

705' FNL and 2245' FEL, Section 5, T-29-N, R-2-W
Rio Arriba County, NM
Lease Number: MDA 701-98-0013
API #30-039-27596

Plug and Abandonment Report
Notified Jicarilla BLM, BLM & NMOCD on 10/28/15

Plug and Abandonment Summary:

- Plug #1** with CR at 3230' spot 32 sxs (37.76 cf) Class B cement from 3230' to 2948' to cover the Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops. Tag TOC at 2973'.
- Plug #2** with perfs at 2329' & CR at 2281' spot 65 sxs (76.7 cf) Class B cement from 2329' to 2025' to cover the Nacimiento top. 1) pump 36 sxs below CR (6 sxs inside and 30 sxs outside 5-1/2" casing), 2) sting out CR and leave 29 sxs from 2281' to 2025', cement pumped with 3% CaCl. Tag TOC at 2021'.
- Plug #3** with CR at 1372' spot 24 sxs (28.32 cf) Class B cement from 1372' to 1161' to cover the San Jose perfs.
- Plug #4** with 119 sxs (140.42 cf) Class B cement from 300' to surface to cover the 8-5/8" shoe and surface. Circulate good cement out BH valve.
- Plug #5** with 20 sxs Class B cement and install P&A marker with coordinates N 36° 45' 34" / W 107° 3' 54".

Plugging Work Details:

- 10/29/15 MIRU A-Plus rig #14. SITP 45 psi, SICP 50 psi & SIBHP 10 psi. Blow well down. ND WH. NU BOP & function test. TOH & LD 2-3/8" tubing. PU & TIH w/ Weatherford on/off tool on 2-3/8" workstring. Tag fill at 3705'. Reverse out at 3 bpm, 250 psi, circulate down to 3712' & stacked out. Attempt to work onto RBP, no J action. TOH to 3408'. SDFD.
- 10/30/15 Tubing & casing on vacuum. SIBHP 0 psi. Function test BOP. TOH to 1459'. Tubing & casing unloading. Pump 30 bbls of water down tubing to kill well. Finish TOH, LD on/off tool. PU 4-3/4" wash shoe assembly. TIH to 1529'. Well unloading. Pump 10 bbls down tubing. TIH to 1904'. Well unloading, blow casing & tubing to pit 1 hour. Pump 35 bbls down casing and 10 bbls down tubing to kill well. TIH to 3239', stacked out. Roll hole w/ 80 bbls to circulate gas out. Pull 12K# over to get off bottom. TOH, LD wash shoe. PU on/off tool. TIH & tag at 3239'. Attempt to tie onto RBP, no J action. TOH LD 4 jts tubing. SDFD.
- 11/2/15 Tubing & casing on vacuum, SIBHP 0 psi. Function test BOP. Load hole. TIH & tag at 3239'. No J action. TOH. Wait on orders. Receive OK by B. Hammond and R. Velarde, Jicarilla BLM, T. Salyers, BLM & B. Powell, NMOCD to set CR at 3230', attempt to establish rate below CR & spot inside plug. TIH w/ bit & scraper to 1843'. Well unloading pump 50 bbl down tubing, returns gas cut. TIH to 2031'. Pump 66 bbl down tubing returns gas cut. TIH to 2156'. Pump 65 bbls down tubing to kill well. TIH to 3230'. Pump 40 bbl down tubing. SI well. SDFD.
- 11/3/15 SITP on vacuum, SICP 50 PSI and SIBHP 0 PSI. Blow down well. Roll hole w/ 77 bbl. Function test BOP. TOH. RU A-Plus wireline. Set CR at 3230'. TIH with stinger on tubing to CR, stay stung out. Load tbg w/ 1.5 bbl pump 5 bbl ahead total. Sting in CR at 3230', attempt to establish rate below CR. Pressured up to 1250 PSI, no bleed off. Sting out. Spot **plug #1** with calculated TOC at 2948'. TOH w/ tubing & LD stinger. SDFD.

Plugging Work Details (continued):

- 11/4/15 SICIP on vacuum. SIBHP 0 PSI. Function test BOP. TIH & tag plug #1 at 2973'. TOH. Load hole w/ 16 bbls. Perforate 3 holes at 2329'. TIH & set CR at 2281'. Sting in CR & establish rate of 2 bpm at 500 PSI. Spot **plug #2** with calculated TOC at 2025'. TOH. SI well. WOC. TIH and tag plug #2 at 2021'. TIH & set CR at 1372'. Circulate well clean. Pressure test casing to 800 PSI, OK. Spot **plug #3** with calculated TOC at 1161'. TOH. SDFD.
- 11/5/15 SICIP 0 psi, SIBHP 0 psi. Function test BOP. Perforate 3 holes at 300'. Establish rate down csg & out BH valve w/ 45 bbls total. ND BOP. NU WH. Spot **plug #4** with TOC at surface. Circulate good cement out BH valve. Dig out WH. Write Hot Work Permit. Cut off WH. Found cement at cut off point in 5-1/2" and 8-5/8" casings. Spot **plug #5** and install P&A marker with coordinates N 36° 45' 34" / W 107° 3' 54". RD & MOL.

Rod Velarde, Jicarilla BLM representative, was on location.

Bryce Hammond, Jicarilla BLM representative, was on location.