

TORC OIL & GAS LTD.

EAST MANSON UNIT #3

ENHANCED OIL RECOVERY (EOR) ANNUAL REPORT

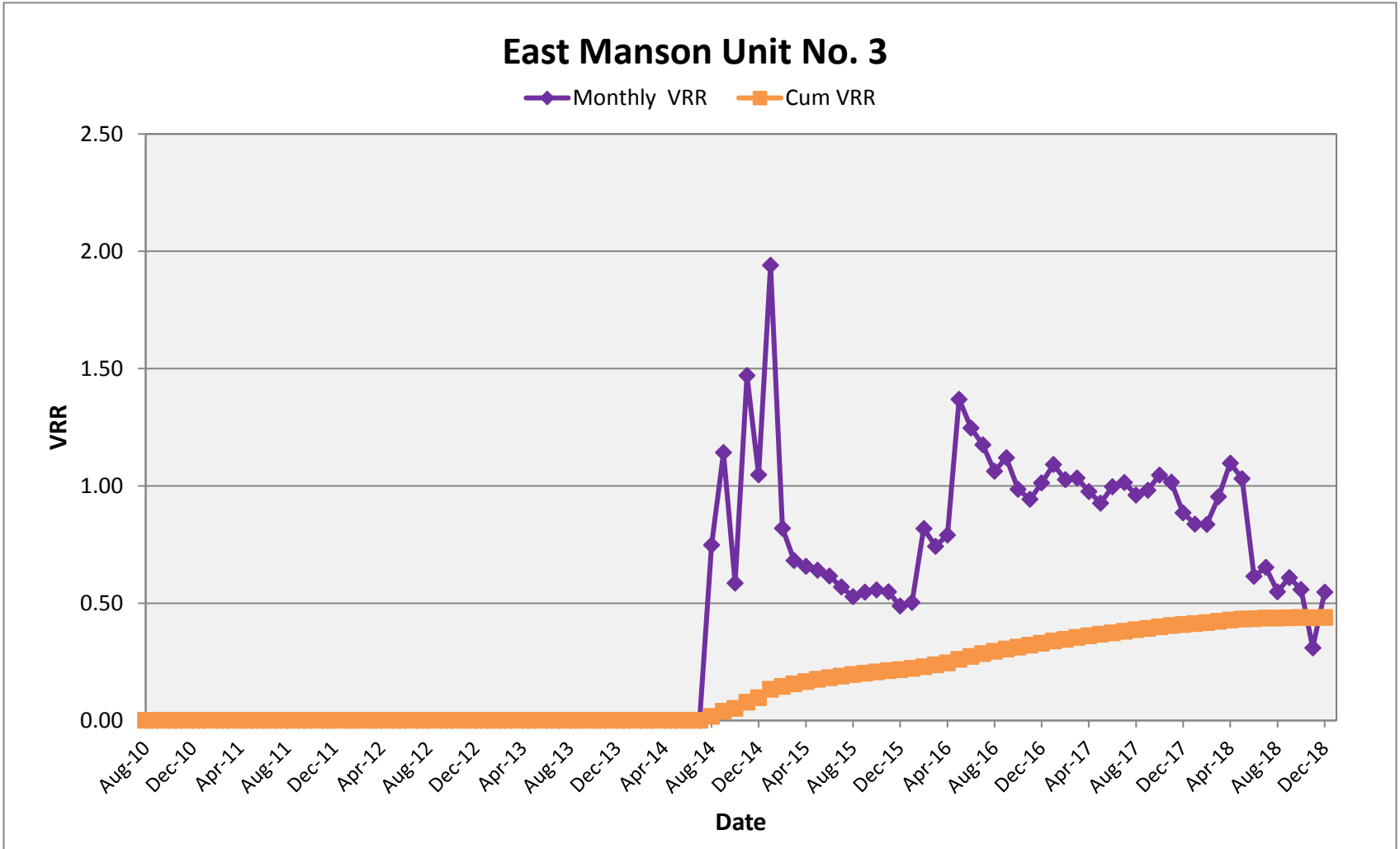
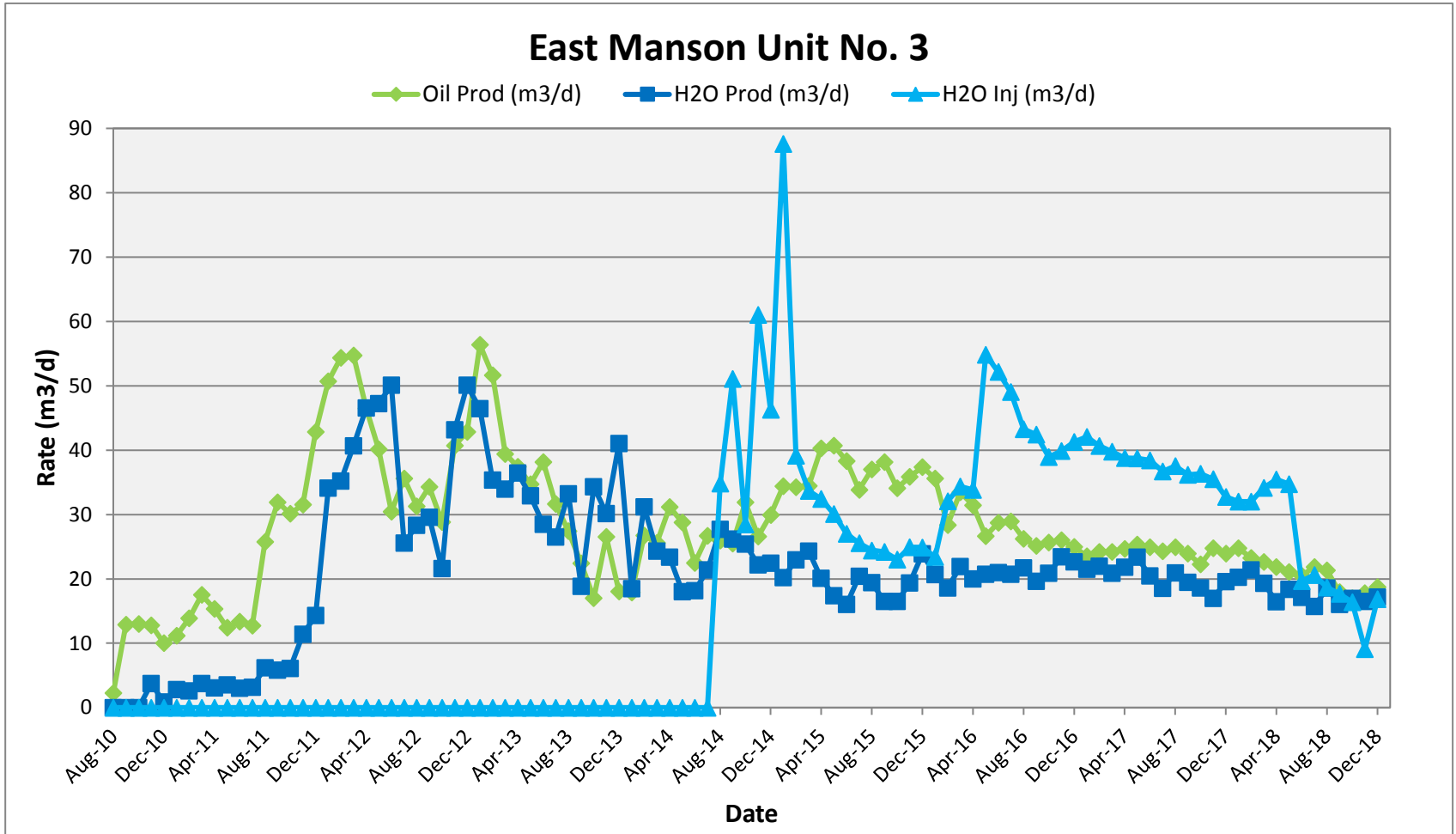
Discussion

The existing waterflood within East Manson Unit #3 had another good year of performance. Entering its fourth year since inception, the waterflood has been successful in arresting decline and providing sufficient pressure maintenance to the reservoir.

The primary focus in 2018 within EMU 3 was development. TORC drilled 4 wells within the unit, 2 wells in section 20 and 2 wells in section 21. Results to date have been mixed. The relatively poor results from these new wells points to the importance of initiating waterflood sooner than later as pressure maintenance is vital to the success of the unit.

TORC will be evaluating the conversion a few wells within the unit in 2019 to further expand the waterflood within EMU 3. These conversions will likely take place in the latter half of 2019.

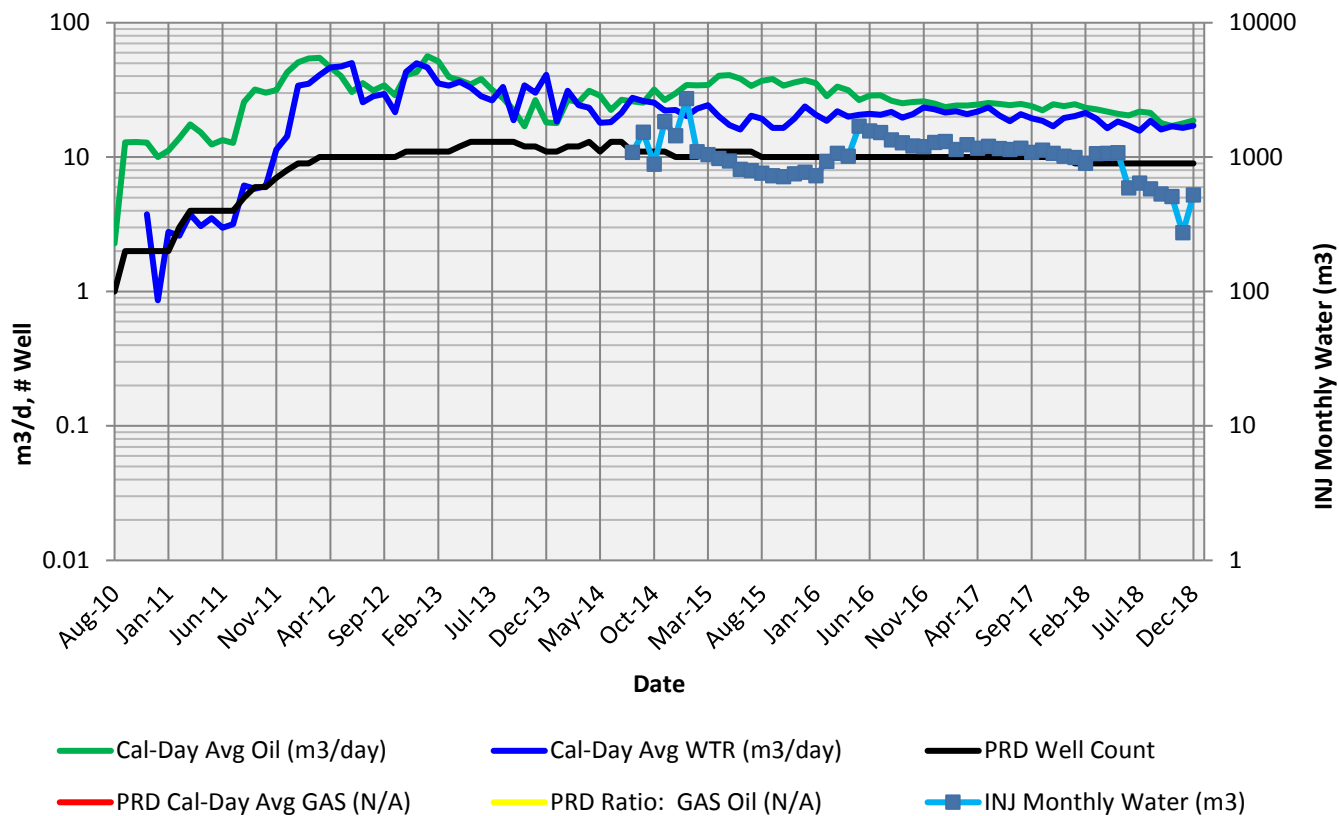
| | Date | Oil Prod (m3/d) | Gas Prod (e3m3/d) | H2O Prod (m3/d) | H2O Inj (m3/d) | Monthly VRR | Cum VRR | Cum PRD Oil (m3) | Cum PRD Gas (e3m3) | Cum PRD Water (m3) | Cum INJ Water (m3) |
|-----------|----------|-----------------|-------------------|-----------------|----------------|-------------|---------|------------------|--------------------|--------------------|--------------------|
| EMU No. 3 | Dec-2018 | 19 | - | 17 | 17 | 0.55 | 0.439 | 86,417 | - | 65,280 | 56,174 |



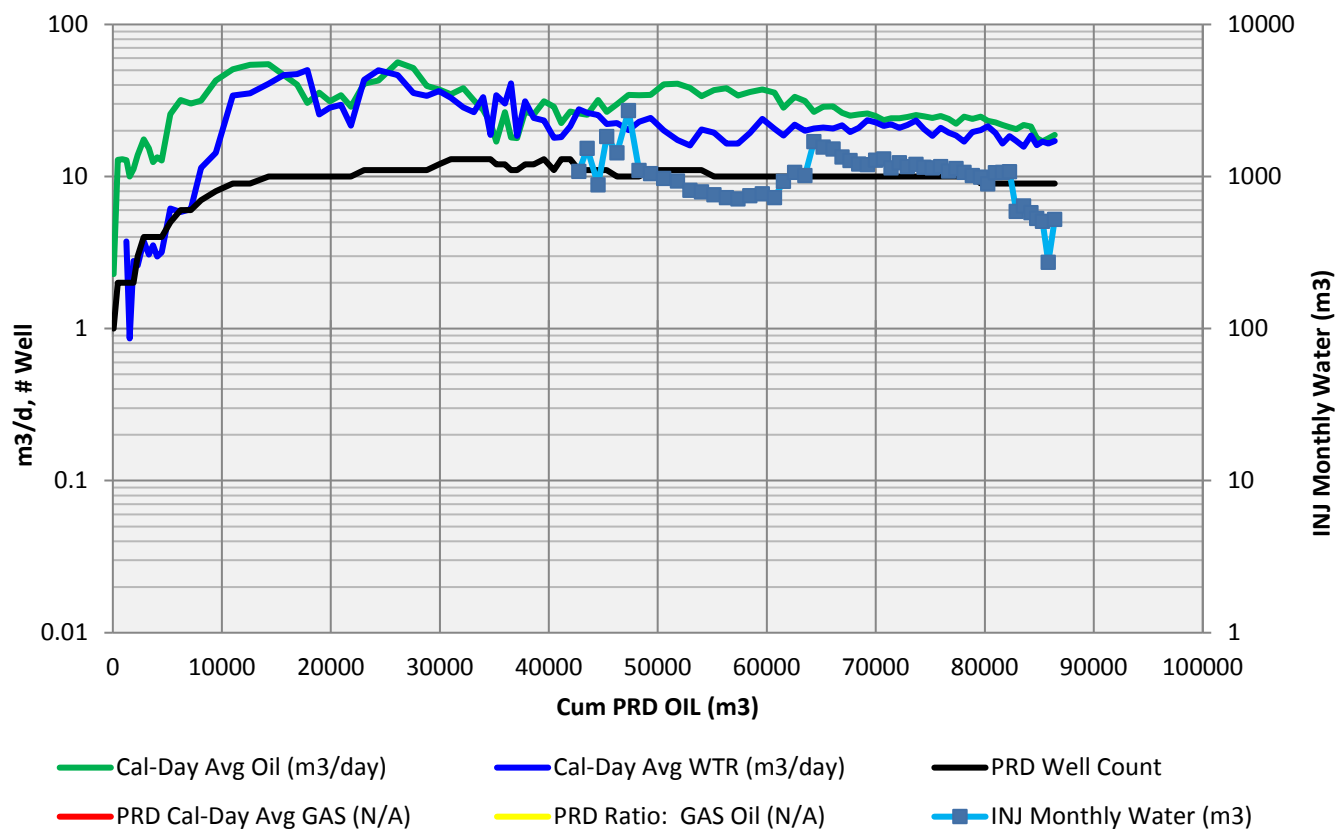
| East Manson Unit No. 3 (Section 20 and 21) - VRR Table | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|------------------------|-----------------------|-------------------------|------------------------|-----------------------|-----------------------|----------------------|-----------------|-------------------|-----------------|----------------|---------------|--------------|----------------|--------------|------------------|-----------------|-------------|----------|-----------------|-------------|-----------------|----------|----------------|---------|
| Month | Days | Monthly Oil Prod (bbl) | Monthly Oil Prod (m3) | Monthly Gas Prod (E3m3) | Monthly H2O Prod (bbl) | Monthly H2O Prod (m3) | Monthly H2O Inj (bbl) | Monthly H2O Inj (m3) | Oil Prod (m3/d) | Gas Prod (E3m3/d) | H2O Prod (m3/d) | H2O Inj (m3/d) | Cum Oil (bbl) | Cum Oil (m3) | Cum Gas (E3m3) | Cum H2O (m3) | Cum H2O Inj (m3) | Prod Well Count | GOR (m3/m3) | H2OCut % | Voidage (rm3/d) | Monthly VRR | Cum GOR (m3/m3) | H2OCut % | Cum Void (rm3) | Cum VRR |
| Aug-10 | 31 | 445 | 70.7 | 0 | 0 | 0.0 | 0 | 0 | 2 | 0 | 0 | 0 | 445 | 71 | 0 | 0 | 0 | 1 | 0 | 0.0% | 2 | 0.00 | 0.0 | 0.0% | 51.6 | 0.000 |
| Sep-10 | 30 | 2,434 | 386.8 | 0 | 0 | 0.0 | 0 | 0 | 13 | 0 | 0 | 0 | 2,878 | 458 | 0 | 0 | 0 | 2 | 0 | 0.0% | 9 | 0.00 | 0.0 | 0.0% | 334.0 | 0.000 |
| Oct-10 | 31 | 2,532 | 402.3 | 0 | 0 | 0.0 | 0 | 0 | 13 | 0 | 0 | 0 | 5,408 | 860 | 0 | 0 | 0 | 2 | 0 | 0.0% | 9 | 0.00 | 0.0 | 0.0% | 627.6 | 0.000 |
| Nov-10 | 30 | 2,419 | 384.4 | 0 | 707 | 112.4 | 0 | 0 | 13 | 0 | 4 | 0 | 7,826 | 1244 | 0 | 112 | 0 | 2 | 0 | 22.6% | 13 | 0.00 | 0.0 | 8.3% | 1021.2 | 0.000 |
| Dec-10 | 31 | 1,956 | 310.8 | 0 | 168 | 26.7 | 0 | 0 | 10 | 0 | 1 | 0 | 9,781 | 1555 | 0 | 139 | 0 | 2 | 0 | 7.9% | 8 | 0.00 | 0.0 | 8.2% | 1274.9 | 0.000 |
| Jan-11 | 31 | 2,180 | 346.5 | 0 | 542 | 86.1 | 0 | 0 | 11 | 0 | 3 | 0 | 11,960 | 1902 | 0 | 225 | 0 | 2 | 0 | 19.9% | 11 | 0.00 | 0.0 | 10.6% | 1614.4 | 0.000 |
| Feb-11 | 28 | 2,444 | 388.4 | 0 | 457 | 72.7 | 0 | 0 | 14 | 0 | 3 | 0 | 14,403 | 2290 | 0 | 298 | 0 | 3 | 0 | 15.8% | 13 | 0.00 | 0.0 | 11.5% | 1971.0 | 0.000 |
| Mar-11 | 31 | 3,422 | 543.8 | 0 | 732 | 116.3 | 0 | 0 | 18 | 0 | 4 | 0 | 17,824 | 2834 | 0 | 414 | 0 | 4 | 0 | 17.6% | 17 | 0.00 | 0.0 | 12.8% | 2484.8 | 0.000 |
| Apr-11 | 30 | 2,892 | 459.6 | 0 | 580 | 92.2 | 0 | 0 | 15 | 0 | 3 | 0 | 20,715 | 3293 | 0 | 506 | 0 | 4 | 0 | 16.7% | 14 | 0.00 | 0.0 | 13.3% | 2913.0 | 0.000 |
| May-11 | 31 | 2,424 | 385.2 | 0 | 687 | 109.2 | 0 | 0 | 12 | 0 | 4 | 0 | 23,138 | 3679 | 0 | 616 | 0 | 4 | 0 | 22.1% | 13 | 0.00 | 0.0 | 14.3% | 3303.9 | 0.000 |
| Jun-11 | 30 | 2,525 | 401.3 | 0 | 563 | 89.5 | 0 | 0 | 13 | 0 | 3 | 0 | 25,662 | 4080 | 0 | 705 | 0 | 4 | 0 | 18.2% | 13 | 0.00 | 0.0 | 14.7% | 3686.8 | 0.000 |
| Jul-11 | 31 | 2,483 | 394.6 | 0 | 619 | 98.4 | 0 | 0 | 13 | 0 | 3 | 0 | 28,144 | 4474 | 0 | 804 | 0 | 4 | 0 | 20.0% | 12 | 0.00 | 0.0 | 15.2% | 4073.8 | 0.000 |
| Aug-11 | 31 | 5,024 | 798.4 | 0 | 1,201 | 190.9 | 0 | 0 | 26 | 0 | 6 | 0 | 33,166 | 5273 | 0 | 994 | 0 | 5 | 0 | 19.3% | 25 | 0.00 | 0.0 | 15.9% | 4848.5 | 0.000 |
| Sep-11 | 30 | 6,024 | 957.2 | 0 | 1,102 | 175.1 | 0 | 0 | 32 | 0 | 6 | 0 | 39,187 | 6230 | 0 | 1170 | 0 | 6 | 0 | 15.5% | 29 | 0.00 | 0.0 | 15.8% | 5723.2 | 0.000 |
| Oct-11 | 31 | 5,876 | 933.8 | 0 | 1,189 | 188.9 | 0 | 0 | 30 | 0 | 6 | 0 | 45,060 | 7164 | 0 | 1358 | 0 | 6 | 0 | 16.8% | 28 | 0.00 | 0.0 | 15.9% | 6594.7 | 0.000 |
| Nov-11 | 30 | 5,952 | 945.8 | 0 | 2,149 | 341.5 | 0 | 0 | 32 | 0 | 11 | 0 | 51,009 | 8110 | 0 | 1700 | 0 | 7 | 0 | 26.5% | 34 | 0.00 | 0.0 | 17.3% | 7628.3 | 0.000 |
| Dec-11 | 31 | 8,362 | 1,328.8 | 0 | 2,792 | 443.7 | 0 | 0 | 43 | 0 | 14 | 0 | 59,368 | 9438 | 0 | 2144 | 0 | 8 | 0 | 25.0% | 46 | 0.00 | 0.0 | 18.5% | 9044.3 | 0.000 |
| Jan-12 | 31 | 9,896 | 1,572.5 | 0 | 6,655 | 1,057.6 | 0 | 0 | 51 | 0 | 34 | 0 | 69,259 | 11011 | 0 | 3201 | 0 | 9 | 0 | 40.2% | 71 | 0.00 | 0.0 | 22.5% | 11255.2 | 0.000 |
| Feb-12 | 29 | 9,921 | 1,576.5 | 0 | 6,421 | 1,020.3 | 0 | 0 | 54 | 0 | 35 | 0 | 79,175 | 12587 | 0 | 4222 | 0 | 9 | 0 | 39.3% | 75 | 0.00 | 0.0 | 25.1% | 13431.5 | 0.000 |
| Mar-12 | 31 | 10,674 | 1,696.2 | 0 | 7,936 | 1,261.1 | 0 | 0 | 55 | 0 | 41 | 0 | 89,844 | 14284 | 0 | 5483 | 0 | 10 | 0 | 42.6% | 81 | 0.00 | 0.0 | 27.7% | 15937.2 | 0.000 |
| Apr-12 | 30 | 8,779 | 1,395.0 | 0 | 8,789 | 1,396.6 | 0 | 0 | 47 | 0 | 47 | 0 | 98,618 | 15679 | 0 | 6879 | 0 | 10 | 0 | 50.0% | 81 | 0.00 | 0.0 | 30.5% | 18359.2 | 0.000 |
| May-12 | 31 | 7,833 | 1,244.8 | 0 | 9,211 | 1,463.7 | 0 | 0 | 40 | 0 | 47 | 0 | 106,448 | 16923 | 0 | 8343 | 0 | 10 | 0 | 54.0% | 77 | 0.00 | 0.0 | 33.0% | 20739.0 | 0.000 |
| Jun-12 | 30 | 5,747 | 913.2 | 0 | 9,460 | 1,503.3 | 0 | 0 | 30 | 0 | 50 | 0 | 112,192 | 17837 | 0 | 9846 | 0 | 10 | 0 | 62.2% | 73 | 0.00 | 0.0 | 35.6% | 22916.6 | 0.000 |
| Jul-12 | 31 | 6,950 | 1,104.5 | 0 | 4,988 | 792.7 | 0 | 0 | 36 | 0 | 26 | 0 | 119,140 | 18941 | 0 | 10639 | 0 | 10 | 0 | 41.8% | 52 | 0.00 | 0.0 | 36.0% | 24519.6 | 0.000 |
| Aug-12 | 31 | 6,107 | 970.4 | 0 | 5,525 | 878.0 | 0 | 0 | 31 | 0 | 28 | 0 | 125,243 | 19912 | 0 | 11517 | 0 | 10 | 0 | 47.5% | 51 | 0.00 | 0.0 | 36.6% | 26110.4 | 0.000 |
| Sep-12 | 30 | 6,476 | 1,029.1 | 0 | 5,584 | 887.3 | 0 | 0 | 34 | 0 | 30 | 0 | 131,716 | 20941 | 0 | 12404 | 0 | 10 | 0 | 46.3% | 55 | 0.00 | 0.0 | 37.2% | 27753.5 | 0.000 |
| Oct-12 | 31 | 5,622 | 893.4 | 0 | 4,208 | 668.7 | 0 | 0 | 29 | 0 | 22 | 0 | 137,336 | 21834 | 0 | 13073 | 0 | 10 | 0 | 42.8% | 43 | 0.00 | 0.0 | 37.5% | 29077.8 | 0.000 |
| Nov-12 | 30 | 7,688 | 1,221.7 | 0 | 8,148 | 1,294.8 | 0 | 0 | 41 | 0 | 43 | 0 | 145,020 | 23056 | 0 | 14368 | 0 | 11 | 0 | 51.5% | 73 | 0.00 | 0.0 | 38.4% | 31271.0 | 0.000 |
| Dec-12 | 31 | 8,359 | 1,328.3 | 0 | 9,767 | 1,552.0 | 0 | 0 | 43 | 0 | 50 | 0 | 153,375 | 24384 | 0 | 15920 | 0 | 11 | 0 | 53.9% | 82 | 0.00 | 0.0 | 39.5% | 33800.5 | 0.000 |
| Jan-13 | 31 | 10,999 | 1,747.8 | 0 | 9,060 | 1,439.7 | 0 | 0 | 56 | 0 | 46 | 0 | 164,369 | 26132 | 0 | 17359 | 0 | 11 | 0 | 45.2% | 88 | 0.00 | 0.0 | 39.9% | 36523.4 | 0.000 |
| Feb-13 | 28 | 9,098 | 1,445.8 | 0 | 6,230 | 990.0 | 0 | 0 | 52 | 0 | 35 | 0 | 173,463 | 27578 | 0 | 18349 | 0 | 11 | 0 | 40.6% | 73 | 0.00 | 0.0 | 40.0% | 38573.8 | 0.000 |
| Mar-13 | 31 | 7,689 | 1,221.8 | 0 | 6,623 | 1,052.5 | 0 | 0 | 39 | 0 | 34 | 0 | 181,148 | 28799 | 0 | 19402 | 0 | 11 | 0 | 46.3% | 63 | 0.00 | 0.0 | 40.3% | 40523.6 | 0.000 |
| Apr-13 | 30 | 7,069 | 1,123.4 | 0 | 6,875 | 1,092.5 | 0 | 0 | 37 | 0 | 36 | 0 | 188,214 | 29923 | 0 | 20494 | 0 | 12 | 0 | 49.3% | 64 | 0.00 | 0.0 | 40.6% | 42441.7 | 0.000 |
| May-13 | 31 | 6,776 | 1,076.8 | 0 | 6,420 | 1,020.2 | 0 | 0 | 35 | 0 | 33 | 0 | 194,987 | 31000 | 0 | 21515 | 0 | 13 | 0 | 48.7% | 58 | 0.00 | 0.0 | 41.0% | 44253.1 | 0.000 |
| Jun-13 | 30 | 7,200 | 1,144.1 | 0 | 5,370 | 853.4 | 0 | 0 | 38 | 0 | 28 | 0 | 202,184 | 32144 | 0 | 22368 | 0 | 13 | 0 | 42.7% | 56 | 0.00 | 0.0 | 41.0% | 45946.0 | 0.000 |
| Jul-13 | 31 | 6,176 | 981.5 | 0 | 5,168 | 821.3 | 0 | 0 | 32 | 0 | 26 | 0 | 208,358 | 33125 | 0 | 23189 | 0 | 13 | 0 | 45.6% | 50 | 0.00 | 0.0 | 41.2% | 47488.0 | 0.000 |
| Aug-13 | 31 | 5,351 | 850.3 | 0 | 6,477 | 1,029.2 | 0 | 0 | 27 | 0 | 33 | 0 | 213,706 | 33976 | 0 | 24219 | 0 | 13 | 0 | 54.8% | 53 | 0.00 | 0.0 | 41.6% | 49143.1 | 0.000 |
| Sep-13 | 30 | 4,236 | 673.2 | 0 | 3,552 | 564.4 | 0 | 0 | 22 | 0 | 19 | 0 | 217,940 | 34649 | 0 | 24783 | 0 | 13 | 0 | 45.6% | 35 | 0.00 | 0.0 | 41.7% | 50201.8 | 0.000 |
| Oct-13 | 31 | 3,314 | 526.7 | 0 | 6,691 | 1,063.2 | 0 | 0 | 17 | 0 | 34 | 0 | 221,253 | 35175 | 0 | 25846 | 0 | 12 | 0 | 66.9% | 47 | 0.00 | 0.0 | 42.4% | 51654.9 | 0.000 |
| Nov-13 | 30 | 5,013 | 796.6 | 0 | 5,694 | 904.9 | 0 | 0 | 27 | 0 | 30 | 0 | 226,264 | 35972 | 0 | 26751 | 0 | 12 | 0 | 53.2% | 50 | 0.00 | 0.0 | 42.6% | 53145.9 | 0.000 |
| Dec-13 | 31 | 3,525 | 560.2 | 0 | 8,000 | 1,271.3 | 0 | 0 | 18 | 0 | 41 | 0 | 229,788 | 36532 | 0 | 28022 | 0 | 11 | 0 | 69.4% | 54 | 0.00 | 0.0 | 43.4% | 54832.7 | 0.000 |
| Jan-14 | 31 | 3,495 | 555.4 | 0 | 3,602 | 572.4 | 0 | 0 | 18 | 0 | 18 | 0 | 233,281 | 37088 | 0 | 28595 | 0 | 11 | 0 | 50.8% | 32 | 0.00 | 0.0 | 43.5% | 55813.4 | 0.000 |
| Feb-14 | 28 | 4,713 | 749.0 | 0 | 5,497 | 873.6 | 0 | 0 | 27 | 0 | 31 | 0 | 237,992 | 37837 | 0 | 29468 | 0 | 12 | 0 | 53.8% | 51 | 0.00 | 0.0 | 43.8% | 57238.2 | 0.000 |
| Mar-14 | 31 | 5,000 | 794.5 | 0 | 4,739 | 753.1 | 0 | 0 | 26 | 0 | 24 | 0 | 242,990 | 38631 | 0 | 30221 | 0 | 12 | 0 | 48.7% | 43 | 0.00 | 0.0 | 43.9% | 58575.1 | 0.000 |
| Apr-14 | 30 | 5,887 | 935.5 | 0 | 4,408 | 700.5 | 0 | 0 | 31 | 0 | 23 | 0 | 248,874 | 39567 | 0 | 30922 | 0 | 13 | 0 | 42.8% | 46 | 0.00 | 0.0 | 43.9% | 59962.1 | 0.000 |
| May-14 | 31 | 5,613 | 892.0 | 0 | 3,514 | 558.4 | 0 | 0 | 29 | 0 | 18 | 0 | 254,485 | 40459 | 0 | 31480 | 0 | 11 | 0 | 38.5% | 39 | 0.00 | 0.0 | 43.8% | 61174.4 | 0.000 |
| Jun-14 | 30 | 4,243 | 674.3 | 0 | 3,430 | 545.0 | 0 | 0 | 22 | 0 | 18 | 0 | 258,726 | 41133 | 0 | 32025 | 0 | 13 | 0 | 44.7% | 35 | 0.00 | 0.0 | 43.8% | 62214.4 | 0.000 |
| Jul-14 | 31 | 5,211 | 828.0 | 0 | 4,168 | 662.4 | 107 | 0 | 27 | 0 | 21 | 0 | 263,934 | 41961 | 0 | 32688 | 0 | 13 | 0 | 44.4% | 41 | 0.00 | 0.0 | 43.8% | 63484.6 | 0.000 |
| Aug-14 | 31 | 5,065 | 804.8 | 0 | 5,404 | 858.8 | 3,167 | 1,079 | 26 | 0 | 28 | 35 | 268,996 | 42766 | 0 | 33547 | 1079 | 11 | 0 | 51.6% | 47 | 0.75 | 0.0 | 44.0% | 64935.3 | 0.017 |
| Sep-14 | 30 | 4,813 | 764.8 | 0 | 4,947 | 786.1 | 5,570 | 1,532 | 25 | 0 | 26 | 51 | 273,807 | 43531 | 0 | 34333 | 2611 | 11 | 0 | 50.7% | 45 | 1.14 | 0.0 | 44.1% | 66283.7 | 0.040 |
| Oct-14 | 31 | 6,227 | 989.6 | 0 | 4,951 | 786.8 | 7,135 | 883 | 32 | 0 | 25 | 28 | 280,031 | 44520 | 0 | 35119 | 3494 | 11 | 0 | 44.3% | 49 | 0.59 | 0.0 | 44.1% | 67796.9 | 0.052 |
| Nov-14 | 30 | 5,017 | 797.3 | 0 | 4,190 | 665.8 | 11,081 | 1,830 | 27 | 0 | 22 | 61 | 285,046 | 45317 | 0 | 35785 | 5324 | 11 | 0 | 45.5% | 42 | 1.47 | 0.0 | 44.1% | 69048.1 | 0.077 |
| Dec-14 | 31 | 5,835 | 927.3 | 0 | 4,379 | 695.9 | 9,113 | 1,435 | 30 | 0 | 22 | 46 | 290,879 | 46245 | 0 | 36481 | 6759 | 10 | 0 | 42.9% | 44 | 1.05 | 0.0 | 44.1 | | |

| East Manson Unit No. 3 (Section 20 and 21) - VRR Table | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|-------------------|------------------|--------------------|-------------------|------------------|------------------|-------------------|----------|----------|----------|---------|---------|---------|---------|---------|-------------|-----------|---------|--------|---------|---------|---------|--------|----------|---------|--|
| | | Monthly | Monthly | Monthly | Monthly | Monthly | Monthly | Monthly | 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 | |
| Month | Days | Oil Prod (bbl) | Oil Prod (m3) | Gas Prod (E3m3) | H2O Prod (bbl) | H2O Prod (m3) | H2O Inj (bbl) | H2O Inj (m3/d) | (m3/d) | (E3m3/d) | (m3/d) | (m3/d) | (bbl) | (m3) | (E3m3) | (m3) | (m3) | Count | (m3/m3) | % | (rm3/d) | VRR | (m3/m3) | % | (rm3) | | |
| Nov-15 | 30 | 6,773 | 1,076.3 | 0 | 3,656 | 580.9 | 4,708 | 749 | 36 | 0 | 19 | 25 | 367,548 | 58434 | 0 | 42941 | 18069 | 10 | 0 | 35.1% | 46 | 0.55 | 0.0 | 42.4% | 85815.3 | 0.212 | |
| Dec-15 | 31 | 7,290 | 1,158.9 | 0 | 4,659 | 740.6 | 4,854 | 772 | 37 | 0 | 24 | 25 | 374,838 | 59593 | 0 | 43682 | 18840 | 10 | 0 | 39.0% | 51 | 0.49 | 0.0 | 42.3% | 87405.7 | 0.217 | |
| Jan-16 | 31 | 6,948 | 1,104.6 | 0 | 4,024 | 639.8 | 4,564 | 725.531 | 36 | 0 | 21 | 23 | 381,786 | 60697 | 0 | 44322 | 19566 | 10 | 0 | 36.7% | 47 | 0.50 | 0.0 | 42.2% | 88855.1 | 0.221 | |
| Feb-16 | 29 | 5,171 | 822.1 | 0 | 3,392 | 539.2 | 5,847 | 929.62321 | 28 | 0 | 19 | 32 | 386,956 | 61519 | 0 | 44861 | 20496 | 10 | 0 | 39.6% | 39 | 0.82 | 0.0 | 42.2% | 89997.2 | 0.229 | |
| Mar-16 | 31 | 6,526 | 1,037.6 | 0 | 4,276 | 679.8 | 6,699 | 1065.0859 | 33 | 0 | 22 | 34 | 393,483 | 62557 | 0 | 45541 | 21561 | 10 | 0 | 39.6% | 46 | 0.74 | 0.0 | 42.1% | 91437.8 | 0.237 | |
| Apr-16 | 30 | 5,930 | 942.8 | 0 | 3,768 | 599.1 | 6,385 | 1015.1638 | 31 | 0 | 20 | 34 | 399,413 | 63500 | 0 | 46140 | 22576 | 10 | 0 | 38.9% | 43 | 0.79 | 0.0 | 42.1% | 92728.2 | 0.245 | |
| May-16 | 31 | 5,195 | 826.0 | 0 | 4,034 | 641.3 | 10,687 | 1699.0747 | 27 | 0 | 21 | 55 | 404,609 | 64326 | 0 | 46781 | 24275 | 10 | 0 | 43.7% | 40 | 1.37 | 0.0 | 42.1% | 93975.7 | 0.260 | |
| Jun-16 | 30 | 5,418 | 861.4 | 0 | 3,959 | 629.4 | 9,846 | 1565.4134 | 29 | 0 | 21 | 52 | 410,027 | 65187 | 0 | 47411 | 25840 | 10 | 0 | 42.2% | 42 | 1.25 | 0.0 | 42.1% | 95237.1 | 0.273 | |
| Jul-16 | 31 | 5,643 | 897.2 | 0 | 4,034 | 641.4 | 9,559 | 1519.6932 | 29 | 0 | 21 | 49 | 415,670 | 66084 | 0 | 48052 | 27360 | 10 | 0 | 41.7% | 42 | 1.18 | 0.0 | 42.1% | 96536.7 | 0.285 | |
| Aug-16 | 31 | 5,117 | 813.6 | 0 | 4,227 | 672.0 | 8,437 | 1341.4118 | 26 | 0 | 22 | 43 | 420,788 | 66898 | 0 | 48724 | 28701 | 10 | 0 | 45.2% | 41 | 1.06 | 0.0 | 42.1% | 97806.0 | 0.295 | |
| Sep-16 | 30 | 4,742 | 753.9 | 0 | 3,702 | 588.6 | 8,006 | 1272.8808 | 25 | 0 | 20 | 42 | 425,530 | 67652 | 0 | 49313 | 29974 | 10 | 0 | 43.8% | 38 | 1.12 | 0.0 | 42.2% | 98947.9 | 0.304 | |
| Oct-16 | 31 | 5,005 | 795.7 | 0 | 4,068 | 646.7 | 7,592 | 1207.0509 | 26 | 0 | 21 | 39 | 430,535 | 68447 | 0 | 49959 | 31181 | 10 | 0 | 44.8% | 40 | 0.99 | 0.0 | 42.2% | 100178.7 | 0.313 | |
| Nov-16 | 30 | 4,911 | 780.8 | 0 | 4,421 | 702.8 | 7,529 | 1197.0461 | 26 | 0 | 23 | 40 | 435,446 | 69228 | 0 | 50662 | 32378 | 10 | 0 | 47.4% | 43 | 0.94 | 0.0 | 42.3% | 101455.1 | 0.321 | |
| Dec-16 | 31 | 4,871 | 774.5 | 0 | 4,414 | 701.8 | 8,054 | 1280.3847 | 25 | 0 | 23 | 41 | 440,317 | 70003 | 0 | 51364 | 33659 | 10 | 0 | 47.5% | 41 | 1.01 | 0.0 | 42.3% | 102725.8 | 0.329 | |
| Jan-17 | 31 | 4,586 | 729.0 | 0 | 4,190 | 666.2 | 8,205 | 1304.4944 | 24 | 0 | 21 | 42 | 444,902 | 70732 | 0 | 52030 | 34963 | 10 | 0 | 47.7% | 39 | 1.09 | 0.0 | 42.4% | 103927.6 | 0.338 | |
| Feb-17 | 28 | 4,265 | 678.1 | 0 | 3,872 | 615.6 | 7,158 | 1137.9189 | 24 | 0 | 22 | 41 | 449,168 | 71410 | 0 | 52646 | 36101 | 10 | 0 | 47.6% | 40 | 1.03 | 0.0 | 42.4% | 105041.3 | 0.345 | |
| Mar-17 | 31 | 4,720 | 750.3 | 0 | 4,071 | 647.2 | 7,757 | 1233.2623 | 24 | 0 | 21 | 40 | 453,887 | 72160 | 0 | 53293 | 37334 | 10 | 0 | 46.3% | 39 | 1.03 | 0.0 | 42.5% | 106239.5 | 0.353 | |
| Apr-17 | 30 | 4,654 | 739.9 | 0 | 4,111 | 653.6 | 7,317 | 1163.3307 | 25 | 0 | 22 | 39 | 458,542 | 72900 | 0 | 53947 | 38498 | 10 | 0 | 46.9% | 40 | 0.98 | 0.0 | 42.5% | 107436.6 | 0.360 | |
| May-17 | 31 | 4,941 | 785.6 | 0 | 4,560 | 725.0 | 7,556 | 1201.248 | 25 | 0 | 23 | 39 | 463,483 | 73686 | 0 | 54672 | 39699 | 10 | 0 | 48.0% | 42 | 0.93 | 0.0 | 42.6% | 108738.8 | 0.367 | |
| Jun-17 | 30 | 4,703 | 747.7 | 0 | 3,858 | 613.4 | 7,253 | 1153.0254 | 25 | 0 | 20 | 38 | 468,186 | 74433 | 0 | 55285 | 40852 | 10 | 0 | 45.1% | 39 | 1.00 | 0.0 | 42.6% | 109901.1 | 0.374 | |
| Jul-17 | 31 | 4,737 | 753.0 | 0 | 3,611 | 574.2 | 7,157 | 1137.8188 | 24 | 0 | 19 | 37 | 472,923 | 75186 | 0 | 55859 | 41990 | 10 | 0 | 43.3% | 36 | 1.01 | 0.0 | 42.6% | 111027.9 | 0.380 | |
| Aug-17 | 31 | 4,865 | 773.5 | 0 | 4,078 | 648.3 | 7,317 | 1163.3307 | 25 | 0 | 21 | 38 | 477,788 | 75960 | 0 | 56507 | 43153 | 10 | 0 | 45.6% | 39 | 0.96 | 0.0 | 42.7% | 112244.1 | 0.386 | |
| Sep-17 | 30 | 4,518 | 718.3 | 0 | 3,669 | 583.4 | 6,824 | 1084.8951 | 24 | 0 | 19 | 36 | 482,306 | 76678 | 0 | 57091 | 44238 | 10 | 0 | 44.8% | 37 | 0.98 | 0.0 | 42.7% | 113354.8 | 0.392 | |
| Oct-17 | 31 | 4,340 | 689.9 | 0 | 3,621 | 575.7 | 7,088 | 1126.814 | 22 | 0 | 19 | 36 | 486,646 | 77368 | 0 | 57666 | 45365 | 10 | 0 | 45.5% | 35 | 1.05 | 0.0 | 42.7% | 114437.0 | 0.398 | |
| Nov-17 | 30 | 4,674 | 743.0 | 0 | 3,202 | 509.1 | 6,704 | 1065.7854 | 25 | 0 | 17 | 36 | 491,319 | 78111 | 0 | 58176 | 46431 | 10 | 0 | 40.7% | 35 | 1.02 | 0.0 | 42.7% | 115491.1 | 0.404 | |
| Dec-17 | 31 | 4,670 | 742.4 | 0 | 3,817 | 606.9 | 6,380 | 1014.3625 | 24 | 0 | 20 | 33 | 495,989 | 78854 | 0 | 58782 | 47445 | 10 | 0 | 45.0% | 37 | 0.89 | 0.0 | 42.7% | 116643.0 | 0.409 | |
| Jan-18 | 31 | 4,827 | 767.4 | 0 | 3,943 | 626.9 | 6,237 | 991.65183 | 25 | 0 | 20 | 32 | 500,816 | 79621 | 0 | 59409 | 48437 | 9 | 0 | 45.0% | 38 | 0.84 | 0.0 | 42.7% | 117833.3 | 0.413 | |
| Feb-18 | 28 | 4,100 | 651.8 | 0 | 3,766 | 598.8 | 5,634 | 895.70906 | 23 | 0 | 21 | 32 | 504,916 | 80273 | 0 | 60008 | 49332 | 9 | 0 | 47.9% | 38 | 0.84 | 0.0 | 42.8% | 118911.0 | 0.417 | |
| Mar-18 | 31 | 4,417 | 702.2 | 0 | 3,769 | 599.2 | 6,655 | 1057.9825 | 23 | 0 | 19 | 34 | 509,333 | 80975 | 0 | 60607 | 50390 | 9 | 0 | 46.0% | 36 | 0.95 | 0.0 | 42.8% | 120025.8 | 0.422 | |
| Apr-18 | 30 | 4,127 | 656.1 | 0 | 3,102 | 493.2 | 6,693 | 1064.0859 | 22 | 0 | 16 | 35 | 513,460 | 81631 | 0 | 61100 | 51455 | 9 | 0 | 42.9% | 32 | 1.10 | 0.0 | 42.8% | 121000.5 | 0.427 | |
| May-18 | 31 | 4,105 | 652.7 | 0 | 3,585 | 570.0 | 6,770 | 1076.2909 | 21 | 0 | 18 | 35 | 517,566 | 82284 | 0 | 61670 | 52531 | 9 | 0 | 46.6% | 34 | 1.03 | 0.0 | 42.8% | 122049.8 | 0.433 | |
| Jun-18 | 30 | 3,865 | 614.5 | 0 | 3,233 | 514.0 | 3,710 | 589.76948 | 20 | 0 | 17 | 20 | 521,431 | 82898 | 0 | 62184 | 53121 | 9 | 0 | 45.5% | 32 | 0.61 | 0.0 | 42.9% | 123015.0 | 0.434 | |
| Jul-18 | 31 | 4,259 | 677.1 | 0 | 3,065 | 487.3 | 4,021 | 639.29094 | 22 | 0 | 16 | 21 | 525,690 | 83575 | 0 | 62672 | 53760 | 9 | 0 | 41.9% | 32 | 0.65 | 0.0 | 42.9% | 123999.1 | 0.436 | |
| Aug-18 | 31 | 4,163 | 661.8 | 0 | 3,621 | 575.7 | 3,645 | 579.46423 | 21 | 0 | 19 | 19 | 529,852 | 84237 | 0 | 63247 | 54339 | 9 | 0 | 46.5% | 34 | 0.55 | 0.0 | 42.9% | 125060.8 | 0.437 | |
| Sep-18 | 30 | 3,382 | 537.7 | 0 | 3,028 | 481.3 | 3,342 | 531.24165 | 18 | 0 | 16 | 18 | 533,235 | 84775 | 0 | 63729 | 54871 | 9 | 0 | 47.2% | 29 | 0.61 | 0.0 | 42.9% | 125937.1 | 0.438 | |
| Oct-18 | 31 | 3,322 | 528.1 | 0 | 3,306 | 525.5 | 3,194 | 507.83148 | 17 | 0 | 17 | 16 | 536,557 | 85303 | 0 | 64254 | 55378 | 9 | 0 | 49.9% | 29 | 0.56 | 0.0 | 43.0% | 126850.8 | 0.439 | |
| Nov-18 | 30 | 3,355 | 533.3 | 0 | 3,108 | 494.1 | 1,717 | 272.92369 | 18 | 0 | 16 | 9 | 539,912 | 85836 | 0 | 64748 | 55651 | 9 | 0 | 48.1% | 30 | 0.31 | 0.0 | 43.0% | 127736.8 | 0.438 | |
| Dec-18 | 31 | 3,654 | 580.9 | 0 | 3,343 | 531.5 | 3,285 | 522.25755 | 19 | 0 | 17 | 17 | 543,566 | 86417 | 0 | 65280 | 56174 | 9 | 0 | 47.8% | 31 | 0.55 | 0.0 | 43.0% | 128695.0 | 0.439 | |

East Manson Unit No. 3 - Rate Time



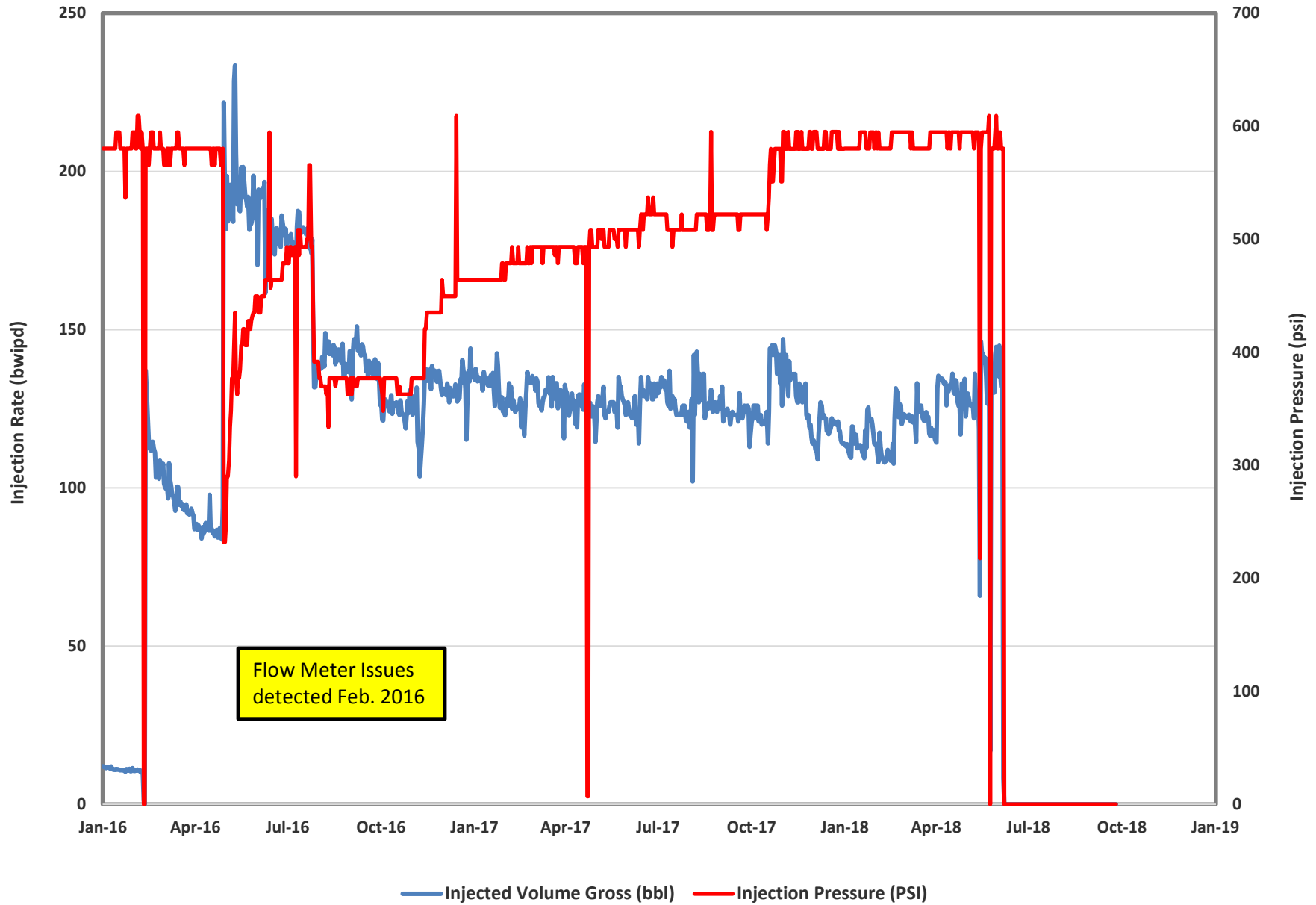
East Manson Unit No. 3 - Rate Cum



East Manson Unit No. 3 - Injection Parameters

| Month | Oil Rate (m3/d) | Gas Rate (e3m3/d) | Water Rate (m3/d) | Water Inj Rate (m3/d) | 00/15-20 Water Inj Press (psi) | 00/08-21 Water Inj Press (psi) | Cum Oil (m3) | Cum Gas (e3m3) | Cum Water (m3) | Cum Inj Water (m3) | GOR (m3/m3) | WOR (m3/m3) |
|--------|--------------------|----------------------|----------------------|--------------------------|-----------------------------------|-----------------------------------|--------------|-------------------|-------------------|-----------------------|----------------|----------------|
| Jan-18 | 24.8 | 0.0 | 20.2 | 32.0 | 585 | 593 | 79,621 | 0.0 | 59,409 | 48,437 | 0 | 0.82 |
| Feb-18 | 23.3 | 0.0 | 21.4 | 32.0 | 588 | 599 | 80,273 | 0.0 | 60,008 | 49,332 | 0 | 0.92 |
| Mar-18 | 22.7 | 0.0 | 19.3 | 34.1 | 586 | 597 | 80,975 | 0.0 | 60,607 | 50,390 | 0 | 0.85 |
| Apr-18 | 21.9 | 0.0 | 16.4 | 35.5 | 593 | 601 | 81,631 | 0.0 | 61,100 | 51,455 | 0 | 0.75 |
| May-18 | 21.1 | 0.0 | 18.4 | 34.7 | 561 | 589 | 82,284 | 0.0 | 61,670 | 52,531 | 0 | 0.87 |
| Jun-18 | 20.5 | 0.0 | 17.1 | 19.7 | 585 | 606 | 82,898 | 0.0 | 62,184 | 53,121 | 0 | 0.84 |
| Jul-18 | 21.8 | 0.0 | 15.7 | 20.6 | | 777 | 83,575 | 0.0 | 62,672 | 53,760 | 0 | 0.72 |
| Aug-18 | 21.3 | 0.0 | 18.6 | 18.7 | | 805 | 84,237 | 0.0 | 63,247 | 54,339 | 0 | 0.87 |
| Sep-18 | 17.9 | 0.0 | 16.0 | 17.7 | | 813 | 84,775 | 0.0 | 63,729 | 54,871 | 0 | 0.90 |
| Oct-18 | 17.0 | 0.0 | 17.0 | 16.4 | | 807 | 85,303 | 0.0 | 64,254 | 55,378 | 0 | 1.00 |
| Nov-18 | 17.8 | 0.0 | 16.5 | 9.1 | | 519 | 85,836 | 0.0 | 64,748 | 55,651 | 0 | 0.93 |
| Dec-18 | 18.7 | 0.0 | 17.1 | 16.8 | | 661 | 86,417 | 0.0 | 65,280 | 56,174 | 0 | 0.91 |

00/15-20-013-28W1 Rate vs Pressure



00/08-21-013-28W1 Injection Rate vs Pressure

