

Nora Derry #4 - Workover

10 3/4" casing @ 435' - 7" Casing @ 3303' - 5" casing @ 4317'
TD 4317 - PBTD 4315' - Grayburg Perfs. 4210-36'.

Lohman Well Service moved in & rigged up unit. Pull rods & pump. Install BOP. Pull 2 3/8" tubing. Ran RTTS pkr. to 4252'. Tested shoe w/1600#. Tested OK. Pull pkr. Ran Retv. BP set @ 4182'. Pkr. @ 4150'. Tested 5" casing w/2000#. Tested OK. Set pkr. @ 2082'. Tested casing w/2000#. Tested OK. Set pkr. @ 900'. Tested casing w/1500#. Tested OK. Pull RTTS pkr. HOWCO tested 5" casing w/2000# Tested OK. Ran RTTS pkr. w/ret. head on 2 3/8" tubing. Reset plug @ 4258'. Pkr. @ 4182'. Swab 9 BLO + 20 BSW in 5 hrs. 500' FIH. Swab 1 BNO + 29 BSW in 5 1/2 hrs. Last hour swab 4 BBLS 100% wtr. Circ. w/wtr. Pull RTTS BP. (Ran CI Retainer @ 4200'. HOWCO sq. perfs 4210-36) w/200 sx incor neat. Max. press. 5000#. Reverse 40 sx. Comp. 5:15 PM 1-22-65. Displace w/oil. Pull tubing. Perf. Grayburg 4097-4152' w/2 JSPF (16 holes) Ran 2 3/8" tubing to 4182'. Acidize perfs. w/500 Gals. 15% NE acid. Breakdown 3200# to 3000#. Rate 2.5 BPM. ISIP 2800#, 5 min. 1300#. Pull 2 3/8" tubing. Sand-oil frac. down 5" casing w/40,000 gals. El Paso refined oil + 1/40#/gel addomite + 120,000# 20-40 sand + 12 ball sealers. Breakdown 4900#. Tr. press. 4500#. Rate 21 BPM. ISIP 3500#, 5 min. 3100#. Comp. 9:06 AM 1-24-65. SI 21 hours. Casing pressure - vacuum. Clean out frac. sand 4180-4200'. Ran 2 3/8" tubing to 4198'. Tubing perfs. 4178-81'. SN @ 4177'. Remove BOP, install wellhead. Ran rods & Pump to 4177'. Pump 20 BF, no wtr. in 24 hours. Raised tubing to 4100'. Pump & flowed 208 BLO, no wtr. in 15 hours. Flowed 923 BLO + 12 BAW + 1 BSW in 113 hours. On NMCC Potential (Test Flowed 157 BNO, no wtr. in 24 hours) on 14/64" Ch. TP 175#, Csg. 300#, GOR 538/1, Cty. 36.2 @ 60°. (Production before workover 4 EOPD + 12 BSWPD on pump)