

Energen Resources Corporation

Plug And Abandonment End Of Well Report

Zachary #34

1980' FSL & 660' FEL, Section 34, T-29-N, R-10-W

San Juan County, NM / API 30-045-25466

Work Summary:

- 3/21/16** NMOCD and BLM notified of P&A operations to commence 3/22/16
- 3/22/16** Move rig and equipment to location. Check well pressures: tubing 85 PSI, casing 90 PSI and bradenhead 30 PSI. Bleed down well. Nipple up BOP and function test. Pull tubing hangar and TOO H with 93 stds 2 3/8" tubing. P/U 5 1/2" casing scrapper, TIH and make scraper run to top perforation at 5323'. TOO H and lay down casing scraper.
- 3/23/16** P/U 5 1/2" CR TIH and set CR at 5273'. Test tubing to 800 PSI. Sting out of CR. Establish circulation out of casing valve. Pressure test casing to 500 PSI. Spot 1st plug on top of CR at 5273'. Lay down tubing, spot 2nd plug at 4840'. Lay down tubing, stand back remaining work string and lay down setting tool.
- 3/24/16** TIH and spot 3rd plug at 3472'. Lay down tubing and spot 4th plug at 2842'. Lay down tubing and spot 5th plug at 1882'. Lay down tubing and spot 6th plug at 850'. Lay down tubing and spot 7th plug at 331'. Lay down rest of tubing and wash out BOP. RD and MOL.
- 3/31/16** Top off well with additional cement as mandated by BLM and NMOCD. Cut off wellhead and install P&A marker.

Plug Summary:

Plug #1: (Gallup 5273'-5123', 18 Sacks Class G Cement)

Mix 18 sx Class G cement and spot a balanced plug inside casing to cover Gallup formation top.

Plug #2: (Mancos and Intermediate Shoe 4840-4487', 53 Sacks Class G Cement)

Mix 53 sx Class G cement and spot a balanced plug inside casing to cover Mancos formation top and intermediate shoe.

Plug #3: (Mesa Verde Formation Top 3472'-3322', 37 Sacks Class G Cement)

Mix 37 sx Class G cement and spot a balanced plug inside casing to cover Mesa Verde formation top.

Plug #4: (Chacra Formation Top 2842'-2692', 37 Sacks Class G Cement)

Mix 37 sx Class G cement and spot a balanced plug inside casing to cover Chacra formation top.

Plug #5: (Pictured Cliffs - Fruitland Formation Top 1882'-1480', 104 Sacks Class G Cement)

Mix 104 sx Class G cement and spot a balanced plug inside casing to cover Pictured Cliffs - Fruitland formation tops.

Plug #6: (Ojo Alamo Top 850'-600', 77 Sacks Class G Cement)

Mix 77 sx Class G cement and spot a balanced plug inside casing to cover Ojo Alamo formation top.

Plug #7: (Surface Shoe and Surface 331'-surface, 103 Sacks Class G Cement)

Mix approximately 103 sx cement and spot a balanced plug from 331' to surface, circulate good cement out of casing valve.