Procedure to cement squeeze casing leak

April 15, 2019

Well Name: BCU 0993-21-04W

Prepared By: _____

John Grubich
Completions Manager

COMPLETIONS SUMMARY

WELL NAME:	BCU 0993-21-04W
AFE #	18-138
API #	05-077-10511-00
DESCRIPTION / OBJECTIVE:	Cement squeeze leak in production casing.

WELL INFORMATION

Surface Location:	Section 21, T9S, R93W 1515 FNL 1029 FWL Mesa County, CO
Bottom Hole Location:	Section 21, T9S, R93W 871 FNL 1321 FWL Mesa County, CO
TD (MD/TVD):	7727' MD / 7675' TVD
PBTD (MD/TVD):	7626' MD / 7574' TVD
Open Perforations	6056-7262
Casing Program	Surface – 8 5/8" 24.0 lb/ft at 1584' Production – 4 ½" 11.6 lb/ft N-80 at 7717' (TOC @ 1050')
Tubing	N/A
Nipple:	N/A
Packer:	N/A
Capacity:	2 3/8" Tubing – 0.00387 bbls/ft 4 ½" Casing – 0.0155 bbls/ft Tbg/Csg Annulus - 0.0101 bbls/ft
Elevation:	GL: 7257' RKB: 7287' (30' KB)
Current well conditions:	Recently completed perforations are isolated below CIBP @ 5962'. Leak in casing at 3264'.

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Squeeze Procedure

Directions:

Follow Hwy 330 east of Collbran for 12 miles. Turn Right at Groundhog Gulch and take first left after crossing creek. Follow road to location.

Procedure:

Cement squeeze casing leak:

1. MIRU Workover Rig, hold safety meeting with all personnel involved in each step of the procedure.
2. NU 7 1/16" x 5M service rig BOP equipped with blind rams on bottom and 2 3/8" pipe rams on top.
3. Pressure test BOP to 2500 psi for 10 minutes.
4. MIRU Wireline service.
5. PU 4 ½" CBP and RIH to set at 3324'.
6. RD Wireline service.
7. TIH with open ended 2 3/8" tubing and gently tag plug at 3324'.
8. LD 1 jt. tubing so EOT is at +/- 3293'.
9. MIRU Cement service company. Pressure test lines to 2500 psi.
10. Pump 10 bbls fresh water down tubing ahead of cement with casing valve open to circulate and establish circulation rate and pressure.
11. Mix and pump 50 sks Class G cement with 0.15% CFR, 0.35% FLAC at 15.8 ppg and balance cement plug inside 4 ½" casing using fresh water displacement.
12. POOH with tubing to +/- 200' above balanced plug top.
13. Attempt to load hole with fresh water.
14. If hole loads with less than 8 bbls then attempt hesitation squeeze to 1000 psi. Do not pump more than a total of 8 bbls water before shutting down.
15. if hole does not load after pumping 8 bbls overdisplace by 2 bbls and contact Completion Manager for plan forward.
16. Once squeeze is achieved WOC for 48 hrs before drilling out.
17. PU 3 7/8" rock bit TIH with 2 3/8" tubing to drill out cement and test squeeze.
18. Once cement is drilled out to +/- 3275' pressure test well to 2500 psi.
19. if pressure test is unsuccessful call Completion Manager for plan forward.
20. if pressure test is successful drill out cement to CBP.
21. TOOH with tubing and drilling assembly.

CONTACTS:

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