

## University 30 #4 Completion

ECC: \$1,048,000

8/7: MIRU Wireline and RIH w/CBL CCL – tag hard high at 7015' KB – cannot go lower. Run CBL TOC ~2500'. Make decision to frac stage one after stages 2-5, RIH w/0.42" 2SPF 3 1/2" select fire guns and perforate stage 2 perfs from 6730'-7008'. Slight blow after perforating, all shots fired, bail 15g acetic acid w/WL and MIRU Cudd Frac Crew. SDFN. EDC: \$4500

8/8: Frac Stages 2-5 OK, see treating report for details, SWIFN 600 psi. EDC: \$139000

8/9: Open well on 10/64 choke 200 psi flowing +/- 10-15 BPH to pit flowing down to 0 psi in 30 mins, SI builds up to 80 psi, cont flowing well down. 11 am 10 psi flowing 10 BPH. MIRU Pulling Unit, Reverse Unit, catwalk, pipe racks, unload rack and tally 7200' 2 7/8" J55 tbg. MIRU NU crew. Pump 200 bbls brine to kill well, ND Frac valve and B-section and NU production well head and 3k BOP. SWIFN. EDC: \$8,000

8/10: PU 4 3/4" VT bit 6-3 1/2" DC and TIH to 6280' tag sand. Begin reversing & break circulation 2-3 BPM, only getting 1 BPM back while washing down, wash down 1 jt and switch to conventional drilling, wash down 1 more joint to hard tag on plug, circ clean for 1.5 hrs and POOH to 6000' and SWIFWE. Cudd cannot make 8/11 re-treat date, will begin drillout Monday 8/13. EDC: \$13,000

8/13: open well to slight blow, TIH to ~6315' and begin drilling first plug. 40' thru with slight gain +/- 5 BPH continue washing down to 6' of fill on second plug. Begin drilling second plug 11:12am. Thru plug 12:20 and chase to 6468' – taking 10 BPH kick while circ clean. Continue washing in hole tag sand fill 6505' and begin washing down. Wash down to 6695' and tag plug hard begin drilling plug 4:30pm. Thru plug 5:20pm, chase plug to 6900 sand fill, plug and sand taking +/- 4 pts – PU 2' and circ well clean 2 hrs. POOH to 6050' and SWFIN. EDC: \$9,500 ECC: \$1,222,000

8/14: crew OL 7am. Open well to slight pressure and bleed of 1-2 BO and W from tbg and backside, begin TIH to 6900' and resume washing down. Wash down to 7078' and begin drilling hard cmt. Drill hard cmt to ~7120 and Reverse Unit pump transmission break down (12:20pm), PU 8 stands and wait for new RU Pump, RU RU pump and resume drilling out (4pm). Drill hard cmt to PBTD ~7167 by tbg tally and PU 2' circ hole clean 2 hrs(5pm-7pm). Begin POOH and after string float removed pump 35 bbls produced water down tbg to kill tbg, continue OOH LD 6xDC BS 4 3/4" bit OK. MIRU Wireline, RIH and correlate with gamma-gun to OH log and perforate stage 1 interval 7042-7123' in 6' select fire 0.42" 2 JSPF. 12 holes total. Bail 10 gal acid above bottom perf and RDMO WL SWIFN (3am). EDC: \$16,500

8/15: Crew OL 12am, bleed 4 BO and some gas off well, PU 5 1/2" x 2 7/8" arrowset packer and begin RIH, after 16 stands pump 20 bbl 9.6ppg produced water down tbg to kill tbg, cont RIH to 7024' and try to set packer, packer will take weight but will not take tension, try to set packer for 1 hr and almost stuck, PU to 6100' and SDFN. EDC: \$4500

8/16: OL 7am, POOH w/packer and RIH to 7024' with compression packer, set packer 7024' w/20 pts compression, flange tbg to BOP and frac valve. BD formation @ 1 bpm 2700 > 2200 psi taking fluid. RD RU pump and pits, tbg racks, catwalk, clean location for acidizing 8/18. (removed sand and cut treating volume from first stage to mitigate risk of communicating stage 2 frac onto backside & packer) EDC: \$4500 ECC: \$1,247,500

8/18: MIRU CUDD and pump 6000 g 7 ½% gelled HCL and over flush to bottom perf +2 bbls. ATR 10 BPM ATP 3500 psi, backside monitored @ 280 psi during treatment, SIP 680 psi. SWIFWE EDC: \$15,000

8/20: OL 7am, bleed down backside from 340 psi down flowline, begin bleed down tbg from 340 psi and tbg begins gassing and heading, beginning 0-3% oil cut, pump 40 bbls produced water down tbg and release packer, pump 40 bbls produced water down backside to kill well and POOH with packer. Leave well open to battery overnight. EDC: \$6,200

8/21: MIRU Valiant ESP and put together 150 HP 342 stage ESP pump, install cable and capillary string and begin RIH w/3-straps/jt on cable, hang ESP w/192 jts EOT @ 5951' pump inlet @ 6075 bottom of motor @ 6120' KB. Install ESP csg flange and put together well head, test voltage and rotation and start ESP at 45 Hz (~450 BPD) w/2800 psi instake pressure, leave well pumping to battery. SDFN EDC: \$35,000

ECC: \$1,303,700