



Exploration and Production

Well P&A Actual Procedure

Wellname **PA 13-31**
Location **SESW 31 6S 95W**
Field **Parachute**
County **Garfield, CO**
API **05-045-07850**
ELEV **5,561'**
Footages **644 FSL 1242 FWL**

Prepared By: Tony Franzone
office phone: 970-285-9377
cell phone: 970-589-1454

Revision Date:
12/16/2014

Casing: 9-5/8" 32.3#, H-40, - 960-ft
4-1/2" 11.6#, I-80, - 7,048-ft
Current Top of Cement: 4,880-ft CBL (HAL 03/21/05)

Purpose: Plug to abandon well

Zone: **All Perforations**

Existing
Perforations: Depth Holes

5220 - 5372	16
5456 - 5638	18
5719 - 5892	18
5996 - 6306	16
6481 - 6847	18
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	86 total

Actual Procedure, Footages and Volumes Calculated

- 1 Notified COGCC, BLM 48 hrs prior to start of activity via electronic Form 42
- 2 Set CIBP + 4 sks, 52' cement at 5150' ft in 4-1/2" casing
- 3 Pressure test 4-1/2" casing, found hole at 4284', set CICR at 4185'. Pump 50 sks Type G, 15.8 ppg 1.14 ft³/sks cement, displace with 15.4 bbls, calculated 8 sks 100' in 4-1/2" under retainer, and 133' backside 4-1/2" in 7-7/8" hole, using 30% excess hole volume. 4 sks cement on retainer
- 4 Pump 50 bbls 10.3 ppg drilling mud in 4-1/2", 3226 ft
- 5 Set CIBP at 1060' in 4-1/2" casing, perforate 4-1/2" casing with 3 holes phased 120°, at 1010'
- 6 Place 55 sks cement, with 202', 16 sks in 4-1/2" on CIBP, 13 sks from 960-1010', 4-1/2" in 7-7/8" hole (using 30% excess), and 26 sks 90' backside 4-1/2" in 9-5/8" casing. Displaced with 13.3 bbls 10.3 ppg mud, 850'
- 7 Tag cement at 769'. Cut off 9-5/8" and 4-1/2" casing to 4-ft below ground level
- 8 Applied a 76-ft, 22 sks surface cement plug from surface in 4-1/2" - 9-5/8" annulus
- 9 Placed a 100-ft, 8 sks surface cement plug inside 4-1/2" casing
- 10 Welded in place dryhole marker
- 11 Backfilled cellar
- 12 Properly abandoned flowlines per Rule 1103.