

Exploration and Production

Well Patch Procedure

Revision Date:
1/29/2019

Wellname **NR 23-3**
 Location **Sec. 3 T 6S R 94W**
 Field **North Rulison**
 County **Garfield, CO**
 API **05-045-23904**
 ELEV
 Footages

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Casing: 9-5/8" 32.3# - 1,125'-ft
 4-1/2" 11.6#, P-110, - 10,272'-ft
 Current Top of Cement: 2,000'

Purpose: Patch Leaking Casing

Zone:	All Perforations	
Existing Perforations:	<u>Depth</u>	<u>Holes</u>
Existing Hole	7,770'-7,780'	NA
<p>Proposed Procedure</p> <ol style="list-style-type: none"> 1 Set 4.5" Halliburton Obsidan 10K High Temp Kill plug via wireline at 7,692' 2 pull frac tree and rig up BOB's 3 pick up piloted mill via workover rig and trip in hole 4 begin milling failed Owens casing patch 5 finish milling failed Owens patch then snub tubing plus BHA out of hole. 6 pick up 40 arm caliper log via wireline log failed patched interval 7 run two kill plugs in via wireline at 9,930' and 7,860' 8 run in cast iron cement retainer via wireline and set at 7,690' 9 Pump 100 sks 15.8 PPG Class G Cement 10 squeeze cement to max psi of 4,000 psi 11 sting out of cement retainer and trip out to pickup drillout BHA 12 pick up mill and mill out retainer, cement and tag kill plug 13 pull out of hole and pick up Enventure patch 14 deploy Enventure patch per Enventure BP's 15 trip out pick up BHA to mill out bottom cone on Enventure patch 16 trip out of hole and lay down tubing 17 nipple up frac stack and psi test to 8,000 psi for 30 mins 18 Frac Well 19 Drill out all frac plugs 20 Turn well over to flow 		