Caldwell 14-25

Bradenhead Repair

June 29, 2015

Engineer:	Tyler Barela
Workover Coordinator:	Mark Balderston
Production Group Lead:	Andrew Berhost
DJ Team Lead:	Jessica Cavens

Attachments:

Attachment 1 – Wellbore Diagram
Attachment 2 – Proposed Wellbore Diagram

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.

Reason for Work

Bradenhead Repair

Additional COGCC COAs

COGCC Rule 317.j
Production casing cementing .The operator shall ensure that all cement required under this rule placed behind production casing shall be of adequate quality to achieve a minimum compressive strength of at least three hundred (300) psi after twenty-four (24) hours and of at least eight hundred (800) psi after seventy-two (72) hours both measured at eight hundred (800) psi at either ninety-five degrees Fahrenheit (95 °F) or at the minimum expected downhole temperature. After thorough circulation of a wellbore, cement shall be pumped behind the production casing (200) feet above the top of the shallowest uncovered known producing horizon. **All fresh water aquifers which are exposed below the surface casing shall be cemented behind the production casing. All such cementing around an aquifer shall consist of a continuous cement column extending from at least fifty (50) feet below the bottom of the fresh water aquifer which is being protected to at least fifty (50) feet above the top of said fresh water aquifer**. Cement placed behind the production casing shall be allowed to set seventy-two (72) hours, or until eight hundred (800) psi calculated compressive strength is developed, whichever occurs first, prior to the undertaking of any completion operation.

Objective:

Pull tubing and lay down. Set RBP, un-land casing and pump annular fill. Run CBL, pull plug and land tubing.

Procedure:

1. RU Slick line, run gauge ring, and pull plunger and bumper spring.
2. 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.
3. MIRU pulling unit. Kill well with produced water.
4. ND wellhead, NU BOP.
5. Un-land Tubing.
6. POOH with tubing.
7. RU E-line.
8. RIH and set RBP @ 7250' and pressure test plug to 500 psi. Dump 1 sx sand on top of plug.
9. Call Production Engineer at 719-859-4942 if any casing integrity issues arise.
10. Un-land 4-1/2" production casing.
11. Make necessary repairs to fix leak.
12. RIH down 4-1/2" by 8-5/8" annulus with 1-1/4" tubing to 1500'.
13. Establish circulation and pump 325 sx of class G neat cement, taking returns up annulus to surface.
14. **Ensure that all cementing work complies with COGCC rule 317j (listed on previous page).**
15. POOH and lay down 1-1/4" tubing.
16. Re-land 4-1/2" casing.
17. RU wireline.
18. Run CBL and log from 2000' to surface.
19. RD E-line.
20. RIH with tubing, circulate and pull RBP.
21. Hydro test tubing.
22. RIH and land 2-3/8" @ 7988'.
23. ND BOP, NU 5K wellhead.
24. Swab well back in.
25. RDMO Workover rig.