

N Parachute EF7B C27A

Casing Repair

Objective:

Pull tubing string and check for corrosion, scale, and holes. Identify and repair casing hole, re-land conventional

Wireline History

03/26/2013 WLTD @ 9,265'

Procedure:

- 1 Hold a pre-job safety meeting. Discuss all aspects of the procedure with any involved personnel. Identify and address any safety concerns before the job begins.
- 2 MIRU pulling unit. Kill well with produced water.
- 3 ND wellhead, NU BOP.
- 4 POOH with tubing. Scope out of hole, and visually inspect all tubing for corrosion, scale, and holes. Replace joints as needed.

Report results of inspection in Wellview Report. Especially note presence (or lack-of) SCALE on Nipples and bottom joints, and the amount and location of holes in the tubing. Contact engineer regarding amount of scale present, such that a decision can be made regarding acid work.

- 5 Pick up RBP, RIH and set above top perf
- 6 Pressure test casing
- 7 If failed pressure test, pick up packer and hunt for hole. If multiple holes suspected, run CASTM or Caliper log to determine extent of damage
- 8 RIH and cut 4 1/2" 11.6# casing at +/- 2,350', POOH and lay down corroded casing
- 9 RIH with casing patch and new casing. Land casing
- 10 RIH with completion as follows:
 - Land tubing @ 8,820' – Top of stage 4, approximately 65% into perfs
 - Seat nipple
 - Approximately 280 JTS 2-3/8" 4.7# L-80 tubing
- 11 Update Wellview WBD with current tubing configuration.
- 12 RIH with tubing broach to verify drift. Drop SV and pressure test tubing.
- 13 RU SL and retrieve SV.
- 14 ND BOP, NU wellhead.
- 15 RDMO Workover rig.

Safety

Safety meetings are to be held with all service company personnel prior to each job. Wellsite supervisor must notify contractors as to known hazards of which the contractors may be unaware. Well site supervisor must ensure that all workers are aware of their responsibilities and duties under the EH&S guidelines. All safety meetings will be recorded on the EnCana daily completion reports in Wellview.

Regulations

All verbal notifications and approval from government regulatory agencies will be recorded on the EnCana daily report. The name of the individual contacted and the subject matter of approval or notification will be recorded.

*****Please note Chemical Inventory on Wellview Report. Note amount of chemicals pumped downhole and amount stored on location each evening.***

Contact

Ashley Stratman, Production Engineer (720) 876-3481 or (720) 891-8153

Updated Procedure 7/24/2015

Retrievable bridge plug set at 2,172' and conduct pressure test – failed test

Plug and packer tests, multiple leaks isolated from 2,172' – 2,270'

Trip in hole with mechanical cutter, cut casing at 2,354'.

Tag and patch casing at 2,324'. Pressure test casing to 1,000 psi. Held for 5 minutes. Install B-section of casing. Pressure test to 5,000 psi, held.

Pressure test casing to 1,000 psi. Held good for 15 minutes.

Retrieve bridge plug and land tubing

What cement method was used to patch the casing holes?

Patch