



Exploration and Production

Well P&A Procedure

Wellname: **PA 21-4**
 Location: **NENE 4-7S-95W**
 Field: **South Parachute**
 County: **Garfield, CO**
 API: **05-045-07455**
 ELEV: **5,118' KB 5,104' GL**

Prepared By: Will Greathouse
 office phone: (832)726-1197
 cell phone: (817)709-3949

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Tubulars: 9-5/8" 36# - 1,635'
 4-1/2" 11.6# - 6,529' 0.0155 bbls/LnFt
 2-3/8" 4.70# - 3,200' SB in Derrick 0.0039 bbls/LnFt

Current TOC: 2,940' CBL (5-29-2009)
 Top of MV: 3,210'

Purpose: Plug to abandon well

Zone: **All Perforations**

Existing Perforations:

Depth	
Shallow	Deep
4,165'	4,667'
4,807'	5,159'
5,312'	5,678'
5,849'	6,129'

Proposed Procedure

- 1 Notify COGCC Representative of start of activity
- 2 TIH w/2-3/8" TBG to 3,133'
- 3 Plumb up backside and bradenhead to tank and establish circulation
- 4 Pump water spacer ahead of 12.22 bbls (TBG capacity @ 3,133')
- 5 Pump 95.78 sx 15.8 ppg cmt down TBG w/backside & bradenhead open and displace to balance plug
- 6 POOH to 300'
- 7 Secure well for night and wait on cement
- 8 TIH and tag cmt plug, if tag is deeper than 2,664', repeat steps and pump extra job until coverage is at least to 2,600'
- 9 Shut well in and ensure no pressure builds on TBG, CSG, or BH
- 10 POOHLD TBG
- 11 RU WL and TIH to 1,685' (50' deeper than surface CSG shoe)
- 12 Shoot 1' @ 4 SPF 90 deg PHZ
- 13 POOH and RD WL
- 14 Open backside to tank and establish circulation
- 15 Pump 628.36 sx 15.8 ppg cmt down TBG w/backside open and displace as needed filling hole full of cement
- 16 Secure well
- 17 Cut WH and weld in place dryhole marker
- 18 Backfill cellar