

**Daly Unit #3**  
**2016 Annual EOR Report**

## **Executive Summary**

In 2016 oil production in the Daly Unit #3 was 99.3 m<sup>3</sup>/d (624 bbl/d) totaling 36.2 e<sup>3</sup>m<sup>3</sup> (227.8 mbbbl). Annual production was up 0.3% from 2015 to 2016, and was held relatively flat for the year. By the end of 2016 cumulative oil production from the Daly Unit #3 was 2,209 e<sup>3</sup>m<sup>3</sup> (13.89 mmbbl).

In December 2016 there were 53 producing oil wells and 14 water injectors active in the unit.

## Discussion

By 1957 the bulk of the development drilling was complete and since then little development has occurred. Water injection began 2 years after the initial production and provided pressure support immediately. Peak production occurred in 1955 at 213 m<sup>3</sup>/d (1,340 bbl/d). In 1984 more producing wells began to be converted to injection wells. As a result of increased water injection, production went from ~75 m<sup>3</sup>/d in 1984 to ~95 m<sup>3</sup>/d in 1992. This is a very poor increase in production with secondary recovery, the waterflood response was muted compared to all the other units and did not appear to be successful.

Horizontal drilling has been done previously within the unit. In 1996 two wells were drilled and in 1997 three wells were drilled. These unstimulated horizontal wells produce at modest rates, but have high oil cut and added valuable incremental recoverable reserves to the unit. The low decline production profile of these wells contrasts significantly to horizontal wells produced under primary recovery indicating effective pressure maintenance. Their impact is shown below at a cumulative oil recovery of 1 700 e<sup>3</sup>m<sup>3</sup> (10.7 MMbbl). In 2014, three horizontals in the Middle Daly and a vertical Crinoidal well were drilled in the unit. In 2015, an additional two Middle Daly wells were drilled as well as a Crinoid vertical well. In 2016, two re-entry legs were drilled off of an existing Daly horizontal well. The wells, especially the horizontals, were successful and greatly improved unit production.

The significant operations in 2016 are as follows:

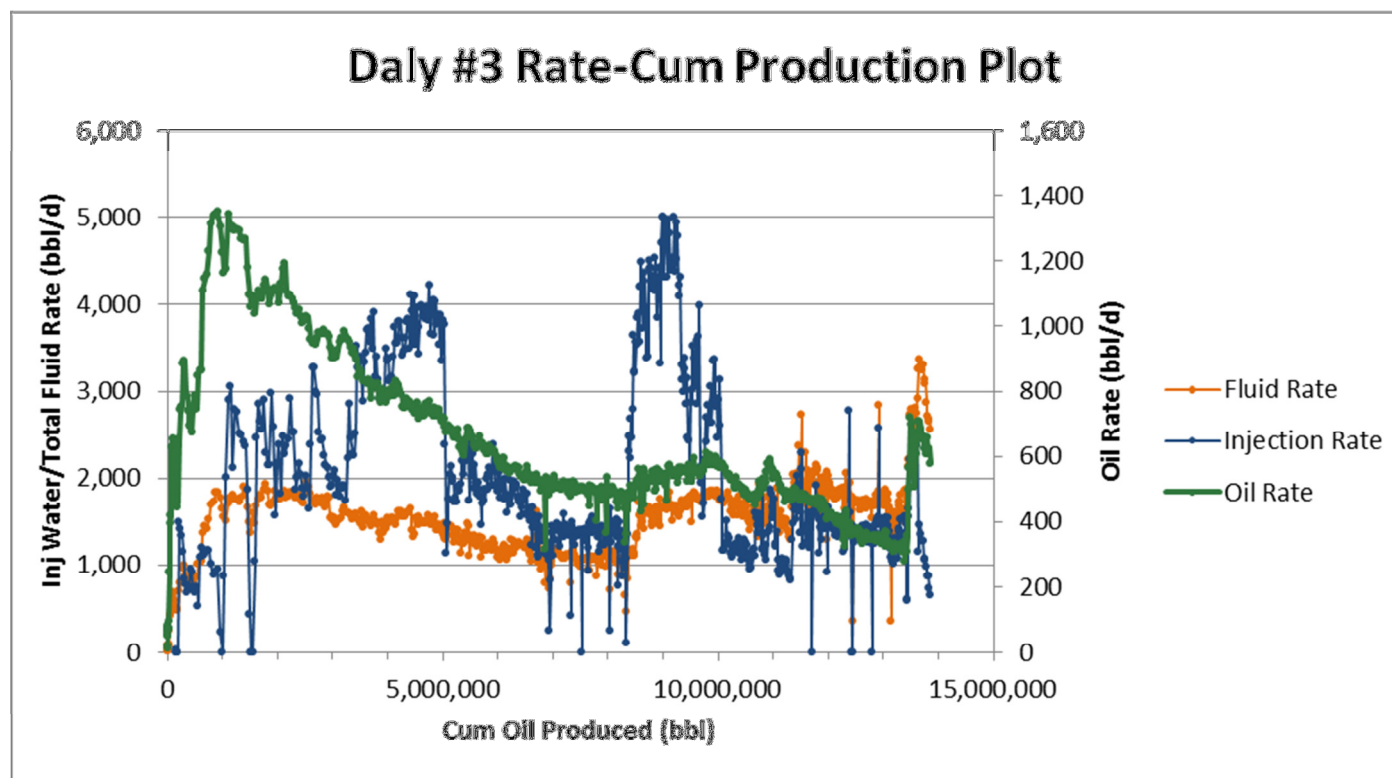
- March 2016, recompleted the 100/14-13-010-28W1/00 vertical well in the Flossie formation.
- September 2016, begin a battery upgrade.
- September 2016, drilled two re-entry legs off of the 102/03-12-010-28W1/00 horizontal well.

Historically, the waterflood has not been particularly effective, as the high oil cuts throughout the unit can attest. The water may have provided pressure support, but it appears as if there was very little effective sweep in the reservoir and water, in general, has not been broken through. This is apportioned to out of zone injection. With the currently high oil cuts it is easier to drill in the unit, but effective secondary recovery will

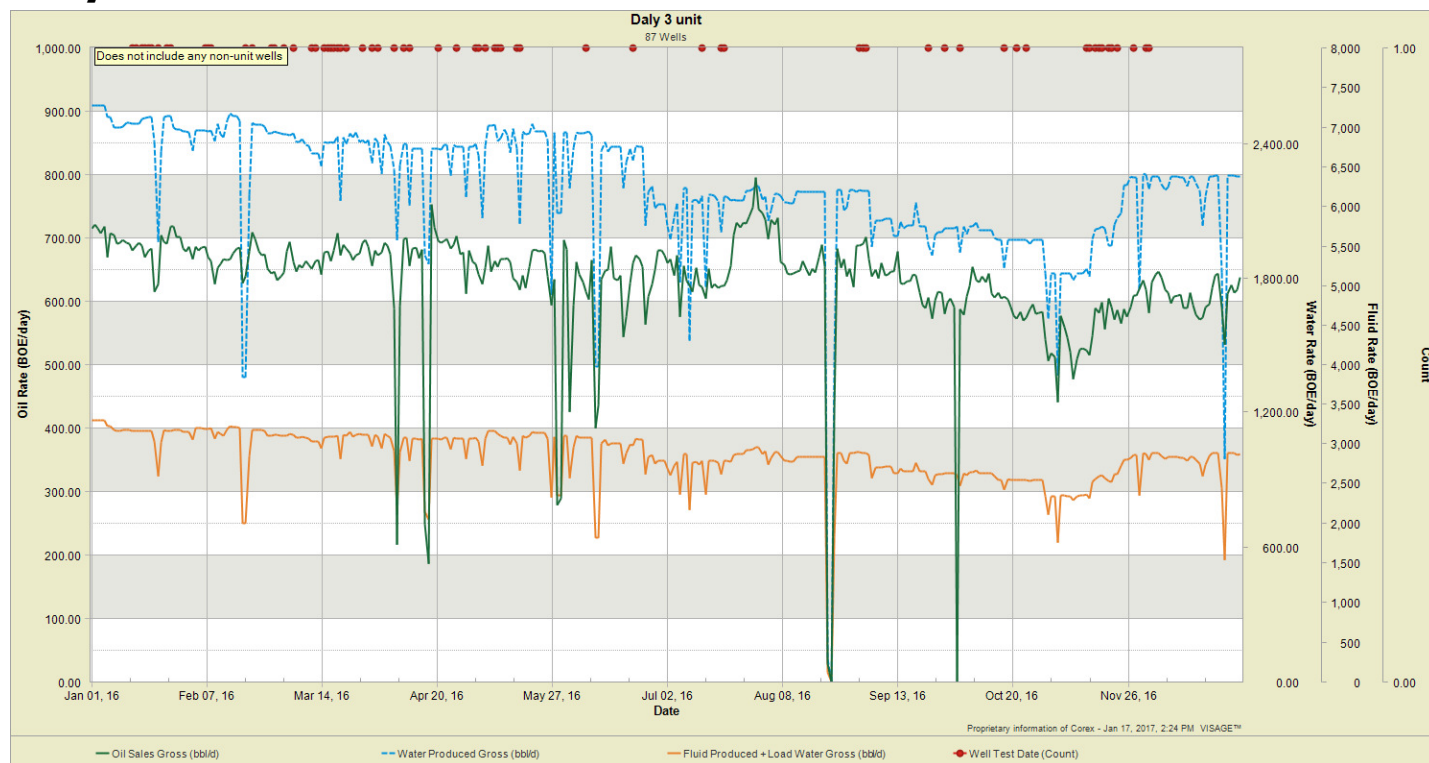
need to be implemented. Furthermore, Chevron while drilling lost a well when they encountered 15 MPa in the Amaranth formation, clearly due to out of zone injection. In some of the wells the casing did not reach past the Amaranth and so injection water was placed in the zone and pressured it up. Therefore, Corex implements extra precautions when drilling in the unit, ensuring the safe drilling of wells. The unit has plenty of potential and improving the waterflood would be beneficial; however, the old verticals should not be considered for injection conversion. The unit is currently set up fully with 5-spot patterns. The water injection rate was 155 m<sup>3</sup>/d (976 bbl/d) in 2016 and the WOR was 3.7 m<sup>3</sup>/m<sup>3</sup>. The injected water is not filtered or treated. The water injection rate in the unit is quite low, some clean outs of injectors may be attempted to improve the injectivity in desired areas.

Detailed production, injection, voidage tables and plots for the total unit and each injection pattern are at the end of this report.

## Daly #3 – Rate vs Cum Oil Production



## Daly #3 – Rate vs Time



## 2016 Reservoir Pressure Surveys

No pressure surveys were conducted in Daly Unit #3 in 2016, below is a list of the pressures taken in 2015:

Unit	UWI	License	Test Type	Date of Pressure	Duration of SI (days)	Datum BHP (kPaa)
Daly #3	100/11-01-010-28W1/00	1801	FL Shot	7/12/2015	6	3,134
Daly #3	100/13-01-010-28W1/00	191	FL Shot	7/12/2015	6	1,209
Daly #3	100/15-01-010-28W1/00	153	FL Shot	7/12/2015	6	1,874
Daly #3	102/05-02-010-28W1/00	10137	AWS BU	7/15/2015	12	961
Daly #3	103/05-02-010-28W1/00	10196	AWS BU	7/15/2015	12	2,936
Daly #3	100/08-02-010-28W1/00	316	FL Shot	7/12/2015	6	469
Daly #3	100/15-02-010-28W1/00	168	FL Shot	7/12/2015	6	1,254
Daly #3	100/09-10-010-28W1/00	324	FL Shot	7/12/2015	6	1,716
Daly #3	100/06-11-010-28W1/00	921	FO	7/12/2015	6	7,875
Daly #3	100/08-11-010-28W1/00	193	FO	7/12/2015	6	11,719
Daly #3	102/08-11-010-28W1/00	10172	AWS BU	7/15/2015	12	2,325
Daly #3	100/10-11-010-28W1/00	930	FO	7/12/2015	6	11,676
Daly #3	102/12-11-010-28W1/00	10174	AWS BU	7/15/2015	12	7,014
Daly #3	103/12-11-010-28W1/00	10269	AWS BU	7/15/2015	12	6,332
Daly #3	100/15-11-010-28W1/00	890	FL Shot	7/12/2015	6	4,540
Daly #3	100/02-12-010-28W1/00	36	FO	7/12/2015	6	12,458
Daly #3	102/03-12-010-28W1/00	4733	AWS BU	5/20/2015	23	7,038
Daly #3	100/09-12-010-28W1/00	1043	FL Shot	7/12/2015	6	3,412
Daly #3	100/13-12-010-28W1/00	815	BH BU Below BP	7/16/2015	8	2,932
Daly #3	100/04-13-010-28W1/00	576	FO	7/12/2015	6	11,107
Daly #3	100/05-13-010-28W1/00	602	FL Shot	7/12/2015	6	923
Daly #3	100/14-13-010-28W1/00	692	FL Shot	7/12/2015	6	2,497
Daly #3	100/07-24-010-28W1/00	1104	FL Shot	7/12/2015	6	2,831

In general, the pressures vary widely in the unit, although many of the producing wells have low pressures. From the limited 2015 data the average reservoir pressure is 4 700 kPaa. The initial reservoir pressure is estimated at 6 585 kPaa and the bubble point pressure as 1 515 kPaa.

There are some wells in the unit with noticeably low pressures. Oddly, historical data shows many producers surrounded by injectors have had low pressures in the 1,000 kPa range, further indicating poor sweep efficiency and out of zone injection. This observation is supported by the data collected in 2015, where some very low pressures were seen in the producing wells. For a unit that has been under water flood for 57 years, clearly the water is not in zone to provide pressure support. The large periods where, historically, they over injected likely contributed to the out of zone injection. Despite many producers near to injectors with low pressures there are also wells far away from injection that have been seen to have high pressures that cannot be easily

rationalized. The huge range in pressures in wells close to injectors and producers with high oil cuts indicate that there is poor communication between many of the injectors and the producers and that the waterflood cannot be taken to be successful. Considering this, the unit has plenty of opportunity if a successful waterflood is implemented, as seen in the other units.

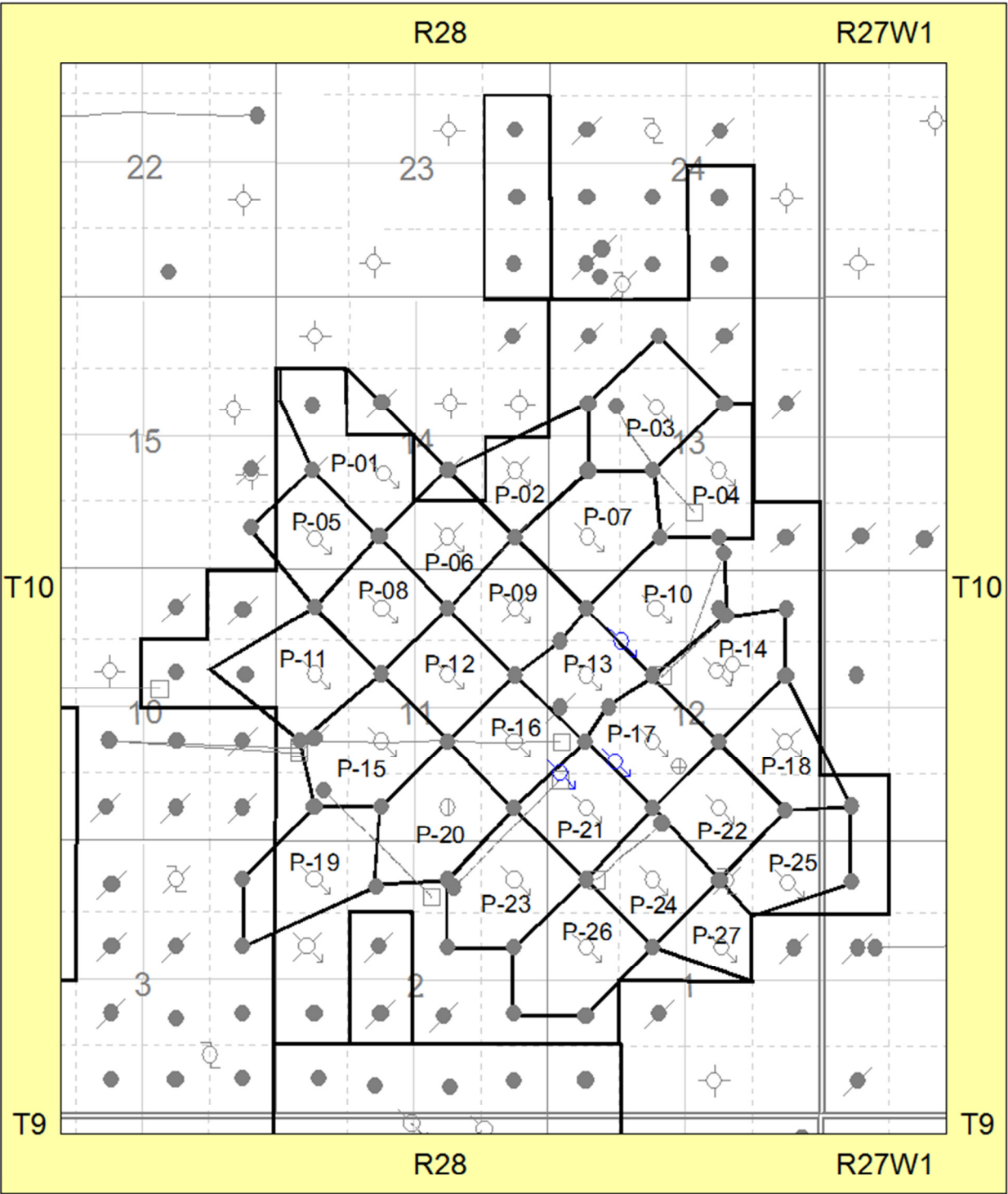
The VRR in 2016 was started at 0.4 and fell to 0.3 at year end. The cumulative VRR at year end was 1.24, continuing to drop. It is encouraging that the over injection is being reduced. An oil formation volume factor of  $1.06 \text{ m}^3/\text{m}^3$  and a water formation volume factor of  $1.04 \text{ m}^3/\text{m}^3$  were used in the VRR calculations.

## 2016 Well Servicing

UWI	Unit	Licence	Operation	Date	Objective
100/14-13-010-28W1/00	DU#3	000692	Recompletion	30-Jan-16	
102/10-01-010-28W1/00	DU#3	10173	Install Compressor	21-Mar-16	
102/10-01-010-28W1/00	DU#3	10173	Pump Repair	22-Jul-16	
BATTERY UPGRADE	DU#3	F16DAL001	Battery Upgrade	3-Mar-16	
102/12-13-010-28W1/00	DU#3	004764	Pump Repair	21-Mar-16	
LOW PRESSURE FLARE SYSTEM	DU#3	F16DAL019	Battery Upgrade	13-Dec-16	
102/03-12-010-28W1/00	DU#3	004733	Equip Only	14-Sep-16	
102/03-12-010-28W1/00	DU#3	004733	Completion	16-Sep-16	DALY COMPLETION
102/03-12-010-28W1/00	DU#3	004733	Construction	20-Sep-16	
102/03-12-010-28W1/00	DU#3	004733	Drilling - re-entry	23-Sep-16	
TURNAROUND	DU#3	T16DAL002	Turnaround	15-Jul-16	
102/08-11-010-28W1/00	DU#3	10172	Pump Repair	4-Jul-16	
100/14-02-010-28W1/00	DU#3	000225	Pipelines	18-Oct-16	
102/15-02-010-28W1/00	DU#3	004613	Pump Repair	20-May-16	
102/04-11-010-28W1/00	DU#3	004611	Pipelines	29-Feb-16	
MAJOR SURFACE R&M	DU#3	RM16DAL006	Major Surface R&M	22-Aug-16	
102/15-12-010-28W1/00	DU#3	4735	Pump Repair	30-Sep-16	
102/15-12-010-28W1/00	DU#3	4735	Reconfigure Tubing/Components	2-Dec-16	
TEML - LACT - 02-11-10-28	DU#3	F16DAL015	Battery Upgrade	16-Aug-16	
103/05-02-010-28W1/00	DU#3	10196	Install Compressor	4-May-16	
103/05-02-010-28W1/00	DU#3	10196	Cathodic	1-Nov-16	
103/05-02-010-28W1/00	DU#3	10196	Pump Repair	21-Nov-16	



# Waterflood Pattern Map

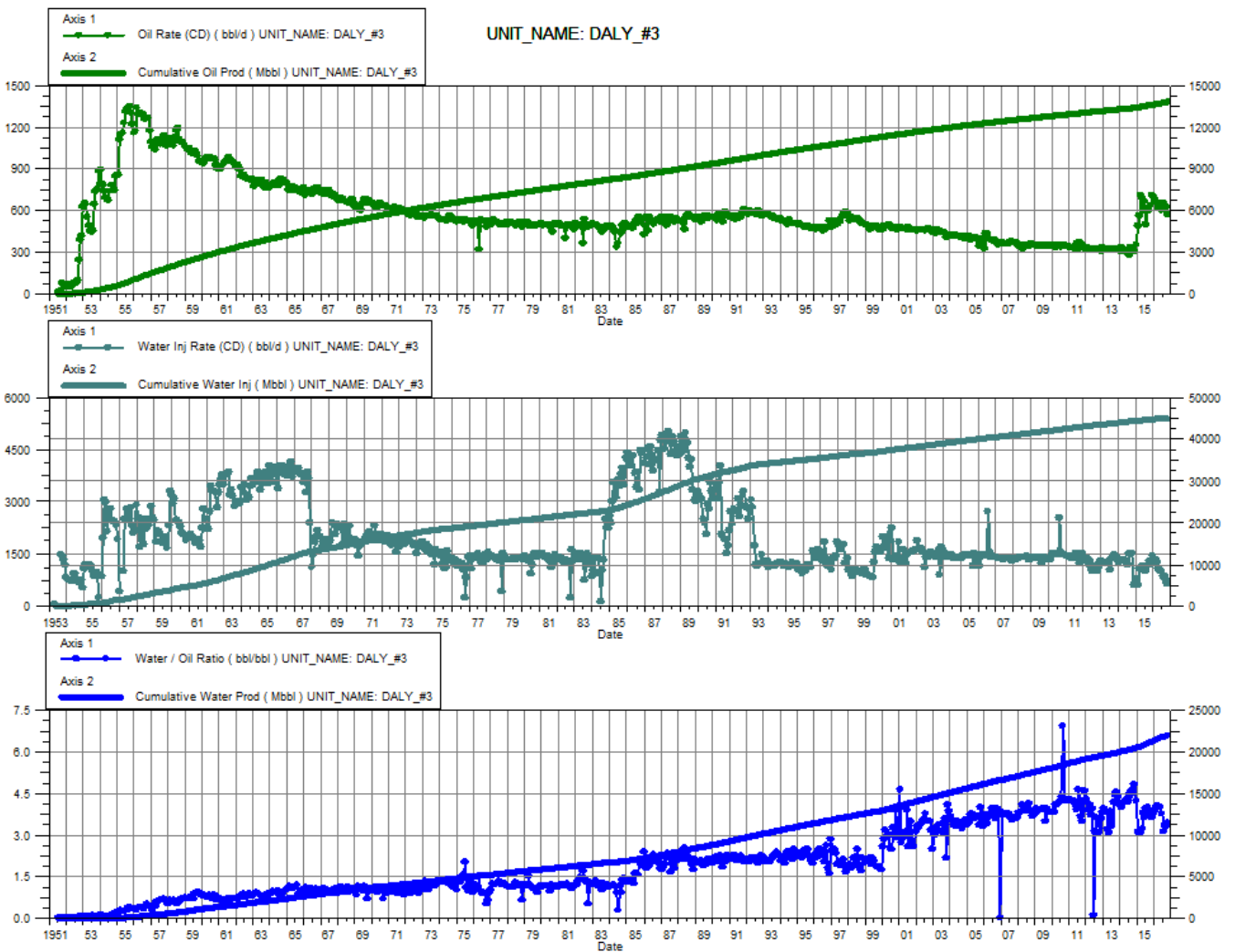


## Waterflood Pattern Table

Pattern	Well
P-01	100/06-14-010-28W1/00
P-02	100/08-14-010-28W1/00
P-03	100/11-13-010-28W1/00
P-04	100/07-13-010-28W1/00
P-05	100/04-14-010-28W1/00
P-06	100/02-14-010-28W1/00
P-07	100/04-13-010-28W1/00
P-08	100/14-11-010-28W1/00
P-09	100/16-11-010-28W1/00
P-10	100/14-12-010-28W1/00
P-10	1B0/14-12-010-28W1/00
P-11	100/12-11-010-28W1/00
P-12	100/10-11-010-28W1/00
P-13	100/12-12-010-28W1/00
P-14	100/10-12-010-28W1/00
P-15	100/06-11-010-28W1/00
P-16	100/08-11-010-28W1/00
P-17	100/06-12-010-28W1/00
P-17	1A0/05-12-010-28W1/00
P-18	100/08-12-010-28W1/00
P-19	100/13-02-010-28W1/00
P-20	100/02-11-010-28W1/00
P-21	100/04-12-010-28W1/00
P-21	1B0/05-12-010-28W1/00
P-22	100/02-12-010-28W1/00
P-23	100/16-02-010-28W1/00
P-24	100/14-01-010-28W1/00
P-25	100/16-01-010-28W1/00
P-26	100/12-01-010-28W1/00

## Total for Daly Unit #3

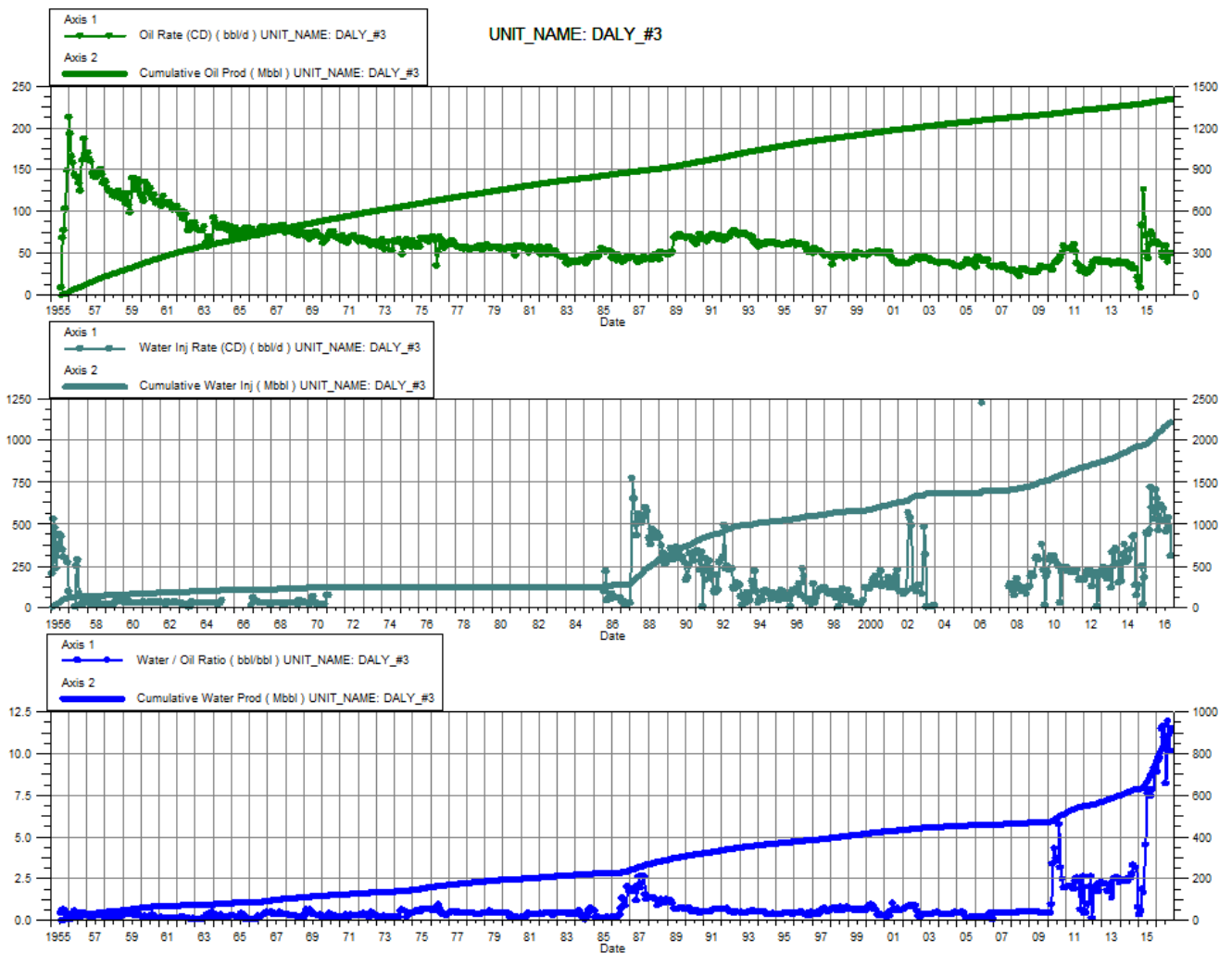
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	108.29	2174.22	415.59	3403.90	211.44	7130.93	3.84	0.40	1.27	5,613.61
2/29/2016	103.95	2177.23	410.58	3415.81	214.09	7137.14	3.95	0.41	1.27	5,691.33
3/31/2016	104.94	2180.48	421.34	3428.87	199.33	7143.31	4.01	0.38	1.26	5,747.52
4/30/2016	99.09	2183.46	399.22	3440.85	169.92	7148.41	4.03	0.34	1.26	5,764.35
5/31/2016	98.80	2186.52	391.95	3453.00	166.27	7153.57	3.97	0.34	1.26	5,764.63
6/30/2016	96.17	2189.40	360.15	3463.80	157.39	7158.29	3.75	0.34	1.26	5,773.04
7/31/2016	104.10	2192.63	326.49	3473.92	135.98	7162.50	3.14	0.31	1.26	5,771.57
8/31/2016	97.50	2195.65	324.63	3483.99	135.06	7166.69	3.33	0.32	1.25	5,727.39
9/30/2016	99.34	2198.63	326.52	3493.78	118.58	7170.25	3.29	0.28	1.25	5,466.49
10/31/2016	91.82	2201.48	314.05	3503.52	101.74	7173.40	3.42	0.25	1.25	5,509.06
11/30/2016	87.61	2204.11	315.63	3512.99	114.56	7176.84	3.60	0.28	1.25	5,495.40
12/31/2016	95.35	2207.06	351.16	3523.87	135.28	7181.03	3.68	0.30	1.24	5,500.00



## Daly Unit No. 3

### Pattern P-01 - 00/06-14-010-28W1/00

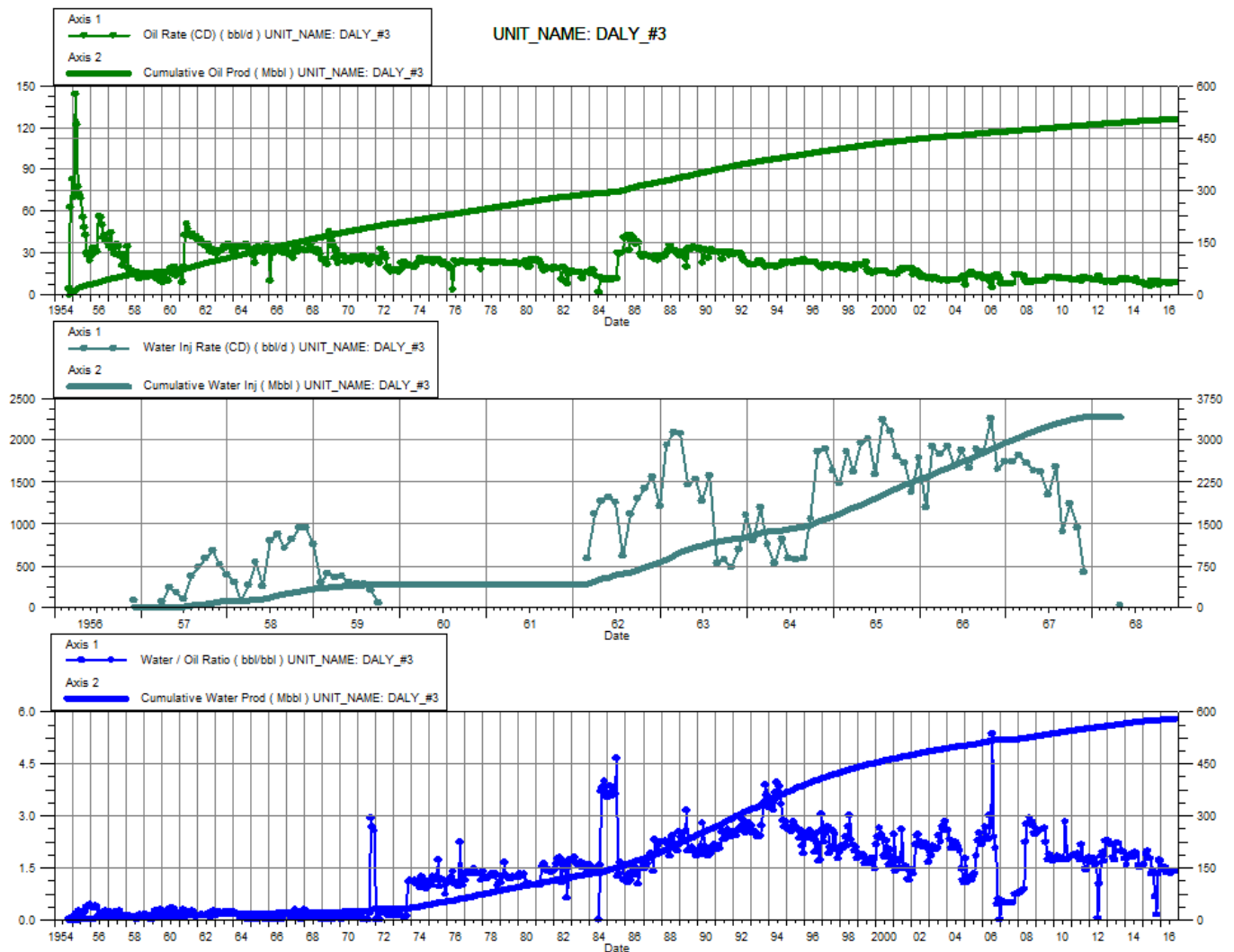
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	10.15	221.71	89.68	123.23	103.55	331.44	8.83	1.04	0.95	--
2/29/2016	9.75	221.99	93.22	125.93	73.61	333.58	9.56	0.71	0.95	--
3/31/2016	9.60	222.29	93.13	128.82	82.31	336.13	9.70	0.80	0.95	--
4/30/2016	7.83	222.52	89.92	131.52	98.03	339.07	11.48	1.00	0.95	--
5/31/2016	7.33	222.75	85.27	134.16	93.63	341.97	11.64	1.01	0.95	--
6/30/2016	7.38	222.97	80.62	136.58	83.59	344.48	10.92	0.95	0.95	--
7/31/2016	9.50	223.26	77.56	138.98	72.35	346.72	8.17	0.83	0.95	--
8/31/2016	6.29	223.46	75.09	141.31	75.83	349.07	11.94	0.93	0.95	--
9/30/2016	8.04	223.70	81.41	143.75	85.26	351.63	10.12	0.95	0.95	--
10/31/2016	8.00	223.95	80.80	146.26	48.45	353.13	10.10	0.55	0.94	--
11/30/2016	8.06	224.19	81.09	148.69	74.74	355.37	10.06	0.84	0.94	--
12/31/2016	8.03	224.44	80.37	151.18	84.85	358.00	10.01	0.96	0.94	--



# Daly Unit No. 3

## Pattern P-02 - 00/08-14-010-28W1/00

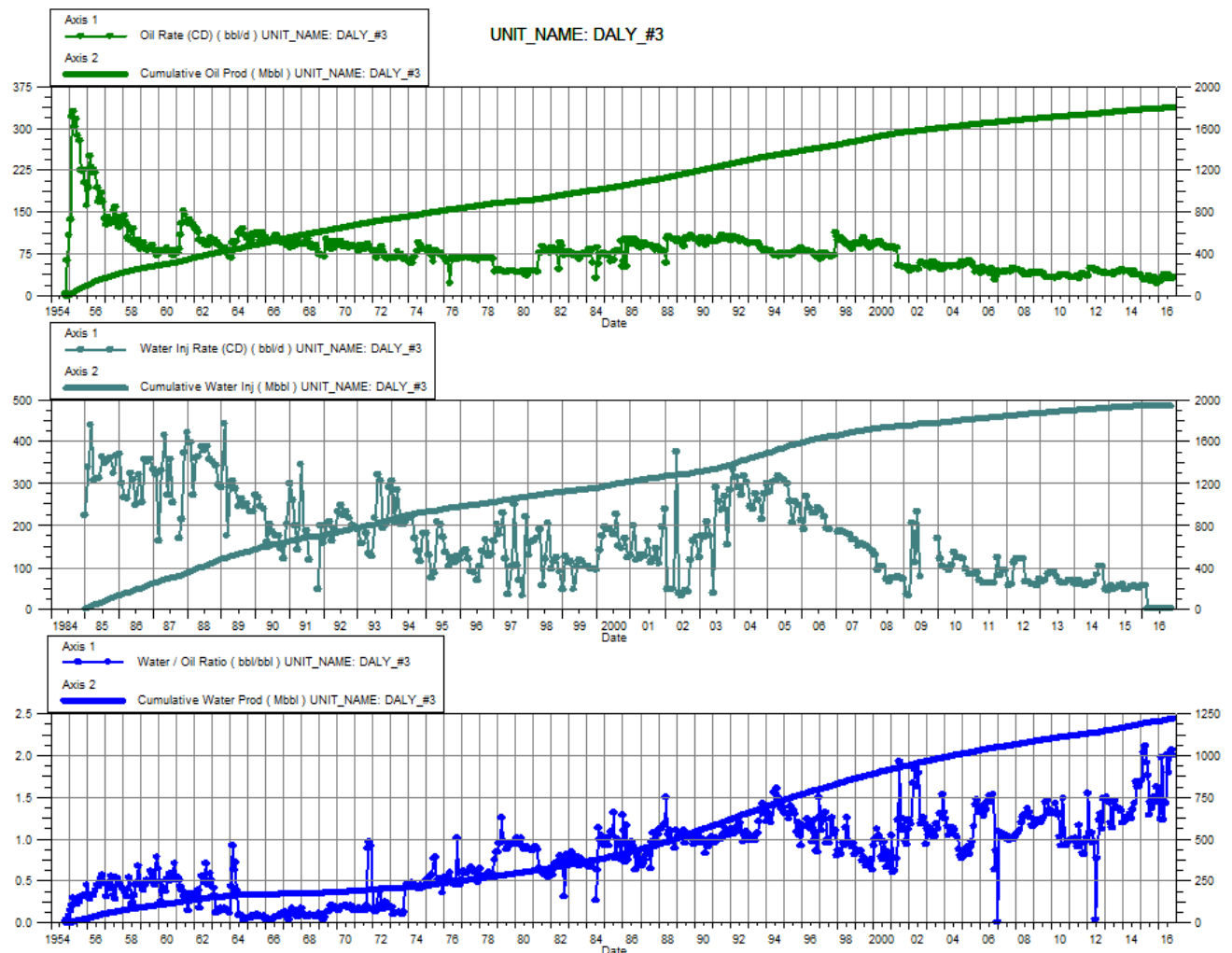
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	1.47	79.97	2.08	91.81		542.96	1.42		3.13	--
2/29/2016	1.41	80.01	2.14	91.87		542.96	1.52		3.13	--
3/31/2016	1.44	80.05	2.18	91.94		542.96	1.52		3.13	--
4/30/2016	1.36	80.09	1.86	91.99		542.96	1.37		3.13	--
5/31/2016	1.34	80.14	1.93	92.05		542.96	1.44		3.13	--
6/30/2016	1.31	80.18	1.82	92.11		542.96	1.40		3.12	--
7/31/2016	1.45	80.22	1.93	92.17		542.96	1.33		3.12	--
8/31/2016	1.34	80.26	1.87	92.23		542.96	1.40		3.12	--
9/30/2016	1.44	80.31	1.99	92.29		542.96	1.38		3.12	--
10/31/2016	1.44	80.35	1.98	92.35		542.96	1.38		3.12	--
11/30/2016	1.45	80.39	1.99	92.41		542.96	1.38		3.11	--
12/31/2016	1.47	80.44	2.00	92.47		542.96	1.36		3.11	--



## Daly Unit No. 3

### Pattern P-03 - 00/11-13-010-28W1/00

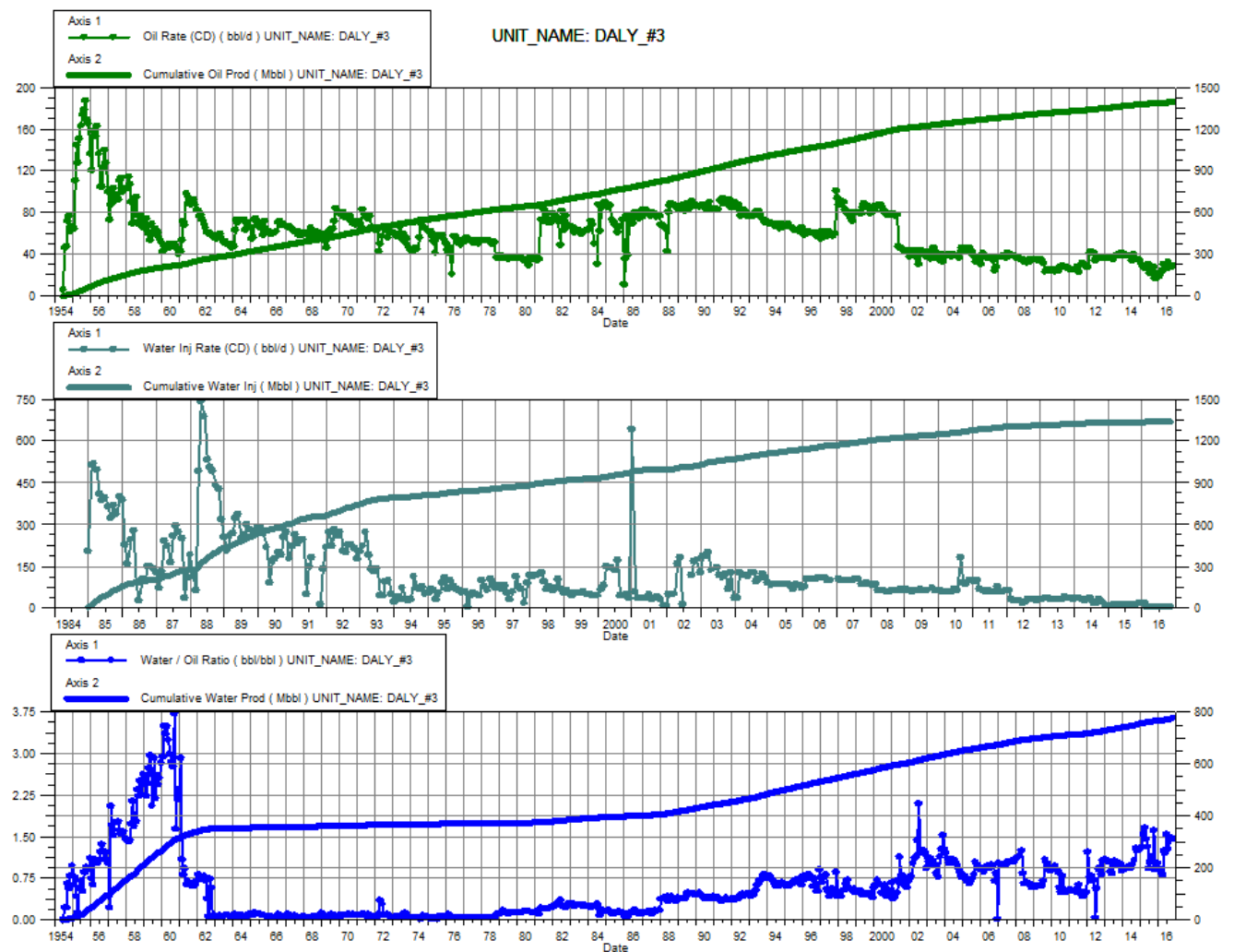
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	3.91	285.48	4.85	192.15	8.74	309.64	1.24	0.99	0.64	6,203.23
2/29/2016	4.29	285.61	8.46	192.40	0.08	309.65	1.97	0.01	0.64	6,300.00
3/31/2016	5.32	285.77	6.54	192.60	0.06	309.65	1.23	0.01	0.64	6,300.00
4/30/2016	6.12	285.95	8.79	192.87	0.09	309.65	1.44	0.01	0.64	6,300.00
5/31/2016	6.14	286.14	8.73	193.14	0.09	309.65	1.42	0.01	0.64	6,300.00
6/30/2016	5.09	286.30	10.16	193.44	0.07	309.66	2.00	0.01	0.64	6,300.00
7/31/2016	5.94	286.48	10.65	193.77	0.05	309.66	1.79	0.00	0.64	6,296.77
8/31/2016	4.97	286.63	10.07	194.08	0.05	309.66	2.02	0.00	0.64	6,200.00
9/30/2016	5.13	286.79	10.59	194.40	0.04	309.66	2.06	0.00	0.64	6,213.33
10/31/2016	5.45	286.96	10.93	194.74	0.05	309.66	2.00	0.00	0.64	6,600.00
11/30/2016	5.45	287.12	10.87	195.07	0.12	309.67	1.99	0.01	0.64	6,600.00
12/31/2016	5.41	287.29	10.72	195.40	0.24	309.67	1.98	0.02	0.63	6,600.00



# Daly Unit No. 3

## Pattern P-04 - 00/07-13-010-28W1/00

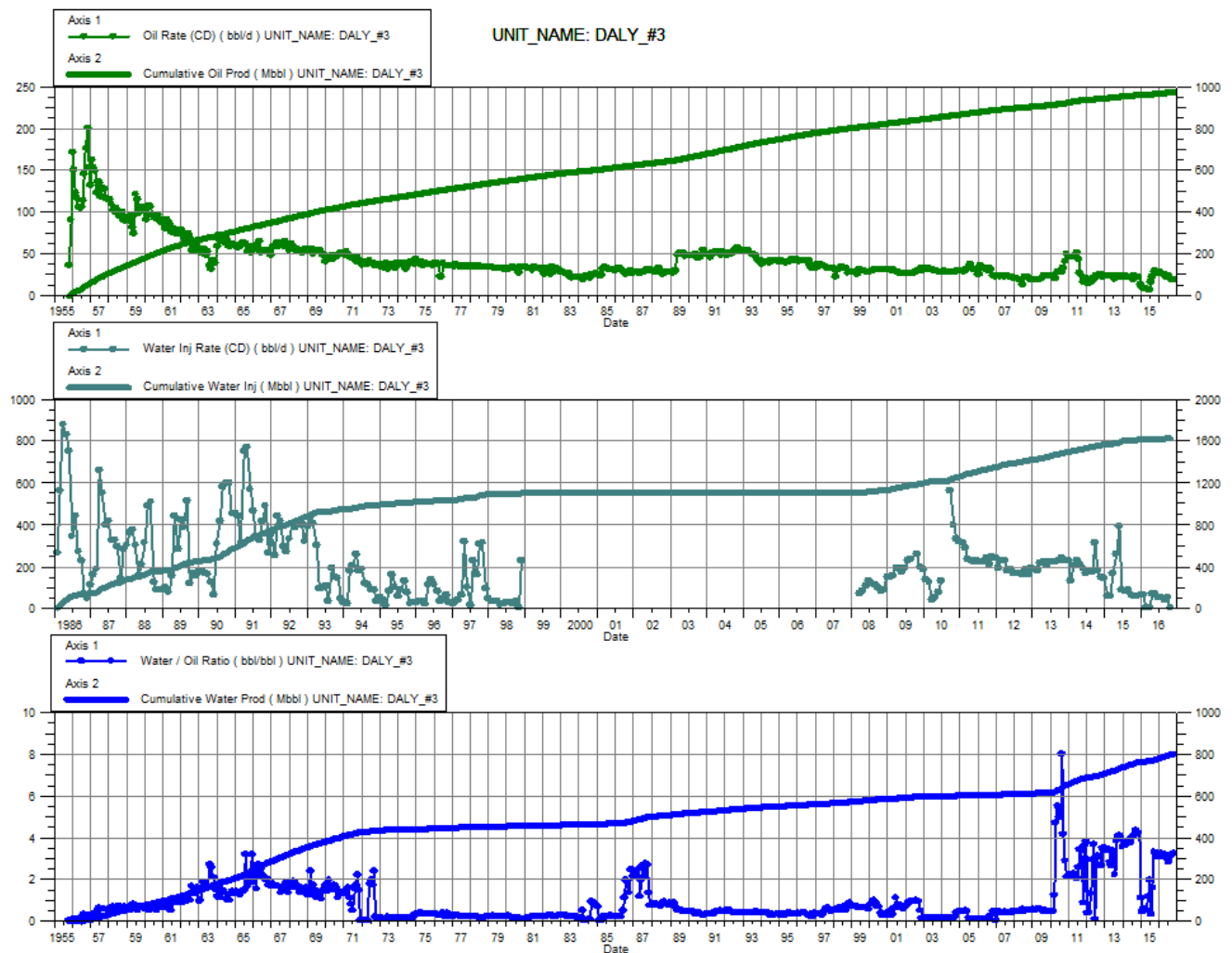
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	2.91	220.94	2.65	121.95	2.18	212.48	0.91	0.39	0.61	6,300.00
2/29/2016	3.17	221.03	2.68	122.03	0.02	212.48	0.84	0.00	0.61	6,300.00
3/31/2016	3.84	221.15	3.10	122.13	0.02	212.48	0.81	0.00	0.61	6,300.00
4/30/2016	4.72	221.29	5.83	122.30	0.07	212.48	1.24	0.01	0.61	6,300.00
5/31/2016	4.76	221.44	5.71	122.48	0.10	212.49	1.20	0.01	0.61	6,300.00
6/30/2016	4.24	221.57	6.51	122.67	0.04	212.49	1.53	0.00	0.61	6,300.00
7/31/2016	5.16	221.73	6.55	122.88	0.07	212.49	1.27	0.01	0.61	6,300.00
8/31/2016	4.24	221.86	6.16	123.07	0.07	212.49	1.45	0.01	0.61	6,300.00
9/30/2016	4.36	221.99	6.38	123.26	0.08	212.49	1.46	0.01	0.61	6,303.33
10/31/2016	4.69	222.13	6.73	123.47	0.08	212.50	1.43	0.01	0.61	6,400.00
11/30/2016	4.68	222.28	6.64	123.67	0.18	212.50	1.42	0.02	0.61	6,400.00
12/31/2016	4.62	222.42	6.47	123.87	0.27	212.51	1.40	0.03	0.61	6,400.00



## Daly Unit No. 3

### Pattern P-05 - 00/04-14-010-28W1/00

Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	4.54	154.14	13.88	124.41	9.80	256.76	3.06	0.53	0.91	6,196.77
2/29/2016	4.31	154.26	13.91	124.81	0.77	256.78	3.23	0.04	0.91	6,100.00
3/31/2016	4.08	154.39	12.46	125.19	0.77	256.80	3.06	0.05	0.91	6,100.00
4/30/2016	3.93	154.50	12.51	125.57	10.82	257.13	3.18	0.66	0.91	6,100.00
5/31/2016	3.50	154.61	10.95	125.91	11.51	257.48	3.13	0.79	0.91	6,100.00
6/30/2016	3.53	154.72	10.61	126.23	8.18	257.73	3.01	0.58	0.91	6,100.00
7/31/2016	3.78	154.84	10.62	126.56	7.94	257.98	2.81	0.55	0.91	6,096.77
8/31/2016	3.03	154.93	9.24	126.84	6.41	258.17	3.05	0.52	0.91	6,000.00
9/30/2016	3.17	155.03	10.09	127.15	7.92	258.41	3.18	0.59	0.91	6,000.00
10/31/2016	3.11	155.12	10.08	127.46	0.81	258.44	3.24	0.06	0.91	5,993.55
11/30/2016	3.10	155.21	10.09	127.76	8.66	258.70	3.26	0.65	0.91	5,800.00
12/31/2016	3.15	155.31	10.00	128.07	9.67	259.00	3.18	0.73	0.90	5,800.00

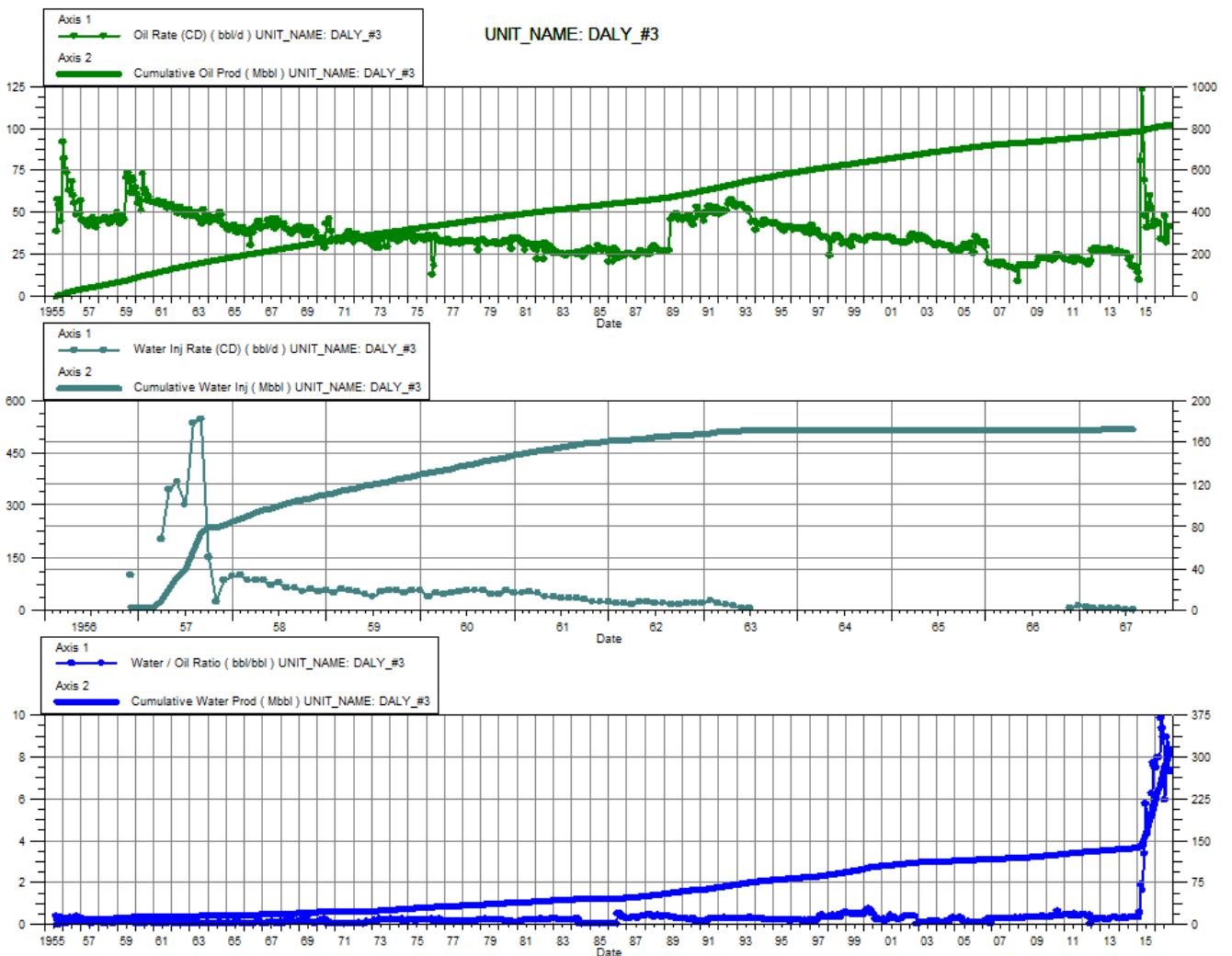




## Daly Unit No. 3

### Pattern P-06 - 00/02-14-010-28W1/00

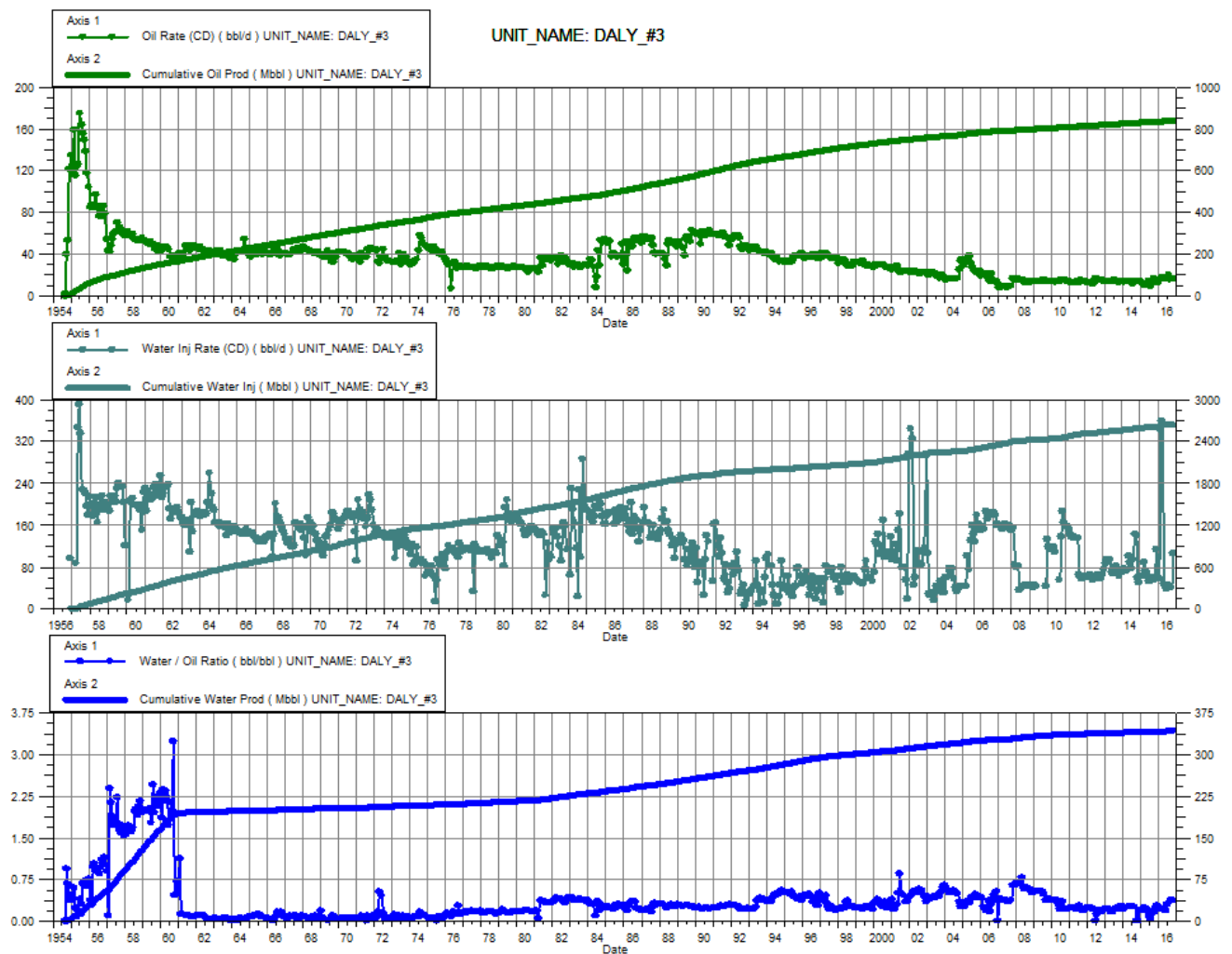
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	7.15	128.15	53.22	36.05		27.41	7.44		0.16	--
2/29/2016	6.87	128.35	54.39	37.63		27.41	7.92		0.16	--
3/31/2016	6.99	128.57	55.42	39.35		27.41	7.93		0.16	--
4/30/2016	5.44	128.73	53.65	40.96		27.41	9.86		0.16	--
5/31/2016	5.43	128.90	50.86	42.53		27.41	9.37		0.16	--
6/30/2016	5.40	129.06	48.25	43.98		27.41	8.93		0.16	--
7/31/2016	7.65	129.30	45.39	45.39		27.41	5.94		0.16	--
8/31/2016	5.04	129.45	44.96	46.78		27.41	8.93		0.15	--
9/30/2016	6.66	129.65	49.09	48.25		27.41	7.37		0.15	--
10/31/2016	6.61	129.86	48.00	49.74		27.41	7.26		0.15	--
11/30/2016	6.66	130.06	48.54	51.20		27.41	7.29		0.15	--
12/31/2016	6.64	130.26	47.43	52.67		27.41	7.14		0.15	--



## Daly Unit No. 3

### Pattern P-07 - 00/04-13-010-28W1/00

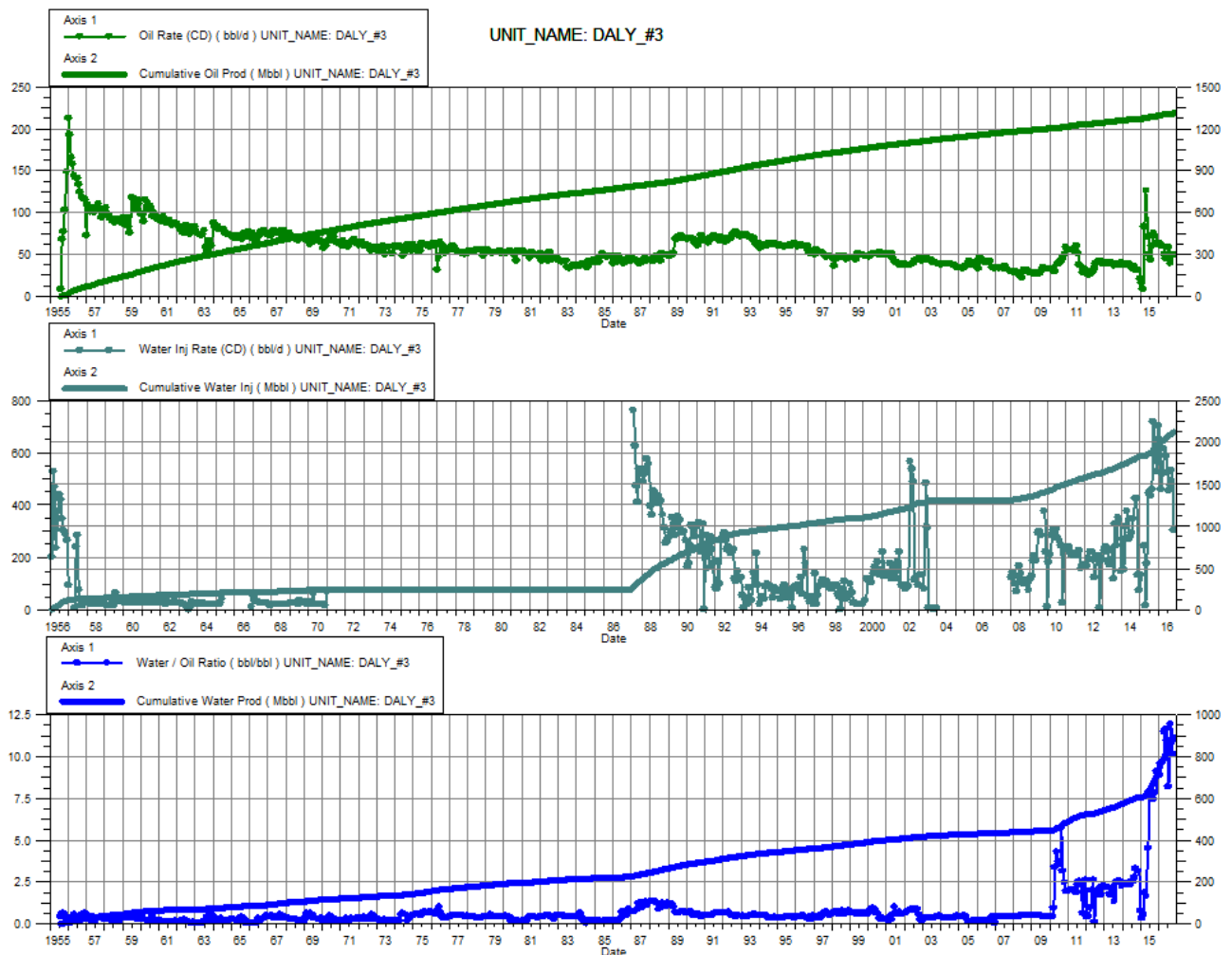
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	2.41	133.02	0.54	54.37	8.97	416.49	0.23	3.00	2.19	6,400.00
2/29/2016	2.73	133.10	0.57	54.39	54.33	418.07	0.21	16.21	2.20	6,400.00
3/31/2016	2.79	133.19	0.57	54.40	57.37	419.85	0.21	16.80	2.21	6,400.00
4/30/2016	2.60	133.26	0.51	54.42	7.62	420.08	0.20	2.41	2.21	6,400.00
5/31/2016	2.60	133.35	0.51	54.43	7.27	420.30	0.19	2.31	2.21	6,400.00
6/30/2016	2.93	133.43	0.85	54.46	6.02	420.48	0.29	1.57	2.21	6,400.00
7/31/2016	3.18	133.53	1.00	54.49	7.18	420.71	0.31	1.70	2.21	6,400.00
8/31/2016	2.49	133.61	0.94	54.52	6.80	420.92	0.38	1.96	2.21	6,400.00
9/30/2016	2.73	133.69	1.02	54.55	6.44	421.11	0.37	1.70	2.21	6,380.00
10/31/2016	2.73	133.78	1.02	54.58	17.02	421.64	0.37	4.49	2.21	5,800.00
11/30/2016	2.69	133.86	0.99	54.61	6.14	421.82	0.37	1.64	2.21	5,800.00
12/31/2016	2.78	133.94	1.03	54.64	8.20	422.08	0.37	2.13	2.21	5,800.00



## Daly Unit No. 3

### Pattern P-08 - 00/14-11-010-28W1/00

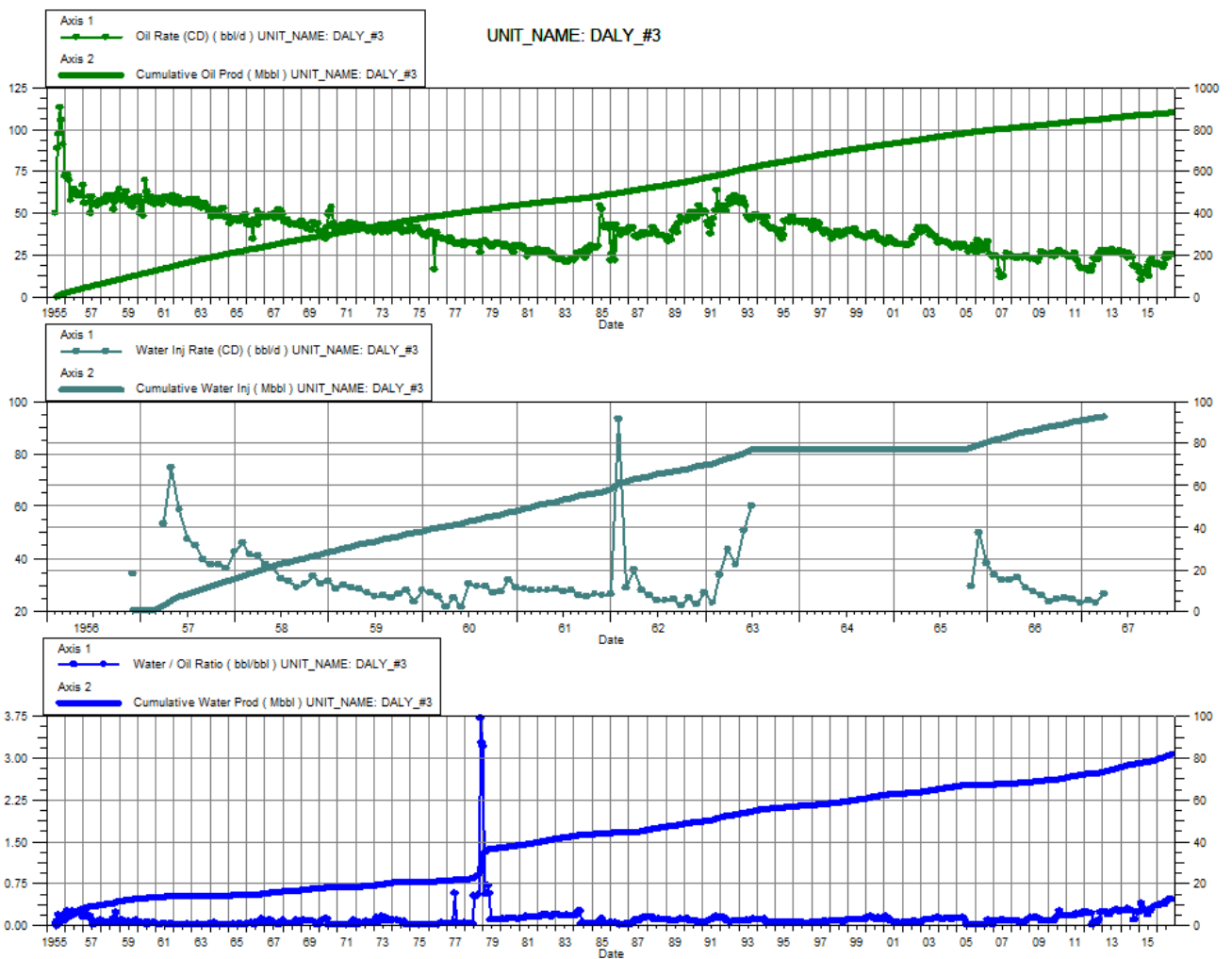
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	10.15	206.46	89.68	119.23	103.55	316.08	8.83	1.04	0.96	4,825.81
2/29/2016	9.75	206.74	93.22	121.93	73.61	318.21	9.56	0.71	0.96	5,600.00
3/31/2016	9.60	207.04	93.13	124.82	82.31	320.76	9.70	0.80	0.96	5,600.00
4/30/2016	7.83	207.28	89.92	127.51	98.03	323.70	11.48	1.00	0.96	5,600.00
5/31/2016	7.33	207.50	85.27	130.16	93.63	326.61	11.64	1.01	0.96	5,600.00
6/30/2016	7.38	207.73	80.62	132.58	83.59	329.11	10.92	0.95	0.96	5,600.00
7/31/2016	9.50	208.02	77.56	134.98	72.35	331.36	8.17	0.83	0.96	5,580.65
8/31/2016	6.29	208.21	75.09	137.31	75.83	333.71	11.94	0.93	0.96	5,000.00
9/30/2016	8.04	208.46	81.41	139.75	85.26	336.27	10.12	0.95	0.96	5,026.67
10/31/2016	8.00	208.70	80.80	142.26	48.45	337.77	10.10	0.55	0.95	5,800.00
11/30/2016	8.06	208.95	81.09	144.69	74.74	340.01	10.06	0.84	0.95	5,803.33
12/31/2016	8.03	209.19	80.37	147.18	84.85	342.64	10.01	0.96	0.95	5,900.00



## Daly Unit No. 3

### Pattern P-09 - 00/16-11-010-28W1/00

Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	3.23	139.33	1.12	12.65		14.84	0.35		0.10	--
2/29/2016	3.11	139.42	1.15	12.68		14.84	0.37		0.10	--
3/31/2016	3.16	139.52	1.17	12.72		14.84	0.37		0.10	--
4/30/2016	2.86	139.61	1.04	12.75		14.84	0.36		0.10	--
5/31/2016	3.11	139.70	1.15	12.78		14.84	0.37		0.10	--
6/30/2016	3.71	139.81	1.57	12.83		14.84	0.42		0.10	--
7/31/2016	4.11	139.94	1.78	12.89		14.84	0.43		0.10	--
8/31/2016	3.68	140.06	1.68	12.94		14.84	0.46		0.10	--
9/30/2016	4.07	140.18	1.83	12.99		14.84	0.45		0.10	--
10/31/2016	4.05	140.30	1.83	13.05		14.84	0.45		0.10	--
11/30/2016	4.05	140.42	1.81	13.10		14.84	0.45		0.10	--
12/31/2016	4.15	140.55	1.85	13.16		14.84	0.45		0.10	--

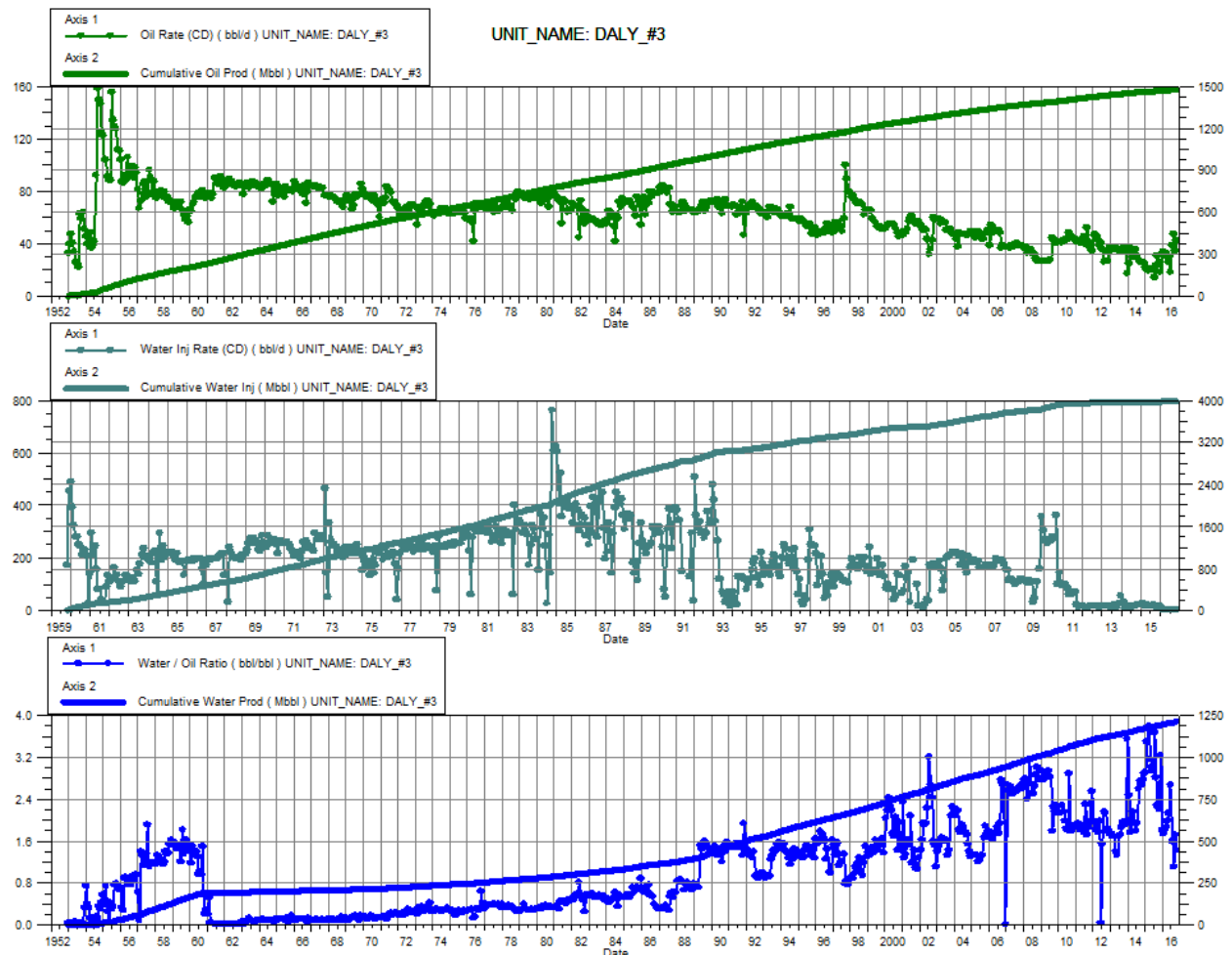


## Daly Unit No. 3

Pattern P-10 – 00/14-12-010-28W1/00

P-10 – B0/14-12-010-28W1/00

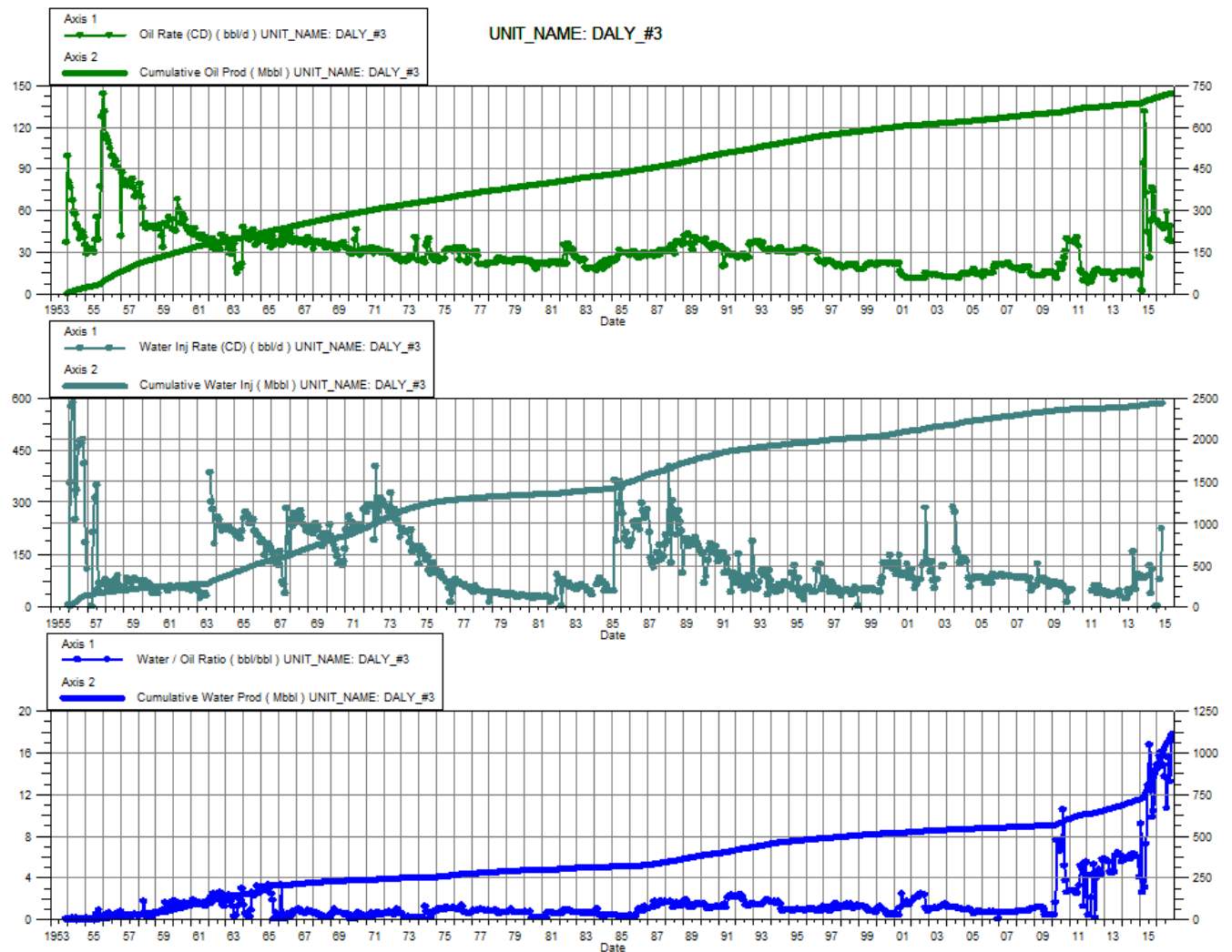
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Presssure kPa	Water Inj Presssure kPa
1/31/2016	5.32	234.08	9.24	190.49	2.14	632.51	1.74	0.15	1.47	6,300.00	6,000.00
2/29/2016	5.11	234.23	9.29	190.76	0.02	632.51	1.82	0.00	1.47	6,300.00	6,000.00
3/31/2016	5.22	234.39	9.66	191.06	0.01	632.51	1.85	0.00	1.47	6,300.00	6,000.00
4/30/2016	4.77	234.53	9.40	191.34	0.01	632.51	1.97	0.00	1.47	6,300.00	6,000.00
5/31/2016	4.08	234.66	8.66	191.61	0.07	632.51	2.12	0.01	1.47	6,300.00	6,000.00
6/30/2016	2.96	234.75	7.89	191.85	0.30	632.52	2.67	0.03	1.47	6,300.00	6,000.00
7/31/2016	6.09	234.94	9.75	192.15	0.37	632.53	1.60	0.02	1.47	6,300.00	6,000.00
8/31/2016	7.51	235.17	8.32	192.41	0.34	632.54	1.11	0.02	1.46	6,300.00	6,000.00
9/30/2016	5.57	235.34	9.50	192.69	0.12	632.55	1.71	0.01	1.46	6,306.67	6,003.33
10/31/2016	6.78	235.55	9.59	192.99	0.05	632.55	1.41	0.00	1.46	6,503.23	6,100.00
11/30/2016	6.68	235.75	9.51	193.27	0.61	632.57	1.42	0.04	1.46	6,600.00	6,100.00
12/31/2016	7.93	235.99	9.24	193.56	0.81	632.59	1.17	0.05	1.46	6,600.00	6,100.00



## Daly Unit No. 3

### Pattern P-11 - 00/12-11-010-28W1/00

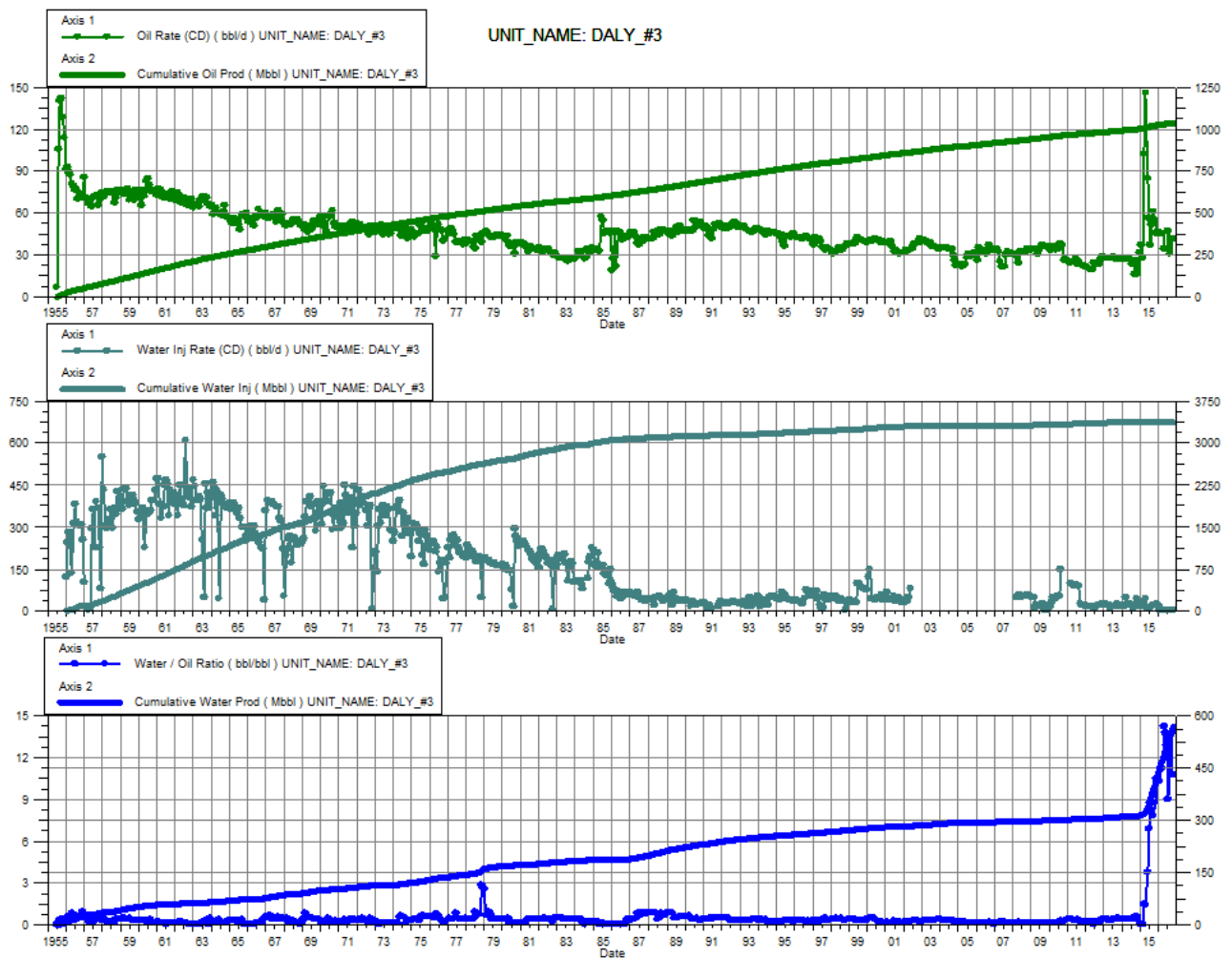
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	8.35	112.90	120.23	147.79		388.55	14.40		1.48	2,500.00
2/29/2016	8.03	113.13	125.35	151.42		388.55	15.62		1.46	2,500.00
3/31/2016	7.85	113.38	125.75	155.32		388.55	16.02		1.43	2,500.00
4/30/2016	7.93	113.61	116.31	158.81		388.55	14.66		1.42	2,500.00
5/31/2016	7.46	113.85	110.05	162.22		388.55	14.74		1.40	2,500.00
6/30/2016	7.68	114.08	104.85	165.37		388.55	13.65		1.38	2,500.00
7/31/2016	9.47	114.37	100.75	168.49		388.55	10.63		1.36	2,500.00
8/31/2016	6.25	114.56	97.19	171.50		388.55	15.54		1.35	2,500.00
9/30/2016	7.83	114.80	103.61	174.61		388.55	13.23		1.33	2,416.67
10/31/2016	6.06	114.99	103.63	177.82		388.55	17.11		1.32	-
11/30/2016	6.14	115.17	102.85	180.91		388.55	16.75		1.30	-
12/31/2016	6.06	115.36	103.11	184.10		388.55	17.02		1.29	-



# Daly Unit No. 3

## Pattern P-12 - 00/10-11-010-28W1/00

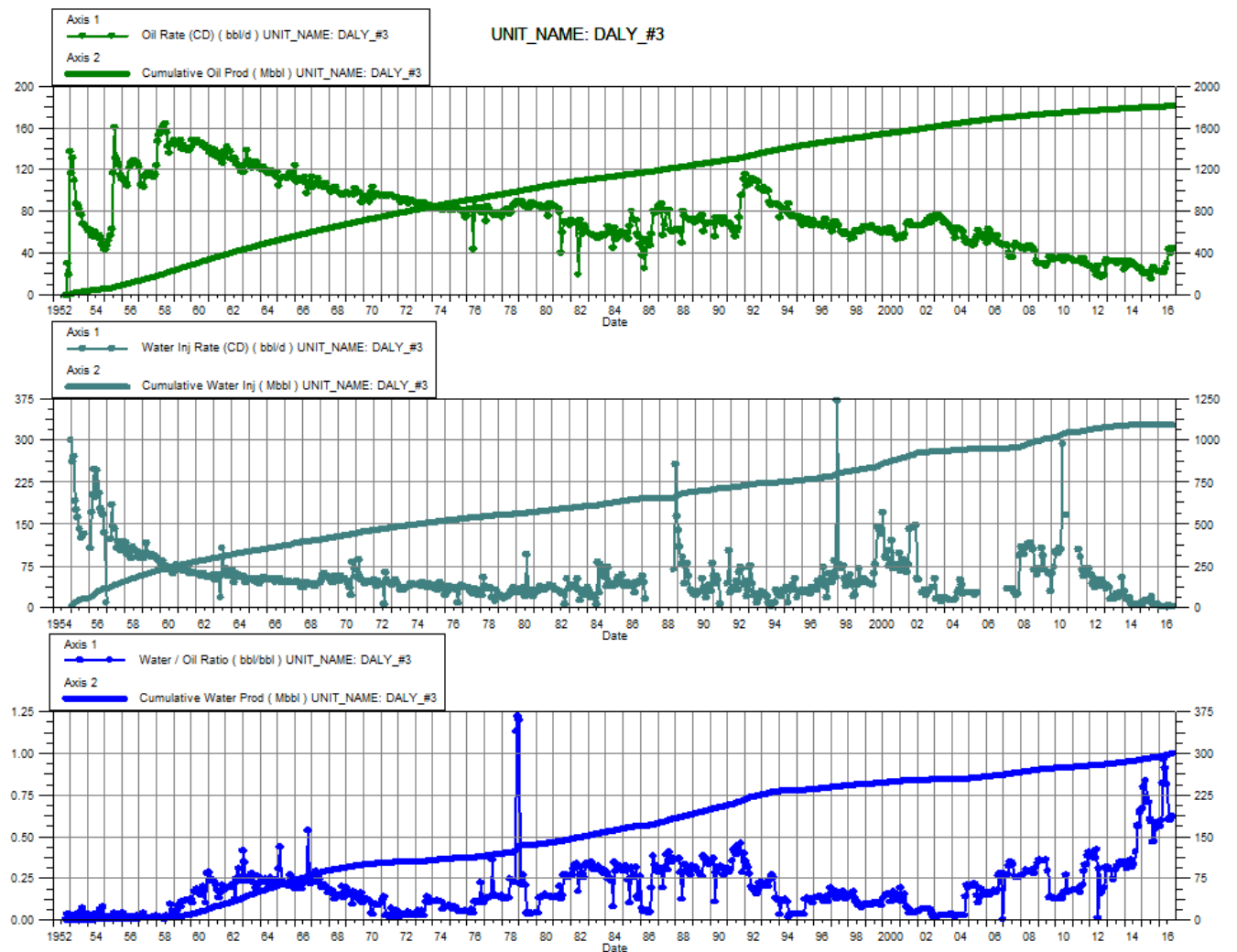
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	7.41	163.28	76.34	70.38	2.65	538.00	10.30	0.03	2.27	6,100.00
2/29/2016	7.17	163.49	79.87	72.69	0.23	538.01	11.14	0.00	2.25	6,100.00
3/31/2016	7.28	163.72	81.23	75.21	0.45	538.02	11.16	0.01	2.22	6,100.00
4/30/2016	5.49	163.88	77.90	77.55	0.46	538.04	14.18	0.01	2.20	6,100.00
5/31/2016	5.46	164.05	74.82	79.87	0.45	538.05	13.71	0.01	2.18	6,100.00
6/30/2016	5.51	164.22	70.47	81.98	0.44	538.07	12.79	0.01	2.16	6,100.00
7/31/2016	7.49	164.45	67.45	84.07	0.53	538.08	9.00	0.01	2.14	6,100.00
8/31/2016	4.85	164.60	66.32	86.13	0.54	538.10	13.66	0.01	2.12	6,100.00
9/30/2016	6.63	164.80	71.83	88.28	0.04	538.10	10.83	0.00	2.10	6,100.00
10/31/2016	6.63	165.00	71.23	90.49	0.03	538.10	10.75	0.00	2.08	6,096.77
11/30/2016	6.60	165.20	71.48	92.64	0.11	538.10	10.82	0.00	2.06	6,000.00
12/31/2016	6.67	165.41	70.89	94.83	0.24	538.11	10.63	0.00	2.04	6,000.00



## Daly Unit No. 3

### Pattern P-13 - 00/12-12-010-28W1/00

Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemnt Ratio	Water Inj Pressure kPa
1/31/2016	3.62	287.36	2.03	46.81	0.64	174.15	0.56	0.11	0.51	6,400.00
2/29/2016	3.50	287.46	2.08	46.88	0.02	174.15	0.60	0.00	0.51	6,400.00
3/31/2016	3.69	287.57	3.02	46.97	0.04	174.15	0.82	0.01	0.51	6,400.00
4/30/2016	3.45	287.68	3.31	47.07	0.04	174.15	0.96	0.01	0.51	6,400.00
5/31/2016	3.98	287.80	3.62	47.18	0.04	174.15	0.91	0.01	0.51	6,400.00
6/30/2016	4.73	287.94	3.83	47.29	0.27	174.16	0.81	0.03	0.51	6,400.00
7/31/2016	6.85	288.15	4.13	47.42	0.33	174.17	0.60	0.03	0.51	6,400.00
8/31/2016	6.35	288.35	3.78	47.54	0.34	174.18	0.60	0.03	0.51	6,400.00
9/30/2016	7.06	288.56	4.35	47.67	0.09	174.18	0.62	0.01	0.51	6,400.00
10/31/2016	7.04	288.78	4.34	47.81	0.12	174.19	0.62	0.01	0.51	6,400.00
11/30/2016	7.07	288.99	4.34	47.94	0.23	174.19	0.61	0.02	0.51	6,400.00
12/31/2016	7.16	289.22	4.28	48.07	0.35	174.20	0.60	0.03	0.51	6,400.00

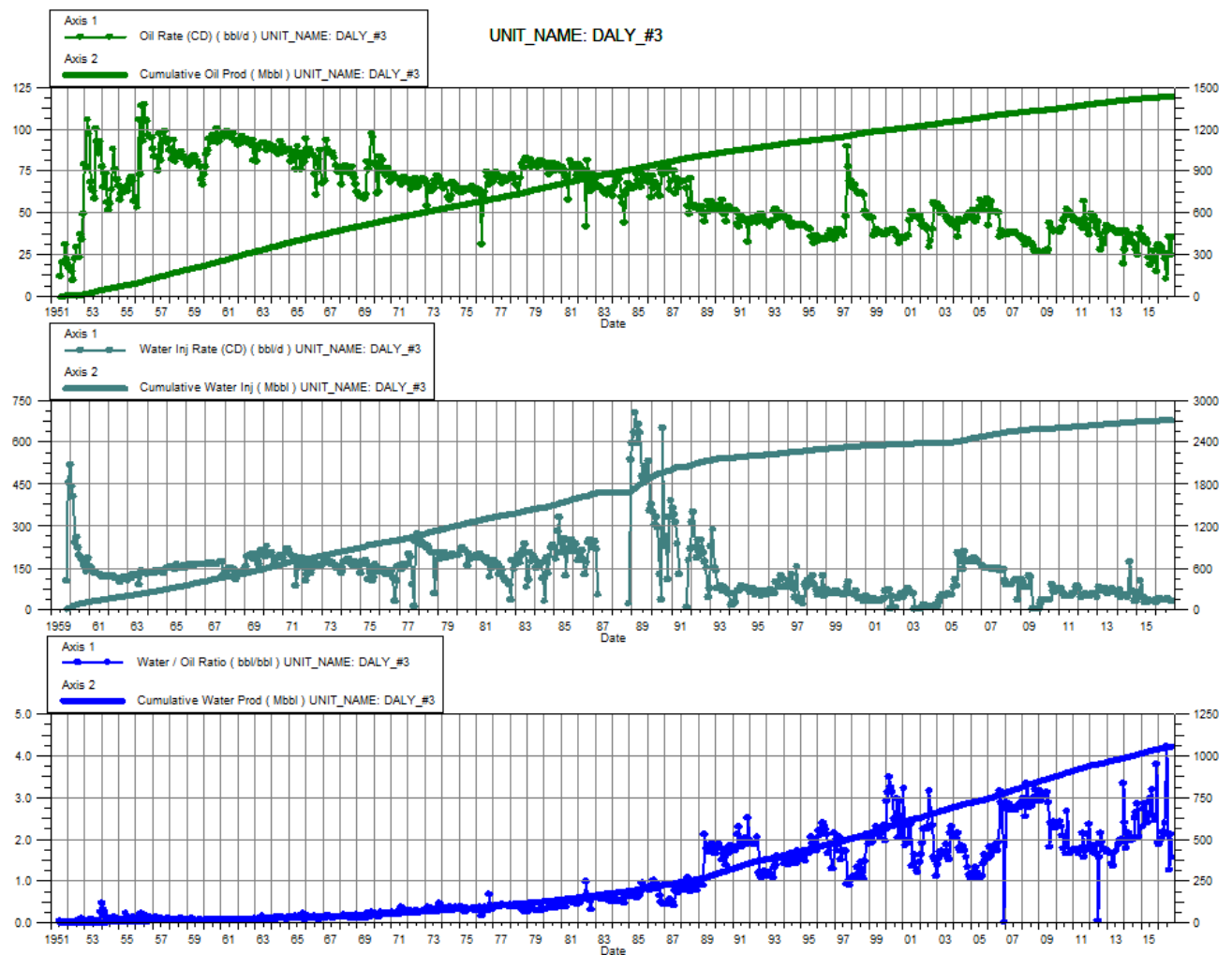




## Daly Unit No. 3

### Pattern P-14 - 00/10-12-010-28W1/00

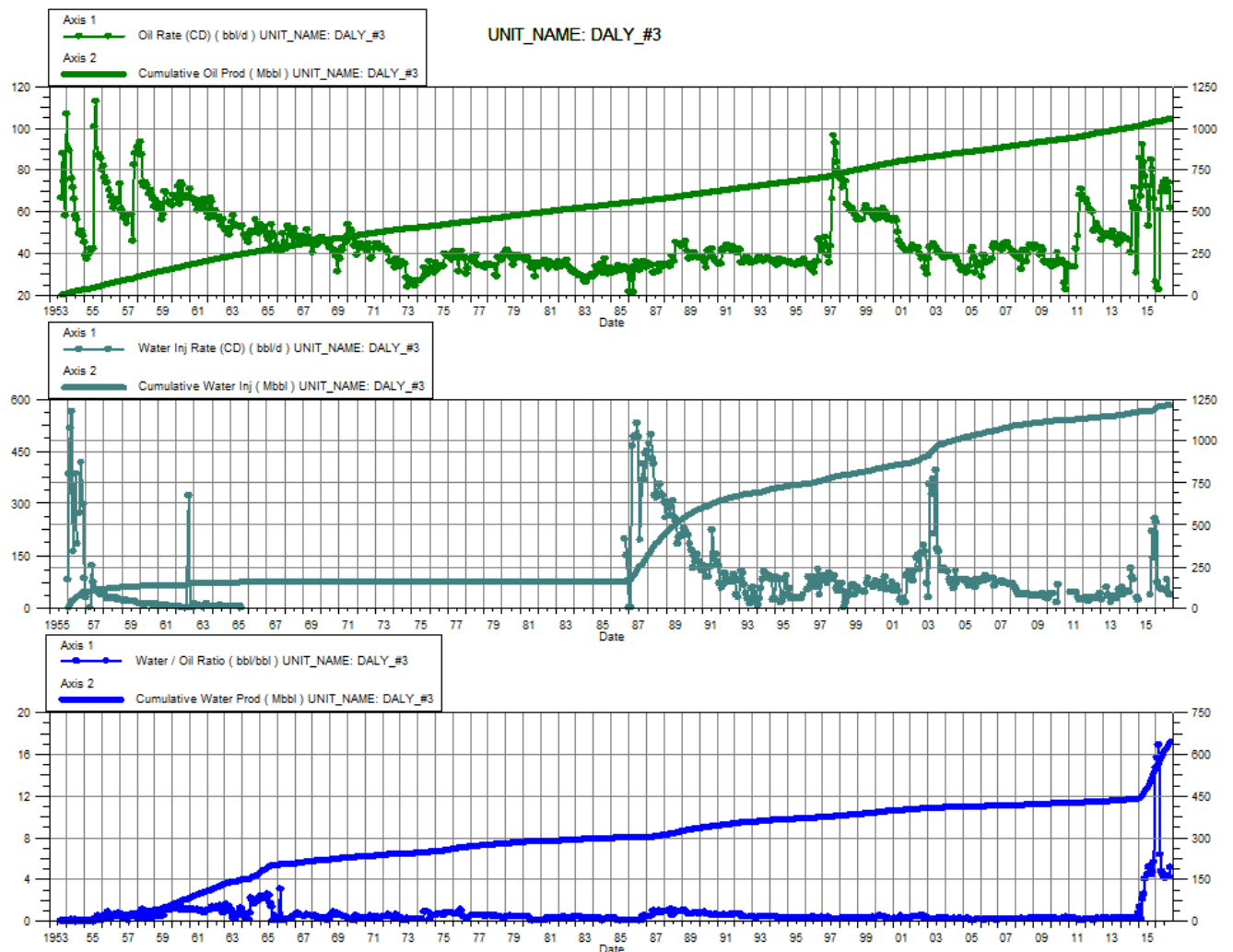
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	4.90	227.55	9.20	165.51	3.67	430.56	1.88	0.26	1.08	6,000.00
2/29/2016	4.70	227.69	9.25	165.78	6.23	430.74	1.97	0.44	1.08	6,000.00
3/31/2016	4.64	227.83	9.42	166.07	5.93	430.93	2.03	0.42	1.08	6,000.00
4/30/2016	4.25	227.96	9.18	166.35	5.68	431.10	2.16	0.42	1.08	6,000.00
5/31/2016	3.55	228.07	8.44	166.61	5.74	431.28	2.38	0.48	1.08	6,000.00
6/30/2016	1.70	228.12	7.13	166.83	5.62	431.44	4.20	0.63	1.08	6,000.00
7/31/2016	4.07	228.24	8.55	167.09	5.77	431.62	2.10	0.46	1.08	6,000.00
8/31/2016	5.72	228.42	7.20	167.31	5.84	431.80	1.26	0.45	1.08	6,000.00
9/30/2016	4.02	228.54	8.52	167.57	5.69	431.97	2.12	0.45	1.08	6,000.00
10/31/2016	5.71	228.72	8.86	167.84	4.43	432.11	1.55	0.30	1.08	6,000.00
11/30/2016	5.58	228.89	8.78	168.11	3.78	432.22	1.57	0.26	1.08	6,000.00
12/31/2016	6.45	229.09	8.30	168.36	6.14	432.42	1.29	0.41	1.08	6,000.00



# Daly Unit No. 3

## Pattern P-15 - 00/06-11-010-28W1/00

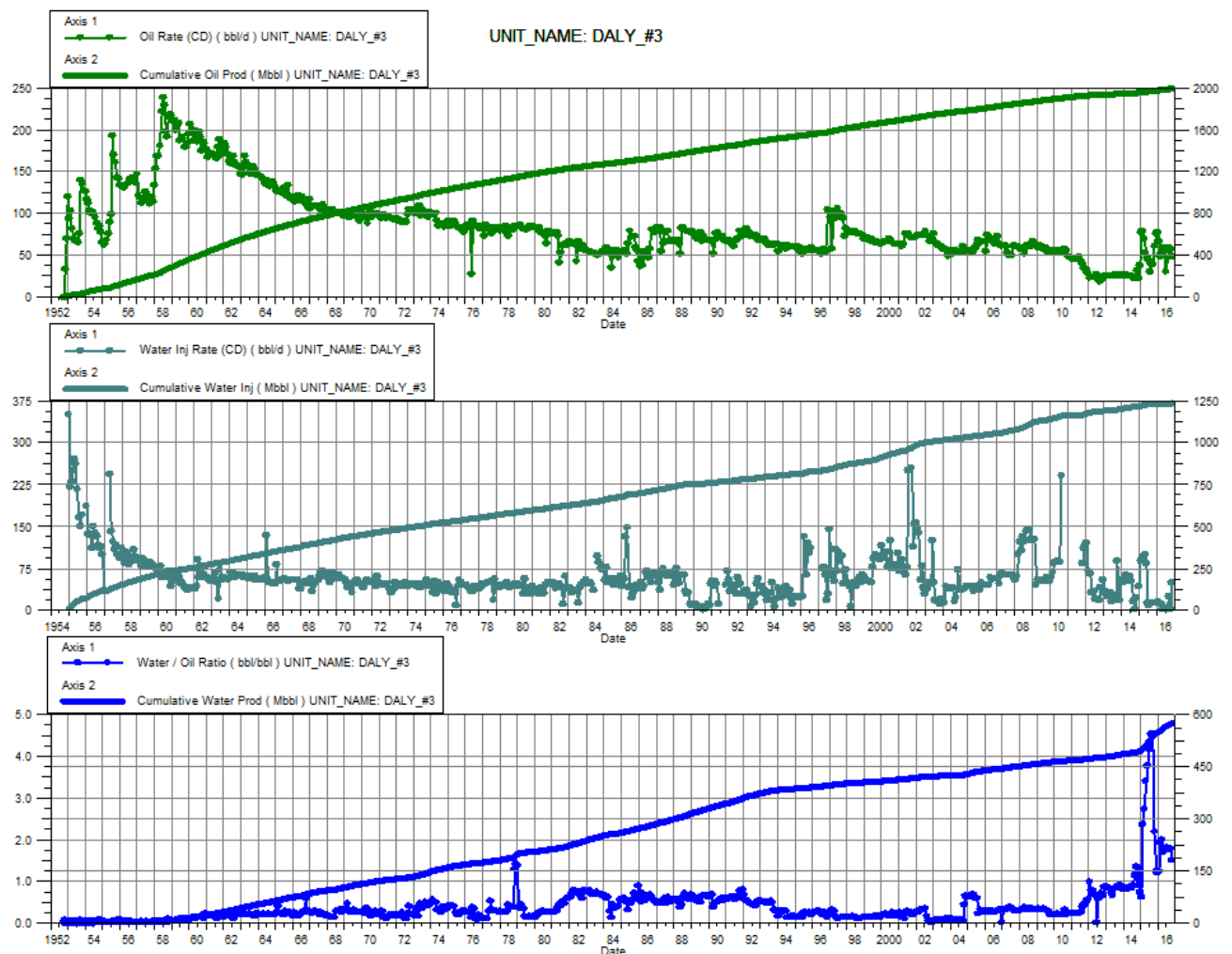
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	3.70	165.72	57.66	88.24	39.17	191.24	15.59	0.64	0.74	5,232.26
2/29/2016	3.65	165.82	61.71	90.02	12.12	191.59	16.91	0.19	0.74	6,200.00
3/31/2016	9.69	166.12	61.52	91.93	9.43	191.88	6.35	0.13	0.73	6,200.00
4/30/2016	11.04	166.46	53.27	93.53	9.21	192.16	4.83	0.14	0.73	6,200.00
5/31/2016	11.44	166.81	51.40	95.12	8.44	192.42	4.49	0.13	0.73	6,200.00
6/30/2016	11.76	167.16	48.87	96.59	8.35	192.67	4.15	0.14	0.72	6,200.00
7/31/2016	12.02	167.54	48.07	98.08	8.56	192.94	4.00	0.14	0.72	6,193.55
8/31/2016	11.06	167.88	47.22	99.54	12.78	193.33	4.27	0.22	0.71	6,000.00
9/30/2016	11.81	168.23	49.00	101.01	6.41	193.52	4.15	0.11	0.71	6,013.33
10/31/2016	9.80	168.54	50.02	102.56	5.88	193.71	5.10	0.10	0.71	6,400.00
11/30/2016	9.45	168.82	48.44	104.02	6.14	193.89	5.12	0.11	0.70	6,400.00
12/31/2016	9.68	169.12	50.05	105.57	6.57	194.09	5.17	0.11	0.70	6,400.00



## Daly Unit No. 3

### Pattern P-16 - 00/08-11-010-28W1/00

Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	10.59	315.10	13.07	87.58	2.15	196.04	1.23	0.09	0.48	6,200.00
2/29/2016	7.75	315.33	15.03	88.01	1.79	196.09	1.94	0.08	0.48	6,200.00
3/31/2016	8.40	315.59	16.70	88.53	1.57	196.14	1.99	0.06	0.48	6,200.00
4/30/2016	9.44	315.87	15.89	89.01	0.11	196.14	1.68	0.00	0.48	6,200.00
5/31/2016	8.77	316.14	15.65	89.49	0.18	196.15	1.78	0.01	0.48	6,200.00
6/30/2016	4.80	316.29	8.43	89.75	0.19	196.15	1.76	0.02	0.48	6,200.00
7/31/2016	7.57	316.52	13.58	90.17	0.57	196.17	1.79	0.03	0.48	6,200.00
8/31/2016	9.50	316.82	16.49	90.68	3.67	196.29	1.74	0.14	0.48	6,200.00
9/30/2016	9.24	317.09	16.35	91.17	0.04	196.29	1.77	0.00	0.47	6,200.00
10/31/2016	7.65	317.33	11.49	91.52	7.72	196.53	1.50	0.40	0.47	6,200.00
11/30/2016	7.99	317.57	9.92	91.82	8.01	196.77	1.24	0.44	0.47	6,200.00
12/31/2016	9.64	317.87	11.75	92.19	9.89	197.07	1.22	0.46	0.47	6,200.00

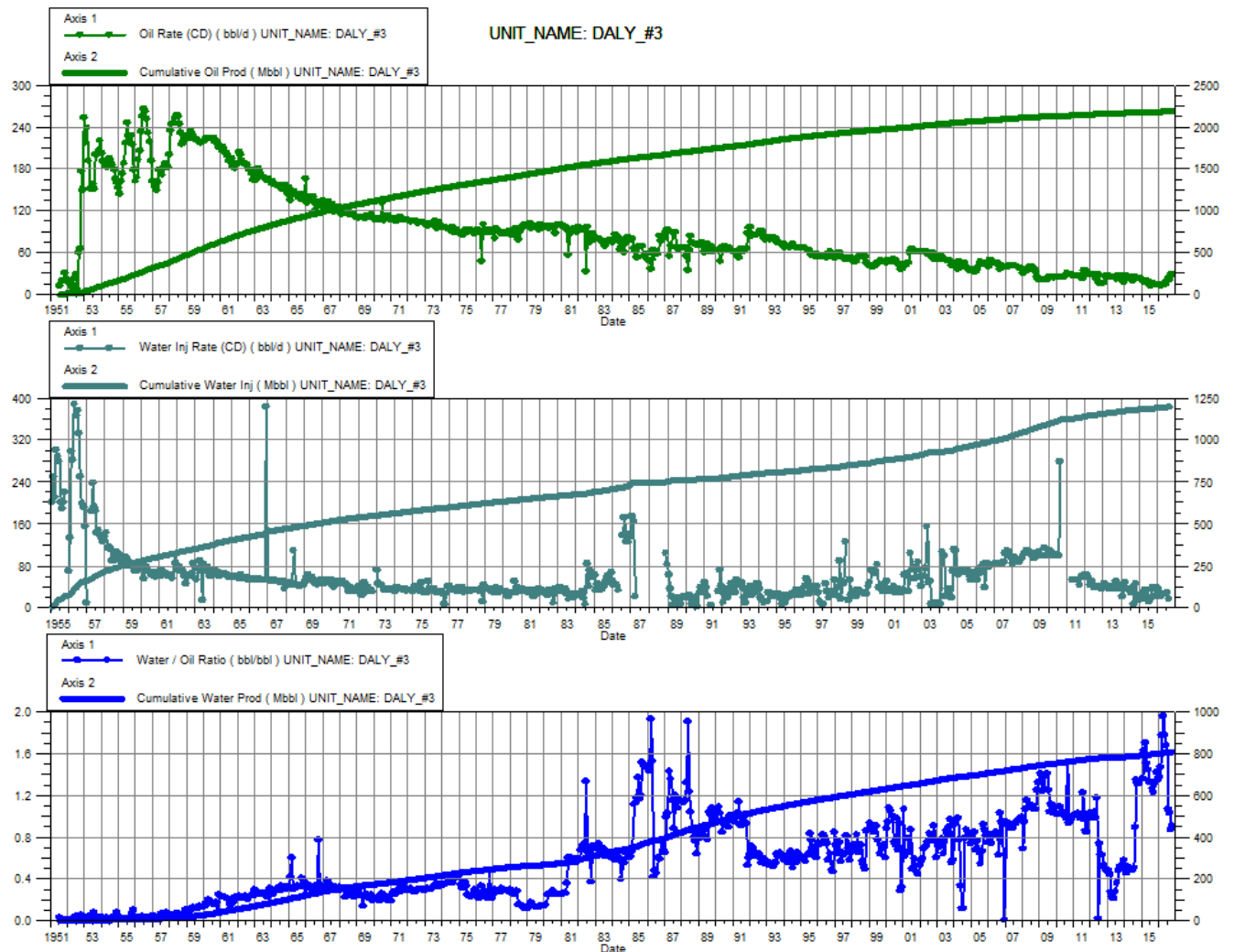


# Daly Unit No. 3

Pattern P-17 – 00/06-12-010-28W1/00

P-17 – A0/05-12-010-28W1/00

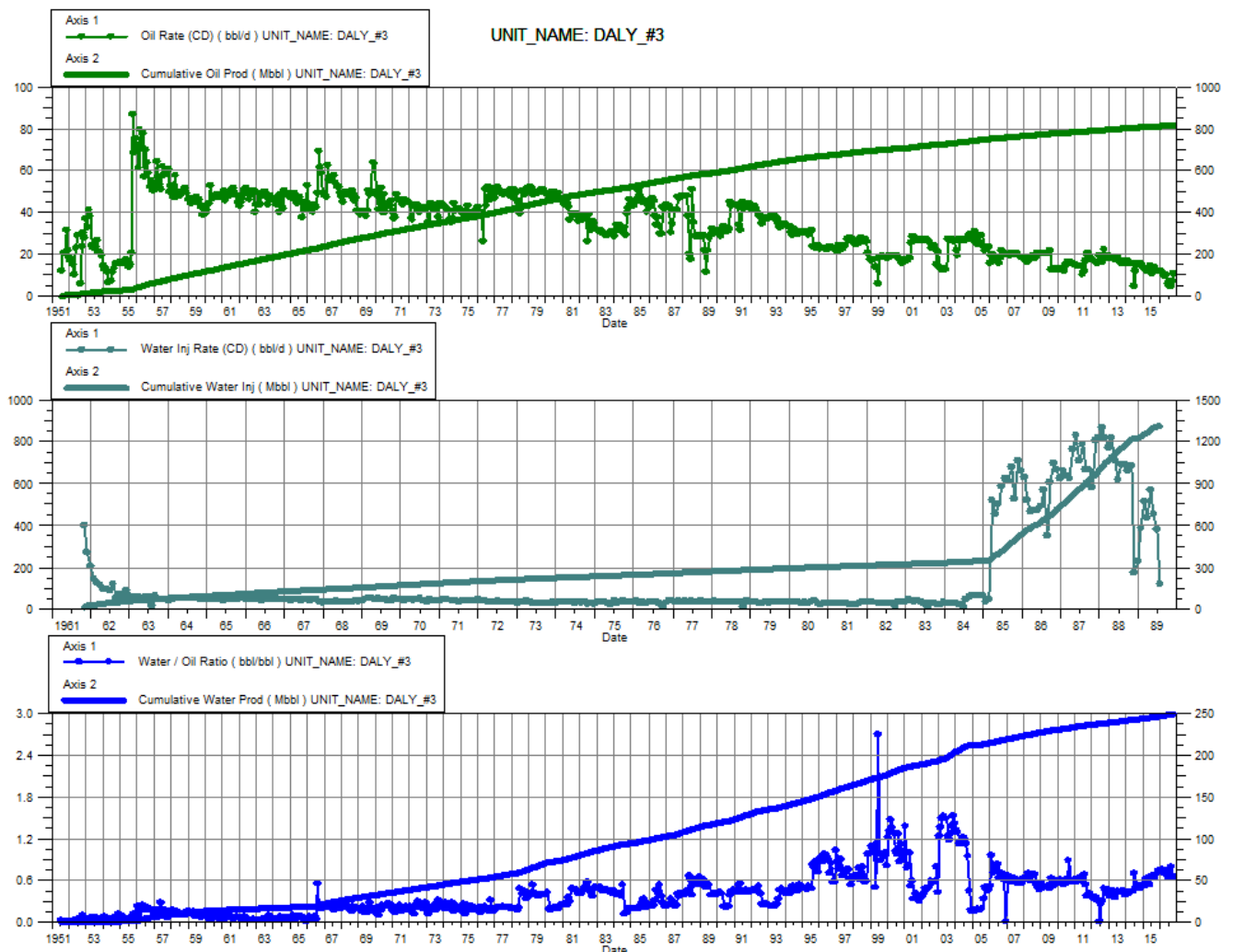
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa	Water Inj Pressure kPa
1/31/2016	2.16	347.39	2.97	127.28	5.70	189.65	1.37	1.10	0.39	6,300.00	6,400.00
2/29/2016	2.08	347.45	3.06	127.37	4.16	189.78	1.47	0.80	0.39	6,300.00	6,400.00
3/31/2016	2.26	347.52	4.00	127.49	3.18	189.87	1.77	0.51	0.39	6,300.00	6,400.00
4/30/2016	2.15	347.59	4.19	127.62	4.07	190.00	1.95	0.64	0.39	6,300.00	6,400.00
5/31/2016	2.48	347.66	4.38	127.75	3.87	190.12	1.77	0.56	0.39	6,300.00	6,400.00
6/30/2016	2.26	347.73	3.77	127.87	3.91	190.23	1.67	0.64	0.39	6,300.00	6,400.00
7/31/2016	3.54	347.84	3.76	127.98	4.50	190.37	1.06	0.61	0.40	6,277.42	6,400.00
8/31/2016	3.40	347.94	3.48	128.09	2.59	190.45	1.02	0.37	0.40	5,600.00	6,400.00
9/30/2016	4.21	348.07	3.65	128.20		190.45	0.87		0.39	5,563.33	6,333.33
10/31/2016	4.70	348.22	4.24	128.33		190.45	0.90		0.39	4,490.32	4,400.00
11/30/2016	4.69	348.36	4.46	128.47		190.45	0.95		0.39	4,200.00	4,400.00
12/31/2016	4.42	348.49	4.22	128.60		190.45	0.96		0.39	4,200.00	4,400.00



## Daly Unit No. 3

### Pattern P-18 - 00/08-12-010-28W1/00

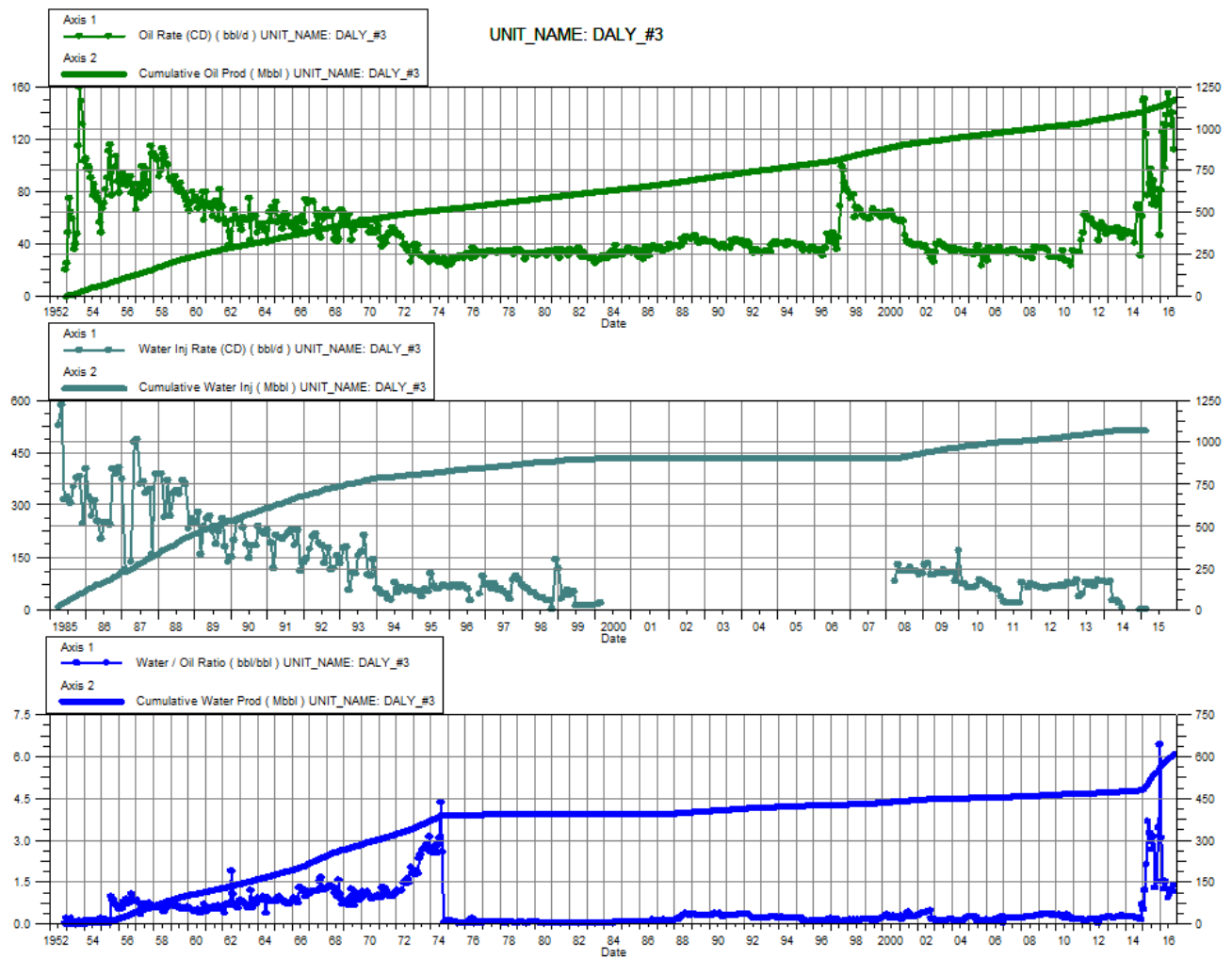
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	1.91	129.29	1.37	39.30		209.39	0.72		1.22	--
2/29/2016	1.84	129.34	1.40	39.34		209.39	0.76		1.22	--
3/31/2016	1.71	129.39	1.23	39.38		209.39	0.72		1.22	--
4/30/2016	1.55	129.44	1.09	39.41		209.39	0.70		1.22	--
5/31/2016	1.60	129.49	1.08	39.44		209.39	0.68		1.22	--
6/30/2016	0.94	129.52	0.60	39.46		209.39	0.64		1.22	--
7/31/2016	0.79	129.54	0.59	39.48		209.39	0.75		1.22	--
8/31/2016	0.73	129.57	0.57	39.50		209.39	0.78		1.22	--
9/30/2016	1.15	129.60	0.76	39.52		209.39	0.66		1.22	--
10/31/2016	1.68	129.65	1.08	39.55		209.39	0.64		1.22	--
11/30/2016	1.49	129.70	0.96	39.58		209.39	0.65		1.22	--
12/31/2016	1.38	129.74	0.93	39.61		209.39	0.68		1.22	--



## Daly Unit No. 3

### Pattern P-19 - 00/13-02-010-28W1/00

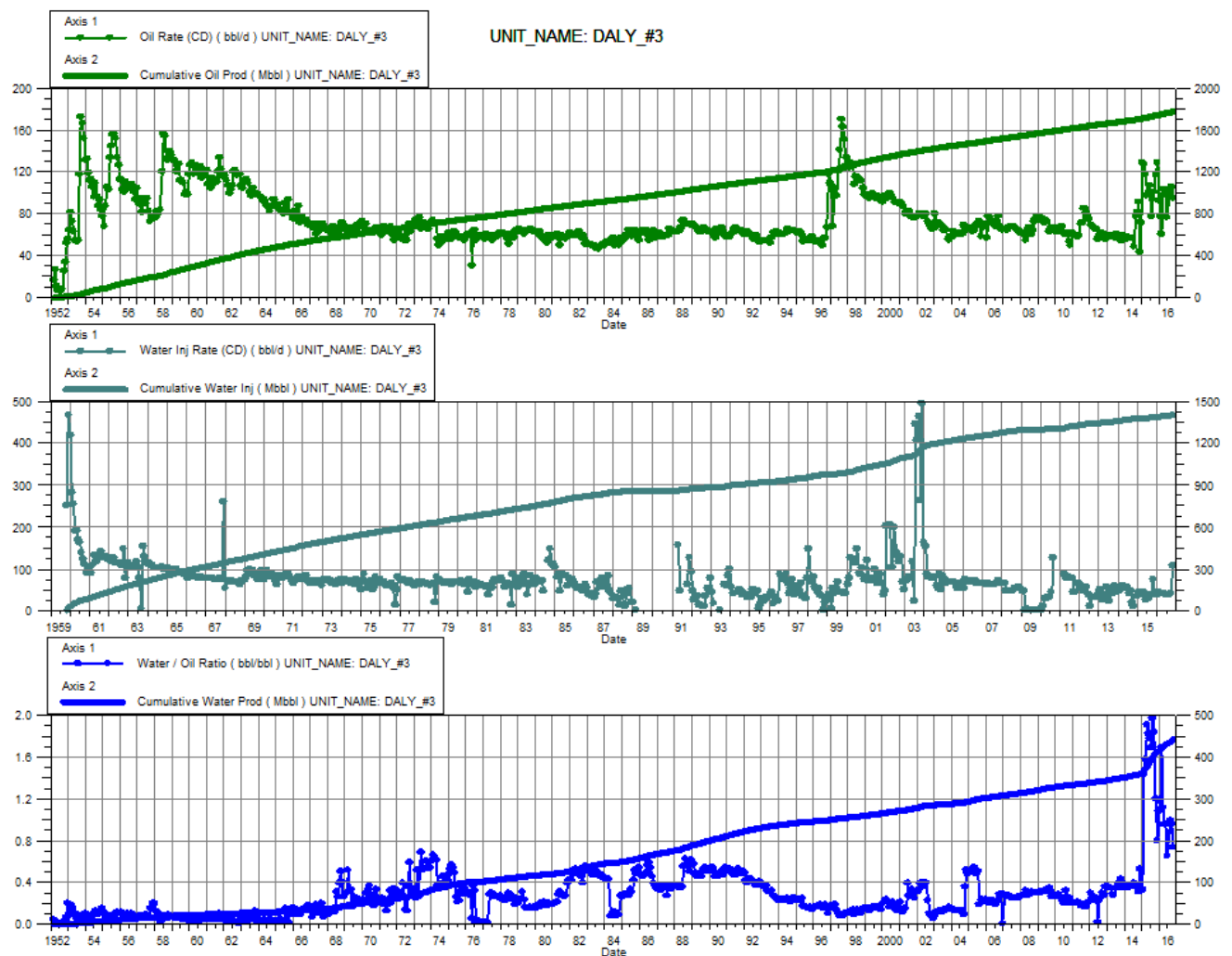
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	12.80	180.71	39.41	90.23		170.05	3.08		0.62	2,180.00
2/29/2016	19.94	181.28	29.91	91.10		170.05	1.50		0.62	2,180.00
3/31/2016	20.93	181.93	25.68	91.89		170.05	1.23		0.61	2,180.00
4/30/2016	15.54	182.40	23.61	92.60		170.05	1.52		0.61	2,180.00
5/31/2016	22.00	183.08	27.64	93.46		170.05	1.26		0.61	2,180.00
6/30/2016	24.67	183.82	22.31	94.13		170.05	0.90		0.60	2,180.00
7/31/2016	23.25	184.54	24.01	94.87		170.05	1.03		0.60	2,180.00
8/31/2016	20.74	185.18	24.50	95.63		170.05	1.18		0.60	2,180.00
9/30/2016	22.28	185.85	25.70	96.40		170.05	1.15		0.60	2,107.33
10/31/2016	17.80	186.40	24.61	97.17		170.05	1.38		0.59	-
11/30/2016	11.20	186.74	10.01	97.47		170.05	0.89		0.59	-
12/31/2016	12.77	187.14	36.95	98.61		170.05	2.89		0.59	-



## Daly Unit No. 3

### Pattern P-20 - 00/02-11-010-28W1/00

Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	12.27	278.28	14.44	66.40	5.95	221.15	1.18	0.22	0.63	5,600.00
2/29/2016	9.61	278.56	16.18	66.87	6.93	221.35	1.68	0.27	0.63	5,600.00
3/31/2016	15.53	279.04	17.19	67.40	6.33	221.55	1.11	0.19	0.63	5,600.00
4/30/2016	16.37	279.54	15.69	67.87	6.49	221.74	0.96	0.20	0.63	5,600.00
5/31/2016	15.93	280.03	15.20	68.35	6.60	221.95	0.95	0.21	0.63	5,600.00
6/30/2016	12.16	280.39	7.92	68.58	5.97	222.12	0.65	0.29	0.63	5,600.00
7/31/2016	15.25	280.87	13.18	68.99	6.21	222.32	0.86	0.22	0.63	5,600.00
8/31/2016	16.44	281.38	16.27	69.50	6.16	222.51	0.99	0.19	0.63	5,600.00
9/30/2016	16.87	281.88	16.08	69.98	6.51	222.70	0.95	0.20	0.62	5,606.67
10/31/2016	15.02	282.35	11.08	70.32	17.15	223.24	0.74	0.65	0.62	5,812.90
11/30/2016	15.17	282.80	9.39	70.60	5.95	223.41	0.62	0.24	0.62	6,193.33
12/31/2016	16.81	283.32	11.27	70.95	8.17	223.67	0.67	0.29	0.62	6,000.00

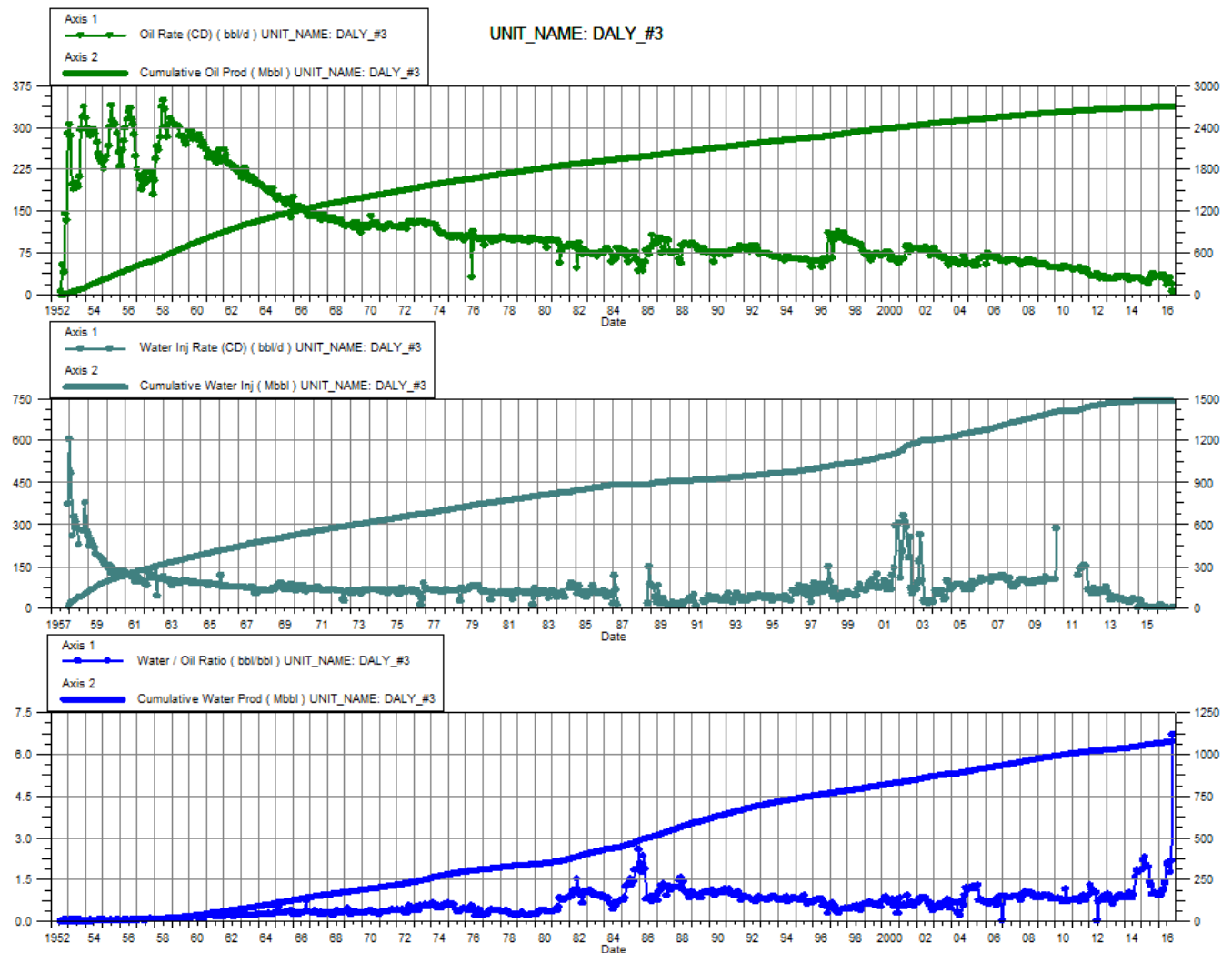


## Daly Unit No. 3

Pattern P-21 - 00/04-12-010-28W1/00

P-21 – B0/05-12-010-28W1/00

Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa	Water Inj Pressure kPa
1/31/2016	5.29	429.58	4.79	169.86	0.32	236.40	0.91	0.03	0.39	5,900.00	6,400.00
2/29/2016	5.13	429.73	4.95	170.01	1.96	236.46	0.97	0.19	0.39	5,900.00	6,400.00
3/31/2016	5.75	429.91	6.30	170.20	1.72	236.51	1.10	0.14	0.39	5,900.00	6,400.00
4/30/2016	5.62	430.08	6.52	170.40	0.45	236.53	1.16	0.04	0.39	5,900.00	6,400.00
5/31/2016	4.62	430.22	6.40	170.60	0.43	236.54	1.38	0.04	0.39	5,900.00	6,400.00
6/30/2016	2.92	430.31	5.98	170.77	0.38	236.55	2.04	0.04	0.39	5,900.00	6,400.00
7/31/2016	3.63	430.42	7.19	171.00		236.55	1.98		0.39	5,900.00	6,400.00
8/31/2016	4.88	430.57	8.42	171.26		236.55	1.73		0.39	5,900.00	6,400.00
9/30/2016	3.07	430.67	6.63	171.46		236.55	2.16		0.39	5,870.00	6,300.00
10/31/2016	0.85	430.69	5.67	171.63	0.11	236.56	6.71	0.02	0.39	5,000.00	3,393.55
11/30/2016	3.79	430.80	27.34	172.45		236.56	7.22		0.39	5,000.00	3,200.00
12/31/2016	7.25	431.03	43.27	173.80	0.18	236.56	5.97	0.00	0.39	5,000.00	3,200.00

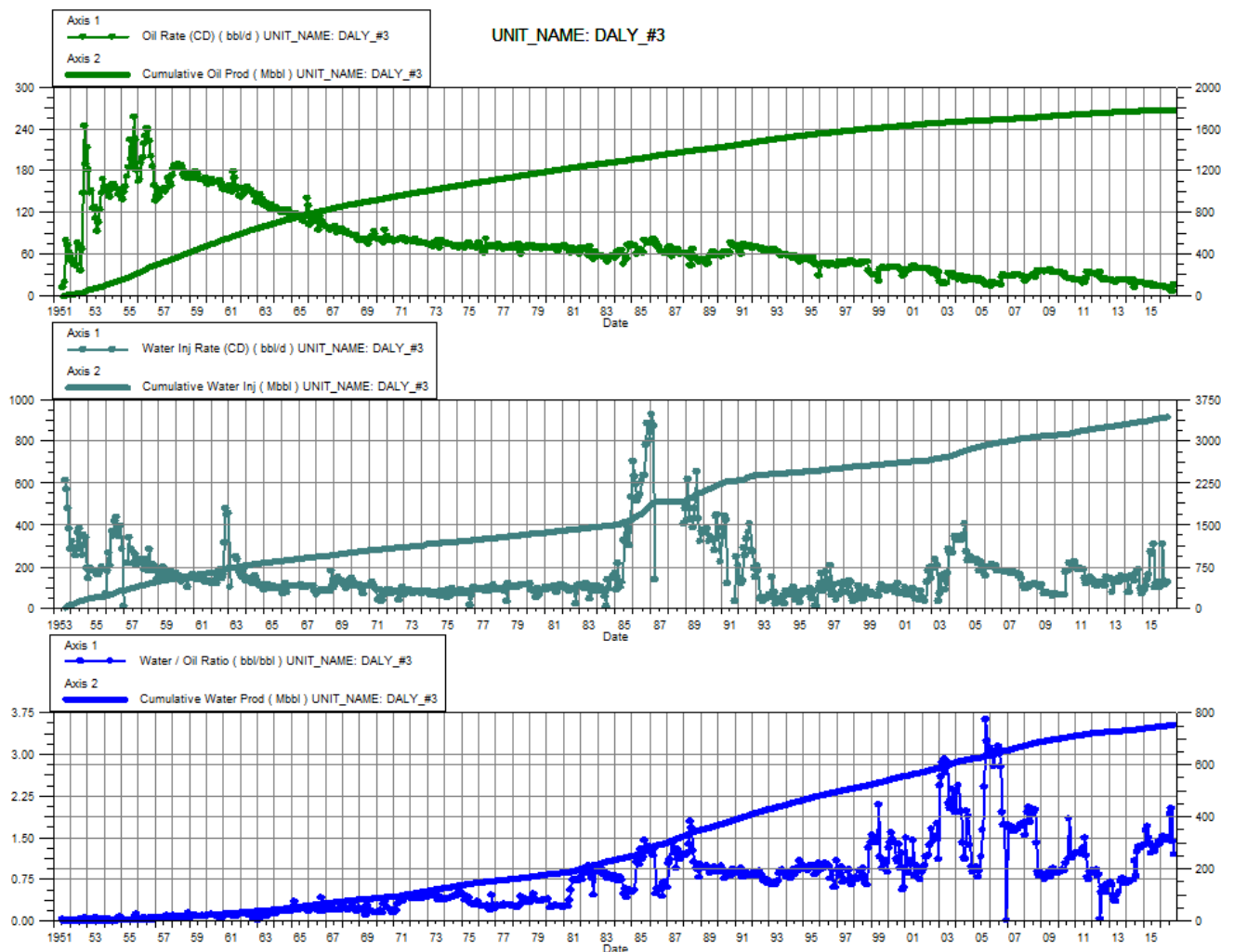




## Daly Unit No. 3

### Pattern P-22 - 00/02-12-010-28W1/00

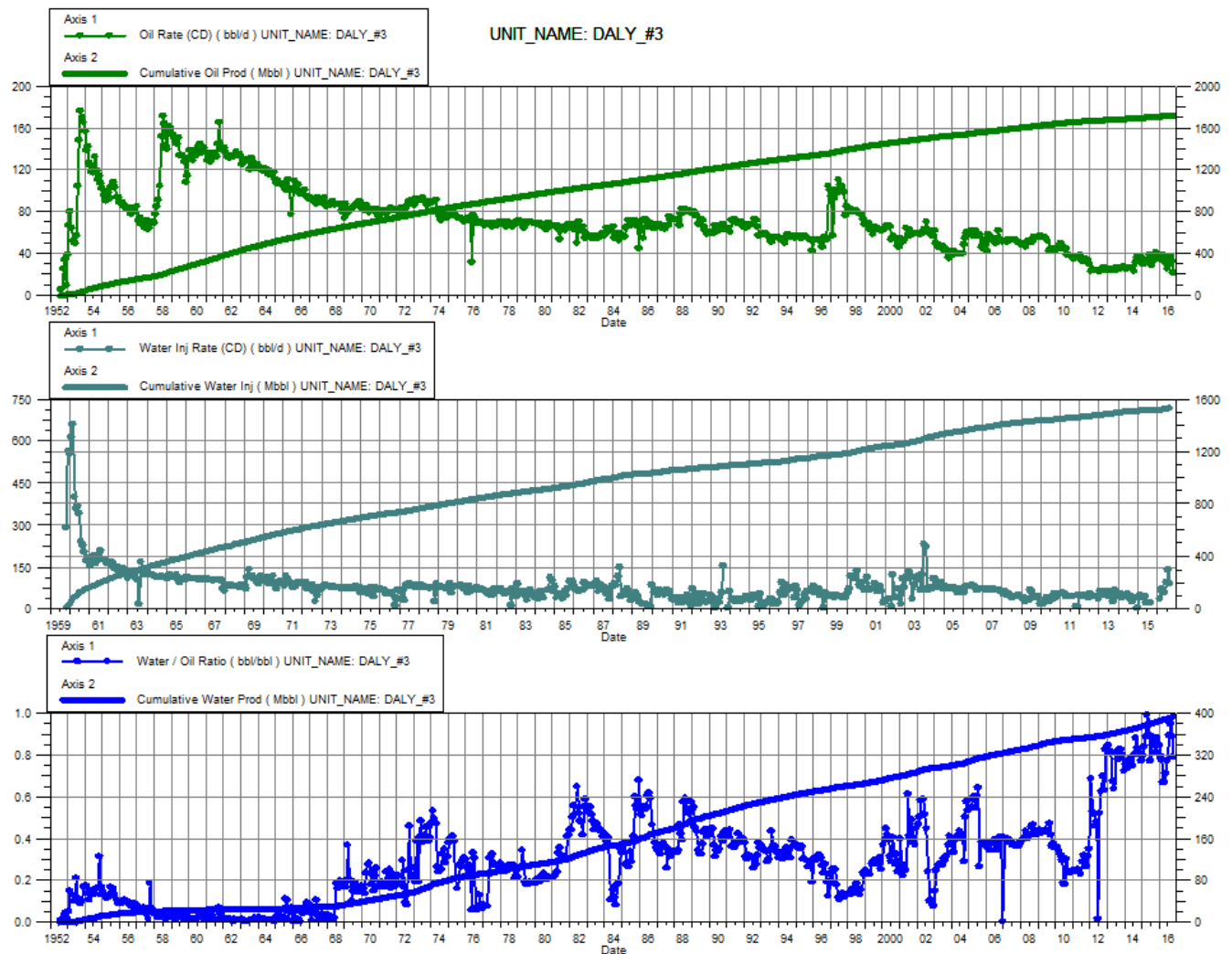
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacment Ratio	Water Inj Pressure kPa
1/31/2016	2.20	283.04	3.13	118.84	16.24	542.61	1.42	3.02	1.33	6,300.00
2/29/2016	2.14	283.10	3.23	118.94	48.71	544.02	1.51	9.00	1.34	6,300.00
3/31/2016	2.17	283.17	3.29	119.04	20.84	544.67	1.51	3.79	1.34	6,300.00
4/30/2016	1.97	283.23	2.91	119.13	18.04	545.21	1.48	3.67	1.34	6,300.00
5/31/2016	1.99	283.29	2.87	119.22	18.96	545.80	1.44	3.87	1.34	6,300.00
6/30/2016	1.61	283.34	2.40	119.29	19.60	546.39	1.49	4.84	1.34	6,300.00
7/31/2016	1.26	283.37	2.41	119.36		546.39	1.92		1.34	6,300.00
8/31/2016	1.16	283.41	2.33	119.44		546.39	2.01		1.34	6,300.00
9/30/2016	1.22	283.45	1.74	119.49		546.39	1.43		1.34	6,240.00
10/31/2016	2.42	283.52	2.88	119.58		546.39	1.19		1.34	4,500.00
11/30/2016	2.93	283.61	3.43	119.68		546.39	1.17		1.34	4,500.00
12/31/2016	2.59	283.69	3.25	119.78		546.39	1.25		1.34	4,500.00



## Daly Unit No. 3

### Pattern P-23 - 00/16-02-010-28W1/00

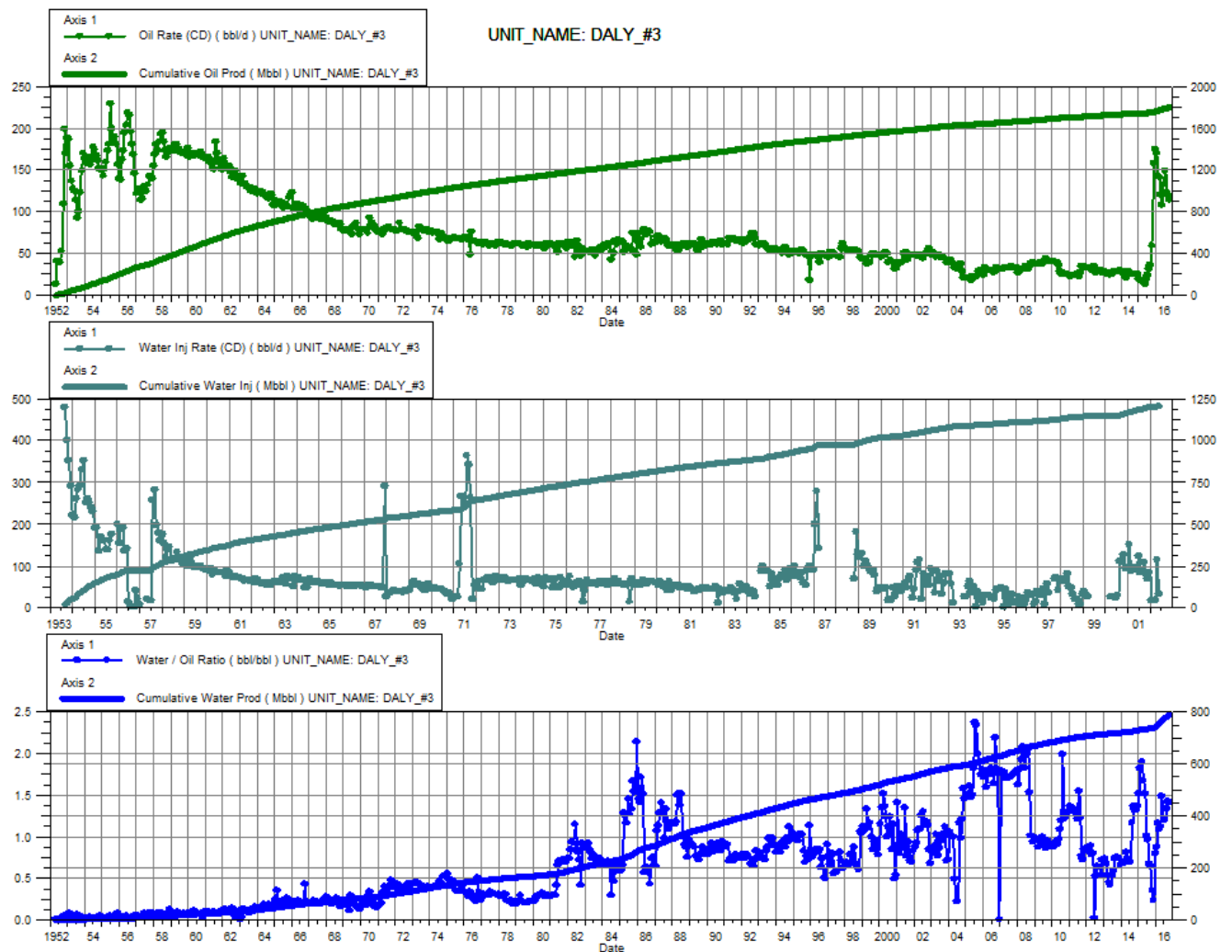
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	5.71	272.04	4.53	61.40		241.77	0.79		0.71	4,575.00
2/29/2016	5.35	272.20	4.16	61.52	5.09	241.92	0.78	0.53	0.71	4,606.90
3/31/2016	6.13	272.39	4.07	61.64	11.03	242.26	0.66	1.07	0.71	5,500.00
4/30/2016	5.82	272.56	3.89	61.76	9.17	242.53	0.67	0.93	0.71	5,500.00
5/31/2016	4.97	272.72	3.54	61.87	9.31	242.82	0.71	1.08	0.72	5,500.00
6/30/2016	3.97	272.83	3.06	61.96	15.02	243.27	0.77	2.11	0.72	5,500.00
7/31/2016	4.66	272.98	4.15	62.09	21.80	243.95	0.89	2.45	0.72	5,508.06
8/31/2016	5.98	273.16	5.65	62.27	13.91	244.38	0.94	1.18	0.72	5,750.00
9/30/2016	5.09	273.32	4.52	62.40		244.38	0.89		0.72	5,718.33
10/31/2016	3.52	273.43	2.77	62.49		244.38	0.79		0.72	4,800.00
11/30/2016	4.39	273.56	3.75	62.60		244.38	0.85		0.72	4,800.00
12/31/2016	6.57	273.76	6.14	62.79		244.38	0.93		0.72	4,800.00



## Daly Unit No. 3

### Pattern P-24 - 00/14-01-010-28W1/00

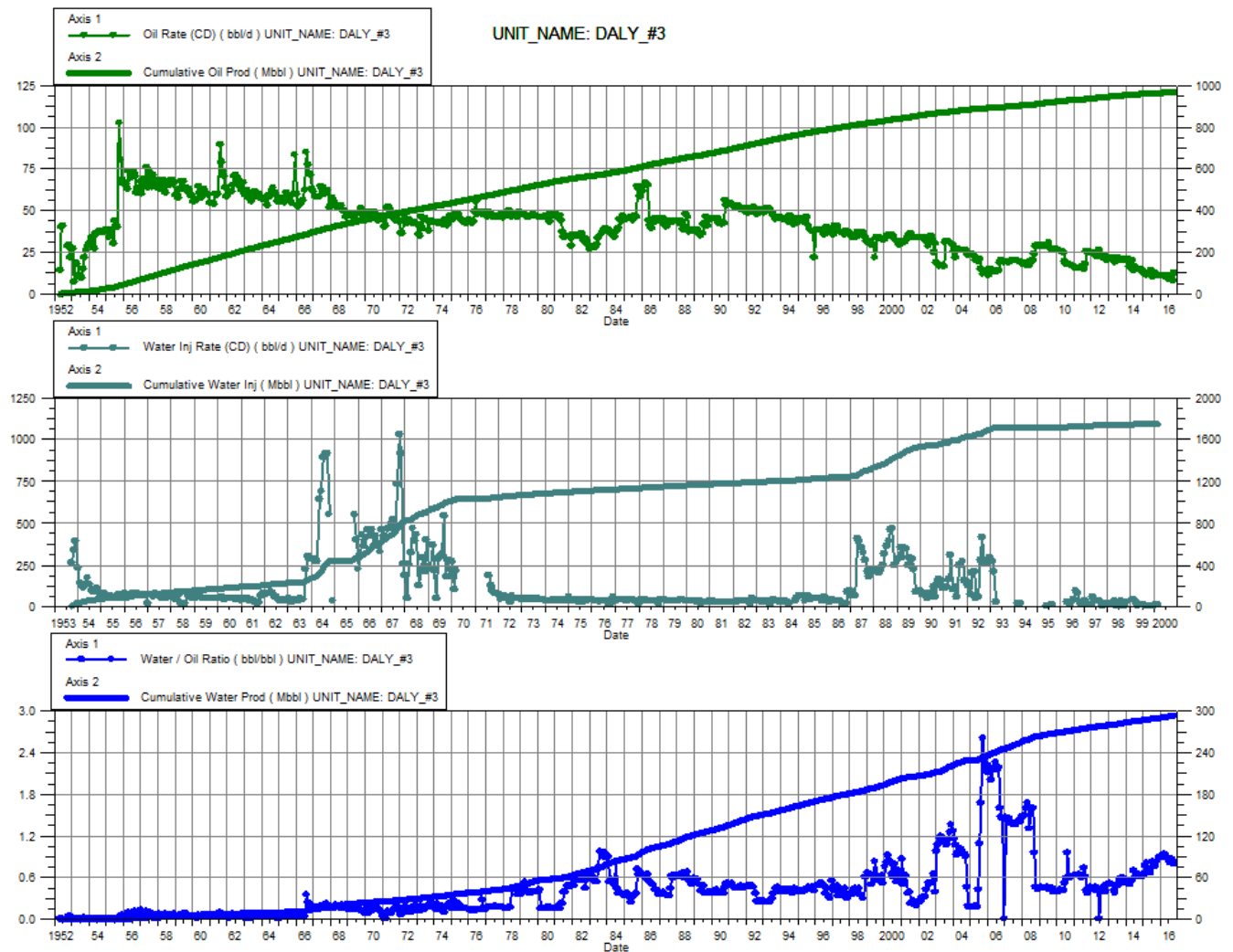
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	27.10	281.13	23.48	118.79		192.02	0.87		0.47	--
2/29/2016	22.72	281.79	26.56	119.56		192.02	1.17		0.47	--
3/31/2016	22.49	282.48	24.46	120.32		192.02	1.09		0.47	--
4/30/2016	19.15	283.06	21.46	120.96		192.02	1.12		0.47	--
5/31/2016	17.23	283.59	25.65	121.76		192.02	1.49		0.47	--
6/30/2016	21.06	284.22	25.10	122.51		192.02	1.19		0.47	--
7/31/2016	23.62	284.96	28.17	123.39		192.02	1.19		0.46	--
8/31/2016	19.65	285.57	26.25	124.20		192.02	1.34		0.46	--
9/30/2016	19.18	286.14	27.12	125.01		192.02	1.41		0.46	--
10/31/2016	18.08	286.70	25.51	125.80		192.02	1.41		0.46	--
11/30/2016	20.09	287.30	46.56	127.20		192.02	2.32		0.46	--
12/31/2016	23.39	288.03	56.85	128.96		192.02	2.43		0.45	--



## Daly Unit No. 3

### Pattern P-25 - 00/16-01-010-28W1/00

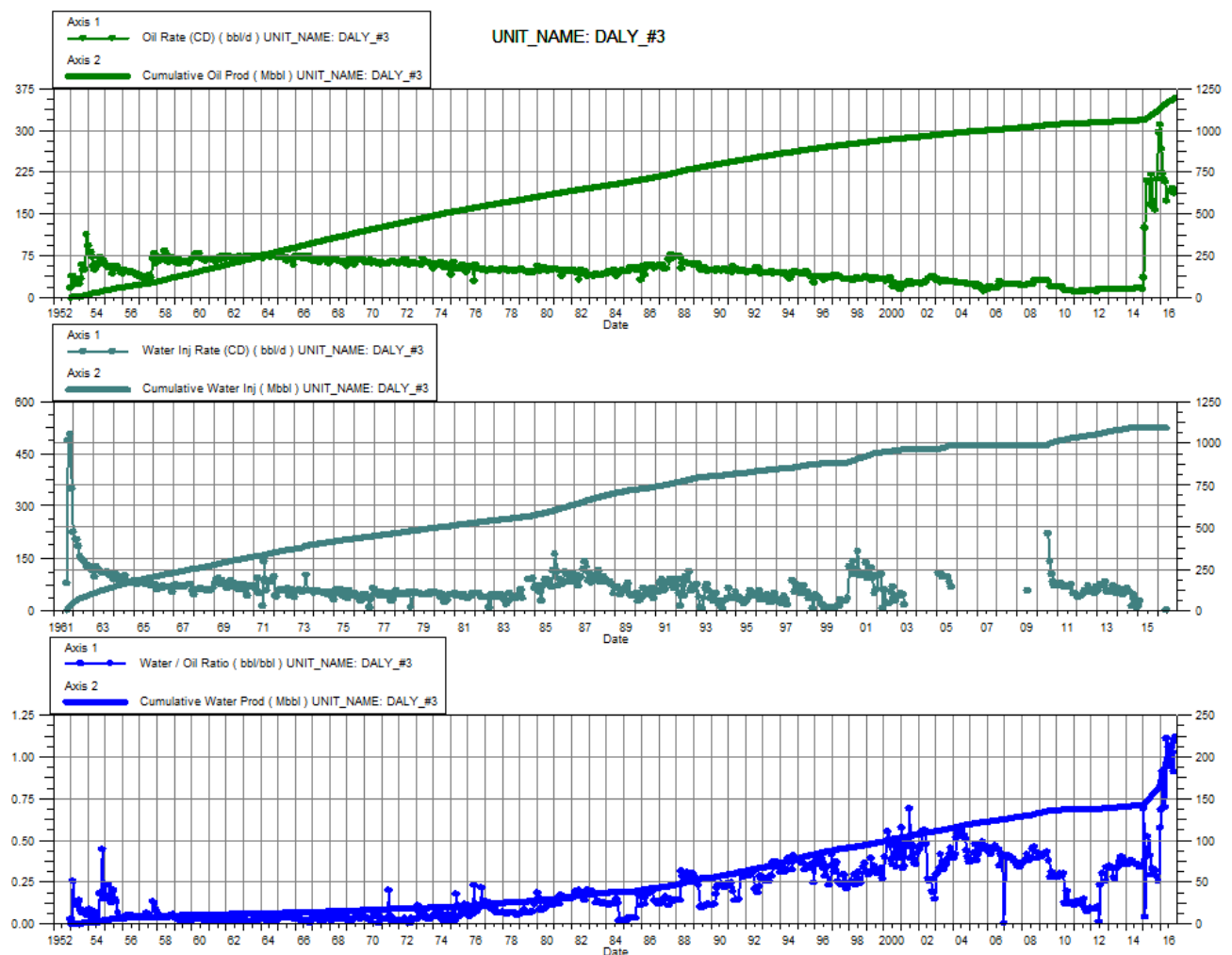
Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	1.80	153.53	1.57	46.23		277.99	0.87		1.37	--
2/29/2016	1.76	153.58	1.63	46.27		277.99	0.93		1.37	--
3/31/2016	1.78	153.64	1.66	46.33		277.99	0.93		1.37	--
4/30/2016	1.62	153.69	1.47	46.37		277.99	0.91		1.37	--
5/31/2016	1.63	153.74	1.43	46.41		277.99	0.88		1.37	--
6/30/2016	1.43	153.78	1.20	46.45		277.99	0.84		1.37	--
7/31/2016	1.80	153.84	1.46	46.50		277.99	0.81		1.37	--
8/31/2016	1.66	153.89	1.42	46.54		277.99	0.85		1.37	--
9/30/2016	1.32	153.93	1.08	46.57		277.99	0.82		1.37	100.00
10/31/2016	2.03	153.99	1.62	46.62		277.99	0.80		1.37	3,000.00
11/30/2016	2.45	154.06	1.88	46.68		277.99	0.77		1.37	3,000.00
12/31/2016	2.56	154.14	1.96	46.74		277.99	0.77		1.36	3,000.00



## Daly Unit No. 3

### Pattern P-26 - 00/12-01-010-28W1/00

Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	42.35	181.52	28.80	27.61		174.42	0.68		0.82	5,800.00
2/29/2016	35.62	182.55	32.31	28.55		174.42	0.91		0.81	5,800.00
3/31/2016	33.82	183.60	28.49	29.43		174.42	0.84		0.81	5,800.00
4/30/2016	33.13	184.60	23.15	30.13		174.42	0.70		0.80	5,800.00
5/31/2016	27.65	185.45	30.67	31.08		174.42	1.11		0.79	5,800.00
6/30/2016	30.06	186.35	31.60	32.02	0.04	174.42	1.05	0.00	0.79	5,800.00
7/31/2016	30.64	187.30	30.55	32.97		174.42	1.00		0.78	5,800.00
8/31/2016	30.35	188.25	28.60	33.86		174.42	0.94		0.77	5,800.00
9/30/2016	31.27	189.18	31.98	34.82		174.42	1.02		0.77	5,606.67
10/31/2016	29.78	190.11	27.08	35.66		174.42	0.91		0.76	--
11/30/2016	28.98	190.98	26.91	36.46		174.42	0.93		0.76	--
12/31/2016	31.00	191.94	23.60	37.20		174.42	0.76		0.75	--



# Daly Unit No. 3

## Pattern P-27 - 00/10-01-010-28W1/00

Date	Oil Rate (CD) m3/d	Cum Oil Prod Mm3	Water Rate (CD) m3/d	Cum Water Prod Mm3	Water Inj Rate (CD) m3/d	Cum Water Inj Mm3	Water Oil Ratio m3/m3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio	Water Inj Pressure kPa
1/31/2016	38.80	96.48	27.04	25.03		70.71	0.70		0.57	--
2/29/2016	31.30	97.39	30.67	25.92		70.71	0.98		0.57	--
3/31/2016	29.04	98.29	27.29	26.77		70.71	0.94		0.56	--
4/30/2016	28.66	99.15	22.01	27.43		70.71	0.77		0.55	--
5/31/2016	23.07	99.86	29.54	28.34		70.71	1.28		0.54	--
6/30/2016	25.90	100.64	30.66	29.26		70.71	1.18		0.54	--
7/31/2016	26.05	101.45	29.50	30.18		70.71	1.13		0.53	--
8/31/2016	26.07	102.26	27.58	31.03		70.71	1.06		0.52	--
9/30/2016	26.58	103.05	30.78	31.96		70.71	1.16		0.52	--
10/31/2016	26.19	103.87	26.70	32.78		70.71	1.02		0.51	--
11/30/2016	25.81	104.64	26.84	33.59		70.71	1.04		0.50	--
12/31/2016	27.05	105.48	22.95	34.30		70.71	0.85		0.50	--

