



Reperforate and Replace Packer Procedure

Well: Buzzard Creek Unit 12-4 SWD

Dan Fouts

May 31, 2018

WELL INFORMATION:

Well Name: Buzzard Creek 12-4 SWD
API #: 05-077-05106-00

Pad: Buzzard Creek 12D
County, State: Mesa, CO
Field: Buzzard Creek

Surface Location: 660 FNL & 330 FWL NWNW S12 T09S R93W
Surface GPS: 39.296093, -107.726983

Elevations: KB Elevation: 7602
KB Height: 10
GL Elevation: 7592

PBTD: 8638 MD / 8638 TVD (tag fill with tbg 10/6/2015)
TD: 8952 MD / 8952 TVD

Casing: Surface: 10.75" 32.75# H40 @ 450, TOC @ surface (calc)
Intermediate: 7.625" 26.4# J55 & L80 @ 6204, TOC @ 5022 (Temp Survey)
Production: 5.5" 15.5# & 17# J55 & N80 @ 8700, TOC @ 7052 (CBL)

Perfs & Plugs: Perfs Reported @ 8534-8566
Top Perf Observed @ 8507 (log dated 21-Jan-2017)

Tubing: 243 jts 2-7/8" 6.5# L80 EUE 8rd @ 8456
Baker Hornet Packer COE @ 8440

Reservoir Pressure: 4000 psi

Well Status: SI with 99 psi CSG and 98 psi TBG, communication between tubing and production casing

Directions: From Collbran:
Go West on Hwy 330 14.0 miles
Turn North / left on lease road .4 miles to location

Contacts:

Health & Safety Coordinator	Laura Lancaster	970 644 1259
Production Coordinator	Rory Mortensen	970 778 5161
Production Coordinator	TJ Cordova	970 250 9519
Production Manager	Milt Johnson	970 230 1011
Wellsite Consultant	Dan Hacking	970 778 1063
Wellsite Consultant	Troy Roehm	970 852 1806
Production Engineer	Dan Fouts	970 852 1170
Completions Manager	John Grubich	970 589 9496
Senior Regulatory Manager	Wayne Bankert	970 985 5383
Operations Manager	Chris Clark	970 462 8375

PRE-JOB PLANNING:

1. Contact Rory Mortensen to blow down well and prep location.
2. Move in (2) 400-500 bbl frac tanks for returns.

PROCEDURE:

1. Hold pre-job safety meeting with all personnel involved in each operation.
2. MIRU service rig.
3. ND production tree.
4. NU and test Class III BOPE to 2500 psi for 10 minutes.
5. Release packer and allow elements to relax as per tool hand recommendations.
6. POOH standing back tubing. Lay down on/off tool and packer. Take notes and photos of any irregularities. Send on/off tool and packer to third party for immediate tear down and failure report.
7. RIH w/ 4-5/8" tri-cone bit and clean out fill. Target clean out depth is 8800'. Continue cleaning out to 8900' if making progress. Contact engineering if progress stalls before 8800'.
8. POOH standing back tubing.
9. PU positive casing scraper set to 4.625" or 1/8" under drift of 5-1/2" 17# casing. RIH to 8500' and make (5) passes from 8200' to 8500'.
10. POOH laying down tubing.
11. Send tubing to Petros for inspection and repair.
12. MIRU wireline unit. NU 5k psi lubricator.
13. Run GR/CCL log from 8800'-7800' and correlate GR to original McCullough GR/NEU log dated 9-10-59.
14. Wireline perforate with 3-1/8" HSC guns loaded 3 spf 120 deg with Owen 19g HERO SGH-3119-330 charges @ 8532'-8666' (134 ft net)
15. RDMO wireline unit.
16. Move in 8500' of inspected 2-7/8" tubing or new 2-7/8" tubing as per engineering.
17. MU injection string on 2-7/8" 6.5# L80 tubing from bottom up as follows:
 - a. 2-7/8" WL Re-entry Guide @ 8440' +/-
 - b. 2-7/8" tbg jt
 - c. 2-7/8" XN NoGo Nipple
 - d. 2-7/8" tbg jt
 - e. 5-1/2" 17-20# x 2-7/8" EUE 8rd Hornet / Arrowset packer COE @ 8375' +/-
 - f. 2-7/8" x 4-6 ft pup jt
 - g. 2-7/8" On/Off Tool
 - h. 2-7/8" tbg to surface
18. Land packer in compression as per tool hand recommendation.
19. Pressure backside to 500 psi and perform charted MIT pressure test for 15 minutes.
20. Un-jay from On/Off tool.
21. Circulate around 150 bbls (10% excess) packer fluid.
22. Jay in to On/Off tool and re-land tubing.
23. Pressure up backside to 500 psi to verify integrity.
24. ND BOPE.
25. NU injection tree.
26. RDMO service rig.