



RANCHERO 32-34

Annular Fill / Surface Cement Remediation

January 13, 2014

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Workover Coordinator:	Butch Till
Production Group Lead:	Andrew Berhost
DJ Team Lead:	Eric Root

Attachments:

Attachment 1 – 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

Cement remediation required for the ECA McConahay Horizontal Offsets.

Additional COGCC COAs

Objective:

Pull tubing, Un-land 4.5" casing and RIH down 4-1/2" by 8-5/8" annulus with 1-1/4" tubing. Cement from 1,200' to Surface. Run CBL. Re-land tubing.

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. Replace joints as needed.
5. RU E-line.
6. RIH and set CIBP @ 4700'.
7. Unland 4-1/2" production casing.
8. RIH down 4-1/2" by 8-5/8" annulus with 1-1/4" tubing to 1,200'.
9. Establish circulation and pump 170 sxs of class G neat cement, taking returns up annulus to surface.
10. POOH and lay down 1-1/4" tubing.
11. Reland 4-1/2" casing
12. Run CBL and log from 1500' to surface.
13. RD E-line.
14. Consult with Engineer and Workover Coordinator on CBL results. If the cement coverage is adequate, TIH and drill out CIBP.
15. RIH and Hydrotest completion as follows:
 Seat nipple/EOT @ 7500'
 2-3/8 tubing to surface
16. ND BOP, NU wellhead.
17. RDMO Workover rig.

Attachment #1 – Wellbore Diagram

Well	Ranchero #32-34
Operator	Encana Oil & Gas (USA) Inc.
Location	SW NE Section 34-T2N-R66W
County	Weld
State	Colorado
Field	Wattenberg
API Number	05-123-15070-0000
Footages	1930' FNL, 2040' FEL

Spud: 7/2/1991
TD: 7/8/1991
Completion: 6/6/1992

Fox Hills Base 959'

Formation Tops

Sussex	4743'
Niobrara	7190'
Ft. Hays	7480'
Codell	7501'

Cmt from 3710'-
4980' CBL 8-5-
1991

TOC 6670'
CBL 8-5-1991

Tubing

2 3/8" tubing set at 7497'
(4/26/10)

Production Casing

4 1/2", 11.6# casing set at 7642'
Cemented with 900 sxs.

Main Hole

7-7/8" to TD

7643' — TD

Surface Hole

12 1/4"

Surface Casing Cement

8 5/8", 24# casing set at 996'.
Cemented with 700 sxs.
Cement circulated to surface

Sussex Perf

4743-78', 70 holes
Frac'd with 260,000 # sand
and 104,412 gals fluid

Squeezed Sussex Perfs w/
150 xs Class G cmt. Drilled
out cmt from 4510 to 4790.
(3/29/10)

Niobrara Perfs:

7274-7294', 4 spf, 80 holes
Frac'd with 250,280# sand and
135,828 gals fluid (4/17/10)

Codell Perfs:

7501-18', 2 spf, 34 holes
Frac'd with 251,250# sand and
80,250 gals fluid
Refrac Codell 7501-7518
w/250,380 # sand and 118,776
gal frac fluid (4/10/10)