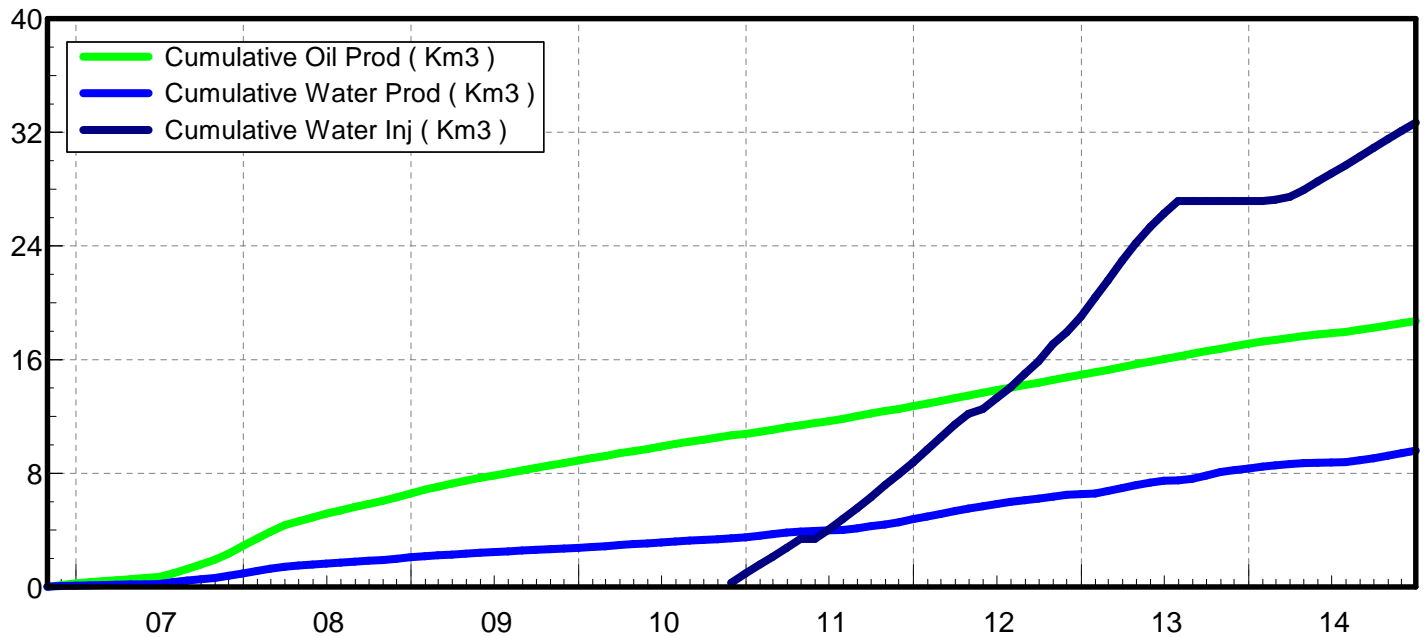
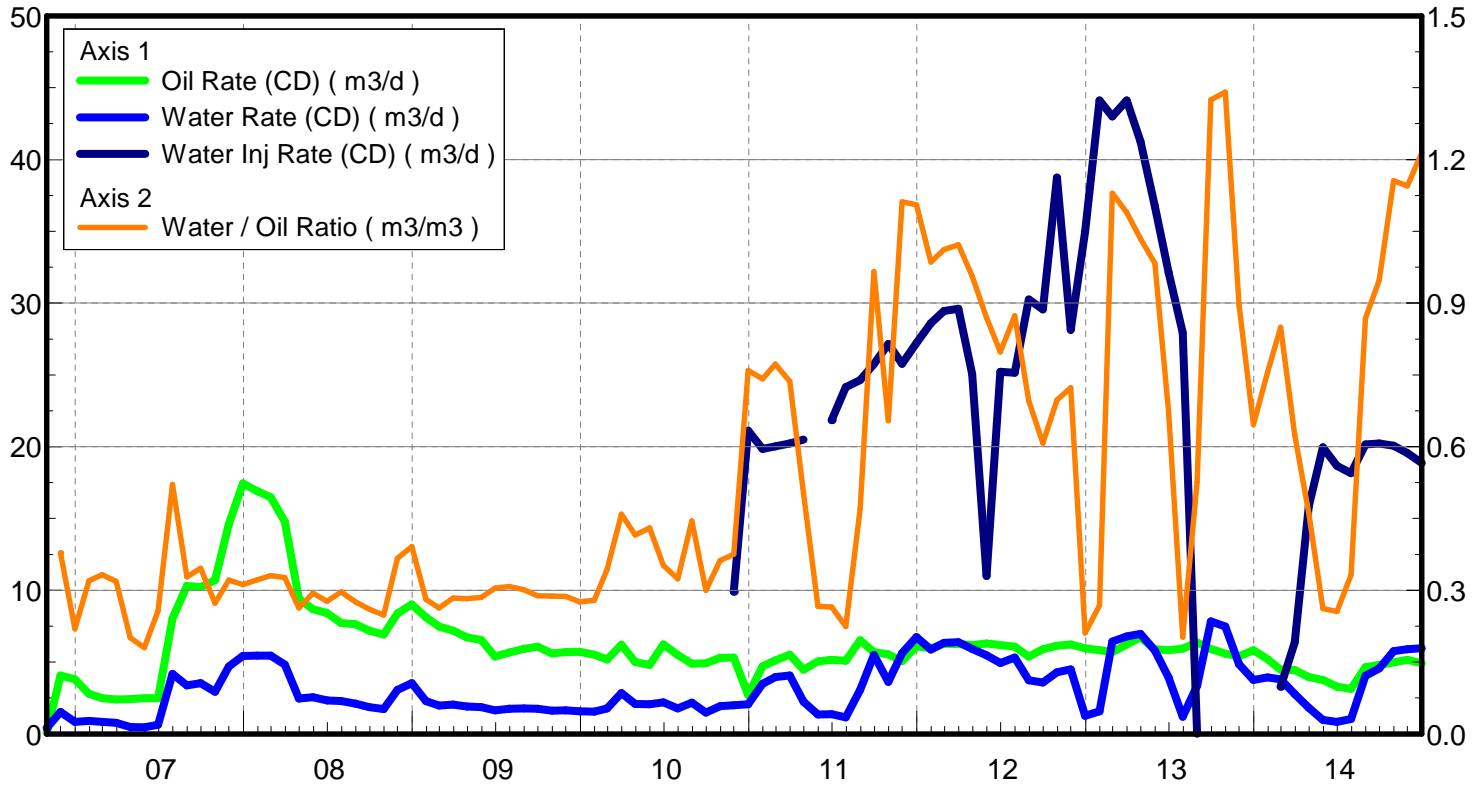
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 4.92 m3/d

Water Rate (CD) : 5.97 m3/d

Water Inj Rate (CD) : 18.87 m3/d



Pattern: 03/14-30-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.40 m3/m3

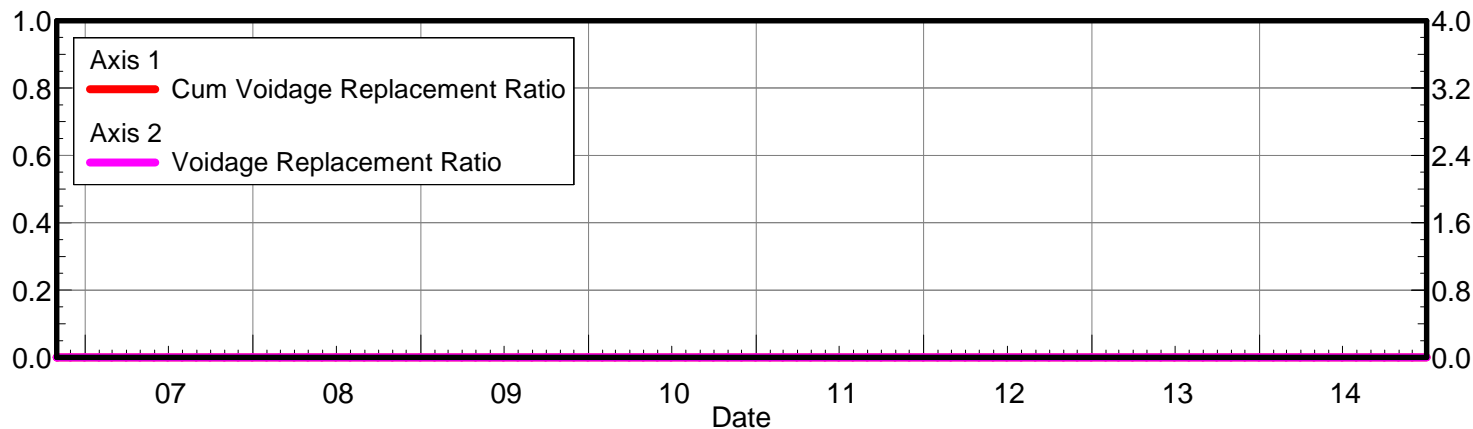
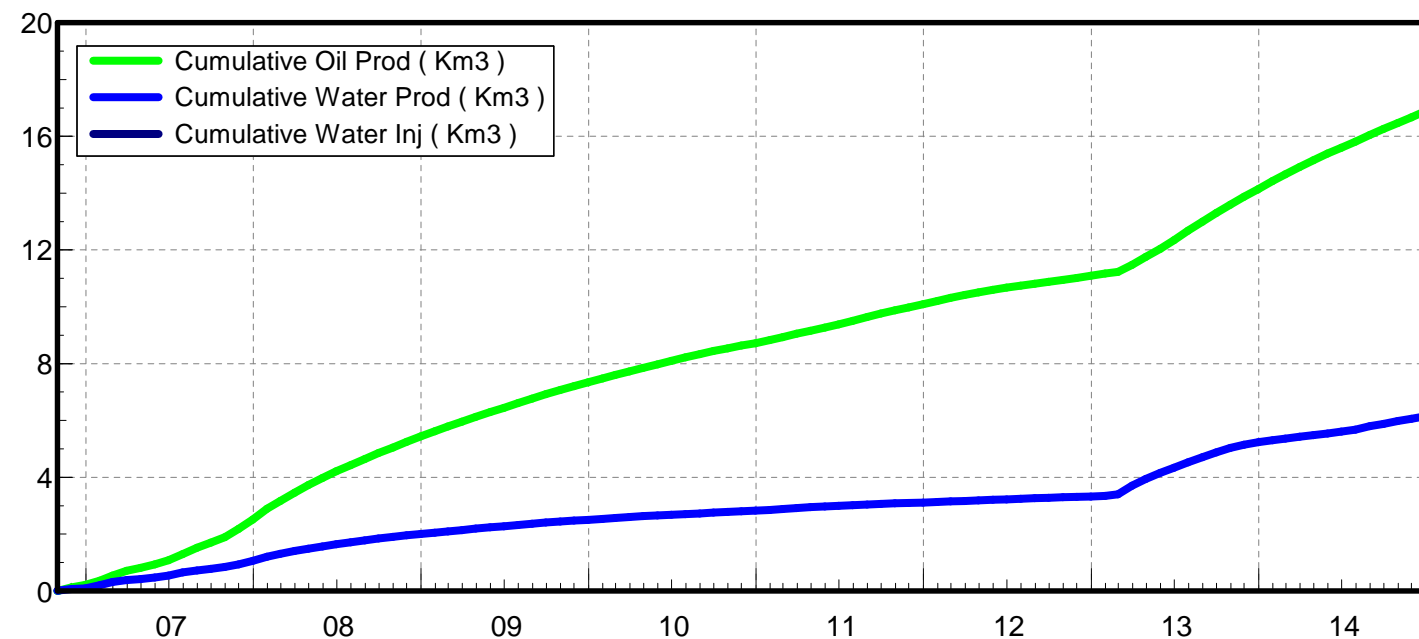
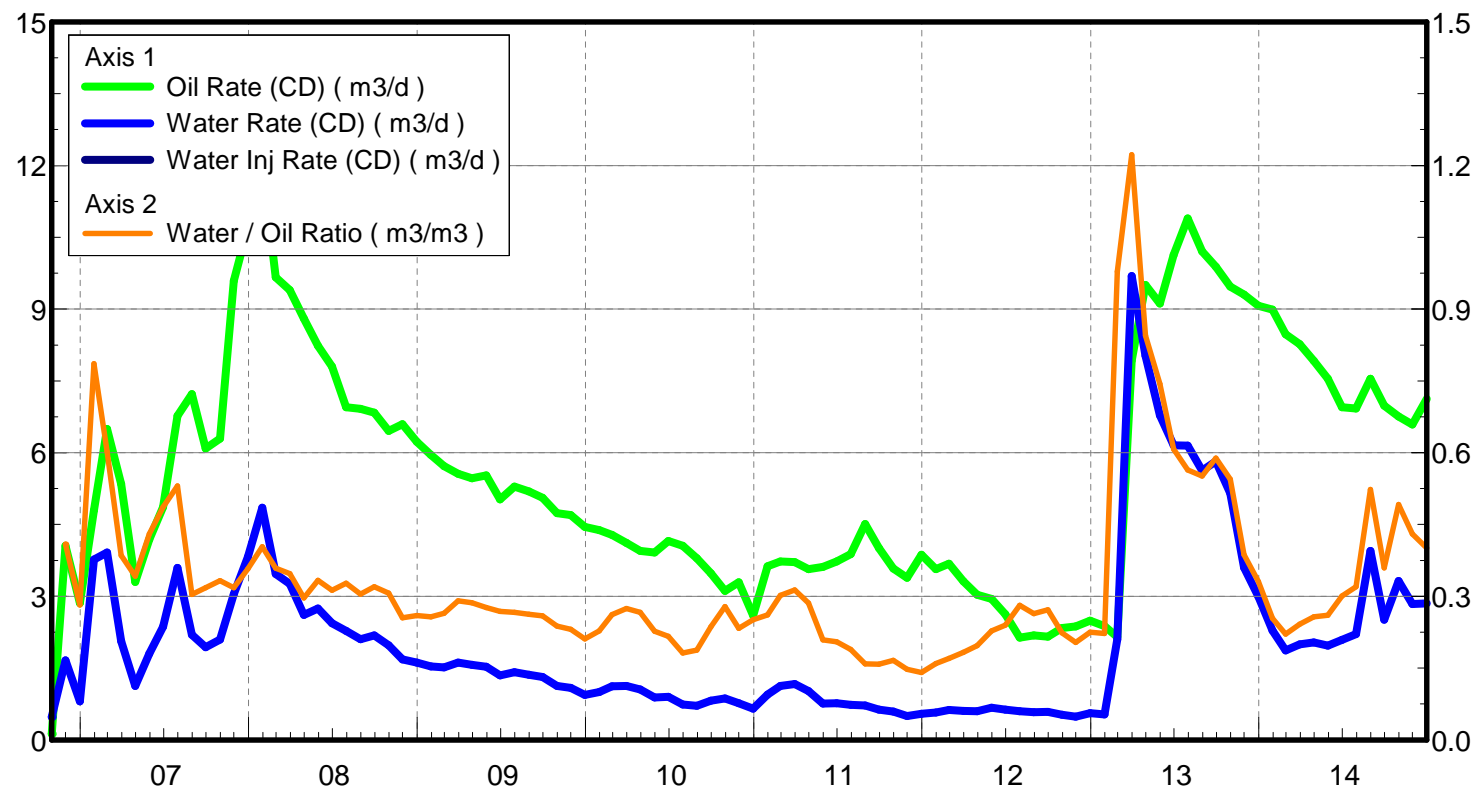
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 7.12 m3/d

Water Rate (CD) : 2.85 m3/d

Water Inj Rate (CD) : * m3/d



Pattern: 02/16-30-007-28Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 1.79 m3/m3

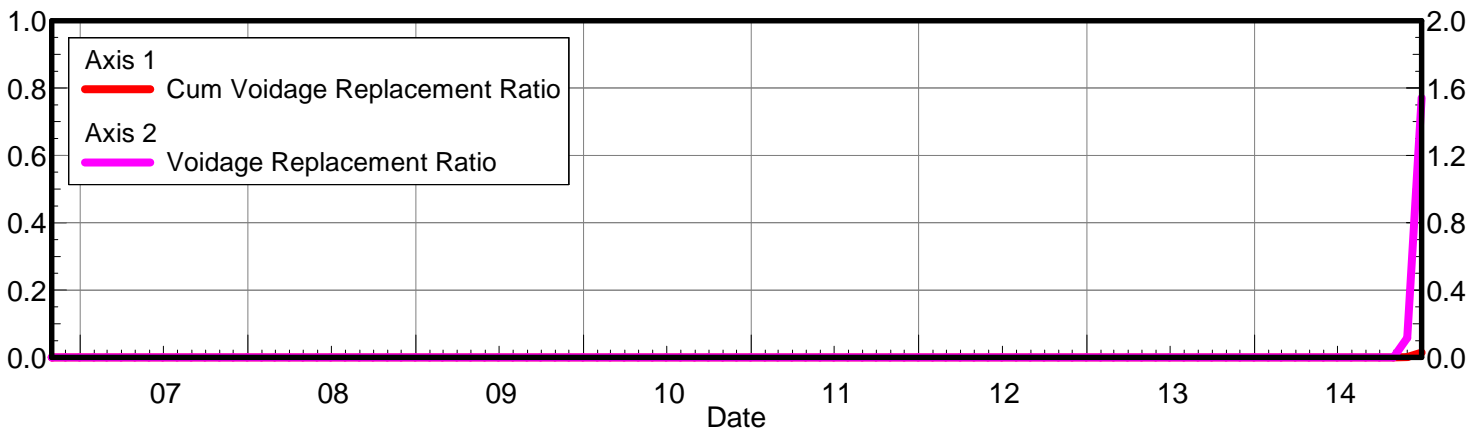
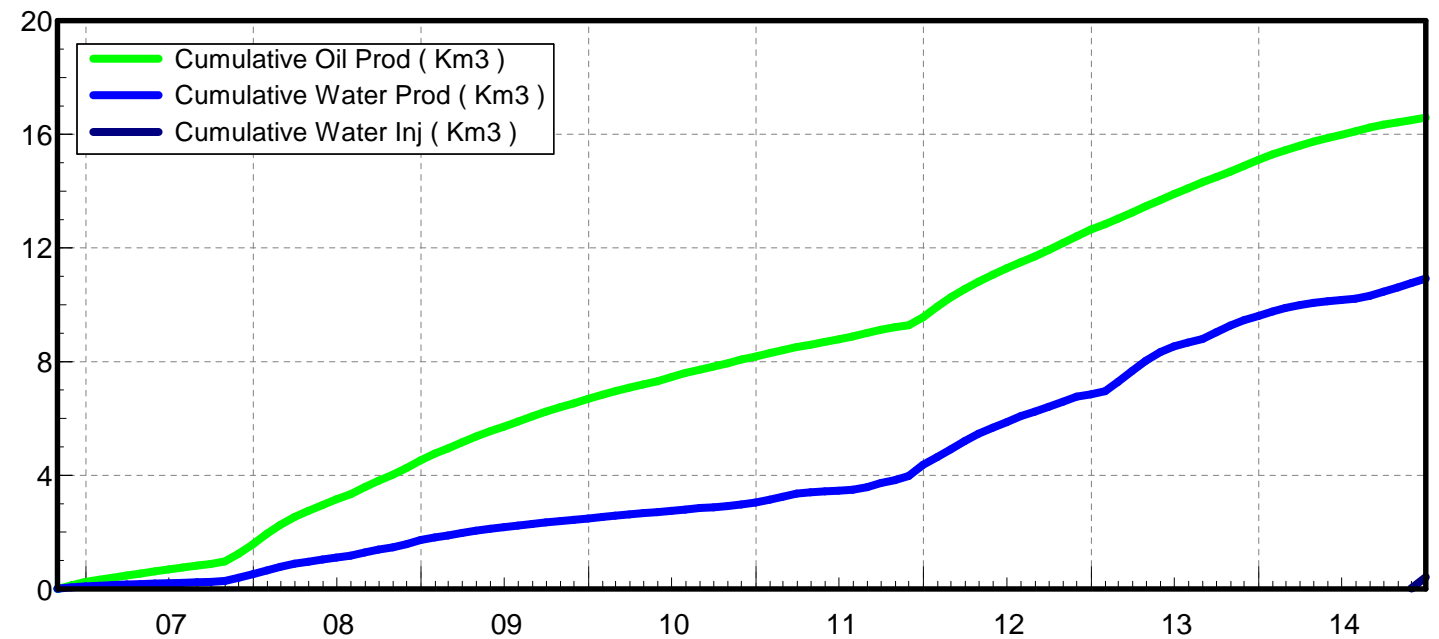
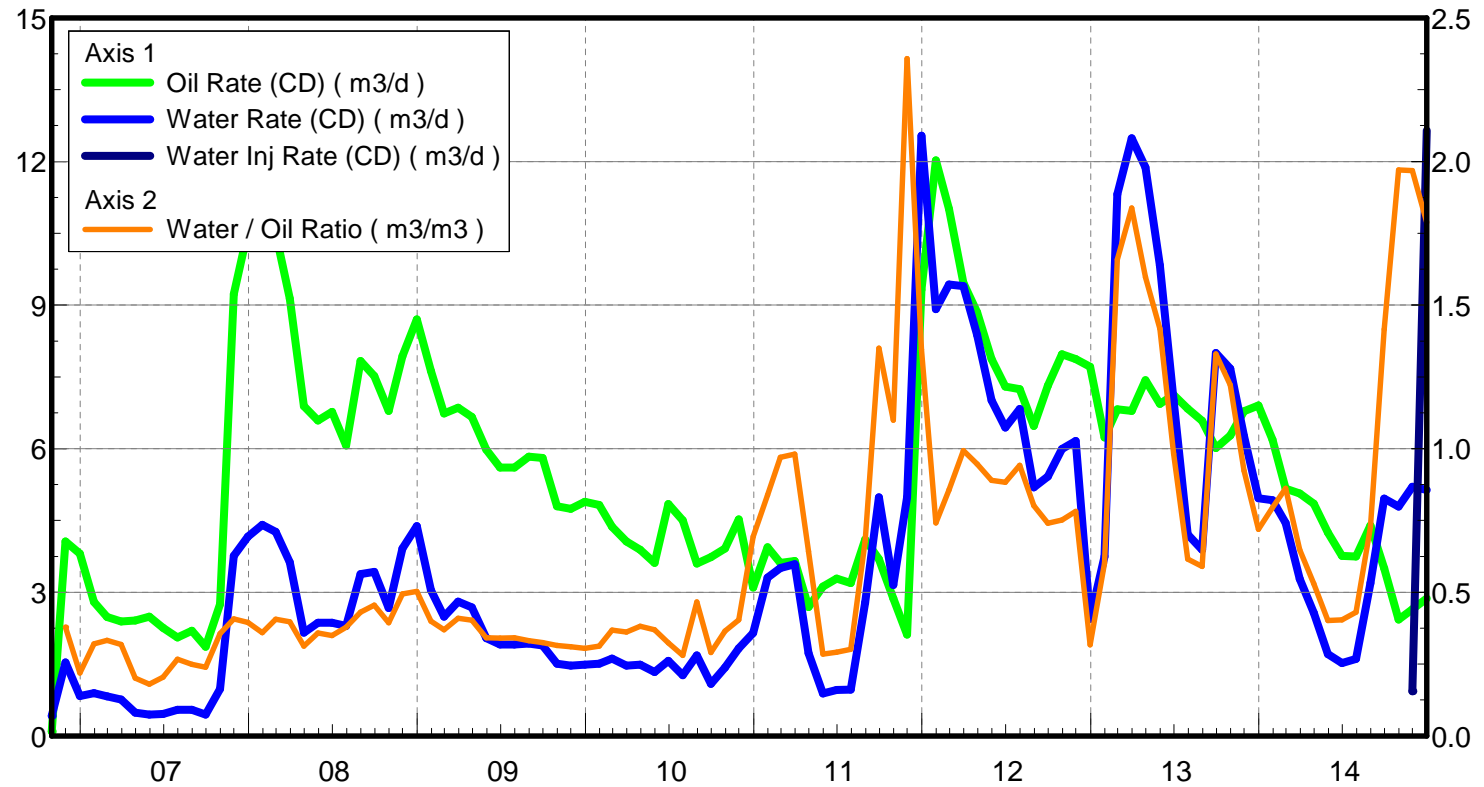
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 2.87 m3/d

Water Rate (CD) : 5.14 m3/d

Water Inj Rate (CD) : 12.65 m3/d



Pattern: 02/15-13-007-29Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

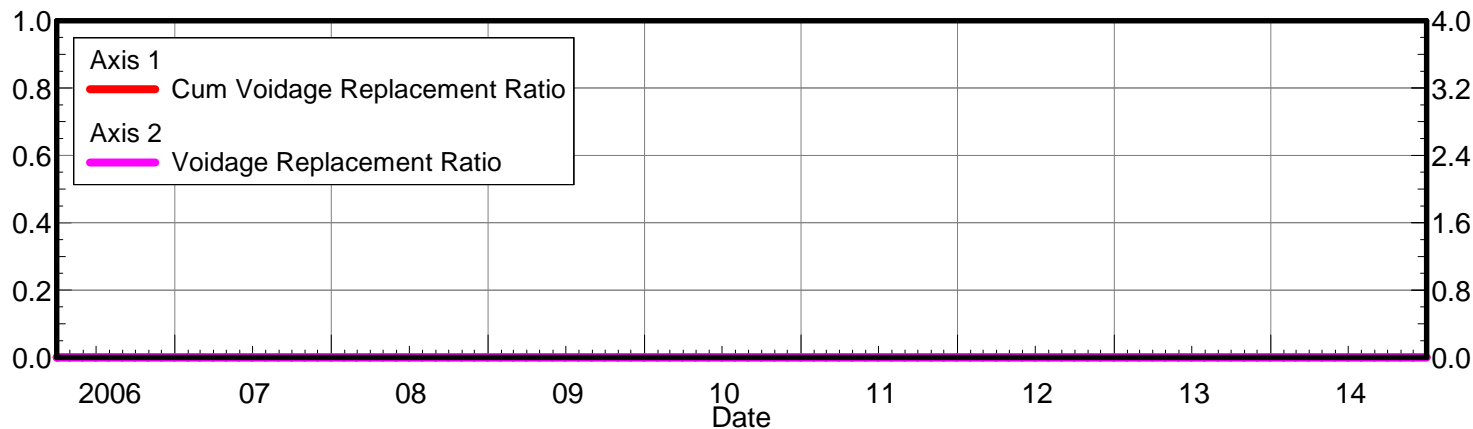
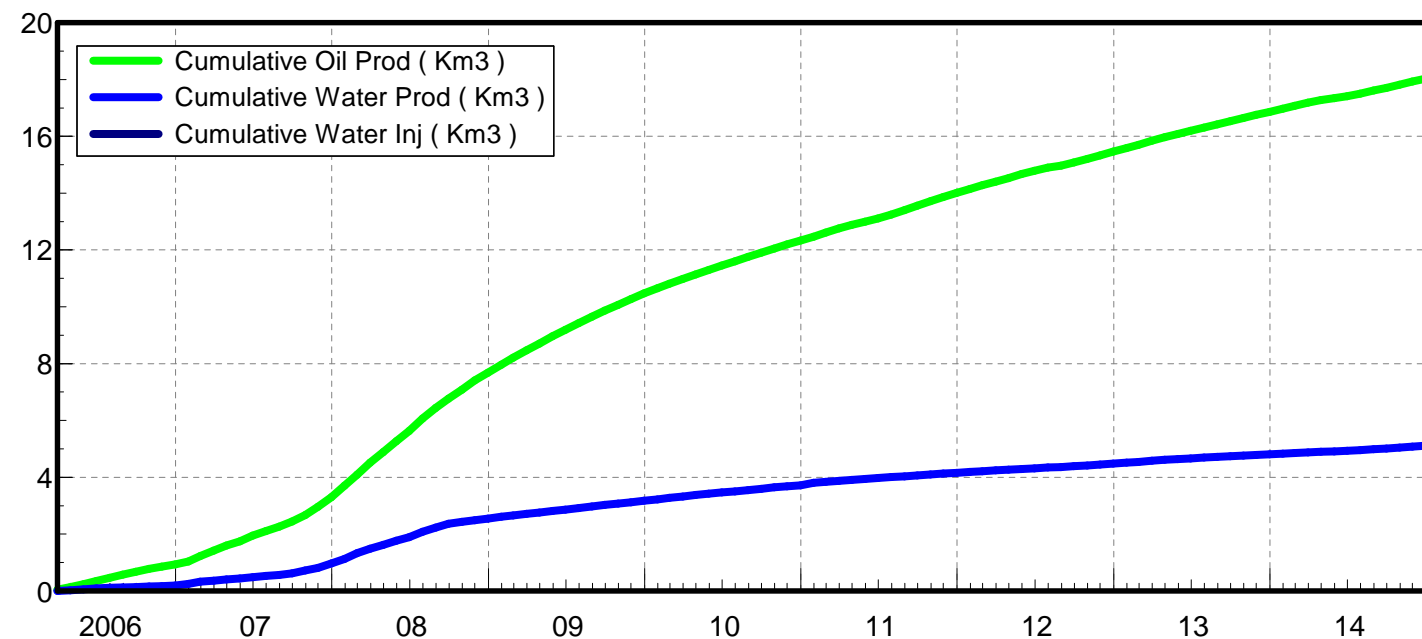
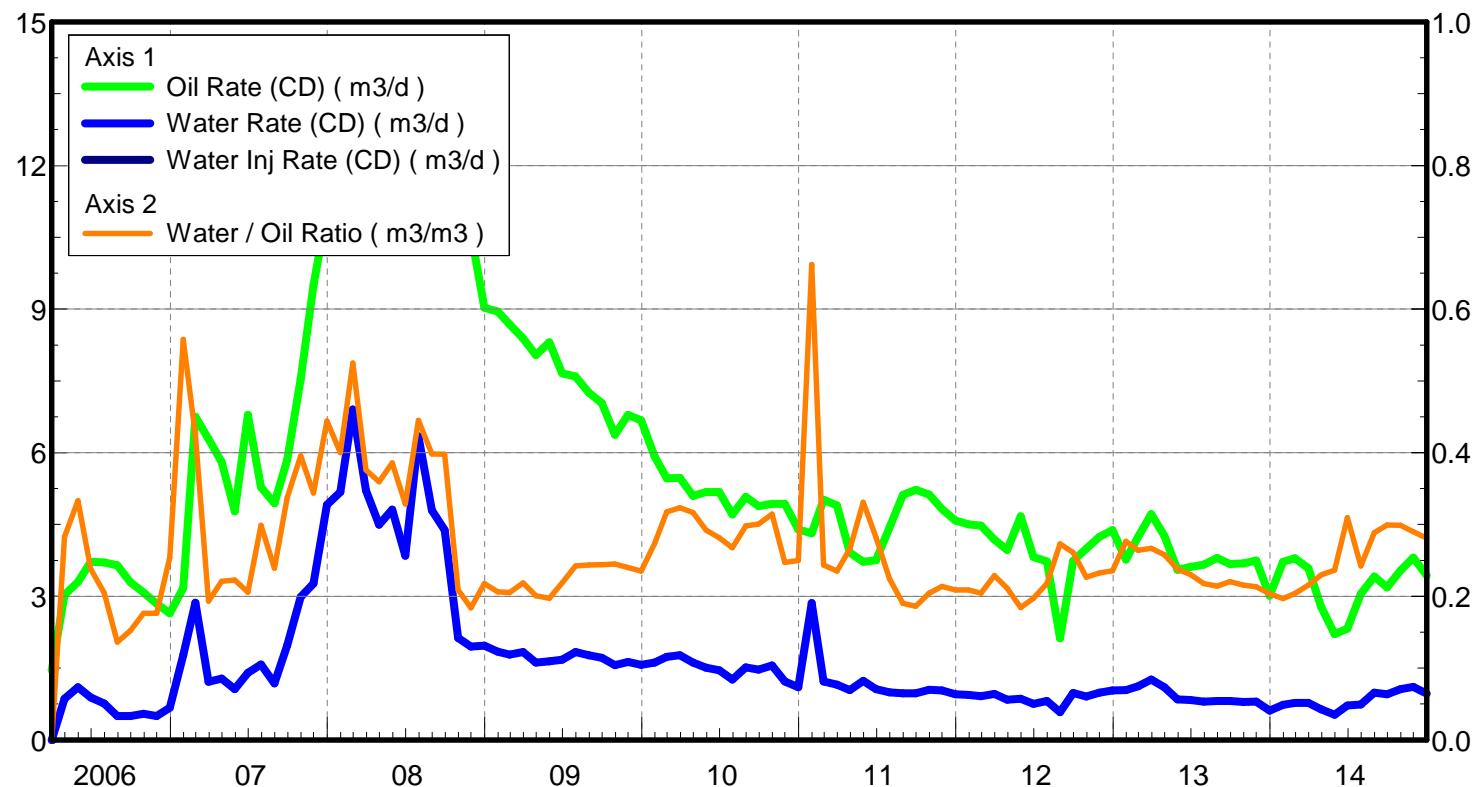
Water / Oil Ratio : 0.28 m3/m3

April 03, 2015
Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 3.43 m3/d

Water Rate (CD) : 0.96 m3/d

Water Inj Rate (CD) : * m3/d



Pattern: 02/12-24-007-29Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 1.30 m3/m3

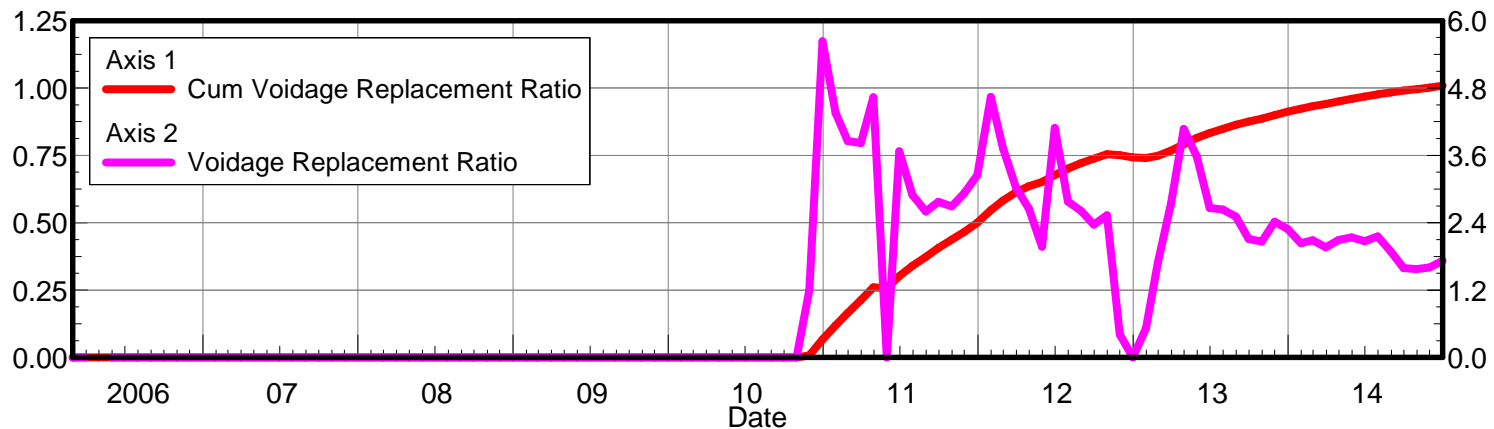
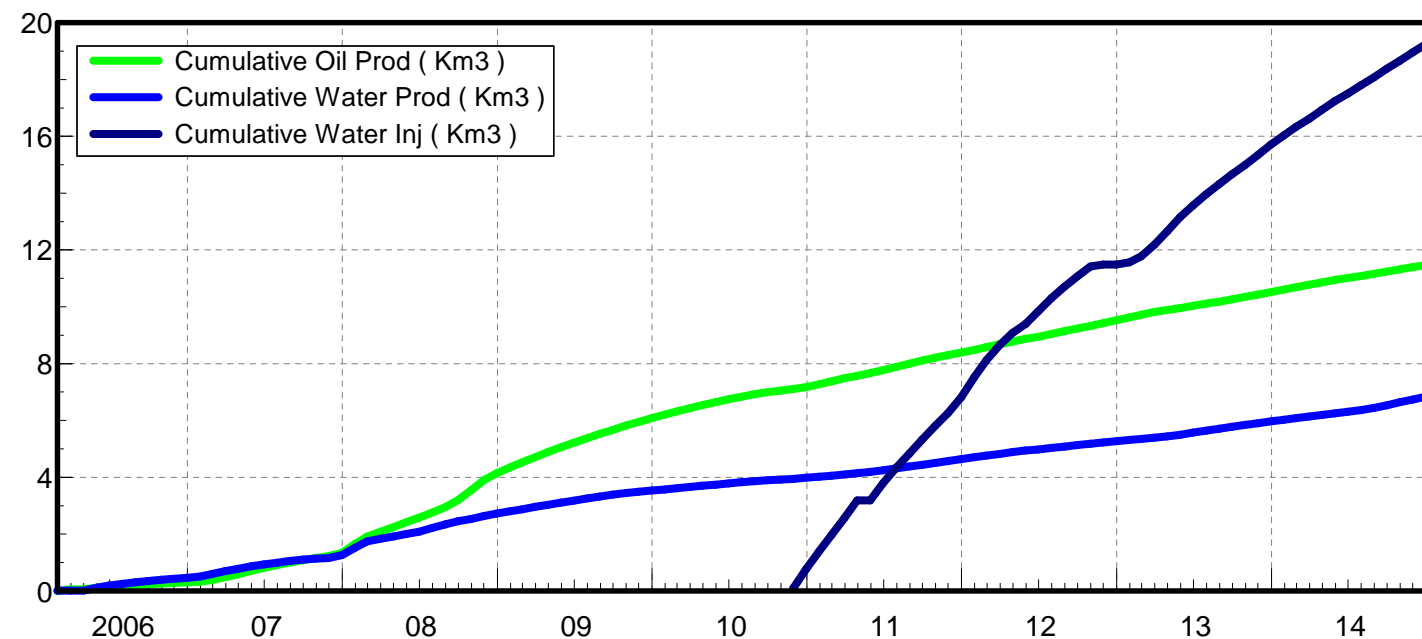
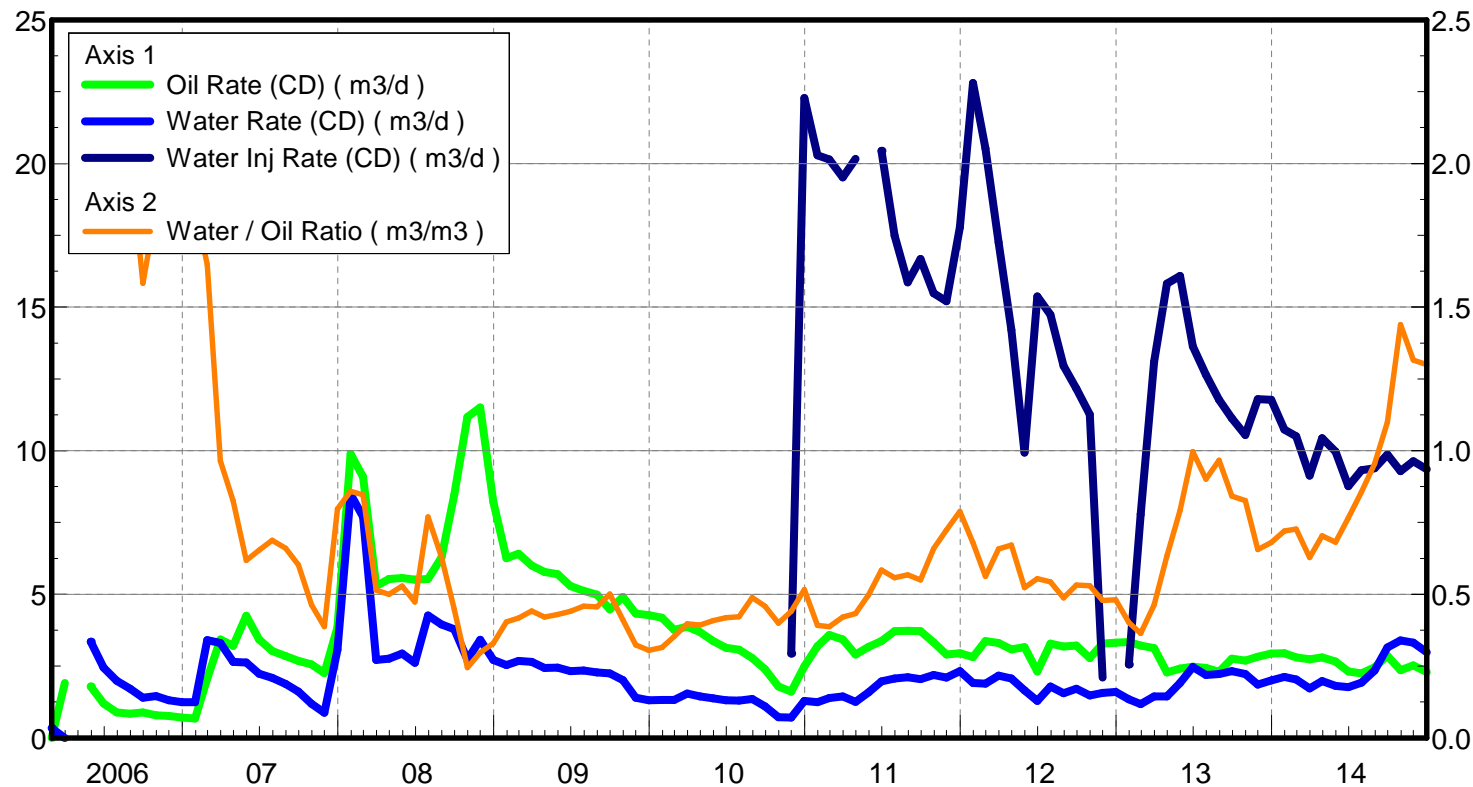
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 2.29 m3/d

Water Rate (CD) : 2.98 m3/d

Water Inj Rate (CD) : 9.35 m3/d



Pattern: 02/04-25-007-29Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.67 m3/m3

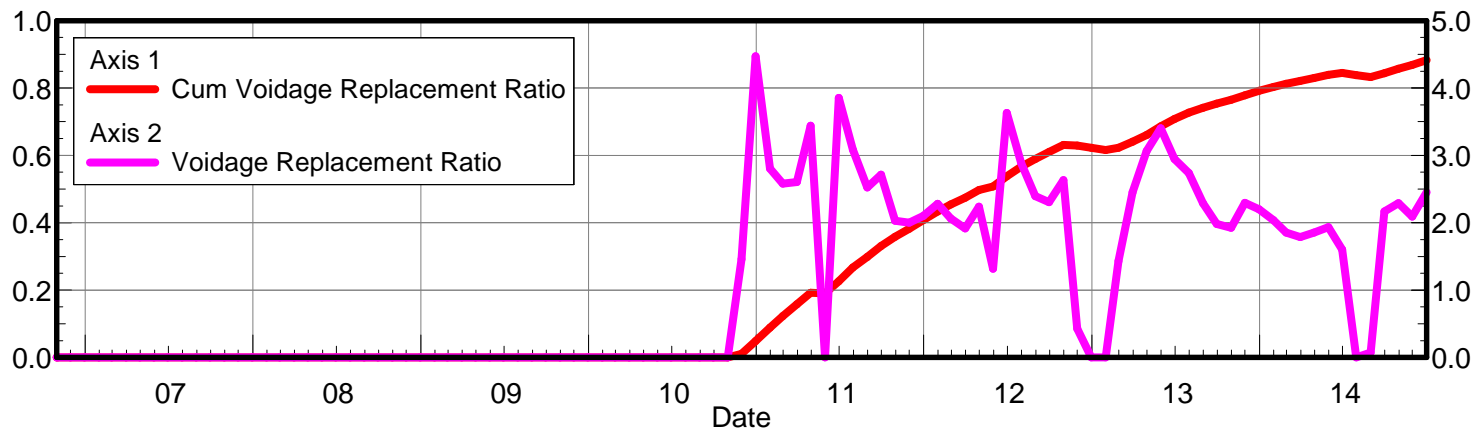
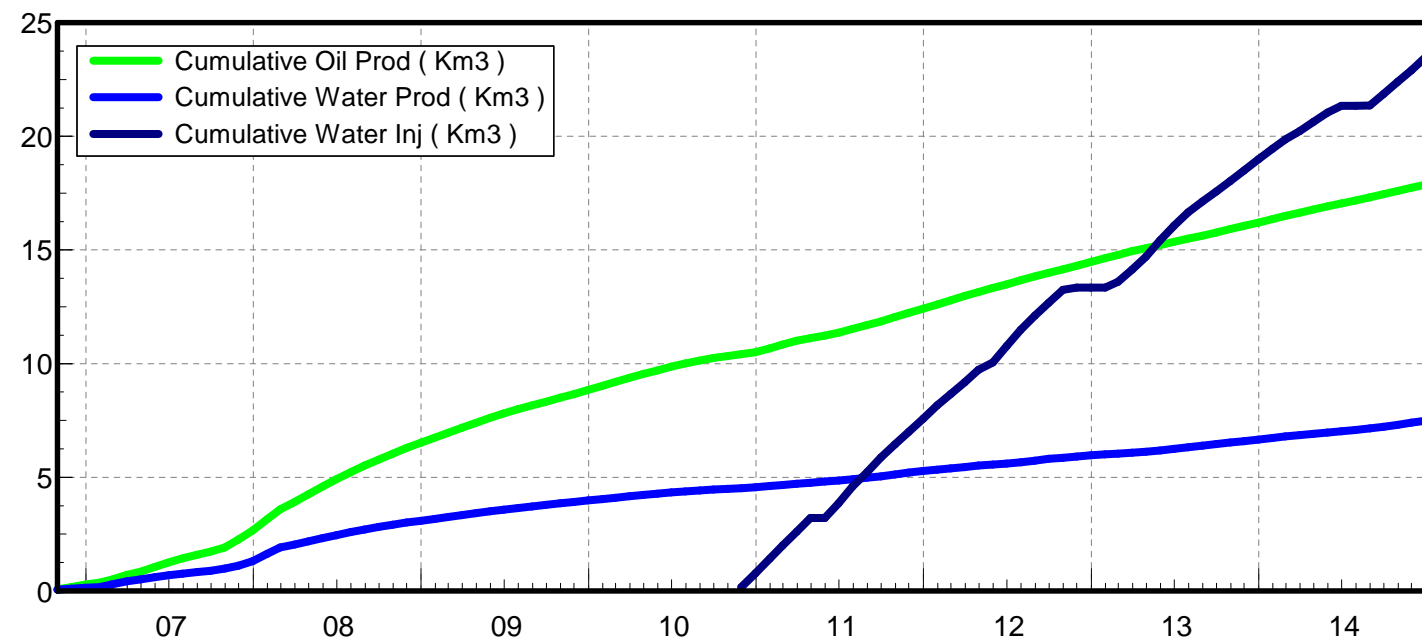
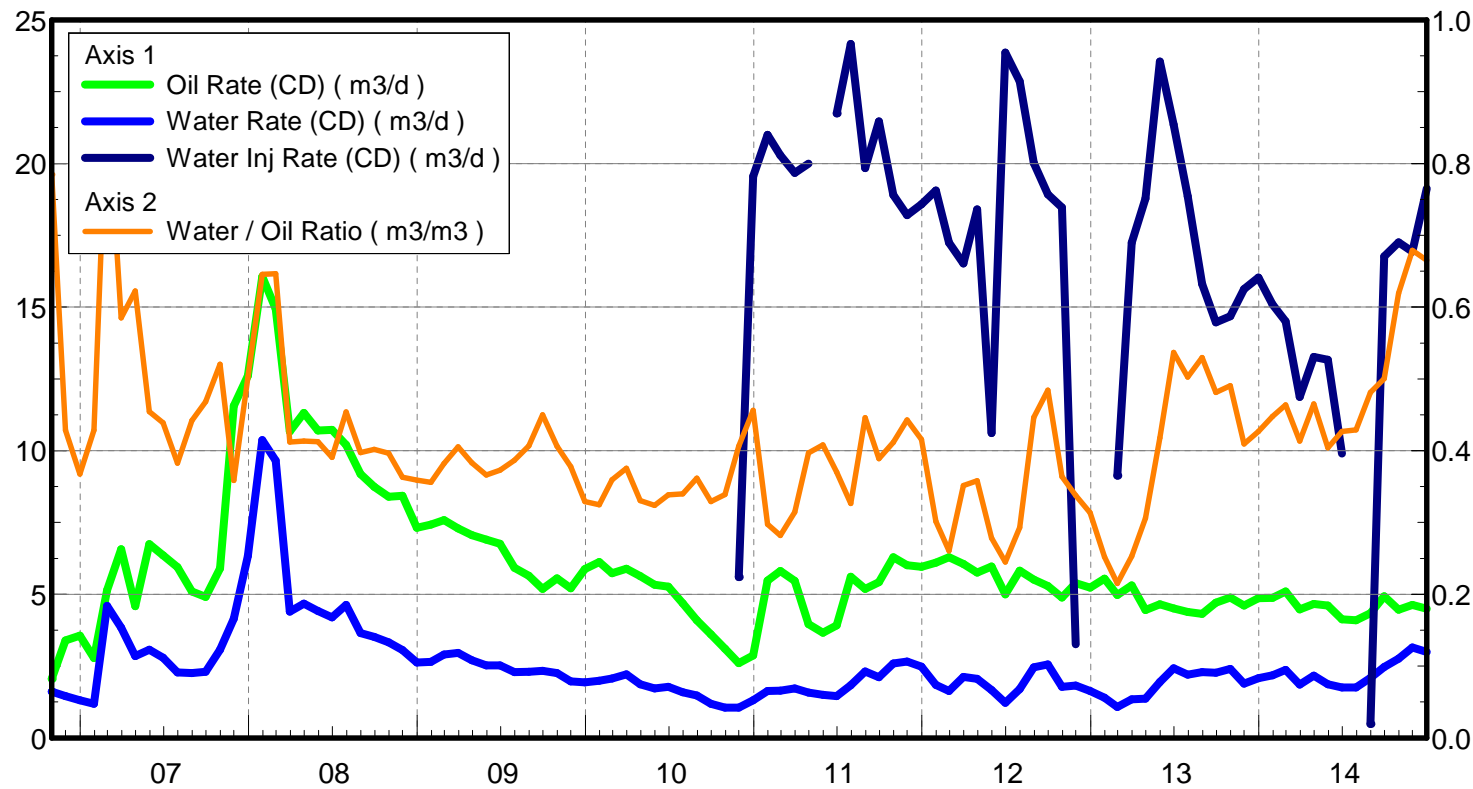
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 4.50 m3/d

Water Rate (CD) : 2.99 m3/d

Water Inj Rate (CD) : 19.13 m3/d



Pattern: 04/08-25-007-29Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 1.03 m3/m3

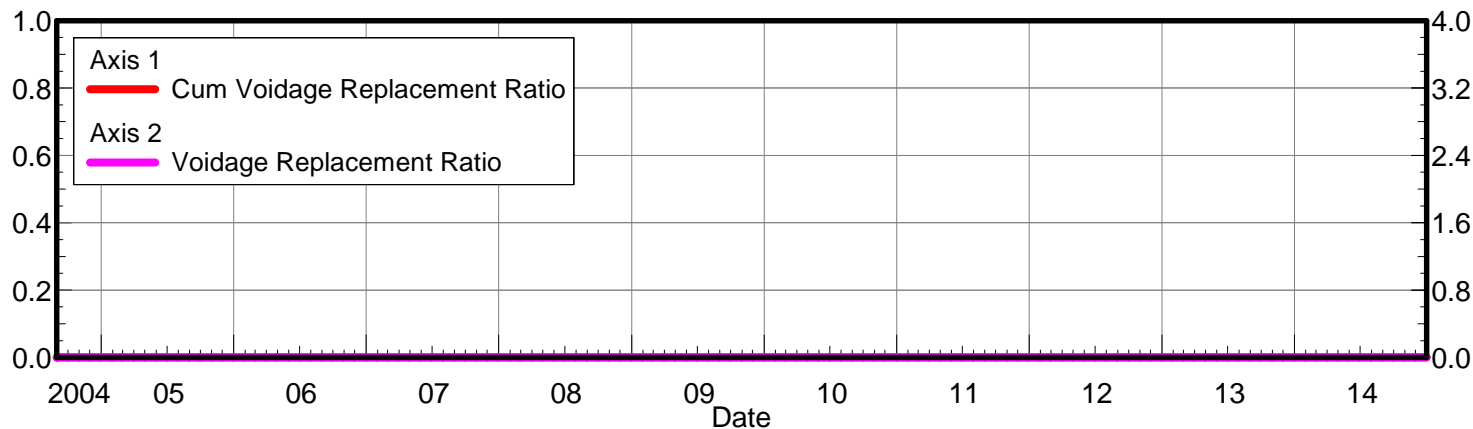
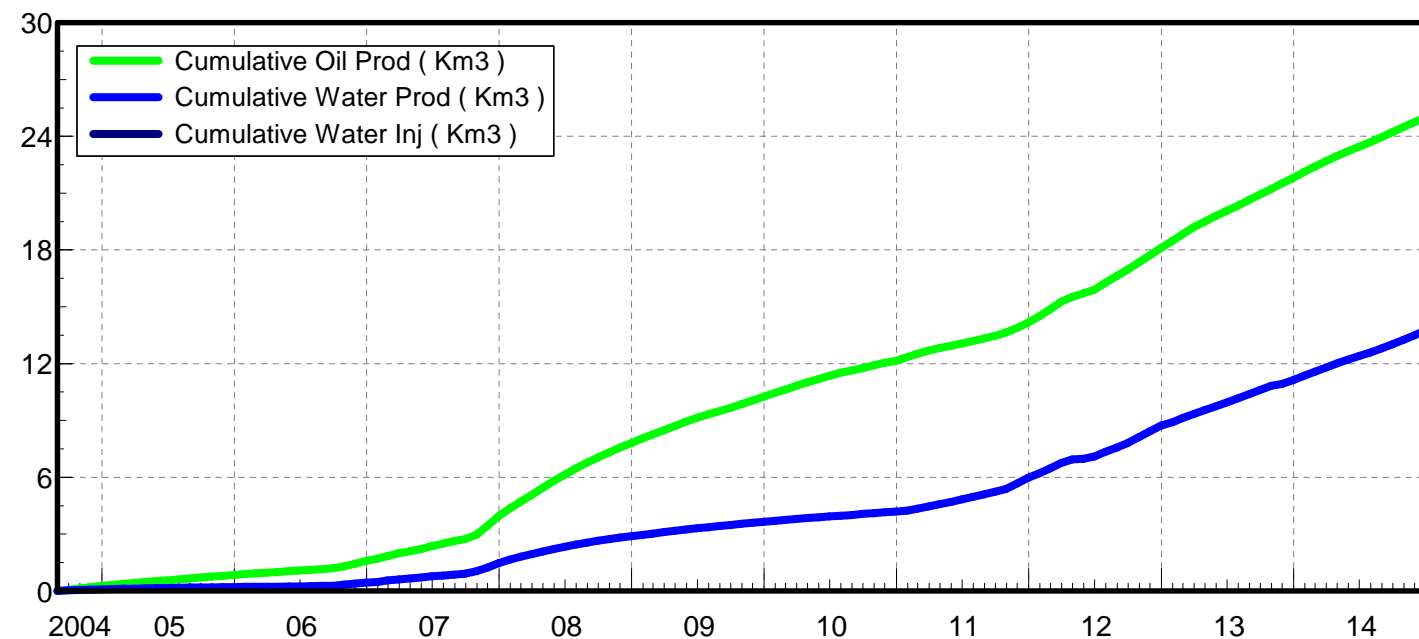
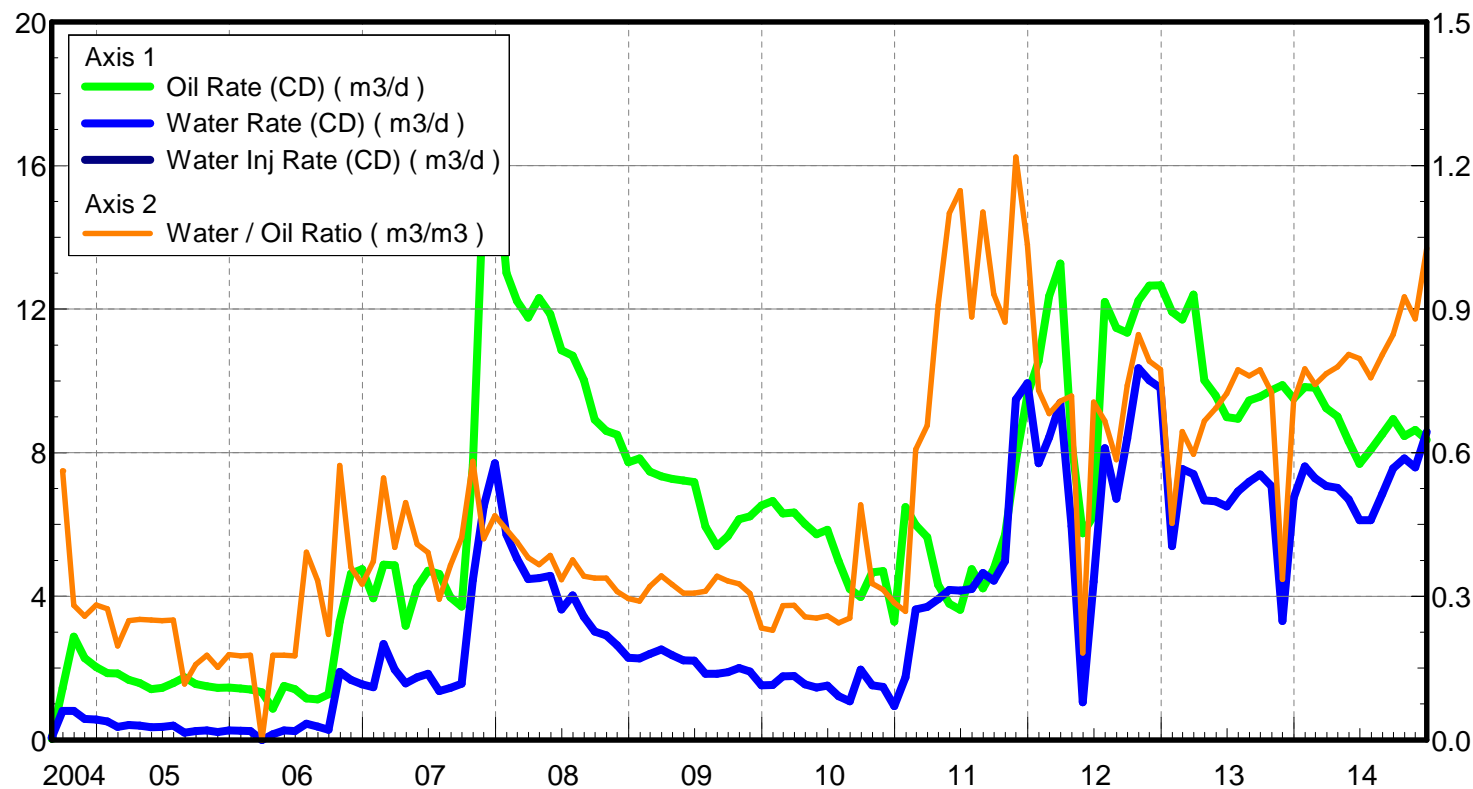
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 8.35 m3/d

Water Rate (CD) : 8.58 m3/d

Water Inj Rate (CD) : * m3/d



Pattern: 02/12-25-007-29Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 1.99 m3/m3

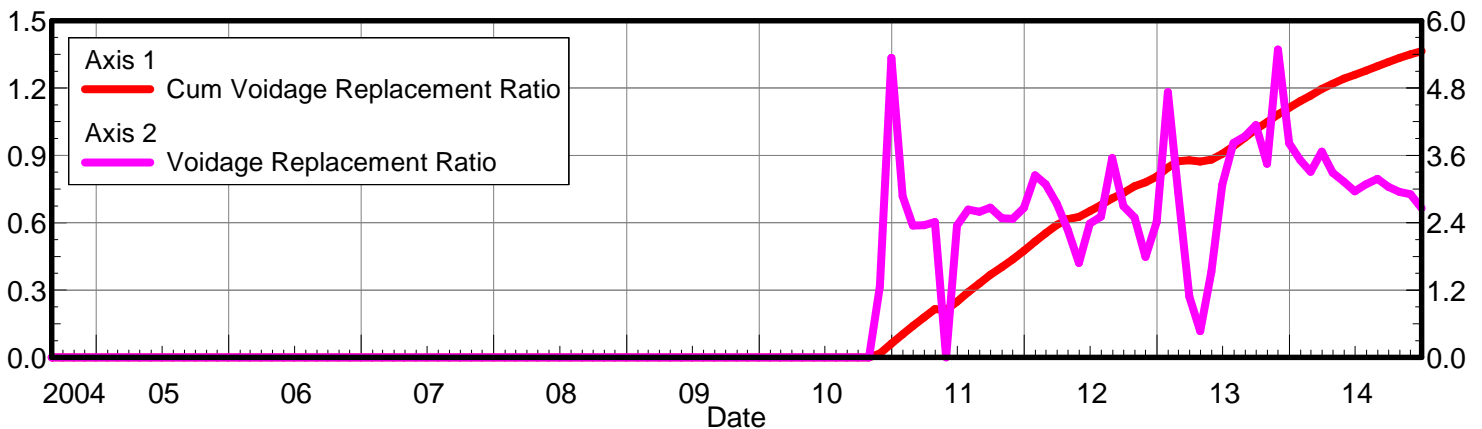
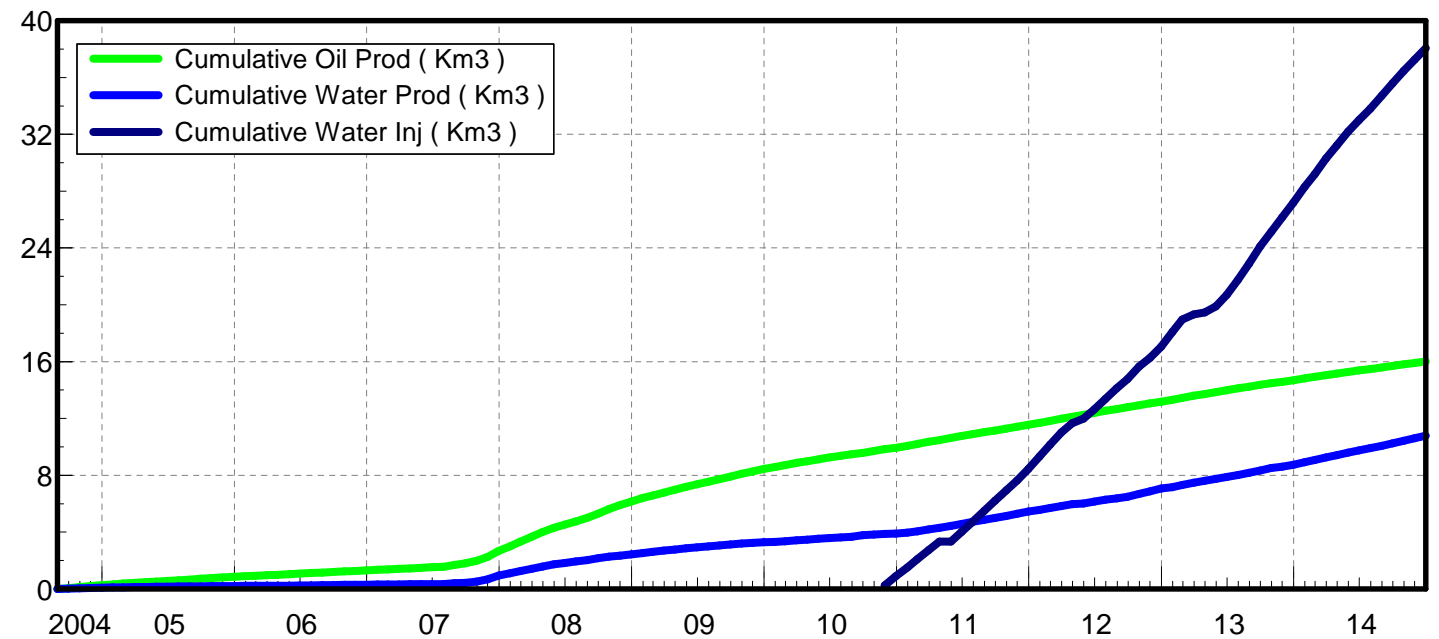
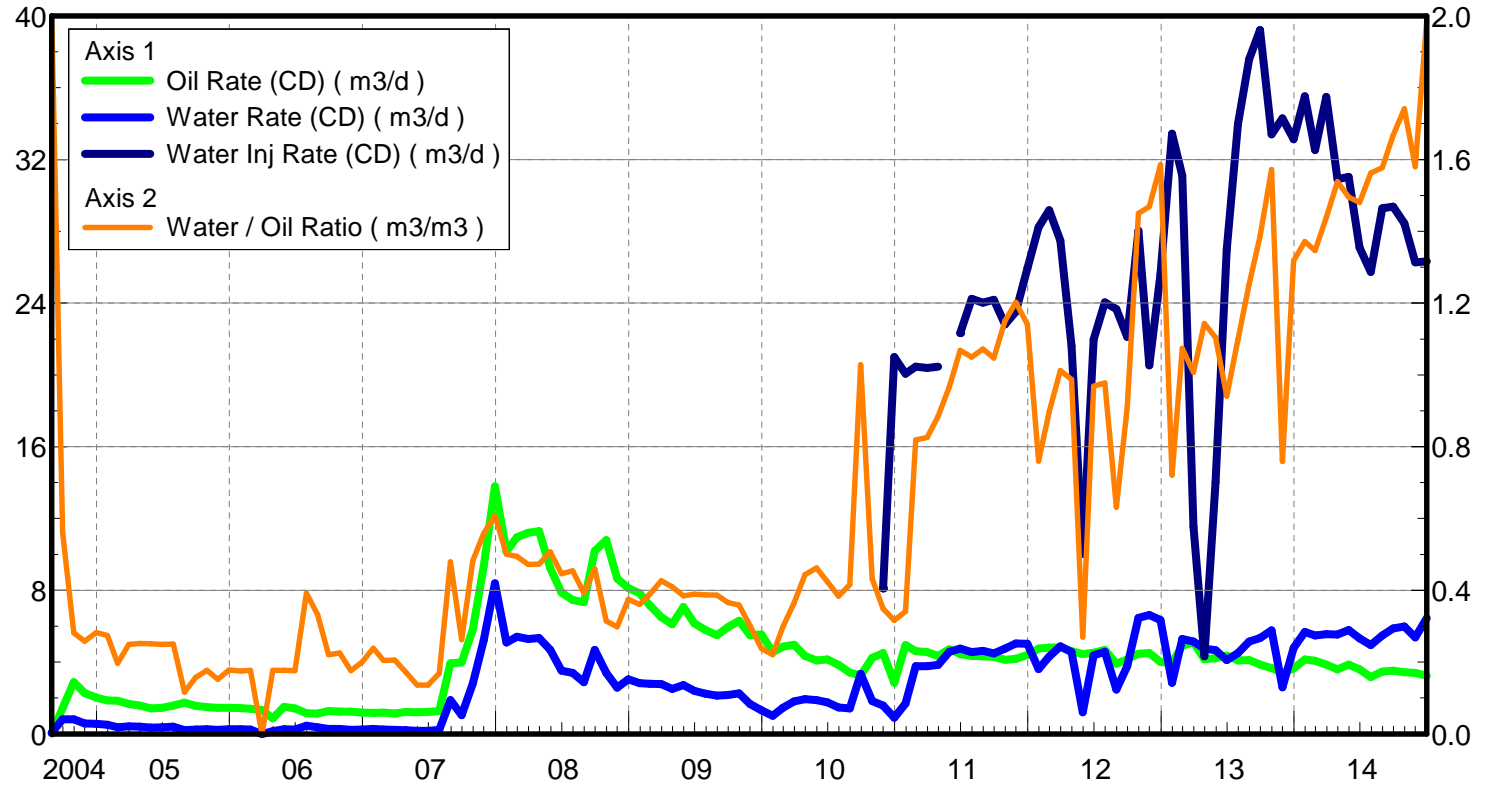
April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 3.24 m3/d

Water Rate (CD) : 6.45 m3/d

Water Inj Rate (CD) : 26.32 m3/d



Pattern: 03/12-25-007-29Inj Set: Unit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.47 m3/m3

April 03, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 3.71 m3/d

Water Rate (CD) : 1.73 m3/d

Water Inj Rate (CD) : 11.74 m3/d

