A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499 505-325-2627 *fax: 505-325-1211

Energen Resources Corporation
Hamilton Com E 9

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800' FSL and 1793' FEL, Section 02, T-25-N, R-08-W San Juan County, NM Lease Number: E-4912-4 API #30-045-05531

Plug and Abandonment Report
Notified NMOCD and BLM on 12/15/14

Plug and Abandonment Summary:

- **Plug #1** with CR at 2690' spot 44 sxs (51.92 cf) Class B cement with 2 % Cal Chloride from 2690'-2302' to isolate the Pictured Cliff and Fruitland intervals.
- Plug #2 with 57 sxs (67.26 cf) Class B cement from 2151'-1648' to cover the Kirtland and Ojo Alamo tops. Establish circulation out BH valve during displacement of Plug #2.
- Plug #3 with CR at 246' spot 89 sxs (105.02 cf) Class B cement 220'-surface to cover the Nacimiento top and casing shoe. Pump 46 sxs to circulate good cement out BH valve. SI BH and open casing valve, pump 23 sxs to circulate good cement out casing valve. TOH LD all tubing and RU pump to BH valve. Pump 6 sxs to circulate good cement out casing valve again. SI casing valve and squeeze 14 sxs down BH at 1/2 BPM at 500 PSI. SI Well with 350 PSI.
- Plug #4 with 16 sxs Class B cement top off casings and install P&A Marker at 36° 25' 27" N / 107° 38' 57" W.

Plugging Work Details:

- 12/15/14 Rode rig and equipment to location. Spot in and RU. Check well pressures: tubing, casing, and BH 0 PSI. Dig out BH valve and install 2" plumbing. Blow down well. Attempt and unable to remove cap from WH. SI Well. SDFD.
- 12/16/14 Check well pressures: tubing and casing 35 PSI and BH 0 PSI. Blow down well. Pump 5 bbls of water down tubing. Pump 25 bbls down casing. Work WH cap free. NU companion flange. NU BOP and test. X-Over for tubing. PU string mill and on tubing string. RIH to 2372'. TOH with 131 joints 1-1/4" tubing. Perforate joint with orange peel on bottom. SI Well. SDFD.
- 12/17/14 Check well pressures: tubing, casing and BH 0 PSI. Open well to pit. TIH to 2690'. TOH and LD string mill. TIH and set CR at 2690'. Pump 69 bbls of water into hole to circulate clean. Attempt and unable to pressure test casing. Pump 3 BPM at 300 PSI. Brandon Powell, NMOCD, approved to continue with procedure. Spot Plug #1. SI Well and WOC. TIH and tag Plug #1 TOC at 2359'. TOH to 2151'. Pump 12 bbls of water into tubing. Attempt to pressure test casing at 2 BPM at 500 PSI. Spot Plug #2. SI Well. SDFD.
- 12/18/14 Check well pressures: 0 PSI on well. Open well to pit. TIH and tag Plug #2 at 1720'. Establish circulation out BH with 8 bbls of water. Pump an additional 24 bbls at 3 BPM at 300 PSI. Kyle Mason, Energen, and Paul Wiebe, NMOCD, approved procedure change. TIH and set CR at 246'. Establish circulation out BH with 1/4 bbl of water. Pump 10 bbls of

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Plug and Abandonment Report
Notified NMOCD and BLM on 12/15/14

Plug and Abandonment Summary:

- 12/18/14 water at 2 BPM at 500 PSI to circulate red dye out BH valve. Hole at 183'. Paul Wiebe NMOCD, approved to use existing holes in casing. TIH to 220'. Establish circulation out BH valve with 1/2 bbl of water. Spot Plug #3. RD pumping equipment. Dig out WH. Write Hot Work Permit. Cut off WH. Cement at cut off point in 5-1/2" casing and at 10' in 8-5/8" casing. RD rig. SI Well. SDFD.
- 12/19/14 RU pumping equipment. Spot Plug #4 and install P&A Marker at 36° 25' 27" N / 107° 38' 57" W. RD and MOL.

Paul Wiebe, NMOCD representative, was on location.