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St. James Energy Operating Inc.

Larson Farms 7-24 Frac Report

3-22-2012

Rig up Superior Well Service and run Cement Bond Logs. Good cement was 342' from surface. Anytime Testing pressure tested to 5700 psi. Held for 15 min. Good test.

Trip in and Perforate Codell 7183.5'- 7195.5', 12', 4 shots per ft, 48 shots total. Used 3 1/8" Slick Gun with 19 Gram Charges with a .41" Entry Hole, 21.28" of Penetration and 60 Degree Phasing. All shots fired.

3-34-2012

Baker Hughes rig up and frac Codell. Break was 3496 psi @ 2 bpm. Pump 130 bbls and ISDP was 2819 psi, 1 min = 2570 psi, 5 min = 2290.(529) psi leak off. Pump at 25 bbls per min @ 3800 psi.

After frac ISDP = 3471 psi, 1 min = 3268psi, 5 min = ISIP of 3158 psi.

Rig up Superior Well Service and trip in and set cast iron flow thru plug at 7110', 88' below bottom of Niobrara and 73 1/2' above top of Codell.

Pull up and Perforate Niobrara B Bench 7010'-7022', 12', 4 shots per ft, 48 total.

Pull up and Perforate Niobrara A Bench 6905'-6917', 12', 4 shots per ft, 48 total.

Both were "Salt and Pepper". Used a 3 1/8" Slick Gun. 2 shots were 20 Gram Big Hole Charges with a .73" Entry Hole and 6.05" of Penetration and 120 Degree Phasing. 2 shots were 21 Gram Hero Charges with a .35" Entry Hole and 38.09" of Penetration and 120 Degree Phasing for a total of 60 Degree Phasing. All shots fired.

Frac Niobrara. Opening pressure was 2636 psi. Break was 4246 psi @ 1.7 bpm. ISDP = 3053 psi. Swedge leaked and we had to shut down to fix it. Frac @ 55 bpm @ 4400 psi.

After frac ISDP = 3290 psi, 1 min = 3224 psi, 5 min ISIP = 3065 psi. Had to wait 2 hrs to get flow back turned on.

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