



Overview

Engineer:	Mark Mewshaw	Office Phone:	832-726-1147
Field:	North Rulison	Pad:	Federal RWF 12-9 Pad
Well Name:	Federal RWF 322-9	API #	05-045-12825

Proposed Work: Production Casing Leak

Well Info.

D&C: 2007
Previous WOVs: Tubing lowered in 2015
Perfs: 6,949' – 9,124'
PBTD: 9,399' Float Collar
Tag Depth: 9163' – 39' of rathole
Last Tag: May 2020
KB Elevation: 24'
Tbg Landed: 9,006' (94%), N-80

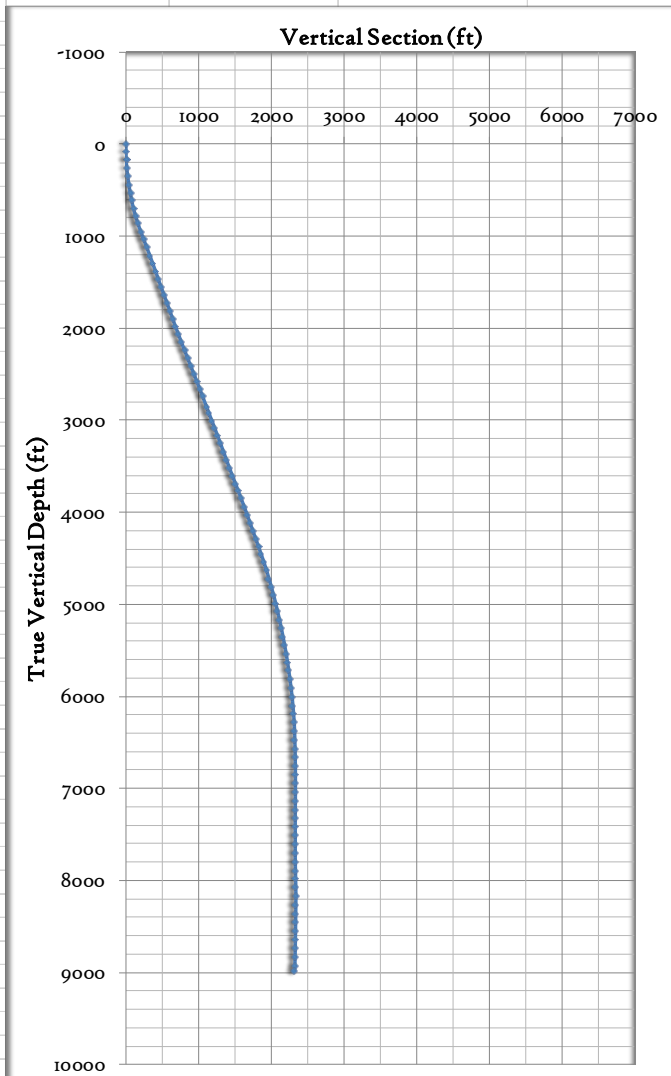
Procedure

1. MIRU, kill well.
2. ND production head and NU 5K BOP.
3. Pressure test blind rams to 400 psi Low / 4,000 psi High for 5 minutes
4. Pressure test pipe rams to 400 psi Low / 4,000 psi High for 5 minutes
5. Unland tubing.
6. Strip off hanger. Strip in rubber.
7. RIH to tag for fill.
8. POOH while scanning tubing, lay down bad joints.
9. Kill casing.
10. RU w/ TSBP BHA. RIH and set TSBP @ ~1000'. Test Production casing for leak. Once leak or part is found
11. Dig out around wellhead. N/D BOP's. Remove casing head. Pull casing stump if casing parted at surface.
12. RIH w/ 7-3/4" overshot with 4-1/2" grapple. RIH and latch on top of casing. Pull test.
13. MIRU Wireline. RIH in 1-11/16" stringshot. Set in in collar two joints below damage joint.
14. Perform backoff. POOH and L/D joints.
15. RIH w/ new joints. Screw into casing. Torque to 2800 ft/lbs. Pull test to 80K. Pressure test to 1000 psi for 15 mins.
16. Pull to 78k and set casing slips. Cut off casing stump. Install Tubing Head.
17. NU BOP's. Test same as step 3 & 4.
18. Run tubing in the hole w/ TSBP retrieving head. Latch onto TSBP, unset and TOOH
19. Dump 5 gal of Multichem's MX 6-2502 Corrosion Inhibitor down the casing.
20. RIH with NC, Standard Profile Nipple 1.78" and tubing while hydrotesting, lay down bad joints.
21. Land tubing at ±9,006' (94%).
22. Strip off BOP and NU wellhead.
23. Return well to production.

RWF 322-9 Wellbore Diagram

Well	Pad	EU	API
RWF 322-9	RWF 12-9 Pad	62180246	05-045-12825
Production Field		Initial Cleanout	
NORTH RULISON			
Top Perf	Bottom Perf	Current EOT	EOT %
6,949	9,124	9,007	94.6%
Last Tag	Tag Info	Amount	Fill/Rathole
9,163	Slickline	39.00	Rat hole
New Tbg Depth	New EOT %	ft from Tag	
9,006	94.6%	157	
Bottom Surf Csg	Bottom Prod Csg	Float Collar	
3,029	9,030	9,399	
Average Inc	Max Inc	TOC	
14.4	28.1		

Procedure:

[illegible]