

TORC OIL & GAS LTD.

EAST MANSON UNIT #4

ENHANCED OIL RECOVERY (EOR) ANNUAL REPORT

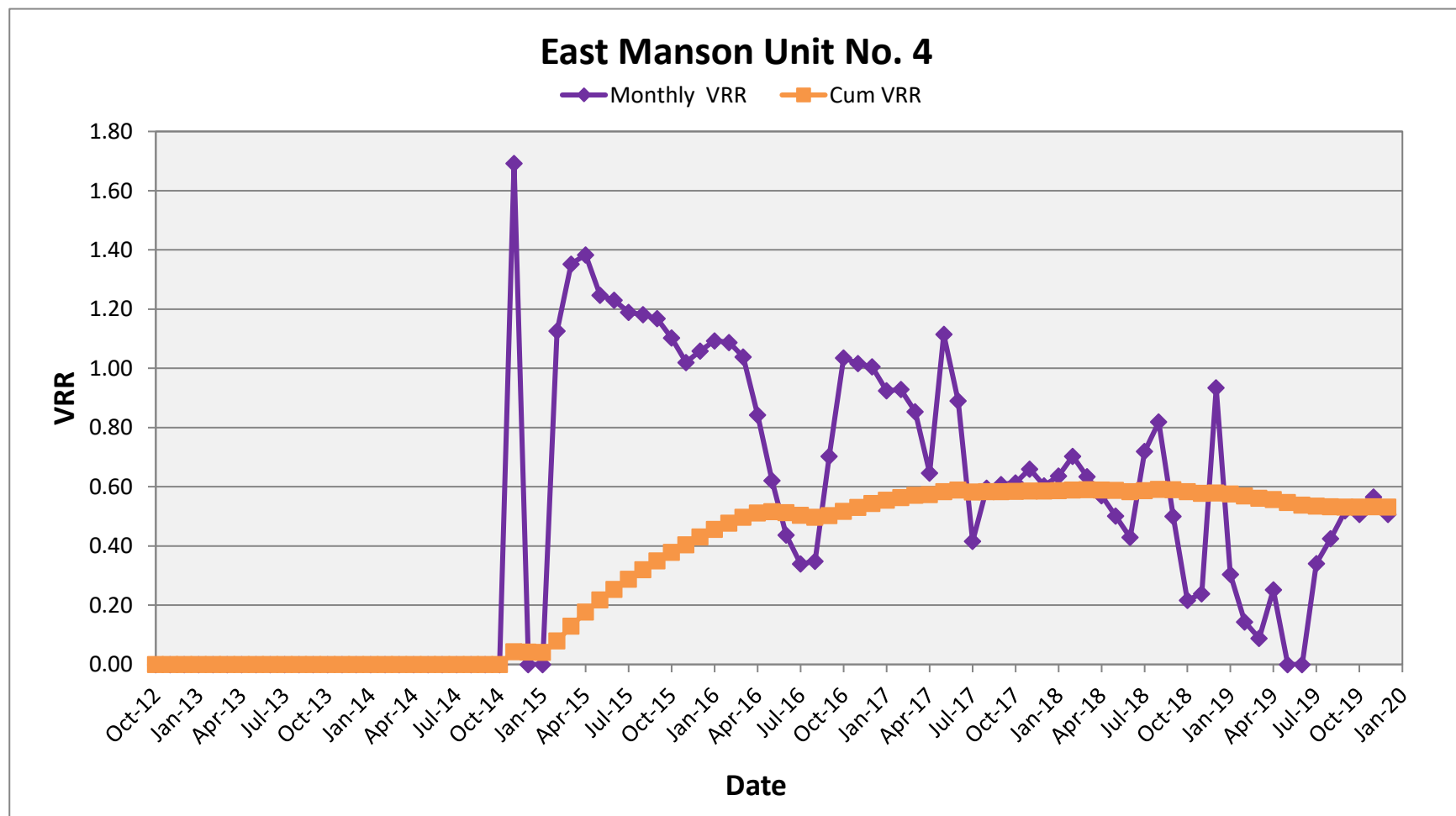
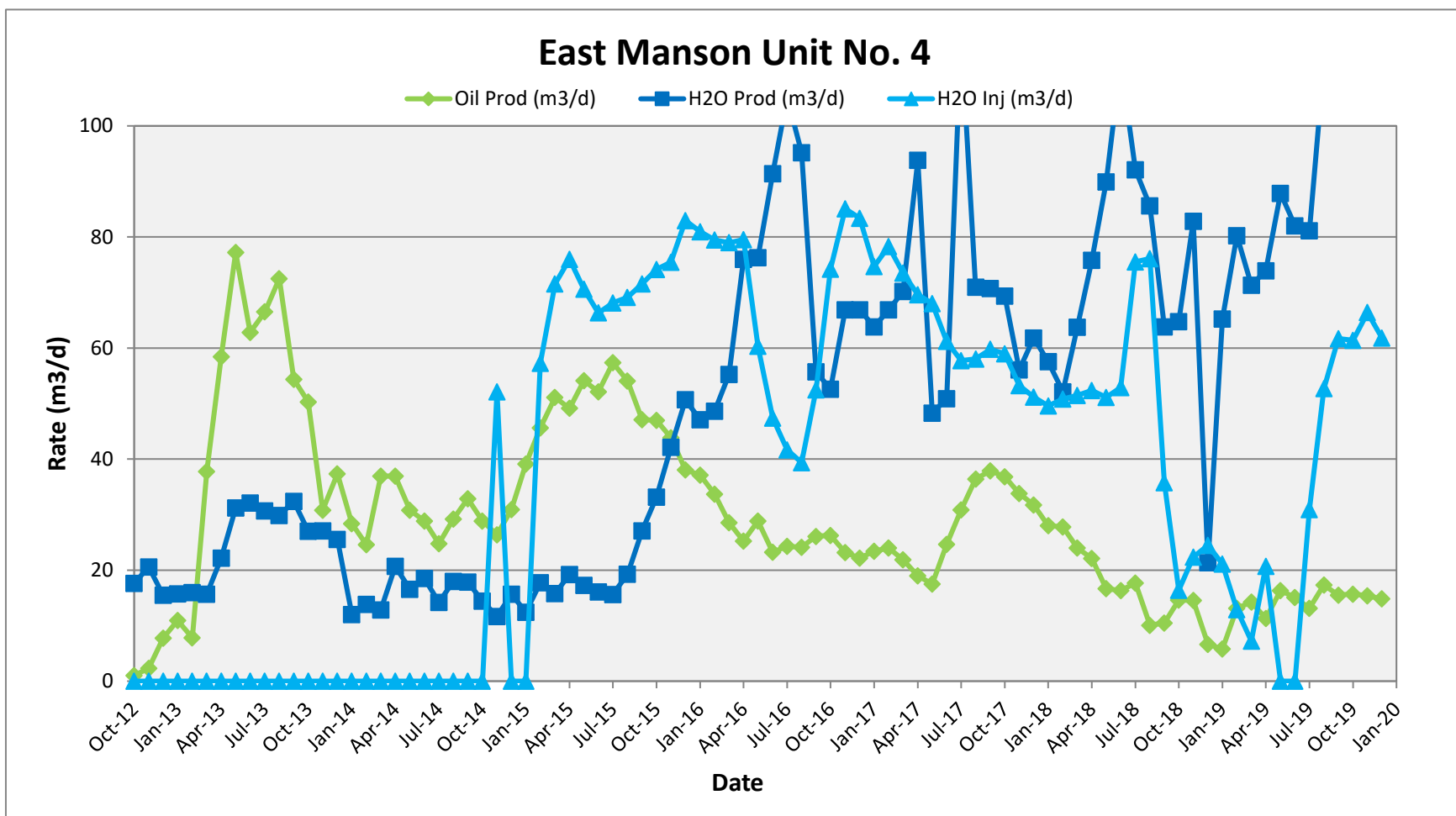
Discussion

East Manson Unit No 4 waterflood had a successful year of flood performance.

In 2019, TORC installed injection control devices (ICD) in the 2 injection wells within this unit. These ICD's have been successful in evenly distributing the injected water throughout the wellbore. Injection rates have increased and the offsetting performance has been restored.

EMU No.4

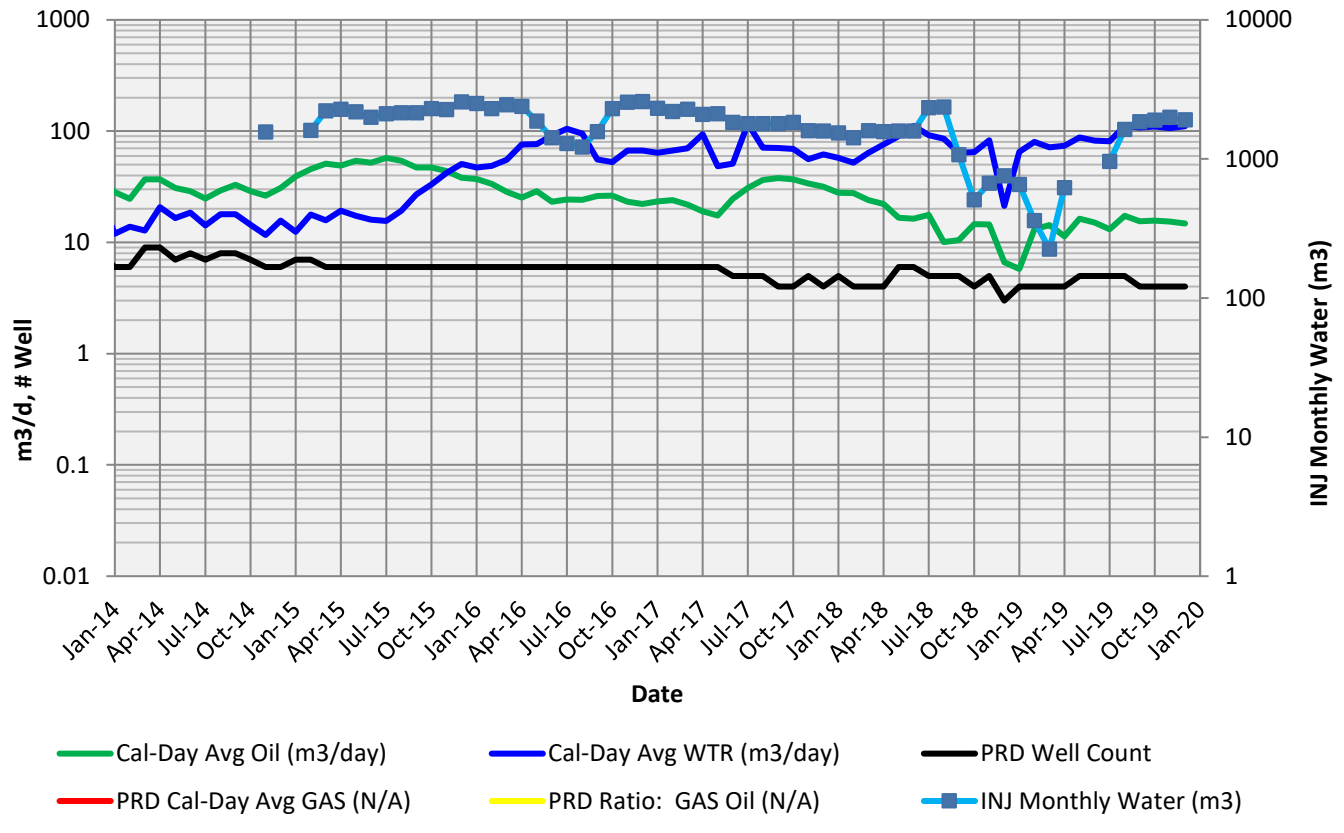
Date	Oil Prod (m3/d)	Gas Prod (e3m3/d)	H2O Prod (m3/d)	H2O Inj (m3/d)	Monthly VRR	Cum VRR	Cum PRD Oil (m3)	Cum PRD Gas (e3m3)	Cum PRD Water (m3)	Cum INJ Water (m3)
Dec-2019	15	-	111	62	0.51	0.531	77,791	-	135,741	102,173



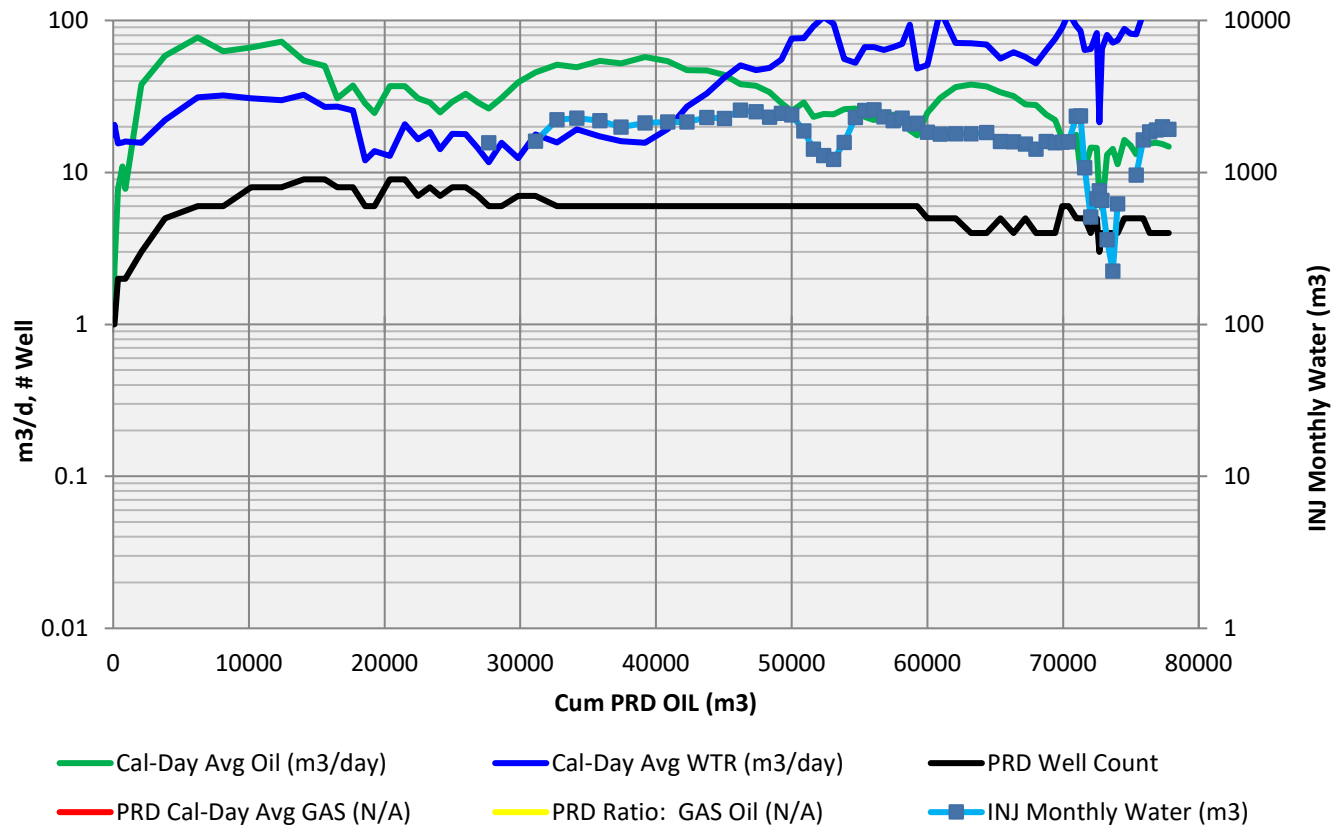
East Manson Unit No. 4 (Section 12-14-29W1) - VRR Table																										
Month	Days	Monthly Oil Prod	Monthly Oil Prod	Monthly Gas Prod	Monthly H2O Prod	Monthly H2O Prod	Monthly H2O Inj	Monthly H2O Inj	Oil Prod	Gas Prod	H2O Prod	H2O Inj	Cum Oil	Cum Oil	Cum Gas	Cum H2O	Cum H2O Inj	Prod Well Count	GOR	H2OCut	Voidage	Monthly VRR	Cum GOR	H2OCut	Cum Void	Cum VRR
		(bbl)	(m3)	(E3m3)	(bbl)	(m3)	(bbl)	(m3)	(m3/d)	(E3m3/d)	(m3/d)	(m3/d)	(bbl)	(m3)	(E3m3)	(m3)	(m3)		(m3/m3)	%	(rm3/d)		(m3/m3)	%	(rm3)	
Oct-12	31	201	32.0	0	3,437	546.2	0	0	1	0	18	0	201	32	0	546	0	1	0	94.5%	18	0.00	0.0	94.5%	572.3	0.000
Nov-12	30	442	70.2	0	3,886	617.6	0	0	2	0	21	0	643	102	0	1164	0	1	0	89.8%	22	0.00	0.0	91.9%	1244.3	0.000
Dec-12	31	1,513	240.5	0	3,021	480.0	0	0	8	0	15	0	2,156	343	0	1644	0	2	0	66.6%	21	0.00	0.0	82.7%	1902.3	0.000
Jan-13	31	2,137	339.6	0	3,073	488.3	0	0	11	0	16	0	4,292	682	0	2132	0	2	0	59.0%	24	0.00	0.0	75.8%	2641.0	0.000
Feb-13	28	1,373	218.2	0	2,812	446.8	0	0	8	0	16	0	5,664	901	0	2579	0	2	0	67.2%	22	0.00	0.0	74.1%	3249.4	0.000
Mar-13	31	7,369	1,171.0	0	3,056	485.7	0	0	38	0	16	0	13,030	2072	0	3065	0	3	0	29.3%	43	0.00	0.0	59.7%	4592.4	0.000
Apr-13	30	11,036	1,753.8	0	4,181	664.4	0	0	58	0	22	0	24,061	3825	0	3729	0	5	0	27.5%	65	0.00	0.0	49.4%	6540.4	0.000
May-13	31	15,061	2,393.4	0	6,092	968.0	0	0	77	0	31	0	39,116	6219	0	4697	0	6	0	28.8%	88	0.00	0.0	43.0%	9260.4	0.000
Jun-13	30	11,862	1,885.0	0	6,060	963.0	0	0	63	0	32	0	50,972	8104	0	5660	0	6	0	33.8%	78	0.00	0.0	41.1%	11604.3	0.000
Jul-13	31	12,974	2,061.7	0	5,983	950.8	0	0	67	0	31	0	63,940	10165	0	6611	0	8	0	31.6%	79	0.00	0.0	39.4%	14065.0	0.000
Aug-13	31	14,144	2,247.6	0	5,825	925.6	0	0	73	0	30	0	78,078	12413	0	7536	0	8	0	29.2%	83	0.00	0.0	37.8%	16636.0	0.000
Sep-13	30	10,265	1,631.2	0	6,110	970.9	0	0	54	0	32	0	88,338	14044	0	8507	0	9	0	37.3%	72	0.00	0.0	37.7%	18802.5	0.000
Oct-13	31	9,805	1,558.1	0	5,271	837.6	0	0	50	0	27	0	98,138	15602	0	9345	0	9	0	35.0%	64	0.00	0.0	37.5%	20781.8	0.000
Nov-13	30	5,816	924.2	0	5,114	812.7	0	0	31	0	27	0	103,952	16527	0	10158	0	8	0	46.8%	50	0.00	0.0	38.1%	22273.3	0.000
Dec-13	31	7,282	1,157.2	0	4,985	792.1	0	0	37	0	26	0	111,230	17684	0	10950	0	8	0	40.6%	53	0.00	0.0	38.2%	23914.1	0.000
Jan-14	31	5,538	880.1	0	2,337	371.3	0	0	28	0	12	0	116,766	18564	0	11321	0	6	0	29.7%	33	0.00	0.0	37.9%	24929.8	0.000
Feb-14	28	4,334	688.7	0	2,437	387.2	0	0	25	0	14	0	121,098	19253	0	11708	0	6	0	36.0%	32	0.00	0.0	37.8%	25821.7	0.000
Mar-14	31	7,203	1,144.7	0	2,501	397.4	0	0	37	0	13	0	128,298	20397	0	12106	0	9	0	25.8%	40	0.00	0.0	37.2%	27056.7	0.000
Apr-14	30	6,974	1,108.3	0	3,910	621.4	0	0	37	0	21	0	135,270	21506	0	12727	0	9	0	35.9%	48	0.00	0.0	37.2%	28490.3	0.000
May-14	31	6,005	954.3	0	3,230	513.2	0	0	31	0	17	0	141,272	22460	0	13240	0	7	0	35.0%	39	0.00	0.0	37.1%	29702.7	0.000
Jun-14	30	5,443	865.0	0	3,491	554.7	0	0	29	0	18	0	146,713	23325	0	13795	0	8	0	39.1%	40	0.00	0.0	37.2%	30891.7	0.000
Jul-14	31	4,836	768.5	0	2,768	439.9	0	0	25	0	14	0	151,547	24093	0	14235	0	7	0	36.4%	32	0.00	0.0	37.1%	31894.8	0.000
Aug-14	31	5,693	904.7	0	3,503	556.6	0	0	29	0	18	0	157,237	24998	0	14791	0	8	0	38.1%	39	0.00	0.0	37.2%	33114.6	0.000
Sep-14	30	6,204	985.9	0	3,372	535.8	0	0	33	0	18	0	163,439	25984	0	15327	0	8	0	35.2%	42	0.00	0.0	37.1%	34372.9	0.000
Oct-14	31	5,628	894.3	0	2,810	446.5	0	0	29	0	14	0	169,064	26878	0	15774	0	7	0	33.3%	36	0.00	0.0	37.0%	35474.4	0.000
Nov-14	30	4,974	790.4	0	2,203	350.0	9,834	1,563	26	0	12	52	174,035	27669	0	16124	1563	6	0	30.7%	31	1.69	0.0	36.8%	36403.2	0.043
Dec-14	31	6,031	958.4	0	3,060	486.2	0	0	31	0	16	0	180,064	28627	0	16610	1563	6	0	33.7%	38	0.00	0.0	36.7%	37591.5	0.042
Jan-15	31	7,635	1,213.2	0	2,422	384.9	0	0	39	0	12	0	187,695	29840	0	16995	1563	7	0	24.1%	41	0.00	0.0	36.3%	38863.9	0.040
Feb-15	28	8,037	1,277.1	0	3,127	496.9	10,088	1,604	46	0	18	57	195,728	31117	0	17492	3167	7	0	28.0%	51	1.13	0.0	36.0%	40295.6	0.079
Mar-15	31	9,974	1,585.0	0	3,078	489.1	13,953	2,218	51	0	16	72	205,697	32702	0	17981	5386	6	0	23.6%	53	1.35	0.0	35.5%	41944.2	0.129
Apr-15	30	9,276	1,474.1	0	3,631	577.0	14,339	2,280	49	0	19	76	214,970	34176	0	18558	7665	6	0	28.1%	55	1.38	0.0	35.2%	43600.2	0.177
May-15	31	10,554	1,677.2	0	3,373	536.0	13,763	2,188	54	0	17	71	225,519	35854	0	19094	9853	6	0	24.2%	57	1.25	0.0	34.7%	45363.3	0.218
Jun-15	30	9,844	1,564.3	0	3,031	481.7	12,517	1,990	52	0	16	66	235,359	37418	0	19576	11843	6	0	23.5%	54	1.23	0.0	34.3%	46989.3	0.253
Jul-15	31	11,187	1,777.8	0	3,051	484.8	13,287	2,112	57	0	16	68	246,541	39196	0	20060	13955	6	0	21.4%	58	1.19	0.0	33.9%	48774.3	0.288
Aug-15	31	10,542	1,675.3	0	3,759	597.3	13,482	2,143	54	0	19	69	257,079	40871	0	20658	16099	6	0	26.3%	59	1.18	0.0	33.6%	50597.6	0.320
Sep-15	30	8,888	1,412.4	0	5,110	812.0	13,501	2,146	47	0	27	72	265,963	42283	0	21470	18245	6	0	36.5%	62	1.17	0.0	33.7%	52444.7	0.350
Oct-15	31	9,162	1,456.0	0	6,463	1,027.1	14,458	2,299	47	0	33	74	275,121	43739	0	22497	20544	6	0	41.4%	68	1.10	0.0	34.0%	54539.9	0.379
Nov-15	30	8,280	1,315.8	0	7,950	1,263.4	14,239	2,264	44	0	42	75	283,397	45055	0	23760	22808	6	0	49.0%	74	1.02	0.0	34.5%	56770.3	0.404
Dec-15	31	7,424	1,180.2	0	9,880	1,570.8	16,173	2,571	38	0	51	83	290,821	46235	0	25331	25379	6	0	57.1%	79	1.06	0.0	35.4%	59210.6	0.431
Jan-16	31	7,237	1,150.5	0	9,181	1,459.7	15,784	2509.3	37	0	47	80.9	298,058	47386	0	26791	27888	6	0	55.9%	74	1.09	0.0	36.1%	61517.6	0.456
Feb-16	29	6,143	976.6	0	8,868	1,409.8	14,500	2305.2512	34	0	49	79.5	304,201	48363	0	28200	30193	6	0	59.1%	73	1.09	0.0	36.8%	63647.5	0.477
Mar-16	31	5,570	885.5	0	10,775	1,713.0	15,399	2448.2162	29	0	55	79.0	309,771	49248	0	29913	32642	6	0	65.9%	76	1.04	0.0	37.8%	66015.6	0.497
Apr-16	30	4,767	757.8	0	14,343	2,280.3	15,008	2385.9889	25	0	76	79.5	314,537	50006	0	32194	35028	6	0	75.1%	95	0.84	0.0	39.2%	68860.8	0.511
May-16	31	5,621	893.7	0	14,878	2,365.3	11,769	1871.0541	29	0	76	60.4	320,159	50900	0	34559	36899	6	0	72.6%	98	0.62	0.0	40.4%	71890.5	0.516
Jun-16	30	4,379	696.2	0	17,249	2,742.3	8,941	1421.4483	23	0	91	47.4	324,538	51596	0	37301	38320	6	0	79.8%	109	0.44	0.0	42.0%	75155.0	0.512
Jul-16	31	4,733	752.4	0	20,502	3,259.4	8,121	1291.089	24	0	105	41.6	329,271	52348	0	40561	39611	6	0	81.2%	123	0.34	0.0	43.7%	78980.3	0.504
Aug-16	31	4,701	747.3	0	18,558	2,950.3	7,671	1219.5564	24	0	95	39.3	333,972	53096	0	43511	40831	6	0	79.8%	113	0.35	0.0	45.0%	82491.2	0.497
Sep-16	30	4,924	782.9	0	10,515	1,671.7	9,900	1573.9173	26	0	56	52.5	338,896	53879	0	45183	42405	6	0	68.1%	75	0.70	0.0	45.6%	84742.9	0.503
Oct-16	31	5,121	814.2	0	10,252	1,629.8	14,469	2300.3498	26	0	53	74.2	344,017	54693	0	46813	44705	6	0	66.7%	72	1.04	0.0	46.1%	86975.3	0.517
Nov-16	30	4,374	695.4	0	12,622	2,006.7	16,054	2552.3641	23	0	67	85.1	348,391	55388	0	48819	47257	6	0	74.3%	84	1.02	0.0	46.8%	89499.9	0.531
Dec-16	31	4,317	686.3	0	13,040	2,073.1																				

East Manson Unit No. 4 (Section 12-14-29W1) - VRR Table																										
		Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly																		
Month	Days	Oil Prod	Oil Prod	Gas Prod	H2O Prod	H2O Prod	H2O Inj	H2O Inj	Oil Prod	Gas Prod	H2O Prod	H2O Inj	Cum Oil	Cum Oil	Cum Gas	Cum H2O	Cum H2O Inj	Prod Well	GOR	H2OCut	Voidage	Monthly	Cum GOR	H2OCut	Cum Void	Cum VRR
		(bbl)	(m3)	(E3m3)	(bbl)	(m3)	(bbl)	(m3)	(m3/d)	(E3m3/d)	(m3/d)	(m3/d)	(bbl)	(m3)	(E3m3)	(m3)	(m3)	Count	(m3/m3)	%	(rm3/d)	VRR	(m3/m3)	%	(rm3)	
Jun-18	30	3,082	490.0	0	21,022	3,342.1	9,980	1586.6232	16	0	111	52.9	442,942	70420	0	90061	82352	6	0	87.2%	124	0.43	0.0	56.1%	141924.8	0.583
Jul-18	31	3,452	548.8	0	17,955	2,854.6	14,722	2340.5676	18	0	92	75.5	446,394	70969	0	92916	84693	5	0	83.9%	105	0.72	0.0	56.7%	145194.6	0.586
Aug-18	31	1,967	312.6	0	16,694	2,654.0	14,839	2359.1765	10	0	86	76.1	448,360	71281	0	95570	87052	5	0	89.5%	93	0.82	0.0	57.3%	148090.3	0.591
Sep-18	30	1,973	313.6	0	12,038	1,913.8	6,743	1071.9889	10	0	64	35.7	450,333	71595	0	97483	88124	5	0	85.9%	72	0.50	0.0	57.7%	150242.8	0.590
Oct-18	31	2,844	452.1	0	12,627	2,007.5	3,192	507.531	15	0	65	16.4	453,177	72047	0	99491	88631	4	0	81.6%	76	0.22	0.0	58.0%	152590.6	0.584
Nov-18	30	2,740	435.6	0	15,631	2,485.0	4,214	669.9062	15	0	83	22.3	455,917	72483	0	101976	89301	5	0	85.1%	94	0.24	0.0	58.5%	155406.3	0.578
Dec-18	31	1,291	205.3	0	4,163	661.9	4,766	757.74563	7	0	21	24.4	457,208	72688	0	102638	90059	3	0	76.3%	26	0.93	0.0	58.5%	156221.4	0.579
Jan-19	31	1,129	179.5	0	12,715	2,021.5	4,119	654.79809	6	0	65	21.1	458,337	72868	0	104659	90714	4	0	91.8%	70	0.30	0.0	59.0%	158384.3	0.576
Feb-19	28	2,310	367.3	0	14,130	2,246.4	2,271	361.06518	13	0	80	12.9	460,647	73235	0	106906	91075	4	0	85.9%	90	0.14	0.0	59.3%	160910.2	0.569
Mar-19	31	2,781	442.1	0	13,908	2,211.1	1,411	224.30207	14	0	71	7.2	463,428	73677	0	109117	91299	4	0	83.3%	82	0.09	0.0	59.7%	163455.4	0.561
Apr-19	30	2,135	339.5	0	13,948	2,217.4	3,909	621.38315	11	0	74	20.7	465,563	74016	0	111334	91921	4	0	86.7%	83	0.25	0.0	60.1%	165931.9	0.557
May-19	31	3,187	506.6	0	17,129	2,723.2	0	0	16	0	88	0.0	468,750	74523	0	114057	91921	5	0	84.3%	100	0.00	0.0	60.5%	169038.8	0.547
Jun-19	30	2,846	452.4	0	15,479	2,460.8	0	0	15	0	82	0.0	471,596	74975	0	116518	91921	5	0	84.5%	93	0.00	0.0	60.8%	171842.4	0.538
Jul-19	31	2,562	407.4	0	15,814	2,514.1	6,027	958.23688	13	0	81	30.9	474,158	75383	0	119032	92879	5	0	86.1%	91	0.34	0.0	61.2%	174666.8	0.534
Aug-19	31	3,377	536.8	0	21,688	3,448.1	10,272	1633.0445	17	0	111	52.7	477,535	75920	0	122481	94512	5	0	86.5%	124	0.43	0.0	61.7%	178524.3	0.532
Sep-19	30	2,924	464.9	0	20,313	3,229.4	11,637	1850.0445	15	0	108	61.7	480,459	76385	0	125710	96362	4	0	87.4%	120	0.52	0.0	62.2%	182109.5	0.532
Oct-19	31	3,060	486.5	0	21,389	3,400.5	11,970	1903.0684	16	0	110	61.4	483,519	76871	0	129110	98265	4	0	87.5%	122	0.51	0.0	62.7%	185882.5	0.531
Nov-19	30	2,898	460.7	0	20,053	3,188.1	12,528	1991.7091	15	0	106	66.4	486,417	77332	0	132298	100257	4	0	87.4%	118	0.57	0.0	63.1%	189423.1	0.532
Dec-19	31	2,889	459.3	0	21,656	3,443.0	12,055	1916.5739	15	0	111	61.8	489,306	77791	0	135741	102173	4	0	88.2%	122	0.51	0.0	63.6%	193218.9	0.531

East Manson Unit No. 4 - Rate Time



East Manson Unit No. 4 - Rate Cum

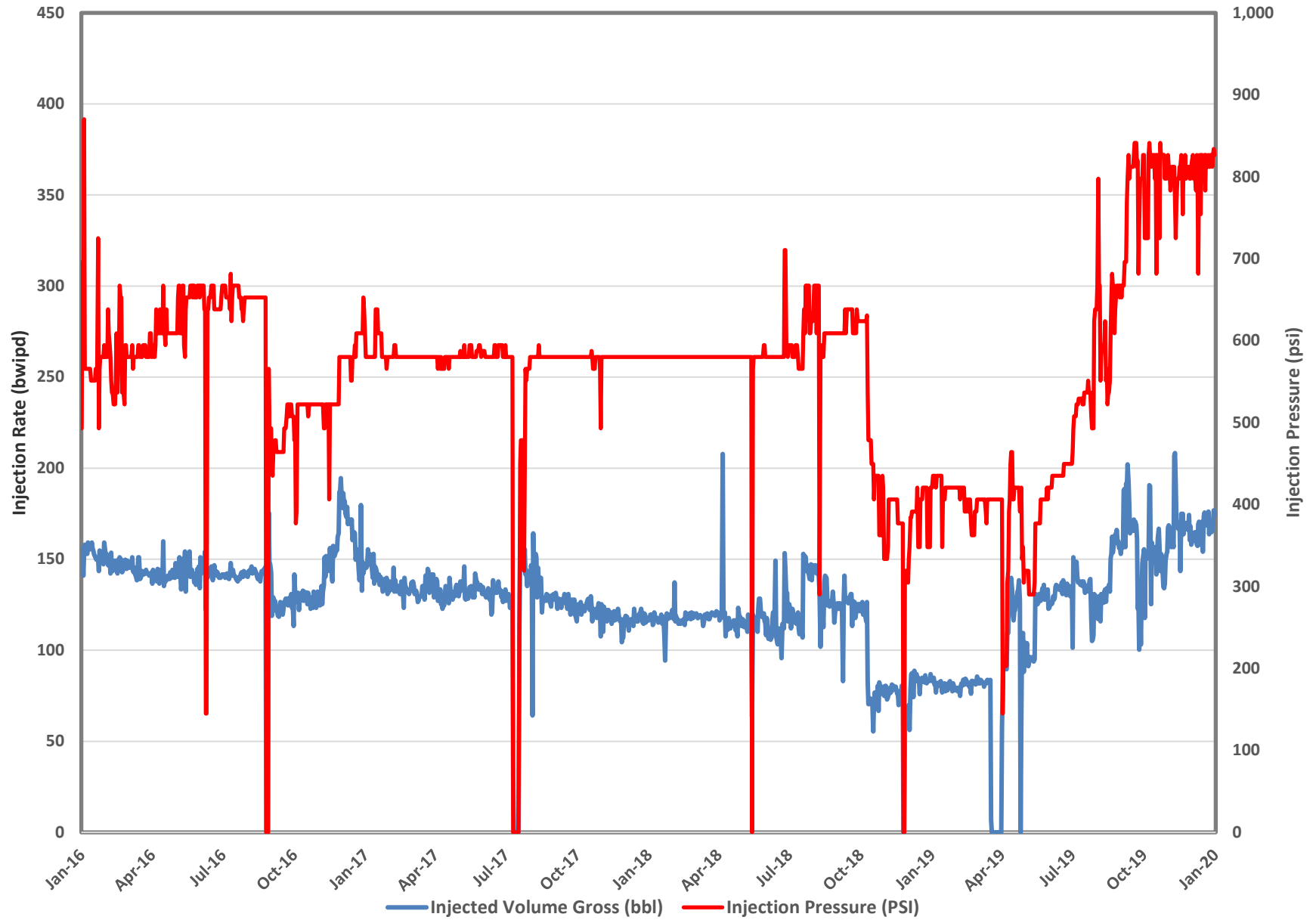


East Manson Unit No. 4 - Injection Parameters

Month	Oil Rate (m3/d)	Gas Rate (e3m3/d)	Water Rate (m3/d)	Water Inj Rate (m3/d)	Cum Oil (m3)	Cum Gas (e3m3)	Cum Water (m3)	Cum Inj Water (m3)	GOR (m3/m3)	WOR (m3/m3)
Jan-19	5.8	0.0	65.2	21.1	72,868	-	104,659	90,714	0	11.26
Feb-19	13.1	0.0	80.2	12.9	73,235	-	106,906	91,075	0	6.12
Mar-19	14.3	0.0	71.3	7.2	73,677	-	109,117	91,299	0	5.00
Apr-19	11.3	0.0	73.9	20.7	74,016	-	111,334	91,921	0	6.53
May-19	16.3	0.0	87.8	0.0	74,523	-	114,057	91,921	0	5.38
Jun-19	15.1	0.0	82.0	0.0	74,975	-	116,518	91,921	0	5.44
Jul-19	13.1	0.0	81.1	30.9	75,383	-	119,032	92,879	0	6.17
Aug-19	17.3	0.0	111.2	52.7	75,920	-	122,481	94,512	0	6.42
Sep-19	15.5	0.0	107.6	61.7	76,385	-	125,710	96,362	0	6.95
Oct-19	15.7	0.0	109.7	61.4	76,871	-	129,110	98,265	0	6.99
Nov-19	15.4	0.0	106.3	66.4	77,332	-	132,298	100,257	0	6.92
Dec-19	14.8	0.0	111.1	61.8	77,791	-	135,741	102,173	0	7.50

Month	00/05-12 Water Inj Press (psi)	00/11-12 Water Inj Press (psi)
Jan-19	422	725
Feb-19	400	725
Mar-19	405	725
Apr-19	354	725
May-19	357	725
Jun-19	438	725
Jul-19	531	725
Aug-19	624	725
Sep-19	769	725
Oct-19	799	725
Nov-19	801	725
Dec-19	808	725

00/05-12-014-29W1 Rate vs Pressure



00/11-12-014-29W1 Rate vs Pressure

