

Blac Frac Tanks, Inc.
808 County Road 215
Parachute, CO 81635

Plugging Report for the Federal 11-90-7

May 31, 2015

MI and spot pump and cement trailer, RU to mix and pump cement.

June 1, 2015

Plug #1

Tubing set at 6698', Mixed and pumped 15 sks Type G cement @ 15.8 ppg (3 bbls cement slurry). Displaced with 23 bbls water. No returns to surface. WOC 4 hrs. RIH tag plug at 6525'. Trip for next plug. Sdfn

June 2, 2015an

Plug #2, Set Retainer at 6300'

Pumped 10 bbls water, injected at 2.25 bpm @ 500 psi. Mixed and pumped 45 sks Type G cement @ 15.8 ppg, (9.5 bbls cement slurry) Displaced with 23 bbls water. Final pump pressure 400 psi at ½ bpm. Sting out of retainer, Left 10 sks on top of retainer and 35 sks below retainer.

Plug #3, Set retainer at 3960'

Pumped 17 bbls ahead, kept having problems with Rig pump motor. By passed Rig pump. Mixed and pumped 38 sks Type G cement @ 15.8 ppg, (8 bbls slurry) Displaced with 12 bbls. Tbg pulled wet, Rigged up Pump and attempted to clear tbg, Pressured to 2200 psi, tbg plugged off. POOH, Laid down 28 jts full of hard cement. Sdfn

June 3, 2015

Plug #4, Tag plug #3 at 3690'

RIH with tbg to tag, Land EOT at 3670'. Mixed and pumped 55 sks, Type G cement @ 15.8 ppg (11.5 bbls slurry). Displaced with 9 bbls water, no pressure, no returns. Pulled EOT to 2800'. Pumped 10 bbls no returns.

Plug #5 Set Retainer at 2798'

Pumped 6 bbls water ahead, Mixed and pumped 40 sks Type G cement @ 15.8 ppg. (8.4 bbls slurry) Displaced with 8.9 bbls water, 50 psi at 1 bpm at end of job. Sting out of retainer and left 2 bbls slurry on top of retainer. Cleaned up equipment, Sdfn

June 4, 2015,

Plug #6

RIH, tag #5 plug @ 2598' land EOT @ 2570' Mixed and pumped 80 sks Type G cement @ 15.8 ppg, with 2% Cacl₂. (16.8 bbls slurry), Displaced with 5 bbls water. POOH WOC for 3 hrs. RIH, Tag at 1731'

Plug #7 Set Retainer at 1300'

Pumped 5 bbls water ahead. Mixed and pumped 80 sks type G cement at 15.8 ppg. Pulled out of retainer with 3 bbls slurry left in mix tank. Displaced with 1.5 bbls water. Left 40 sks below retainer and 40 sks on top of the retainer. Cleaned up equipment. Sdfn.

June 5, 2015

Plug #8 RIH tag plug #7 at 1190'

Land EOT @ 189' Mix and pump 10 sks Class G at 15.8 ppg. Displace with $\frac{3}{4}$ bbl. Trip out tbg.
Cut off well head. Pump Top out cement Pumped 20 sks into 4-1/2, Cement fell away.
Pumped additional 20 sks into 4-1/2. Mixed and pumped 50 sks into 4-1/2 by 10-3/4" annulus.

Mixed and pumped a Total of 453 sks Class G cement.

Ralph G Show

President Blac-Frac Tanks, Inc

6-8-2015