

**Freedom 36 State SWD #1**  
**30-015-44489**  
**Cimarex Energy Inc.**  
**Sec 36 24S 26E – Eddy County NM**

04-28-18	Spud well.
04-29-18 to 5-1-18	TD 26" hole @ 461'. RIH w/ 20", 94# J-55, BTC Casing & set @ 461'. Mix and Pump 1320 sks HalCem C Cement, 14.8ppg 1.33 yield. Cement to Surface. Circ 589 sacks cement. W/O cement 4 hours. Test Casing to 1500 psi for 30 min. Good Test.
05-05-18 to 5-6-18	TD 17.5" hole @ 2103'. RIH with 13 3/8", 61# J-55 Seal Lock SF Casing & Set at 2103'. LEAD: Mix and Pump 1220 sks HalCem C cement, 1.74 yield 13.7ppg. TAIL: 725 sks HalCem C, 14.8 ppg, 1.392 yield. Cement to Surface. Circ 526 Sacks cement. W/O Cement 4 hours. Test Casing to 1500 psi for 30 min. good Test.
05-14-18	TD 12-1/4" hole @ 11023'. Run Electric Logs.
05-16-18 to 5-18-18	RIH with 9 5/8" 53.5# L80 HC TMK QX Casing & Set at 11023'. DV Tool at 1920' Cement 1 <sup>st</sup> stage with LEAD: 1310 sks NeoCem Mixed Cement, 2.95 yield, 11 ppg. TAIL: 710 sks Versa Cem H Mixed, 14.5 ppg, 1.29 Yield. Circ 228 sacks cement to surface. WOC 6 hours. Cement 2 <sup>nd</sup> stage with 425 sks ExtendaCem C 1.73 yield, 13.7ppg. Cement to Surface. Circ 97 sacks.
5-23-18 to 5-28-18	TD 8 1/2" hole at 12635'. Confirmed Top of Devonian at 12623'. Run Electric Logs. RIH with 7" Production liner and set at 12635'. Liner top @ 10080' Cement Liner with 365 sks Versa Cem H Cement 1.25 yield. Run CBL. Top of cement at 10130 Per CBL. Pressure test liner to 1525 psi for 30 min. Good test.
5-29-18 to 5-31-18	RIH with 7" tie-back casing 29# L80 TMK UP ULTrs SF Casing Set at 10080'. DV Tool at 10076'. Mix and Pump 1150 sks 50:50 POZ H cement, 14.5ppg, 1.27 yield. Circ 110 sacks cement to surface. Test Casing to 1500 psi for 30 min. Good Test.
6-6-18	TD well and 6" hole at 13575'. Run Electric Logs.
6-7-18	RIH with 4 1/2" 15.1# CRS-125 Vam Top Injection string tubing. Set tbg and Packer at 12613'.
6-10-18	Rig Released. Open hole injection interval from 12635' to 13575'.