

## A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 \*fax: 505-325-1211

Williford Resources, LLC

**Ted #1**

May 27, 2014

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660' FNL and 1980' FWL, Section 12, T-33-N, R-12-W

La Plata County, CO

Lease Number:

API #05-067-06410

### Plug and Abandonment Report

Notified COGC and CO BLM on 5/16/14

### Plug and Abandonment Summary:

**Plug #1** with CR at 3410' spot 12 sxs (14.16 cf) Class B cement inside casing from 3410' to 3252' to cover the Dakota top.

**Plug #2** with CR at 2430' spot 34 sxs (40.12 cf) Class B cement inside casing from 2480' to 2272' with 4 sxs under, 12 sxs above and 18 sxs into annulus to cover the Gallup top. Tag TOC at 2273'.

**Plug #3 (combined #4)** with CR at 1250' spot 241 sxs (284.38 cf) Class B cement inside casing from 1250' to 713' with 200 sxs in annulus, 4 sxs under and 37 sxs above to cover the Point Lookout and Menefee tops. Tag TOC at 429'.

**Plug #5** with 113 sxs (113.34 cf) Class B cement with 1% CaCl inside casing from 181' to surface with 14 sxs in casing and 99 sxs into annulus to cover the 9-5/8" surface casing shoe.

### Plugging Work Details:

5/20/14 Rode rig and equipment to location. Spot in and RU. Check well pressures: tubing 0 PSI, casing 30 PSI and bradenhead has a bull plug with trap pressure. RU relief lines. RU block for rod work. Latch onto polish rod. Pull 10K. Rods stuck, work rods and LD polish rod. Latch onto 3/4" rods. Work rods up to 26K. LD 1-4' sub, LD 1-6' sub. Keep working rods up to 26K. PU polish rod and RU pump hose to pumping tee. Work rods and pump 7 bbls. Kept pump pressure below 300 PSI. Pull up to 26K, rod stuck. Note: G. Stevens, Williford requested to back off rods. PU on 2-3/8" tubing tongs. Place and secure back off tool onto 3/4" rods. Pull to 10K back off rods with tongs. SI well. SDFD.

5/21/14 Check well pressures: tubing 0 PSI, casing 30 PSI and bradenhead still has trap pressure. Strip on 5-1/2" wellhead with 8-5/8" flange. NU BOP and function test. Release packer. TOH with 2-3/8" tubing and strip on 3/4" rods. TOH with 18 stands (36 jnts). RU back off tool to 3/4" rods. Pull up to 10K strip out 44 rods of 3/4" rods. TOH with 2 stands (4 jnts) pull out 4 jnts of 3/4" rods. TOH with 19 stands (38 jnts). LD 37 jnts of 3/4" rods. TOH and LD 11 stands. Total 3/4" rods from well, 1 polish rod, 1-4', 1-6', 1-8' pony subs, 138 3/4" rods. Bottom hole insert pump stuck at set nipple. Total 2-3/8" tubing from well; 110 jnts, 1 - 4-1/2" packer, 1 joint, 1 set nipple, 1-3' perf sub, 1 tail jnt with bull plug on bottom. Tally 112 jnts of EUE, 4.7#, J-55, total 3521.68'. PU 1-4-1/2" watermelon mill. TIH to 3431'. TIH with 4.5" DHS CR and set at 3410'. Pressure test tubing to 500 PSI, OK. Sting out of CR. Establish circulation. Spot plug #1 with calculated TOC at 3252'. SI well. SDFD.

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### **Plugging Work Details (continued):**

- 5/22/14 Check well pressures: no tubing, casing 10 PSI and bradenhead bull plug. Slowly remove bull plug with 18" pipe wrench and sash cord. NU valve. Bradenhead unloading water. Place gauge on bradenhead 4-1/2" casing open to pit with slight water flow, 15 min on bradenhead 30 PSI. Close casing for 5 minutes. Bradenhead at 50 PSI bled down to 44 PSI. Pressured up to 70 PSI. Bled down bradenhead and casing to pit. No flow from casing. Bradenhead gas and unload water. Note: G. Stevens, Williford, G. Archuleta and B. Clark, A-Plus Well Service approved to combine plugs. Wait on orders. Perforate 3 bi-wire holes at 2480'. TIH with 4-1/2" DHS CR and set at 2430'. Establish circulation. Establish rate of 3-1/2 bpm at 500 PSI. Spot plug #2 with calculated TOC at 2272'. SI well. SDFD.
- 5/23/14 Check well pressures: no tubing, casing 30 PSI and bradenhead 80 PSI. TIH and tag TOC at 2273'. Perforate 3 bi-wire holes at 1250'. TIH with 4-1/2" DHS CR and set at 1250'. Establish circulation. Attempt to pressure test casing to 750 PSI, bled down 75 PSI. Establish rate of 3-1/2 bpm at 500 PSI. Spot plug #3 (combined plug #4) with calculated TOC at 713'. Reverse circulation. Circulate well clean. SI well. SDFD.
- 5/27/14 Open up well; no pressures. RU sandline. RIH and tag TOC at 429'. Attempt to pressure test casing, unable. Perforate 3 bi-wire holes at 181'. Establish circulation. ND BOP. Spot plug #5 with TOC at surface. SI well. RD and MOL. Note: Glen Stevens, Williford will dig out wellhead and cut off wellhead and weld on P&A marker.

Glen Stevens, Williford representative, was on location.