



Exploration and Production

Casing Remediation Procedure

Revision Date:
2/17/2016

Wellname: **RWF 331-18**

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Location: **SENW 18 6S 94W**

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Field: **North Parachute**

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API: **05-045-10693**

Surface Casing: 9-5/8" 32.3# set @ 1128-ft

Production Casing: 4-1/2" 11.6# set @ 8,913-ft

Tubing: 2-3/8" tbg @ 8,351-ft

MV Completions: 6,584 - 8,271.5- ft

Cameo Completions: 8,330 - 8,766.5-ft

TOC/Correlate Logs: 6,400-ft / HAL Cement Bond Log 11/26/06

Purpose: Remediate corroded casing

Proposed Procedure:

- 1 MIRU service rig, POOH w/ 2-3/8" tbg
- 2 RIH with RBP, set at 6480' with 2 sks sand to isolate perforations.
- 3 Prior casing tests showed possible holes from 4879'-5757', Caliper log showed no large holes or parts in casing.
- 4 RIH with wireline and perforate 4.5" casing at 5875', 6 shots/ft, 60 degree phasing. TOOH with wireline.
- 5 RIH with 2-3/8" with cement retainer. Set cement retainer at 5520'.
- 6 Establish injection rate, and determine volume of cement needed to remediate section
- 7 Pump squeeze cement. Class G with fluid loss additive. 15.8 ppg, 1.15 ft³/sx.
- 8 Bleed off pressure and sting out of cement retainer.
- 9 TOOH with 2-3/8" tubing, P/U HD packer, RIH with packer.
- 10 Set packer at 5480' to test cement retainer. If PASS go to Step 11 in procedure. If FAIL then TOOH with packer, then RIH with RBP and packer, set RBP above cement retainer, 5510'.
- 11 TOOH with packer to 5200', Test casing from packer to cement retainer to determine if more holes are present below packer. If PASS go to Step 12 of Procedure.
If test FAILS attempt to get injection rate to determine squeeze cement volume then go to Step 12 of Procedure.
- 12 Test backside of packer. If PASS then TOOH with packer, go to Step 14 in Procedure. If FAIL determine injection rate to determine squeeze cement volume, TOOH with packer.
- 13 Pump squeeze cement if needed. WOC
- 14 RIH with 2-3/8" with bit to drill out cement. Testing casing to 1000 psi every connection to determine if holes are present.
- 15 TOOH with bit. RIH to retrieve TSRBP.
- 16 Clean out wellbore, re-land tubing and return to production
- 17 Submit subsequent report