

Current Wellbore Schematic

Encana Oil & Gas (USA) Inc.



WELL : Rasmussen 4-4-28 DIRECTIONAL
LOCATION : SENW Sec. 28 – T2N – R68W
COUNTY : WELD STATE: CO
FIELD : WATTENBERG
ELEVATION : 4935' (GL) 4948' (KB) $\Delta 13'$

SPUD DATE: 03/10/2013
COMPL. DATE: 04/23/13
API #: 05123328970000

HOLE SIZE

WELL HISTORY:

Rasmussen 4-4-28 was drilled in Q1 of 2013 and completed in Q2 of 2013. Due to hole conditions, lower section of production string was cemented with drill rig, and upper section cemented with WOR. (upper cement was 260 sxs class G)

Planned completion was 100% slickwater fluid system with ~110,000 # of white ottawa sand in each stage. We will be pumping 20/40 sand in the J-sand, and 40/70 sand in the Codell and Niobrara stages.

Frac plugs drilled up with WOR. Bit was pumped off and left at PBTD. Tubing landed at 8088 feet MD, approximately 39 feet above the top J-sand perforation.

8-5/8" 24# J-55 Surface Csg. @ 834'
Cmt'd w/ 325 sxs Type III Cement Class G
FRESH WATER @14.5 PPG. 1.410 ft3/sx

TOC @ 3870' Actual

Tubing Detail
249 jts 2-3/8" 4.7# J-55 Tbg
Seat nipple @ 8078' MD
Re-entry guide/EOT @ 8088' MD

Niobrara Perfs: 7561'-7574' (4 SPF, 0.42" DP)
Niobrara Completion: Frac with 112,300# 40/70 sand in 3226 bbls of slickwater.

Codell Perfs: 7692'-7712' (3 SPF, 0.42" DP)
Codell Completion: Frac with 109,765# 40/70 sand in 3161 bbls of slickwater.

J-Sand Perfs: 8127'-8132', 8136'-8156' (3 SPF, 0.42" DP)
J-Sand Completion: Frac with 113,300# 20/40 sand in 3188 bbls of slickwater

TD: 8252' MD
TD: 8131' TVD
PBTD: 8218' MD

4-1/2" 11.6# I-80 LT&C Prod. Csg. @ 8241'
4.000" ID, 3.875" Drift
7780 psi Burst, 6224 psi (80%)
Cmt'd w/ 230 sxs of 50:50 Poz, Fly Ash (13.50 lb/gal. 1.71 ft3/sx.)