

# Exploration and Production

## Well Remediation Procedure

Wellname **GM 323-4**  
Location **Lat: 39.461 Lon: -108.1256**  
Field **Grand Valley**  
County **Garfield, CO**  
API **05-045-23506-00**  
KB ELEV 6,001

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Revision Date:  
11/3/2017

Casing: 9-5/8" 32.3# - 1,264-ft  
4-1/2" 11.6#, P-110, - 7,775'  
Current Top of Cement: 6222'

**Purpose: Raise TOC**

Zone: **Mesa Verde**

Existing  
Perforations: Depth Holes

### Proposed Procedure

- 1 Notify COGCC, BLM 48 hrs prior to start of activity via electronic Form 42
- 2 Move in rig up Cameron 4-1/16" 10K wellhead
- 3 PSI test casing to 9,500 psi for 30 mins (< 2% leak off Required to pass)
- 4 Rig up Reliance Wireline perforate Lower Cameo
- 5 Move in rig up Halliburton frac Lower Cameo
- 6 **Continue stage frac thru MV 5(Top Perf < 6,435')**
- 7 Shut down frac operations
- 8 Begin flowback operations
- 9 Notify COGCC, BLM 48 hrs prior to start of activity via electronic Form 42
- 10 Rig up Reliance Wireline Set Kill Plug at 6,140'
- 11 Remove Cameron 4-1/16" 10K wellhead
- 12 nipple up BOP's and psi test to 4000 psi
- 13 Shoot three perforations 120 degree phasing at 6,130'
- 14 Pick up CICR and set at 6,080'
- 15 **Pump 613 sks 12.8 PPG NEO lead and 75sks 15.8ppg tail Cement into hole at 6,130'**
- 16 **Rig up Reliance Wireline run CBL to evaluate cement top**
- 17 Drillout CICR
- 18 Pressure test well to 8,000 psi
- 19 Move in rig up Cameron 4-1/16" 10K wellhead
- 20 Rig up Reliance Wireline perforate MV6
- 21 Move in rig up Halliburton frac MV6, MV7
- 22 Shut down frac operations
- 23 Begin drillout and flowback operations