

VIRDEN ROSELEA UNIT No. 2
PROGRESS REPORT
January 1 to December 31, 2010

Enerplus Corporation
Manitoba Team
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	Production, Injection Data and VRR for Patterns

Introduction

Virден Roselea Unit No. 2 became effective July, 1966. This report summarizes the operations of the Unit for the period from January 1 to December 31, 2010 and discusses the performance of the Project to date. The area map of the Virден Roselea Unit No. 2 is shown in Figure 1.

Discussion

Oil Production

In 2010, oil production rate for the Unit averaged 26.1 m³/d with a WOR of 23.9 m³/ m³. In comparison, the average oil production rate for 2009 was 28.0 m³/d with a WOR of 22.0 m³/m³. The decrease in oil production is partly the result of increasing water cut and partly due to shut-in of some producers due to inadequate water handling capacity. No new wells were drilled during the year. A list of well servicing jobs in 2010 is shown in Table 1.

Total oil production in 2010 is 9,524 m³. Cumulative oil production since commencement of production is 1,125.7 E3m³. Details of the production data are shown in Table 4 as well as graphically in the attached figures.

Water Injection

Average water injection rate for the Unit in 2010 was 623 m³/d, a slight increase from the 2009 average rate of 616 m³/d. There were no injection conversions during the year.

Cumulative water injected to December 31, 2010 is 20,445 E3m³. Details of the water injection data are also shown in Table 4 as well as the attached figures.

Voidage

The total project voidage during 2010 was 237.2 E3m³, resulting in the voidage replacement ratio (VRR) of 0.958. It should be noted that there is some communication between Roselea Unit 2 and Roselea Unit 1 to the South in the area of Section 36-010-26 W1. The VRR calculation does not account for any water influx or efflux through this communication path and a no-flow boundary is assumed between the two Units.

Cumulative total voidage from commencement of production to December 31, 2010 is 10,372 E3m³ and the cumulative VRR is 1.12. Oil formation volume factor used in calculations is 1.05 m³/stm³. Detailed voidage calculations are shown in Table 4.

Reservoir Pressure

In 2010, reservoir pressure has been recorded in 2 wells. Both of the pressure tests were AWS (Acoustic Well Sounder) measurements and the BH pressure results were consistent.

Based on the available pressure tests, the average reservoir pressure in the Unit in 2010 is 8487 kPa. A summary of the pressure data is given in Table 2.

Recovery

Based on the current estimated OOIP of 31,768 E³m³, current recovery factor is 17.5% .

Waterflood Patterns

The Virden Roselea Unit No. 2 waterflood area was originally developed over the years, 1962 to 1971, mainly as inverted 5-spot and 8-spot patterns, which are still considered to be the waterflood patterns over a large area in the Unit. The exception is the pattern around the injector 00/04-08-011-25W1 that was initiated in October 1966 as an inverted 3-spot pattern. The current waterflood patterns map is shown in Figure 2.

A list of waterflood patterns and corresponding injectors is given in Table 3. Table 4 provides detailed production, injection, pressure and voidage for each pattern.

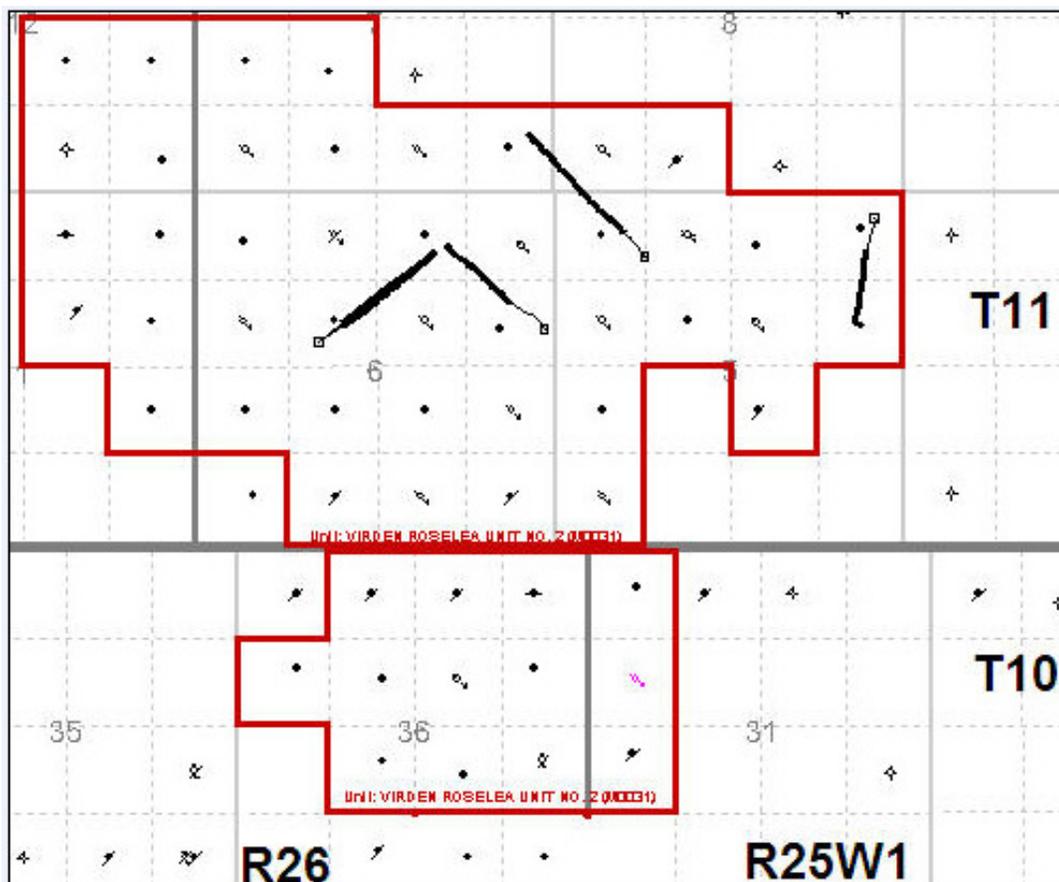


Figure 1: Virden Roselea Unit No. 2 Map

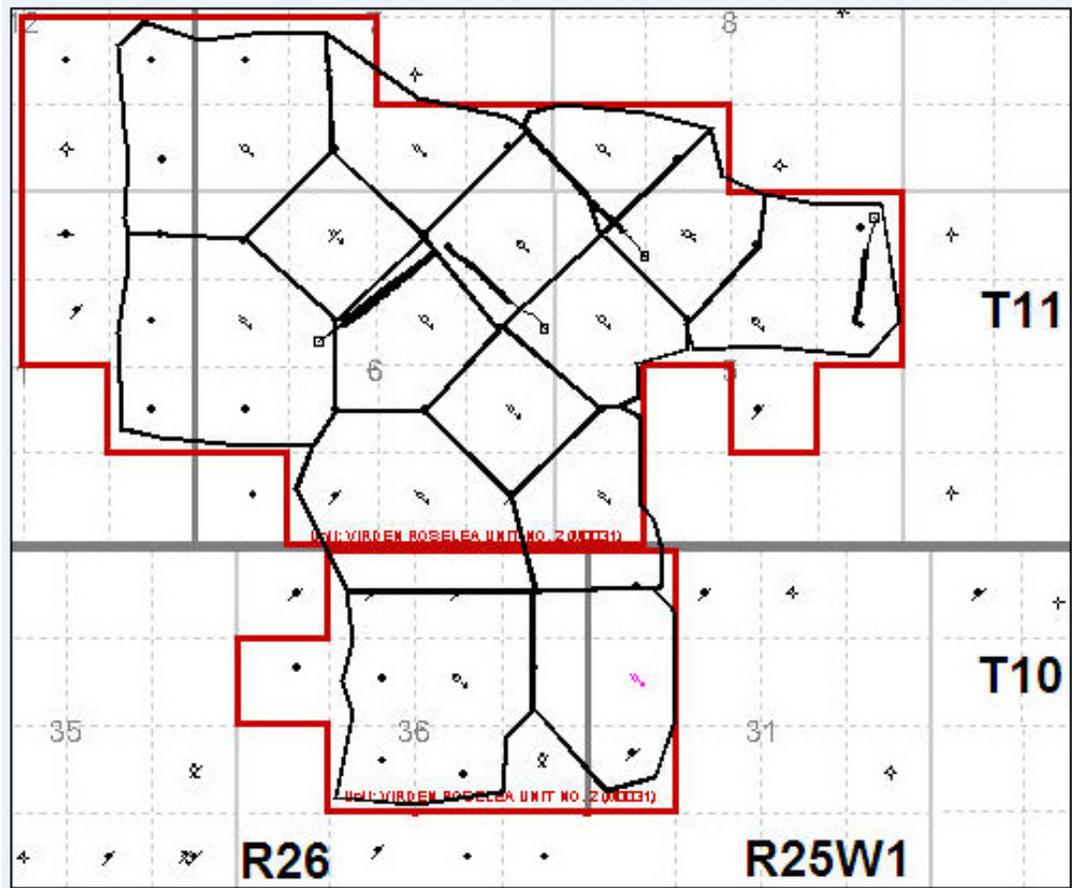


Figure 2: Pattern Map

Table 1: Well Servicing Report

UWI	Start Date	Type	Objective
100/09-36-010-26W1/00	4/19/2010	Maintenance	Downsize pump
100/01-12-011-26W1/00	4/28/2010	Maintenance	MOSR for pump change
100/08-01-011-26W1/00	6/7/2010	Suspension	Suspension
100/15-05-011-25W1/00	8/26/2010	Flush By	MOSR for pump change, tubing leak
100/15-01-011-26W1/00	11/16/2010	Abandon Well	Abandon wellbore
100/08-01-011-26W1/00	11/17/2010	Abandon Well	Abandon zone
100/14-05-011-25W1/00	11/30/2010	Abandon Well	Abandon well in compliance to Petroleum Branch, Section# 56 (Zonal abandonment, cut and cap subject wellbore)

Table 2: 2010 Pressure Surveys

UWI	Test Date	Test Type	Shut-in since	Shut-in Period (days)	BH Pressure (kPaa)
100/01-07-011-25W1/0	November 22, 2010	AWS	December 4, 2007	1084	8,459
100/05-05-011-25W1/0	November 22, 2010	AWS	September 29, 2008	784	8,515
AVERAGE RESERVOIR PRESSURE in 2010 -->					8487

Table 3: Waterflood Patterns and Corresponding Injectors

Pattern	Well
00/02-06-011-25W1/0	100/02-06-011-25W1/00
00/02-07-011-25W1/0	100/02-07-011-25W1/00
00/04-05-011-25W1/0	100/04-05-011-25W1/00
00/04-07-011-25W1/0	100/04-07-011-25W1/00
00/04-08-011-25W1/0	100/04-08-011-25W1/00
00/08-06-011-25W1/0	100/08-06-011-25W1/00
00/10-05-011-25W1/0	100/10-05-011-25W1/00
00/14-06-011-25W1/0	100/14-06-011-25W1/00
00/10-06-011-25W1/0	100/10-06-011-25W1/00
00/10-36-010-26W1/0	100/10-36-010-26W1/00
00/12-05-011-25W1/0	100/12-05-011-25W1/00
00/12-06-011-25W1/0	100/12-06-011-25W1/00
00/16-06-011-25W1/0	100/16-06-011-25W1/00
00/14-05-011-25W1/0	100/14-05-011-25W1/00

Table 4

Viriden Roselea Unit No. 2

Total for Project

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacem Ratio
Jan-10	822.90	26.55	16926.00	546.00	20.57	16926.00	546.00	5668	0.933	1.123
Feb-10	732.90	26.18	17255.00	616.25	23.54	17255.00	616.25	5533	1.039	1.122
Mar-10	806.80	26.03	18979.00	612.23	23.52	18979.00	612.23	5672	0.939	1.122
Apr-10	778.60	25.95	18604.00	620.13	23.89	18604.00	620.13	5663	0.971	1.122
May-10	819.60	26.44	19569.00	631.26	23.88	19569.00	631.26	5655	0.939	1.121
Jun-10	785.10	26.17	19012.40	633.75	24.22	18992.00	633.07	5655	0.970	1.121
Jul-10	545.40	17.59	14307.00	461.52	26.23	14329.00	462.23	5673	0.944	1.121
Aug-10	888.70	28.67	19064.60	614.99	21.45	19094.00	615.94	5943	0.936	1.120
Sep-10	835.50	27.85	20957.20	698.57	25.08	20989.00	699.63	5862	0.974	1.120
Oct-10	850.30	27.43	19644.00	633.68	23.10	19644.00	633.68	5823	0.938	1.120
Nov-10	823.30	27.44	21965.00	732.17	26.68	21965.00	732.17	5984	0.975	1.120
Dec-10	833.90	26.90	20853.50	672.69	25.01	20847.00	672.48	6060	0.941	1.119
Cumulative Oil Produced (E3m3)					1125.599					
Cumulative Water Produced (E3m3)					9189.597					
Cumulative Water Injected (E3m3)					11555.810					

Table 4

Virden Roselea Unit No. 2

Pattern: 00/02-07-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
Jan-10	16.41	0.53	786.06	25.36	47.91	1467.10	47.33	5300	1.791	1.572
Feb-10	14.75	0.53	802.86	28.67	54.45	1427.15	50.97	5293	1.893	1.573
Mar-10	16.08	0.52	881.49	28.44	54.82	1628.60	52.54	5106	1.778	1.573
Apr-10	15.70	0.52	872.38	29.08	55.55	1552.10	51.74	5303	1.769	1.573
May-10	16.12	0.52	932.12	30.07	57.83	1632.85	52.67	5400	1.687	1.574
Jun-10	15.16	0.51	943.53	31.45	62.24	1582.70	52.76	5403	1.672	1.574
Jul-10	10.84	0.35	724.06	23.36	66.79	1194.25	38.52	5484	1.592	1.574
Aug-10	18.05	0.58	969.25	31.27	53.68	1199.35	38.69	5013	1.190	1.573
Sep-10	17.04	0.57	1048.29	34.94	61.54	1199.35	39.98	5400	1.140	1.572
Oct-10	16.83	0.54	966.98	31.19	57.44	1189.15	38.36	5403	1.184	1.571
Nov-10	16.32	0.54	1079.05	35.97	66.13	1318.35	43.95	5503	1.219	1.571
Dec-10	16.66	0.54	1039.52	33.53	62.41	1299.65	41.92	5594	1.206	1.570
Cumulative Oil Produced (E3m3)					41.841					
Cumulative Water Produced (E3m3)					504.541					
Cumulative Water Injected (E3m3)					858.604					

Table 4

Virden Roselea Unit No. 2

Pattern: 00/04-05-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacem Ratio
Jan-10	28.83	0.93	734.63	23.70	25.48	2487.10	80.23	5700	3.189	1.997
Feb-10	24.88	0.89	723.52	25.84	29.08	2538.10	90.65	5700	3.676	1.999
Mar-10	28.28	0.91	823.79	26.57	29.13	2848.35	91.88	5697	3.273	2.002
Apr-10	27.55	0.92	815.25	27.17	29.60	2736.15	91.20	5600	3.284	2.004
May-10	28.83	0.93	848.30	27.36	29.42	2878.95	92.87	5600	3.213	2.006
Jun-10	23.05	0.77	648.87	21.63	28.16	2679.20	89.31	5600	4.034	2.009
Jul-10	11.39	0.37	284.36	9.17	24.98	2021.30	65.20	5606	6.689	2.012
Aug-10	18.91	0.61	380.77	12.28	20.13	3232.55	104.28	5797	7.913	2.017
Sep-10	17.81	0.59	411.89	13.73	23.12	3933.80	131.13	5703	9.257	2.024
Oct-10	17.63	0.57	379.85	12.25	21.55	3084.65	99.50	5806	7.594	2.029
Nov-10	17.08	0.57	423.92	14.13	24.82	3555.55	118.52	6003	8.154	2.035
Dec-10	17.35	0.56	408.31	13.17	23.53	3390.65	109.38	6097	7.795	2.040
Cumulative Oil Produced (E3m3)					52.350					
Cumulative Water Produced (E3m3)					413.502					
Cumulative Water Injected (E3m3)					951.471					

Table 4

Virden Roselea Unit No. 2

Pattern: 00/04-07-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacem Ratio
Jan-10	2.06	0.07	113.42	3.66	55.02	611.15	19.71	5597	5.185	4.023
Feb-10	1.84	0.07	115.84	4.14	62.83	598.40	21.37	5504	5.517	4.025
Mar-10	2.01	0.06	127.19	4.10	63.12	722.50	23.31	5597	5.480	4.027
Apr-10	1.97	0.07	125.87	4.20	63.95	724.20	24.14	5500	5.736	4.029
May-10	1.99	0.06	135.98	4.39	68.28	761.60	24.57	5500	5.409	4.032
Jun-10	1.84	0.06	139.23	4.64	75.83	737.80	24.59	5497	5.297	4.034
Jul-10	1.30	0.04	107.47	3.47	82.72	556.75	17.96	5423	5.016	4.035
Aug-10	2.16	0.07	143.87	4.64	66.53	694.45	22.40	6097	4.660	4.036
Sep-10	2.05	0.07	155.60	5.19	76.05	606.05	20.20	5993	3.893	4.035
Oct-10	2.01	0.06	143.53	4.63	71.24	697.00	22.48	5803	4.693	4.037
Nov-10	1.96	0.07	160.17	5.34	81.70	764.15	25.47	5903	4.773	4.038
Dec-10	2.00	0.06	154.30	4.98	77.18	765.00	24.68	6000	4.797	4.039
Cumulative Oil Produced (E3m3)					10.208					
Cumulative Water Produced (E3m3)					81.355					
Cumulative Water Injected (E3m3)					370.200					

Table 4

Virten Roselea Unit No. 2

Pattern: 00/04-08-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacem Ratio	
Jan-10	3.12	0.10	82.64	2.67	26.47	606.90	19.58	5600	6.927	1.448	
Feb-10	2.78	0.10	84.39	3.01	30.35	674.90	24.10	5600	8.392	1.453	
Mar-10	3.08	0.10	92.65	2.99	30.08	727.60	23.47	5603	7.442	1.458	
Apr-10	2.95	0.10	91.70	3.06	31.07	708.90	23.63	5700	7.577	1.462	
May-10	3.12	0.10	95.43	3.08	30.56	745.45	24.05	5700	7.406	1.467	
Jun-10	3.04	0.10	94.01	3.13	30.96	748.85	24.96	5703	7.807	1.472	
Jul-10	2.14	0.07	72.54	2.34	33.92	564.40	18.21	5806	7.401	1.476	
Aug-10	4.15	0.13	166.99	5.39	40.25	709.75	22.90	6000	4.062	1.479	
Sep-10	4.28	0.14	213.01	7.10	49.80	709.75	23.66	6000	3.307	1.483	
Oct-10	4.23	0.14	196.46	6.34	46.39	709.75	22.90	6000	3.464	1.486	
Nov-10	4.11	0.14	219.21	7.31	53.39	782.00	26.07	6003	3.545	1.489	
Dec-10	1.58	0.05	81.74	2.64	51.65	712.30	22.98	6090	8.375	1.494	
Cumulative Oil Produced (E3m3)					24.423						
Cumulative Water Produced (E3m3)					99.900						
Cumulative Water Injected (E3m3)					186.031						

Table 4

Virden Roselea Unit No. 2

Pattern: 00/08-06-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacem Ratio
Jan-10	6.40	0.21	349.06	11.26	54.55	2628.20	84.78	6365	7.244	2.499
Feb-10	5.77	0.21	356.50	12.73	61.78	2634.15	94.08	5336	7.888	2.502
Mar-10	6.28	0.20	391.44	12.63	62.35	2921.45	94.24	6303	7.198	2.505
Apr-10	6.11	0.20	387.39	12.91	63.37	2814.35	93.81	6397	7.242	2.508
May-10	6.40	0.21	403.06	13.00	62.99	2960.55	95.50	6300	7.085	2.511
Jun-10	6.19	0.21	397.12	13.24	64.16	2882.35	96.08	6297	7.236	2.514
Jul-10	4.37	0.14	306.51	9.89	70.07	2174.30	70.14	6206	6.854	2.516
Aug-10	7.74	0.25	422.12	13.62	54.52	3018.35	97.37	6355	6.880	2.519
Sep-10	9.70	0.32	509.49	16.98	52.54	3555.55	118.52	5020	6.933	2.522
Oct-10	10.66	0.34	493.02	15.90	46.26	3357.50	108.31	5626	6.530	2.526
Nov-10	10.33	0.34	550.11	18.34	53.27	3681.35	122.71	6400	6.650	2.529
Dec-10	10.52	0.34	529.98	17.10	50.36	3206.20	103.43	6406	5.811	2.532
Cumulative Oil Produced (E3m3)					78.007					
Cumulative Water Produced (E3m3)					553.525					
Cumulative Water Injected (E3m3)					1600.412					

Table 4

Virten Roselea Unit No. 2

Pattern: 00/10-05-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
Jan-10	24.28	0.78	106.93	3.45	4.40	324.70	10.47	5600	2.404	1.250
Feb-10	21.12	0.75	108.16	3.86	5.12	334.90	11.96	5600	2.790	1.251
Mar-10	23.70	0.76	119.37	3.85	5.04	377.40	12.17	5600	2.566	1.252
Apr-10	23.28	0.78	118.73	3.96	5.10	408.85	13.63	5597	2.894	1.253
May-10	23.89	0.77	122.37	3.95	5.12	430.10	13.87	5500	2.860	1.254
Jun-10	23.42	0.78	121.70	4.06	5.20	448.80	14.96	5500	3.109	1.255
Jul-10	17.12	0.55	96.01	3.10	5.61	339.15	10.94	5516	2.918	1.256
Aug-10	27.66	0.89	117.10	3.78	4.23	391.00	12.61	6000	2.624	1.257
Sep-10	36.63	1.22	275.82	9.19	7.53	391.00	13.03	5993	1.261	1.257
Oct-10	41.22	1.33	317.93	10.26	7.71	382.50	12.34	5806	1.038	1.257
Nov-10	39.79	1.33	354.84	11.83	8.92	430.10	14.34	6003	1.099	1.257
Dec-10	40.84	1.32	341.87	11.03	8.37	448.80	14.48	6094	1.144	1.256
Cumulative Oil Produced (E3m3)					61.036					
Cumulative Water Produced (E3m3)					156.817					
Cumulative Water Injected (E3m3)					274.066					

Table 4

Virden Roselea Unit No. 2

Pattern: 00/14-06-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacem Ratio
Jan-10	4.56	0.15	251.11	8.10	55.02					1.154
Feb-10	4.08	0.15	256.47	9.16	62.83					1.152
Mar-10	4.46	0.14	281.60	9.08	63.12					1.150
Apr-10	4.36	0.15	278.69	9.29	63.95					1.148
May-10	4.41	0.14	301.06	9.71	68.28					1.146
Jun-10	4.06	0.14	308.26	10.28	75.83					1.143
Jul-10	2.88	0.09	237.95	7.68	82.72					1.142
Aug-10	4.79	0.15	318.54	10.28	66.53					1.139
Sep-10	4.53	0.15	344.52	11.48	76.05					1.137
Oct-10	4.46	0.14	317.79	10.25	71.24					1.135
Nov-10	4.34	0.14	354.63	11.82	81.70					1.132
Dec-10	4.43	0.14	341.62	11.02	77.18					1.130
Cumulative Oil Produced (E3m3)					11.918					
Cumulative Water Produced (E3m3)					154.008					
Cumulative Water Injected (E3m3)					187.700					

Table 4

Virde Roselea Unit No. 2

Pattern: 00/10-06-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacem Ratio
Jan-10	57.59	1.86	1204.74	38.86	20.92	2125.00	68.55	5297	1.647	1.284
Feb-10	51.58	1.84	1230.45	43.94	23.85	2150.50	76.80	5214	1.818	1.285
Mar-10	56.53	1.82	1350.93	43.58	23.90	2351.10	75.84	5594	1.635	1.286
Apr-10	55.07	1.84	1336.88	44.56	24.28	2296.70	76.56	5400	1.669	1.286
May-10	57.81	1.86	1391.18	44.88	24.06	2414.00	77.87	5400	1.630	1.287
Jun-10	54.84	1.83	1358.24	45.27	24.77	2352.80	78.43	5403	1.684	1.288
Jul-10	39.58	1.28	1053.58	33.99	26.62	1774.80	57.25	5510	1.589	1.288
Aug-10	69.81	2.25	1441.87	46.51	20.65	2224.45	71.76	5794	1.440	1.288
Sep-10	69.99	2.33	1645.80	54.86	23.52	2685.15	89.50	5603	1.583	1.289
Oct-10	68.92	2.22	1523.47	49.14	22.11	2147.10	69.26	5710	1.319	1.289
Nov-10	65.68	2.19	1720.45	57.35	26.20	2446.30	81.54	6000	1.385	1.289
Dec-10	67.15	2.17	1657.40	53.46	24.68	2380.85	76.80	5997	1.351	1.290
Cumulative Oil Produced (E3m3)					91.170					
Cumulative Water Produced (E3m3)					698.365					
Cumulative Water Injected (E3m3)					1019.236					

Table 4

Viriden Roselea Unit No. 2

Pattern: 00/10-36-010-26W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
Jan-10	34.90	1.13	456.92	14.74	13.09	1875.95	60.51	5897	3.727	1.659
Feb-10	31.15	1.11	466.76	16.67	14.99	1967.75	70.28	5800	4.277	1.661
Mar-10	34.27	1.11	512.45	16.53	14.95	2115.65	68.25	5800	3.783	1.662
Apr-10	30.36	1.01	434.97	14.50	14.33	2115.65	70.52	5803	4.592	1.664
May-10	34.95	1.13	527.66	17.02	15.10	2225.30	71.78	5900	3.867	1.666
Jun-10	32.07	1.07	502.79	16.76	15.68	2176.00	72.53	5900	4.110	1.667
Jul-10	21.33	0.69	373.98	12.06	17.54	1642.20	52.97	5894	4.063	1.668
Aug-10	36.33	1.17	509.78	16.44	14.03	2299.25	74.17	5723	4.115	1.670
Sep-10	24.64	0.82	519.73	17.32	21.09	2299.25	76.64	6387	4.270	1.672
Oct-10	22.45	0.72	473.51	15.27	21.09	2663.90	85.93	6000	5.255	1.674
Nov-10	21.77	0.73	528.46	17.62	24.27	2985.20	99.51	6007	5.487	1.676
Dec-10	22.25	0.72	509.08	16.42	22.88	3284.40	105.95	6194	6.049	1.679
Cumulative Oil Produced (E3m3)					74.956					
Cumulative Water Produced (E3m3)					752.343					
Cumulative Water Injected (E3m3)					1390.475					

Table 4

Virden Roselea Unit No. 2

Pattern: 00/12-05-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
Jan-10	4.38	0.14	144.77	4.67	33.02	531.25	17.14	5797	3.488	0.705
Feb-10	3.93	0.14	147.85	5.28	37.58	560.15	20.01	5707	4.002	0.707
Mar-10	4.31	0.14	162.32	5.24	37.69	633.25	20.43	5897	3.722	0.709
Apr-10	4.14	0.14	160.66	5.36	38.79	615.40	20.51	5800	3.779	0.711
May-10	4.38	0.14	167.17	5.39	38.12	647.70	20.89	5800	3.698	0.713
Jun-10	4.26	0.14	164.73	5.49	38.64	641.75	21.39	5797	3.843	0.715
Jul-10	2.97	0.10	127.10	4.10	42.81	484.50	15.63	5729	3.649	0.716
Aug-10	6.13	0.20	253.77	8.19	41.42	607.75	19.60	6594	2.290	0.718
Sep-10	6.75	0.23	322.83	10.76	47.82	607.75	20.26	6393	1.867	0.719
Oct-10	6.64	0.21	297.76	9.61	44.86	612.00	19.74	6197	1.969	0.721
Nov-10	6.44	0.21	332.23	11.07	51.61	668.95	22.30	6100	2.000	0.723
Dec-10	3.96	0.13	189.56	6.11	47.83	659.60	21.28	6103	3.339	0.724
Cumulative Oil Produced (E3m3)					34.251					
Cumulative Water Produced (E3m3)					230.254					
Cumulative Water Injected (E3m3)					191.918					

Table 4

Virden Roselea Unit No. 2

Pattern: 00/12-06-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
Jan-10	42.32	1.37	378.79	12.22	8.95	799.00	25.77	5500	1.851	2.274
Feb-10	37.83	1.35	386.85	13.82	10.23	780.30	27.87	5504	1.986	2.273
Mar-10	41.38	1.33	424.56	13.70	10.26	785.40	25.34	5594	1.646	2.272
Apr-10	40.25	1.34	420.02	14.00	10.44	811.75	27.06	5400	1.779	2.271
May-10	46.84	1.51	451.13	14.55	9.63	854.25	27.56	5400	1.674	2.270
Jun-10	48.51	1.62	447.15	14.91	9.22	812.60	27.09	5400	1.653	2.269
Jul-10	35.23	1.14	354.61	11.44	10.07	612.85	19.77	5426	1.535	2.268
Aug-10	59.54	1.92	409.38	13.21	6.88	815.15	26.30	6194	1.694	2.267
Sep-10	57.53	1.92	407.56	13.59	7.08	815.15	27.17	5993	1.765	2.266
Oct-10	56.79	1.83	375.74	12.12	6.62	816.00	26.32	5803	1.838	2.265
Nov-10	54.83	1.83	419.30	13.98	7.65	896.75	29.89	5903	1.906	2.265
Dec-10	55.96	1.81	403.86	13.03	7.22	786.25	25.36	6000	1.667	2.264
Cumulative Oil Produced (E3m3)					86.080					
Cumulative Water Produced (E3m3)					174.287					
Cumulative Water Injected (E3m3)					589.682					

Table 4

Virten Roselea Unit No. 2

Pattern: 00/16-06-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
Jan-10	15.84	0.51	467.09	15.07	29.48	930.75	30.02	5697	1.887	1.273
Feb-10	14.24	0.51	477.00	17.04	33.51	1000.45	35.73	5600	2.208	1.275
Mar-10	15.57	0.50	523.74	16.89	33.63	1020.85	32.93	5606	1.854	1.276
Apr-10	15.12	0.50	518.34	17.28	34.28	1029.35	34.31	5797	1.953	1.277
May-10	15.89	0.51	539.37	17.40	33.94	1082.90	34.93	5700	1.910	1.278
Jun-10	15.34	0.51	531.39	17.71	34.65	1080.35	36.01	5703	2.000	1.280
Jul-10	10.82	0.35	410.17	13.23	37.92	815.15	26.30	5800	1.896	1.281
Aug-10	19.98	0.64	670.22	21.62	33.54	1037.85	33.48	5806	1.472	1.281
Sep-10	20.74	0.69	823.38	27.45	39.70	1037.85	34.59	5997	1.244	1.281
Oct-10	20.34	0.66	762.93	24.61	37.51	1037.85	33.48	5903	1.298	1.281
Nov-10	19.13	0.64	864.73	28.82	45.21	1141.55	38.05	6003	1.307	1.281
Dec-10	16.93	0.55	704.25	22.72	41.61	786.25	25.36	6090	1.068	1.281
Cumulative Oil Produced (E3m3)					37.442					
Cumulative Water Produced (E3m3)					265.725					
Cumulative Water Injected (E3m3)					388.706					

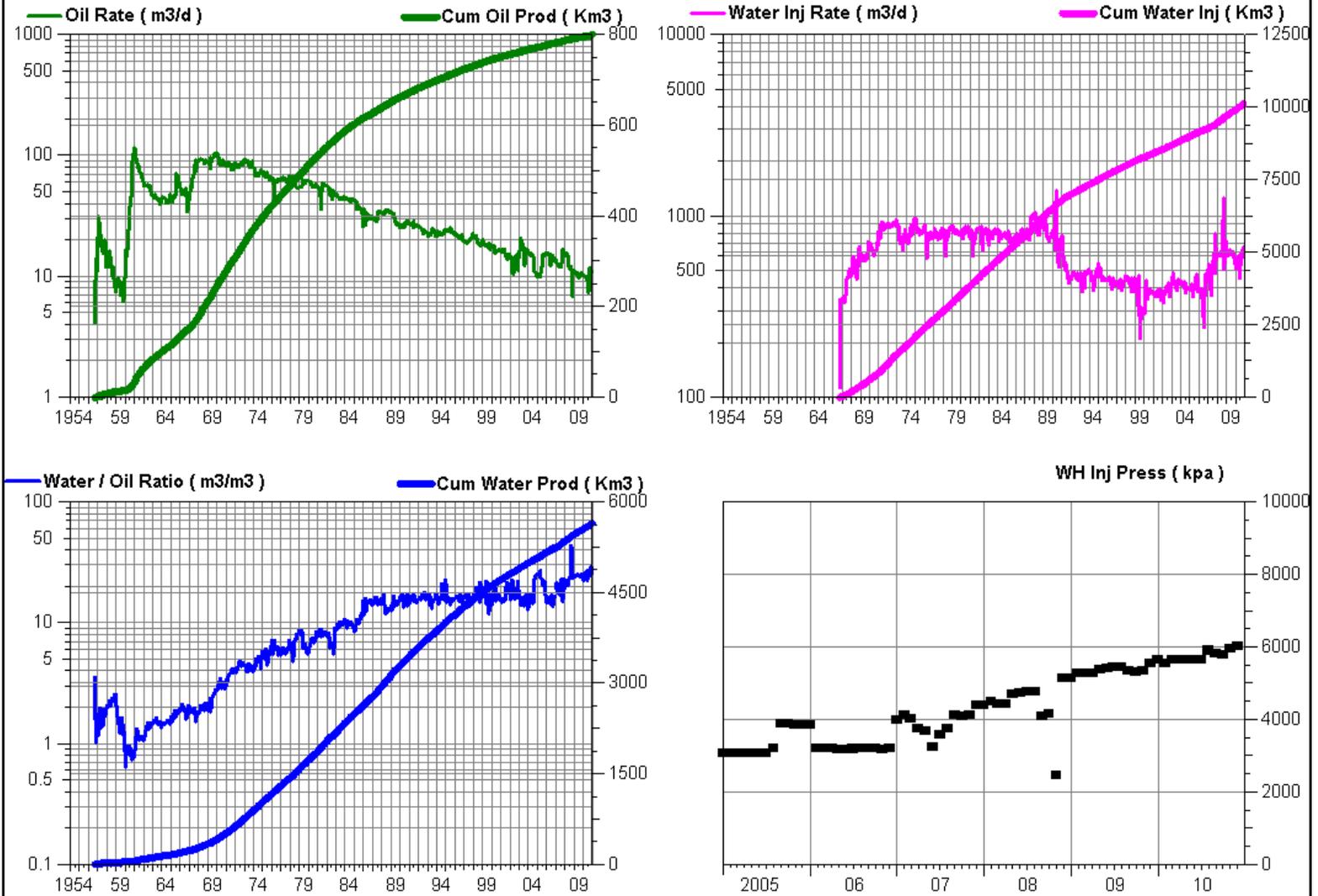
Table 4

Virden Roselea Unit No. 2

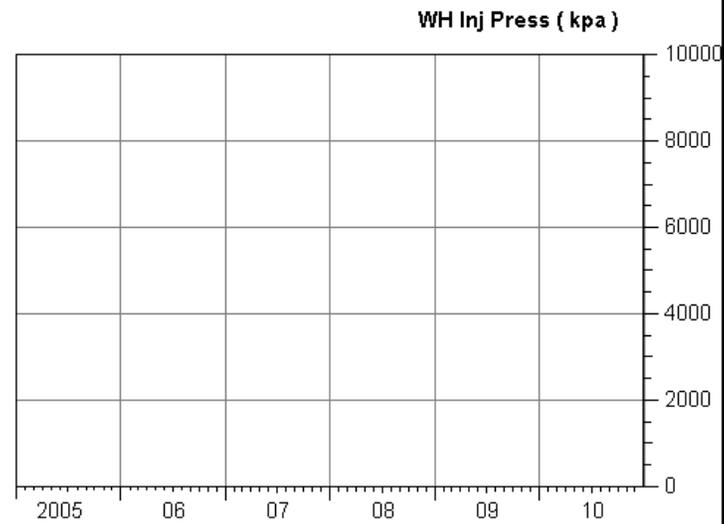
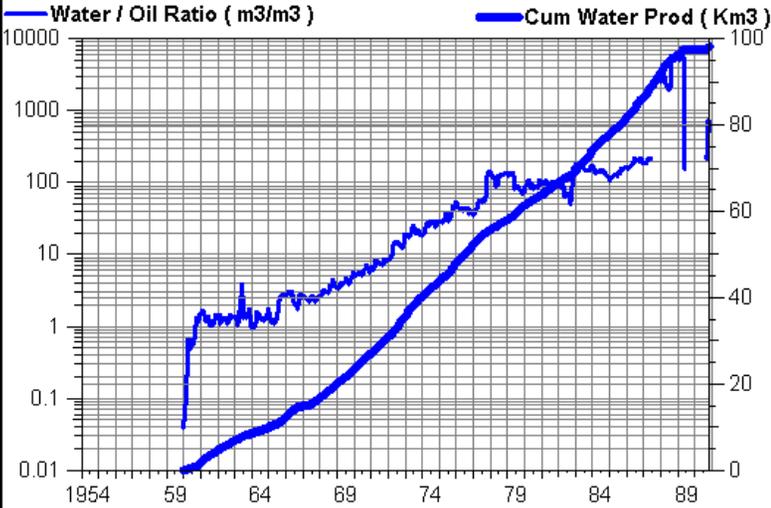
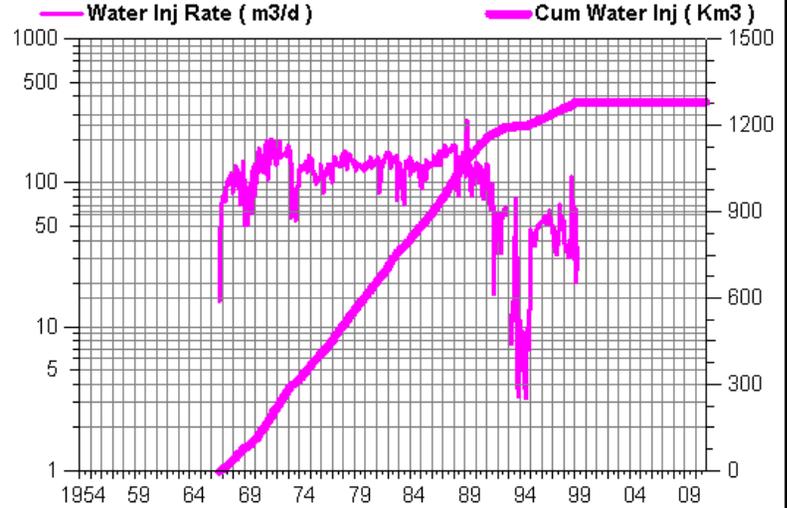
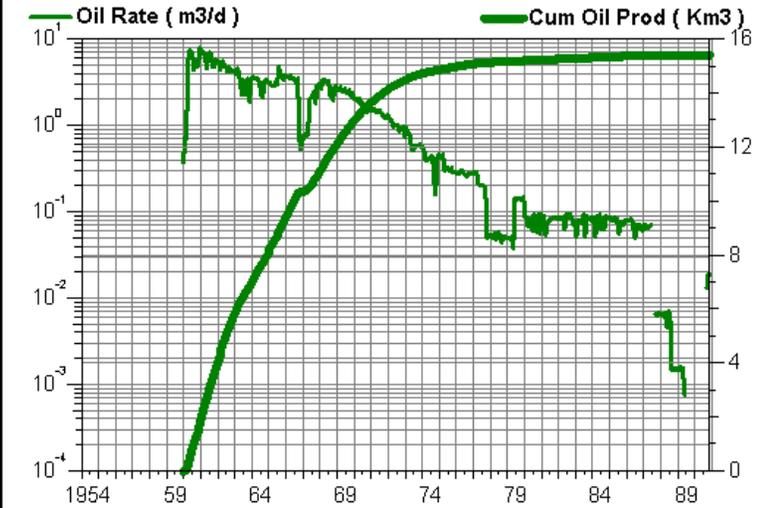
Pattern: 00/14-05-011-25W1/0

Date	Monthly Oil Prod m3	Oil Rate (CD) m3/d	Monthly Water Prod m3	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Monthly Water Inj m3	Water Inj Rate (CD) m3/d	Water Inj Press kpa	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
Jan-10	12.98	0.42	92.73	2.99	7.14					0.595
Feb-10	11.44	0.41	94.78	3.39	8.28					0.595
Mar-10	12.81	0.41	104.00	3.35	8.12					0.595
Apr-10	12.47	0.42	102.98	3.43	8.26					0.594
May-10	12.98	0.42	107.08	3.45	8.25					0.594
Jun-10	12.47	0.42	105.54	3.52	8.47					0.594
Jul-10	8.71	0.28	81.46	2.63	9.35					0.593
Aug-10	10.93	0.35	87.95	2.84	8.05					0.593
Sep-10	23.23	0.77	277.85	9.26	11.96					0.592
Oct-10	29.03	0.94	334.04	10.78	11.51					0.591
Nov-10	28.01	0.93	372.80	12.43	13.31					0.590
Dec-10	28.86	0.93	359.14	11.59	12.44					0.589
Cumulative Oil Produced (E3m3)					62.355					
Cumulative Water Produced (E3m3)					135.384					
Cumulative Water Injected (E3m3)					116.476					

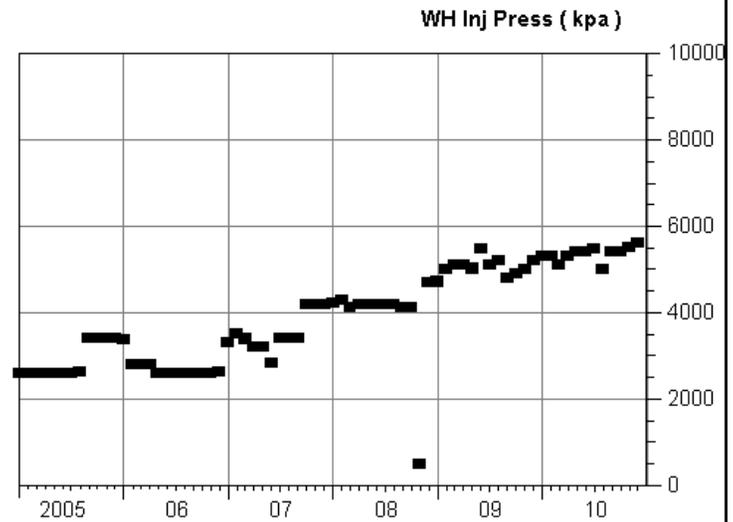
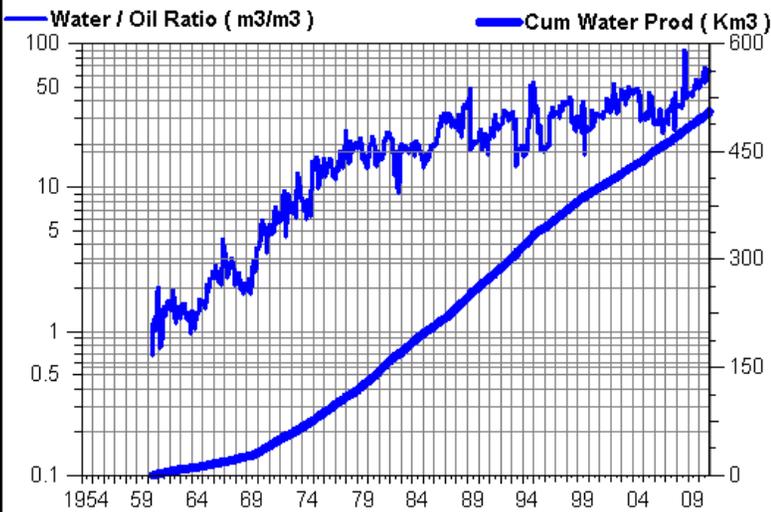
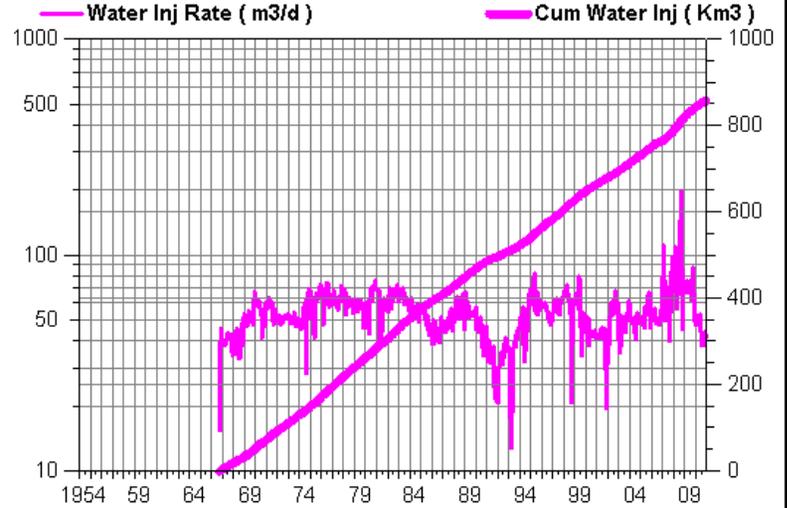
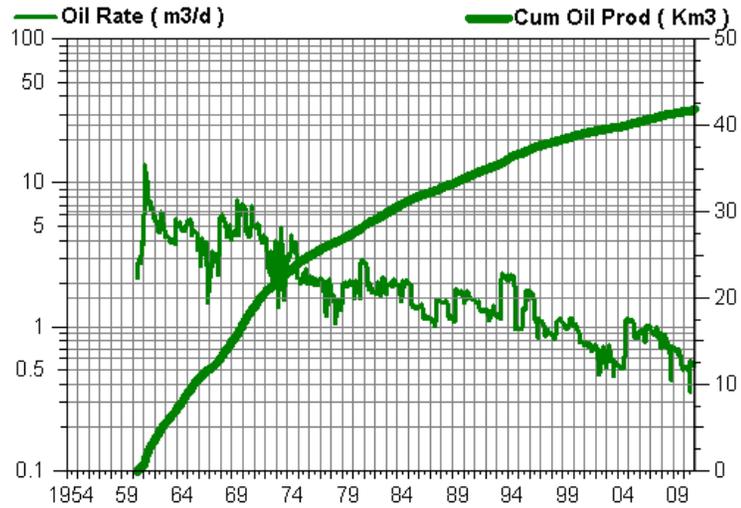
VRU2 - All Patterns



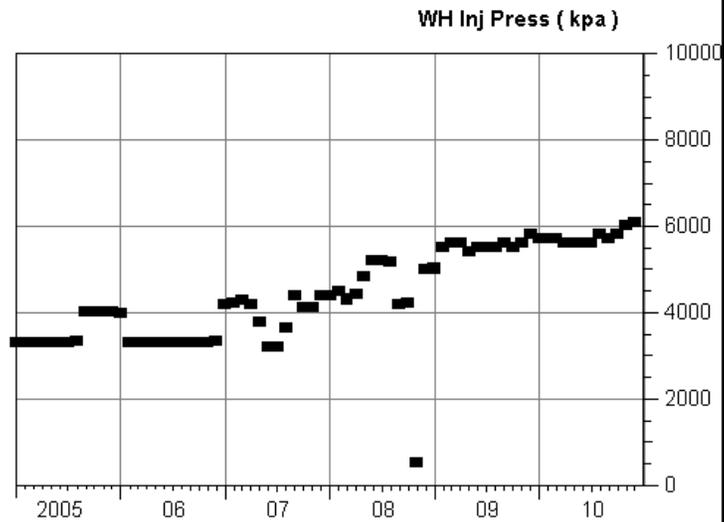
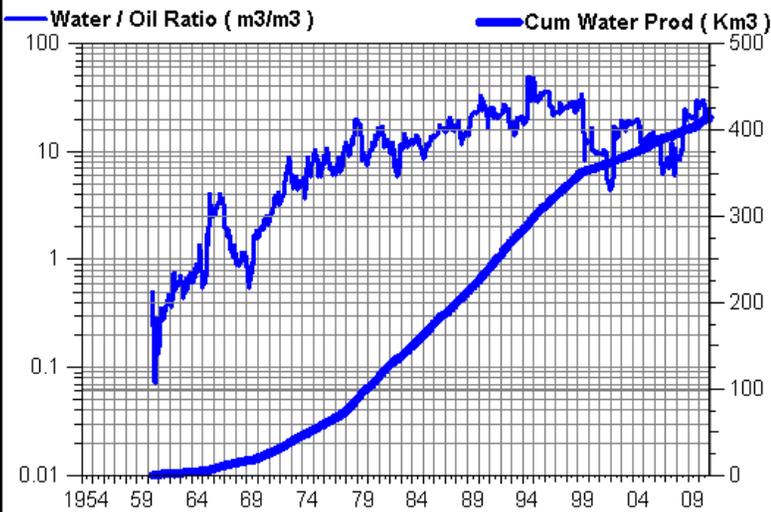
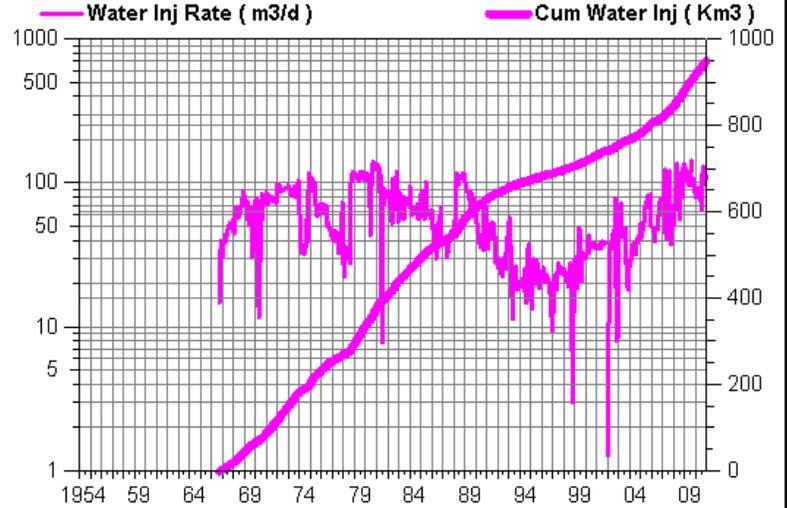
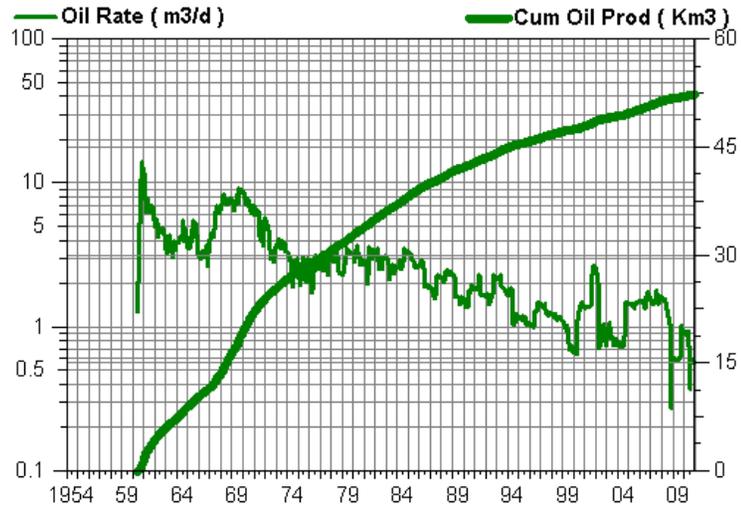
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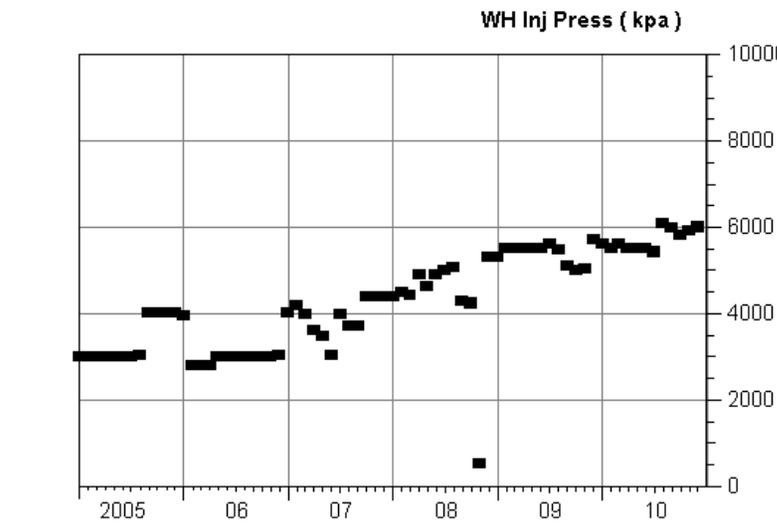
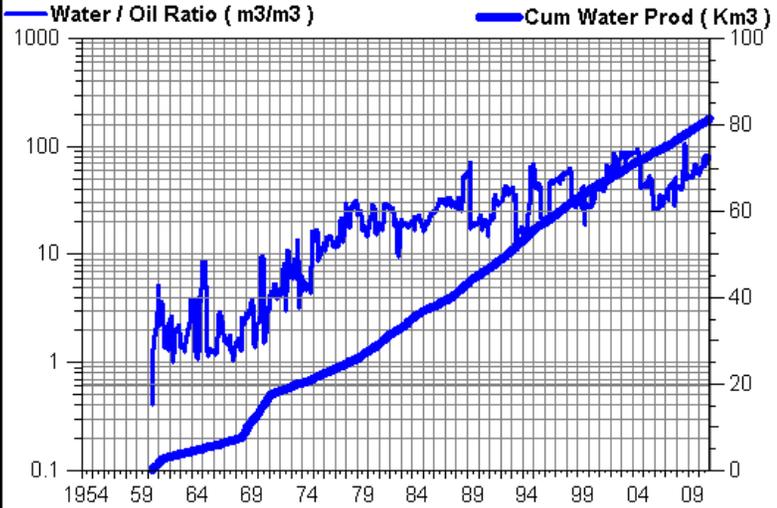
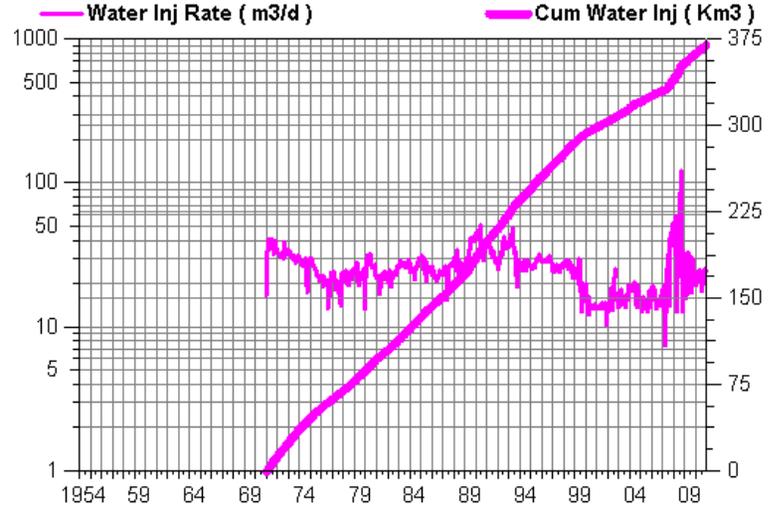
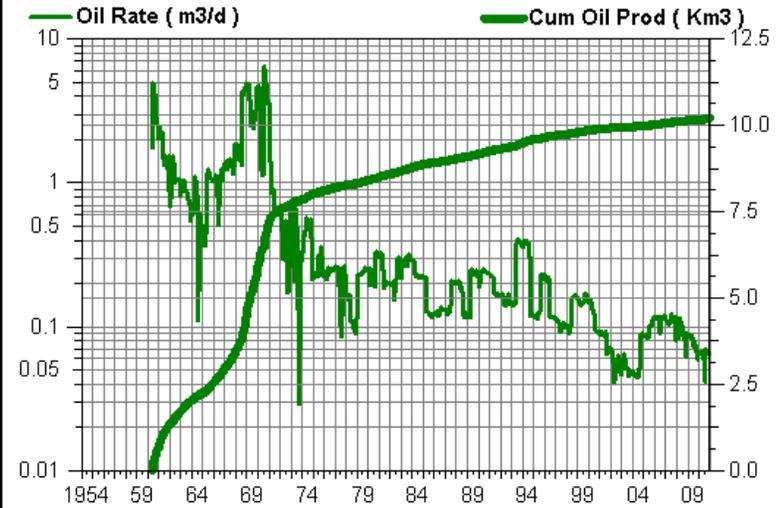
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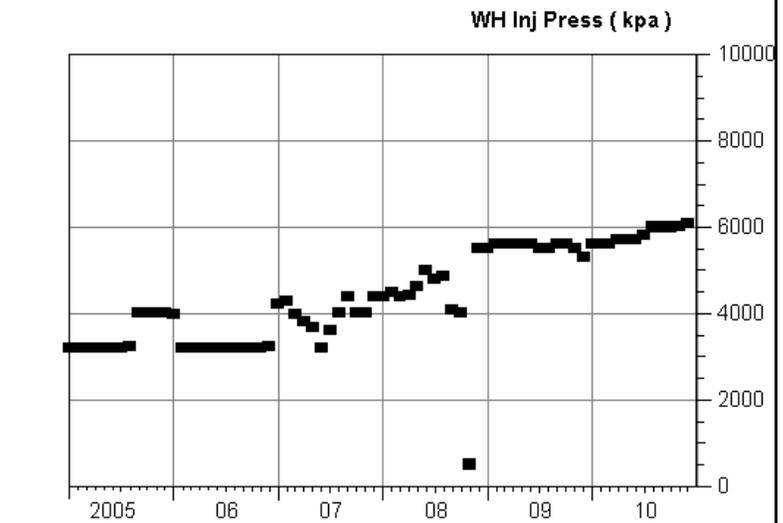
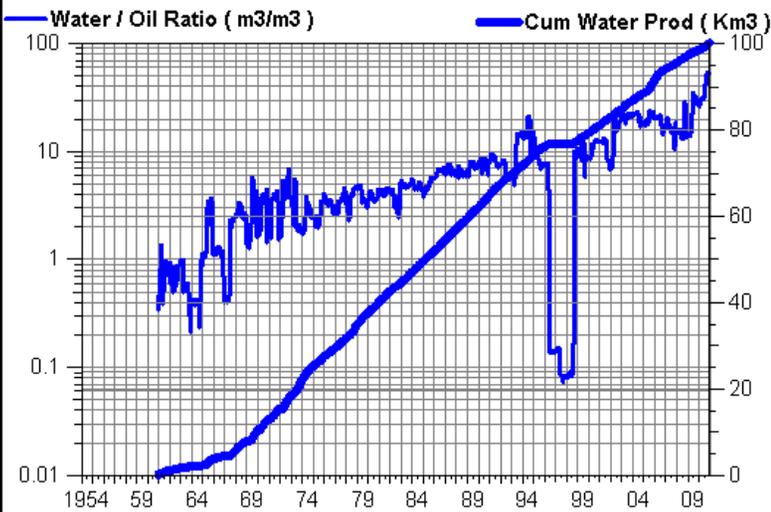
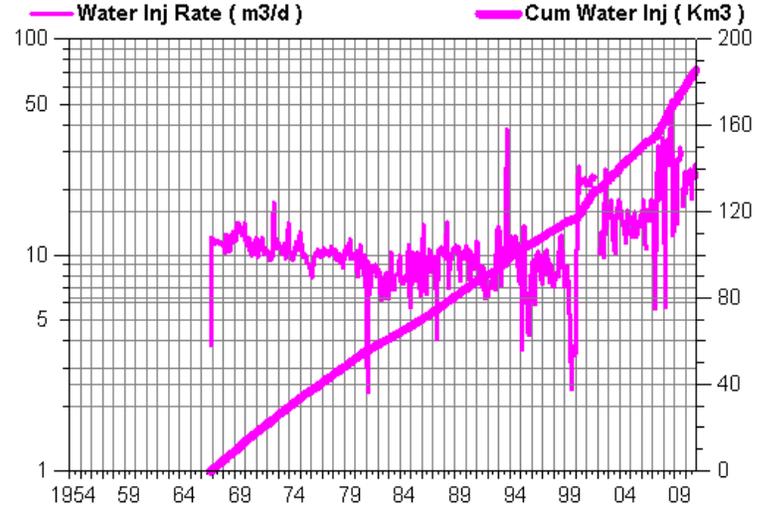
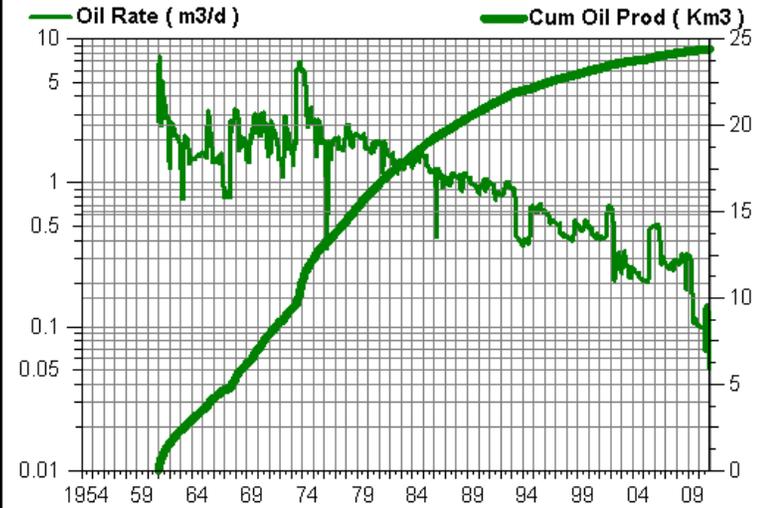
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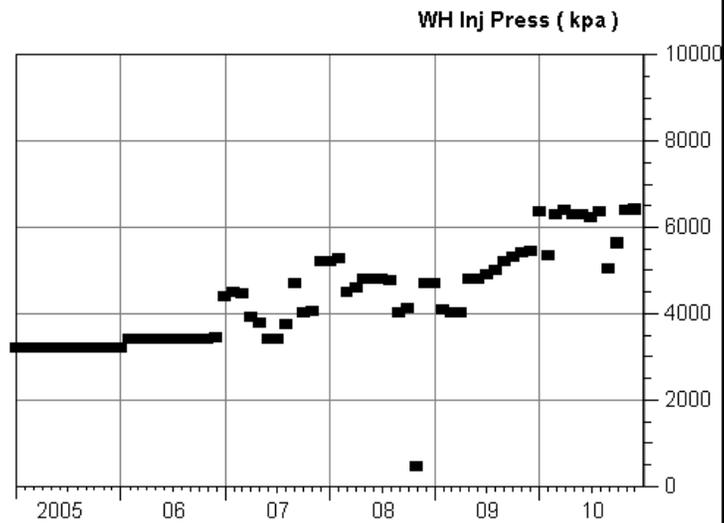
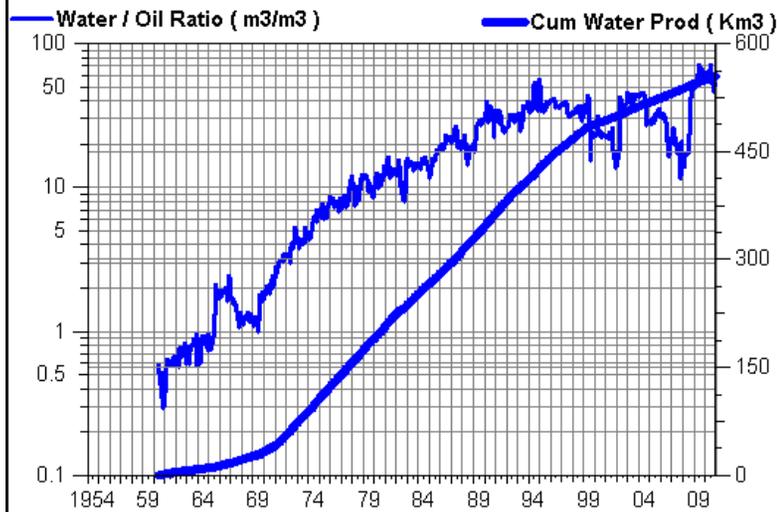
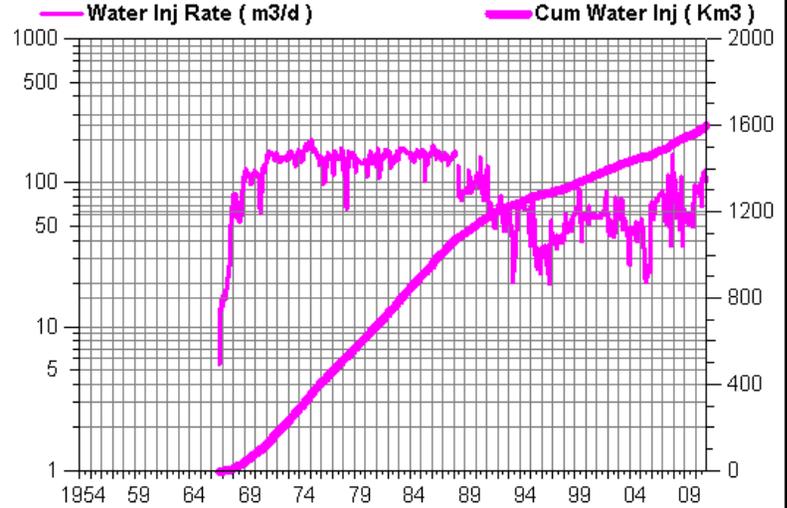
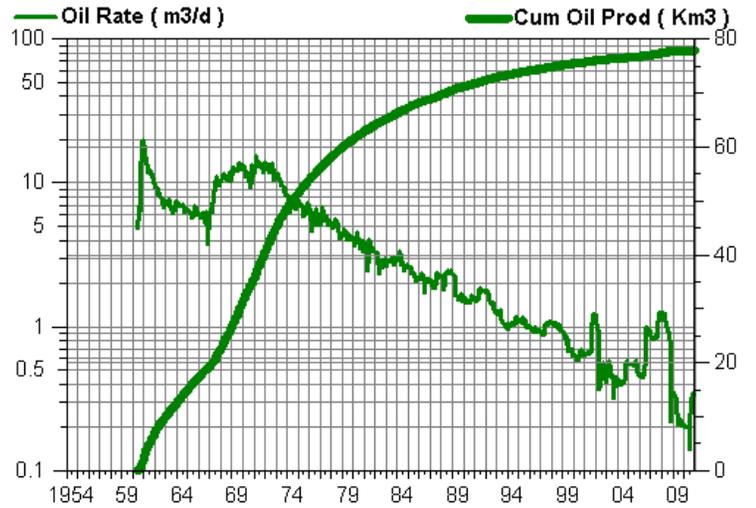
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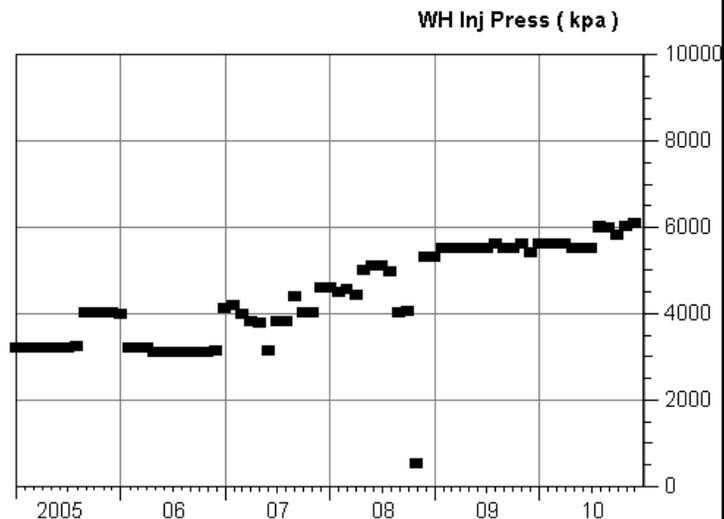
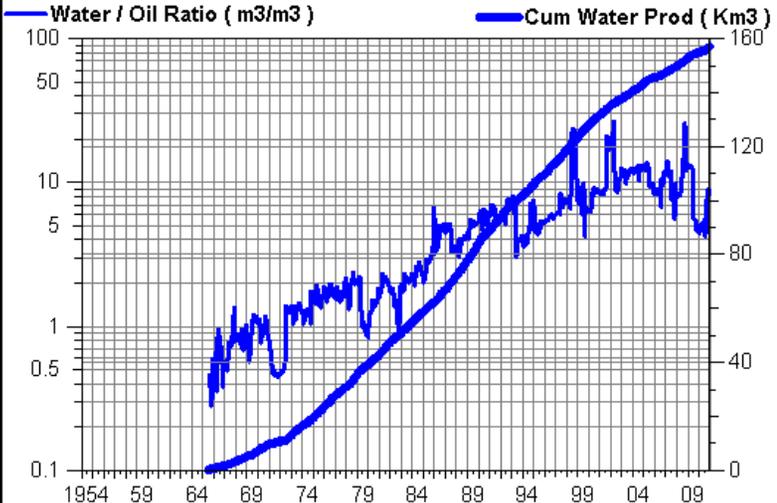
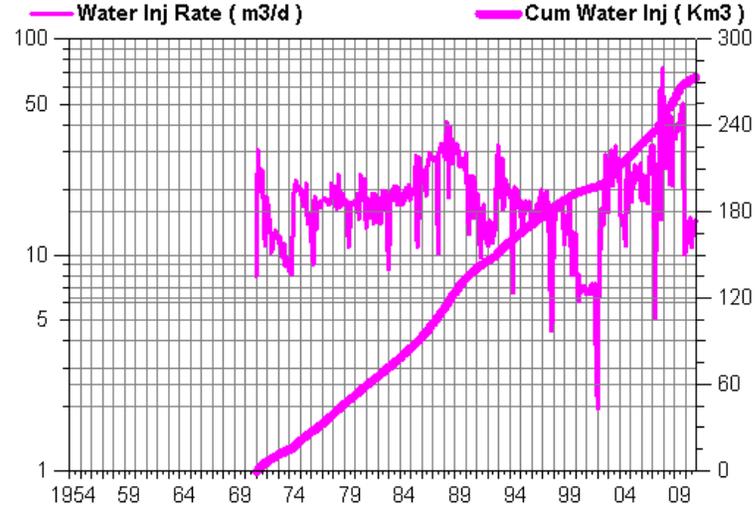
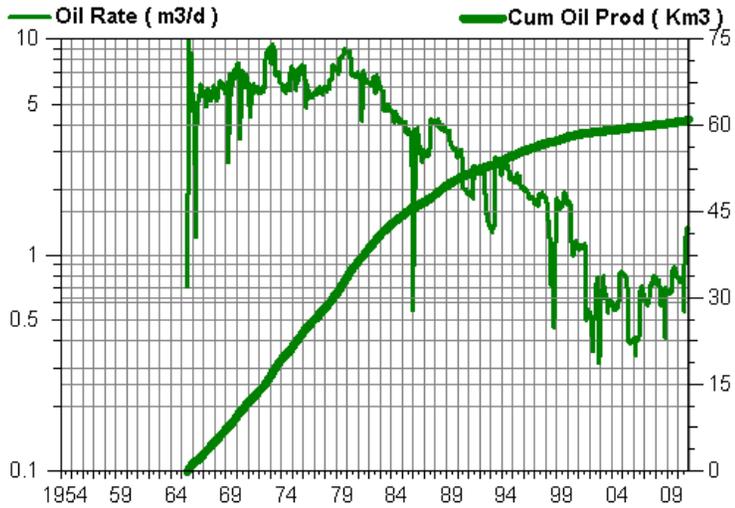
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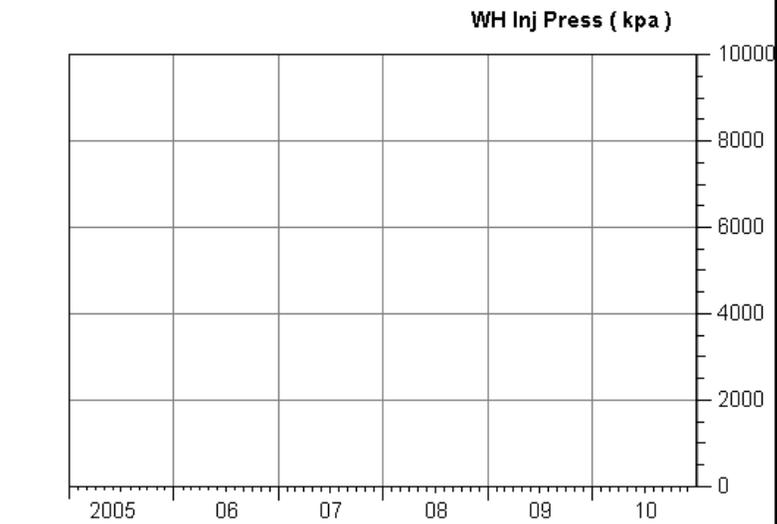
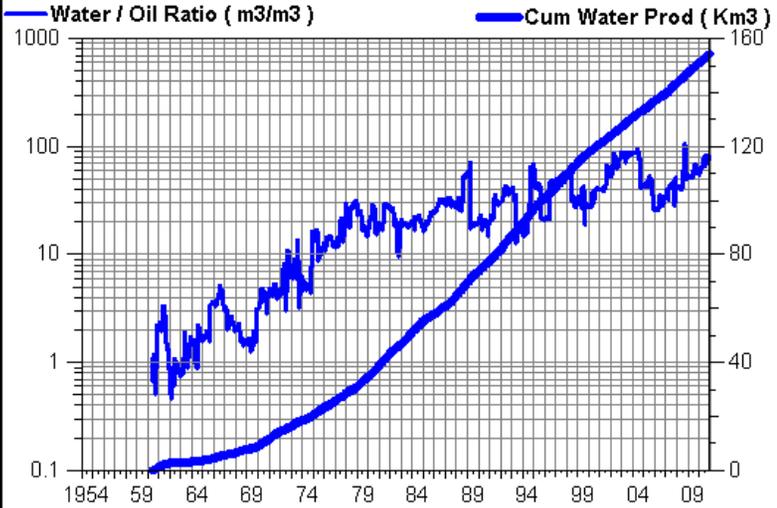
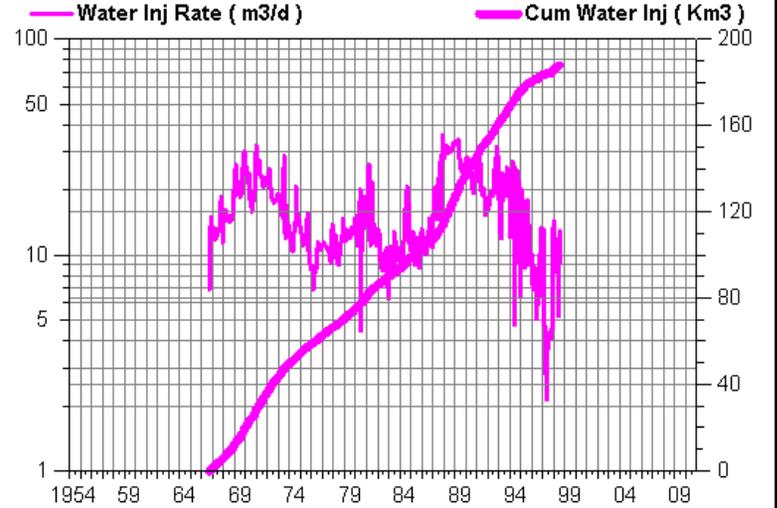
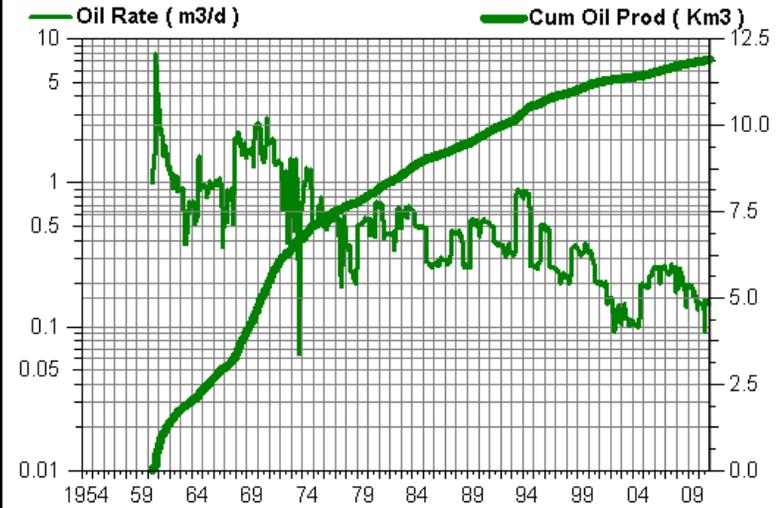
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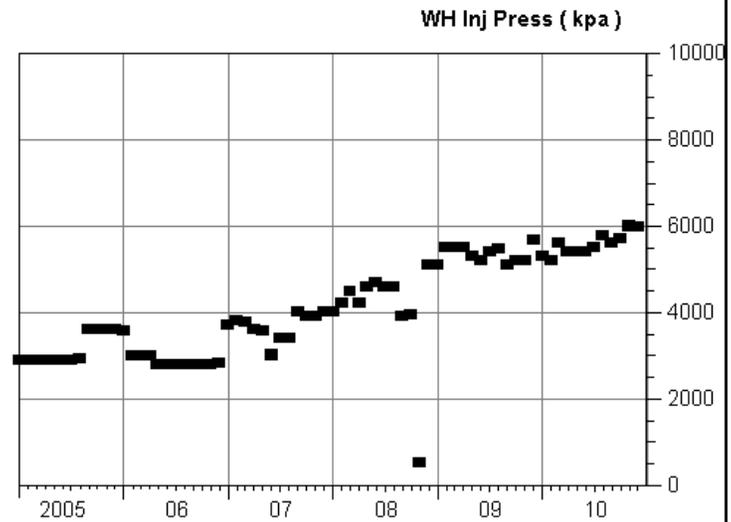
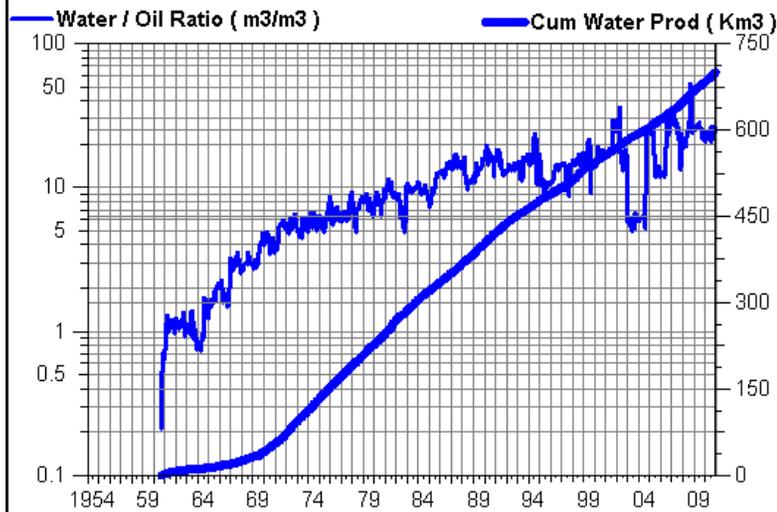
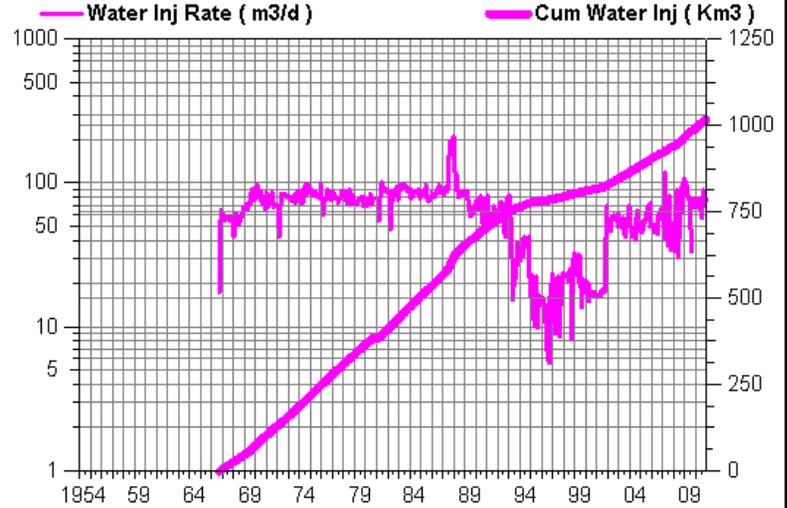
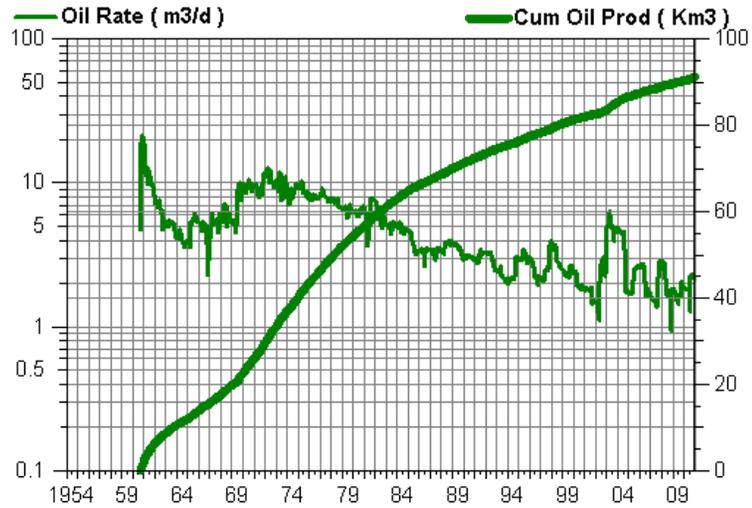
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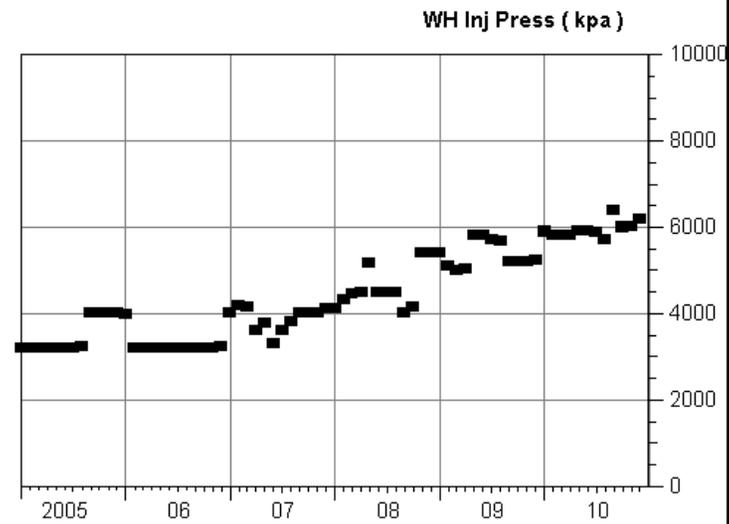
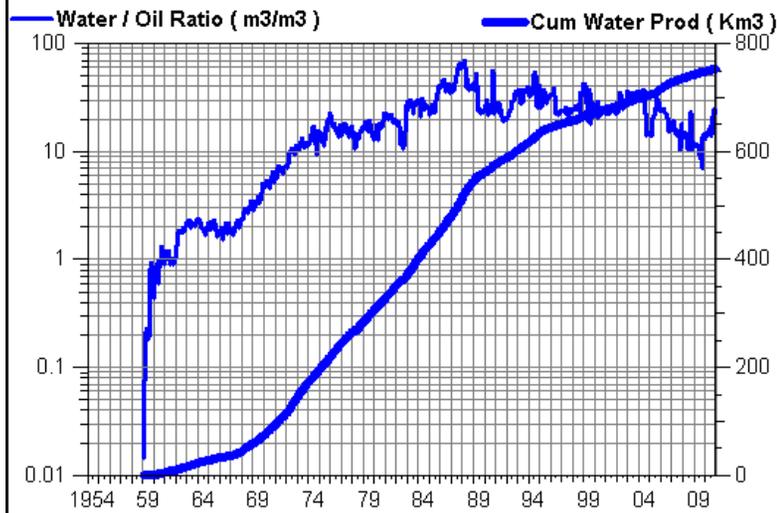
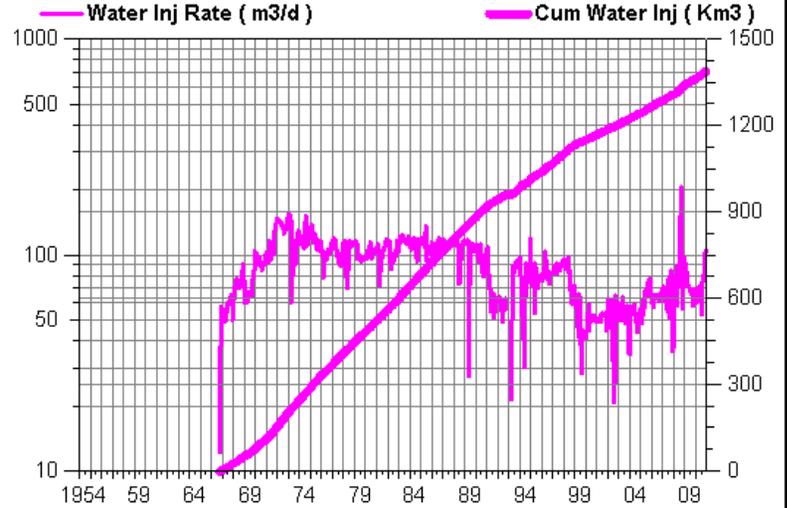
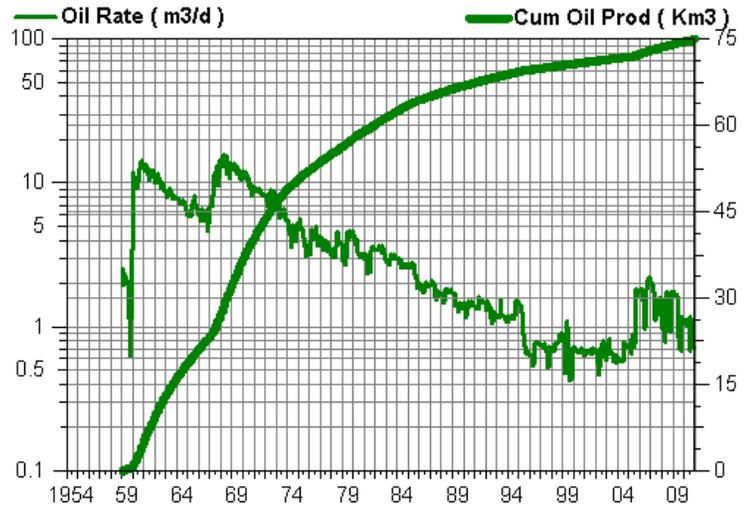
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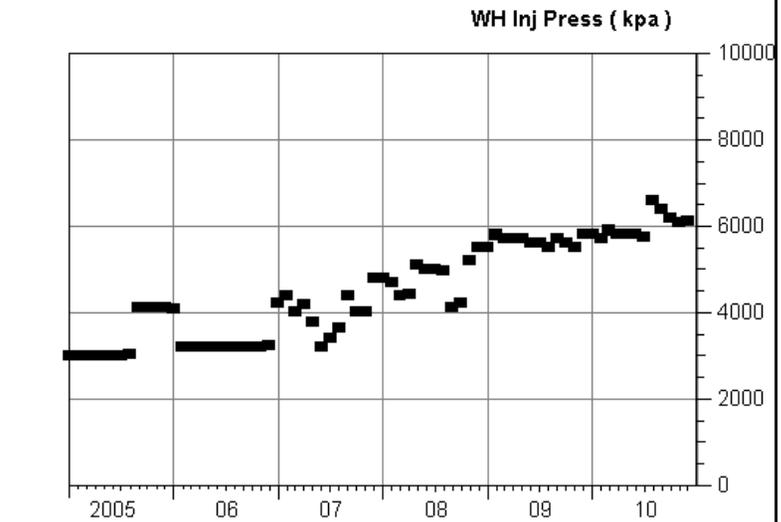
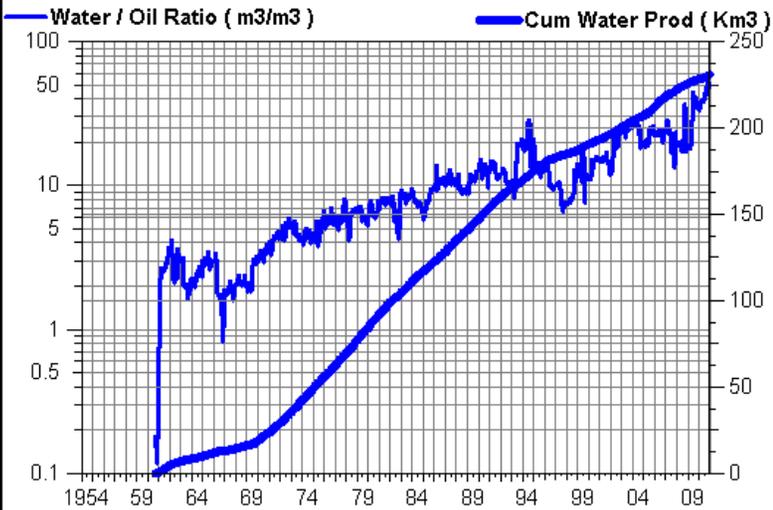
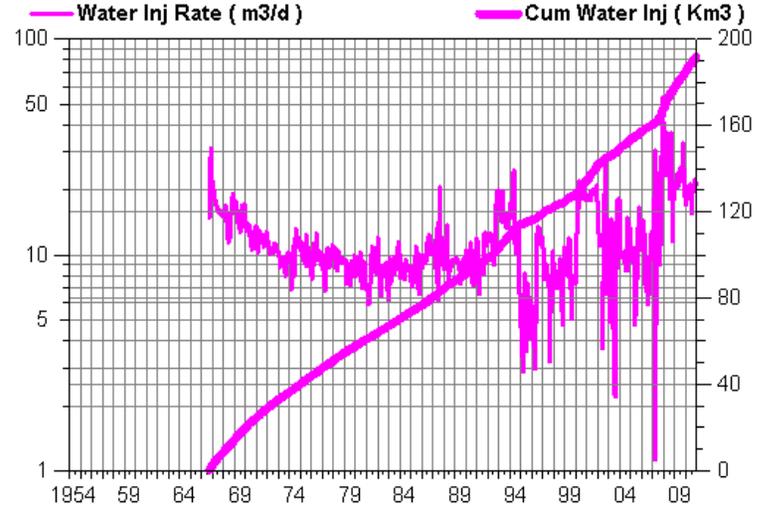
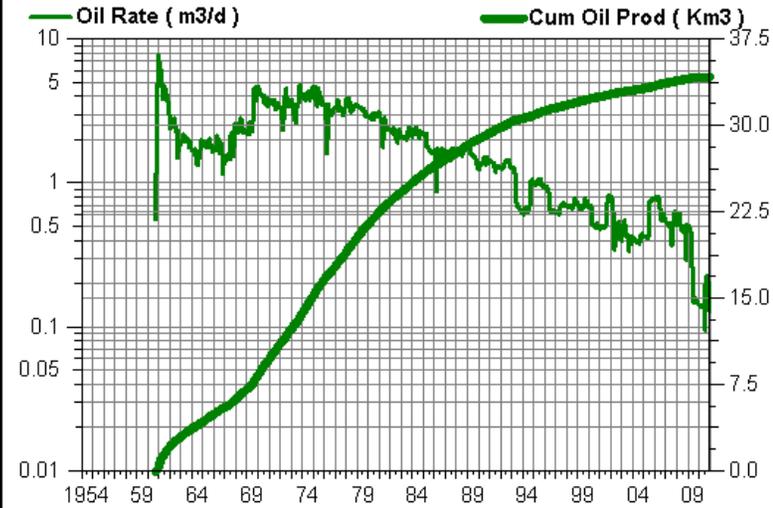
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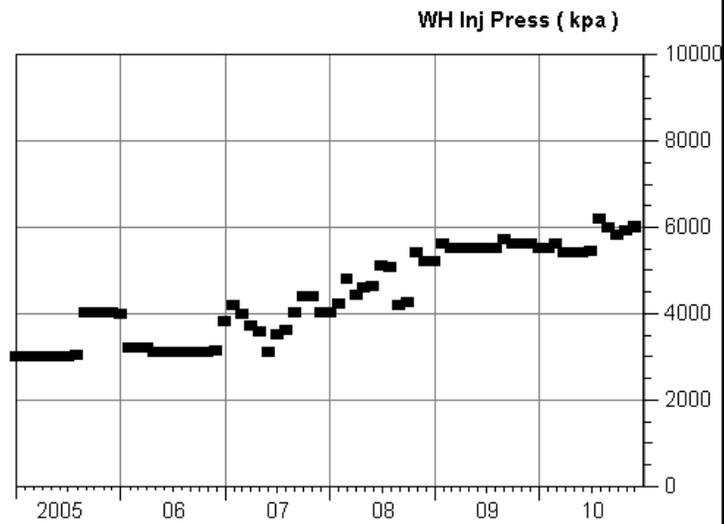
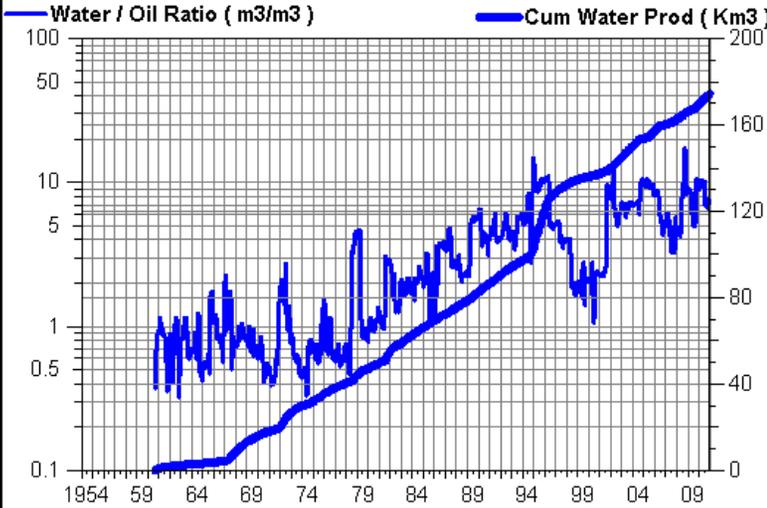
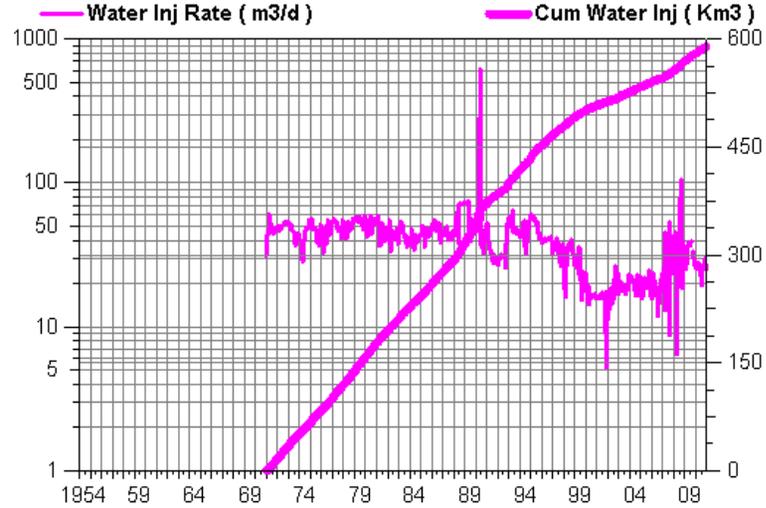
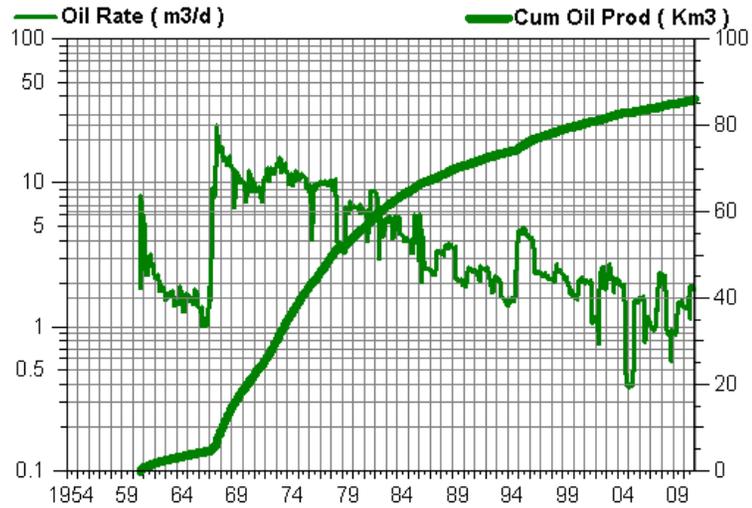
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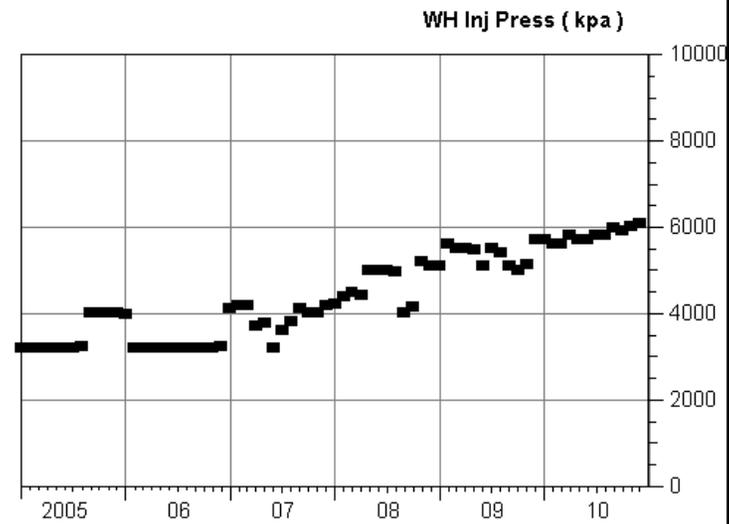
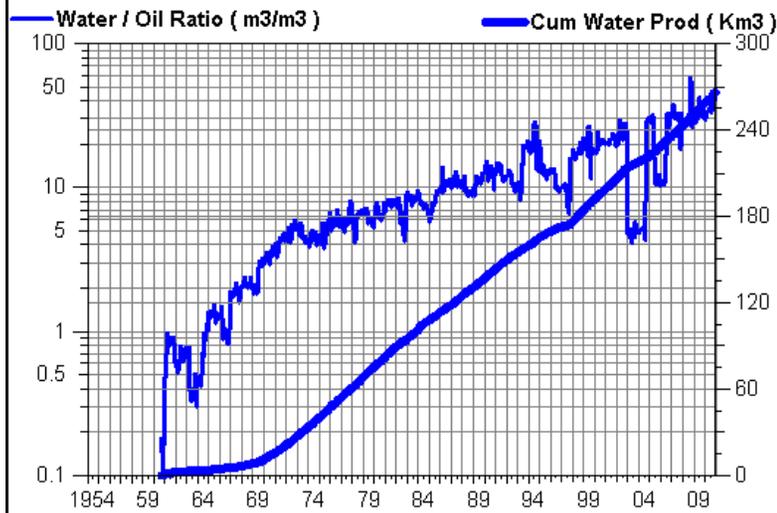
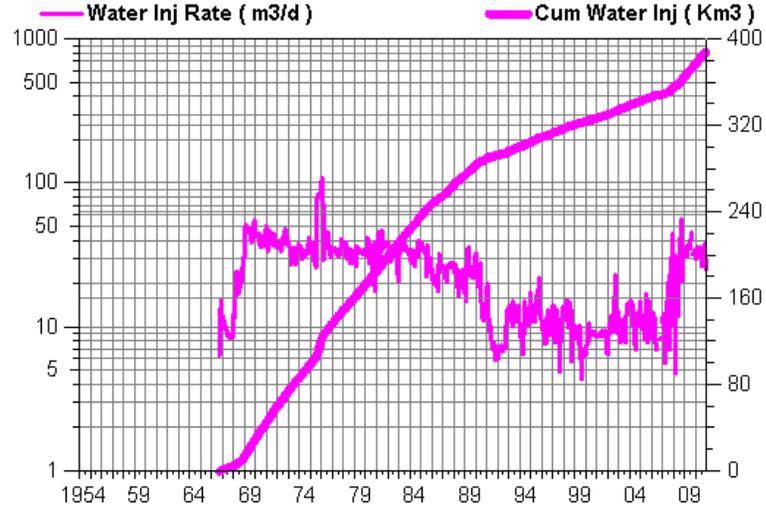
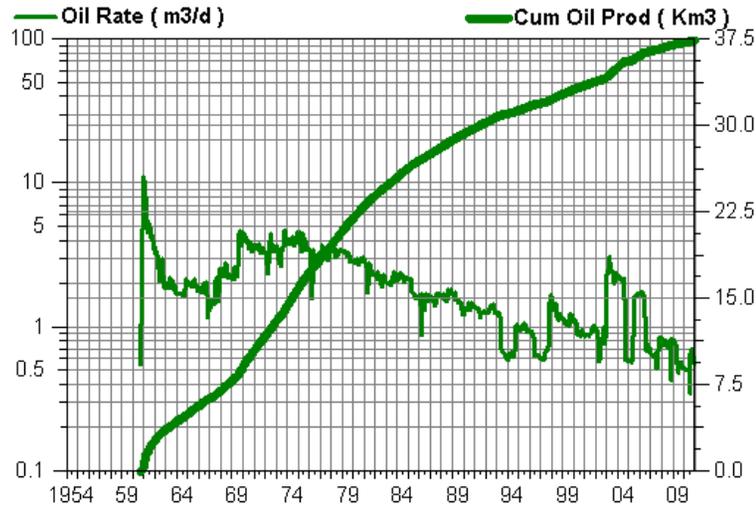
VRU2 Pattern: 00/12-05-011-25W1/0



VRU2 Pattern: 00/12-06-011-25W1/0



VRU2 Pattern: 00/16-06-011-25W1/0



VRU2 Pattern: 00/14-05-011-25W1/0

