



## Exploration and Production

### Well P&A Procedure

Wellname **GM 31-1**  
Location **NWNE 1 7S 96W**  
Field **Grand Valley**  
County **Garfield, CO**  
API **05-045-07444**  
ELEV **5,380'**  
Footages **233 FNL, 2165 FEL**

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Revision Date:  
5/26/2015

Casing: 9-5/8" 36# - 325-ft  
4-1/2" 11.6#, - 6,642-ft  
Current Top of Cement: 3,560-ft CBL (RMWS 01/21/2000)

**Purpose: Plug to abandon well**

Zone: **All Perforations**

Existing Perforations:	<u>Depth</u>	<u>Holes</u>
	4669 - 4924	14
	5022 - 5236	16
	5444 - 5937	16
	6063 - 6397	18
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		64 total

#### Proposed Procedure

- 1 Notify COGCC 48 hrs prior to start of activity via electronic Form 42
- 2 Sundry 400822671 left cement from 2787' to CIBP at 3790'
- 3 Pressure test 4-1/2" casing, pump cement into leaking area, if necessary
- 4 Set CIBP at 425' in 4-1/2" casing, perforate 4-1/2" casing with 3 holes phased 120°, at 375'
- 5 Place a cement plug to cover 4-1/2" backside from perforations to 50' into 9-5/8", and leaving 100' cement in 4-1/2", with a 30% open hole cement excess
- 6 Cut off 9-5/8" and 4-1/2" casing to 4-ft below ground level
- 7 Apply a 50-ft cement plug from surface in 4-1/2" - 9-5/8" annulus
- 8 Place a 50-ft surface cement plug inside 4-1/2" casing
- 9 Weld in place dryhole marker
- 10 Backfill cellar
- 11 Properly abandon flowlines per Rule 1103. File electronic Form 42 after flowline abandonment is complete