



1/5/17 PT csg from 250# to 13,350# (5 & 10 min test(test good)

2/6/17 Stage 1 perf f/18,729'-18779', pump 2500 gals 15% HCL acid, frac w/66,320# 100 mesh sand.  
Stage 2 perf f/18,710'-18,549', pump 2500 gals 15% HCL acid, frac w/555,220# 100 mesh sand.

2/7/17 Stage 3 perf f/ 18,509'-18,329', pump 2500 gals 15% HCL acid, 551,260# 100 mesh sand.

2/8/17 Stage 4 perf f/18,309'-18,129', pump 2527 gals 15% HCL acid, frac w/558,620# 100 mesh sand.  
Stage 5 perf f/18,110'-17,929', pump 2527 gals 15% HCL acid, frac w/534,840# 100 mesh sand.

2/9/17 Stage 6 perf f/17,910'-17,729', pump 2500 gals 15% HCL acid, frac w/552,100# 100 mesh sand.

2/10/17 Stage 7 perf f/17,710'-17,529', pump 2621 gals 15% HCL acid, frac w/553,920# 100 mesh sand.

2/11/17 Stage 8 perf f/17,710'-17,329', pump 2621 gals 15% HCL acid, frac w/553,700# 100 mesh sand.  
Stage 9 perf f/17,129'-17,310', pump 2634 gals 15% HCL acid, frac w/551,880# 100 mesh sand.

2/12/17 Stage 10 perf f/17,110'-16,929', pump 2527 gals 15% HCL acid, frac w/550,740# 100 mesh sand.  
Stage 11 perf f/16,910'-16,729', pump 2547 gals 15% HCL acid, frac w/550,980# 100 mesh sand.

2/13/17 Stage 12 perf f/16,710'-16,529', pump 1486 gals 15% HCL acid, frac w/552,760# 100 mesh sand.

2/14/17 Stage 13 perf f/16,510'-16,329', pump 1486 gals 15% HCL acid, frac w/552,760# 100 mesh sand.

2/15/17 Stage 14 perf f/16,310'-16,129', pump 1591 gals 15% HCL acid, frac w/553,520# 100 mesh sand.

2/16/17 Stage 15 perf f/16,110'-15,929', pump 1498 gals 15% HCL acid, frac w/555,730# 100 mesh sand.  
Stage 16 perf f/15,910'-15,729', pump 1061 gals 15% HCL acid, frac w/558,120# 100 mesh sand.

2/17/17 Stage 17 perf f/15,710'-15,529', pump 1273 gals 15% HCL acid, frac w/551,940# 100 mesh sand.  
Stage 18 perf f/15,510'-15,329', pump 1061 gals 15% HCL acid, frac w/549,200# 100 mesh sand.

2/18/17 Stage 19 perf f/15,310'-15,129', pump 1061 gals 15% HCL acid, frac w/541,340# 100 mesh sand.  
Stage 20 perf f/15,110'-14,929', pump 1061 gals 15% HCL acid, frac w/550,700# 100 mesh sand.

2/19/07 Stage 21 perf f/14,910'-14,729', pump 1029 gals 15% HCL acid, frac w/547,960# 100 mesh sand.  
Stage 22 perf f/14,710'-14,529, pump 936 gals 15% HCL acid, frac w/548,920# 100 mesh sand.

2/19/17 Stage 23 perf f/14,510'-14,329', pump 936 gals 15% HCL acid, frac w/549,620# 100 mesh sand.  
Stage 24 perf f/14,310'-14,129', pump 1036 gals 15% HCL acid, frac w/547,260# 100 mesh sand.

2/20/17 Stage 25 perf f/14,110'-13,929', pump 1061 gals 15% HCL acid, frac w/547,720# 100 mesh sand.  
Stage 26 perf f/14,909'-13,729', pump 1036 gals 15% HCL acid, frac w/548,380# 100 mesh sand.

2/21/17 Stage 27 perf f/13,710'-13,529', pump 1036 gals 15% HCL acid, frac w/546,320# 100 mesh sand.

Stage 28 perf f/13,510'-13,329', pump 1062 gals 15% HCL acid, frac w/546,340# 100 mesh sand.

2/22/17 Stage 29 perf f/13,310'-13,129', pump 2122 gals 15% HCL acid, frac w/547,080# 100 mesh sand.

2/24/17 Stage 30 perf f/13,110'-12,929', pump 1062 gals 15% HCL acid, frac w/547,140# 100 mesh sand.

Stage 31 perf f/12,910'-12,729', pump 1000 gals 15% HCL acid, frac w/542,360# 100 mesh sand.

Stage 32 perf f/12,709'-12,529', pump 749 gals 15% HCL acid, frac w/547,060# 100 mesh sand.

2/25/17 Stage 33 perf f/12,510'-12,329', pump 749 gals 15% HCL acid, frac w/546,640# 100 mesh sand.

Stage 34 perf f/12,310'-12,129', pump 936 gals 15% HCL acid, frac w/526,280# 100 mesh sand.

4/15/17 DO plugs and circulated hole clean. ND BOP NU WH. RDMO.

4/20/17 Turn over to production.