

Chris Hohnstein

From: Kevin Monaghan
Sent: Tuesday, February 5, 2019 8:56 AM
To: Renee Call; Justin Swarts
Cc: Chris Hohnstein
Subject: RE: EXTERNAL: Re: NBL Modified Procedure: Guttersen State D16-63-1HN (35204)

Renee,

Yes a casing puncher would be ideal. It will perforate the casing, but not the surface casing. There are a couple of ways to do this. If we need cement from 1000' to surface in side production casing, I would perforate at 600', verify we can circulate to surface, run in with 1000' of tubing, shut pipe rams and cement from 1000' to 600' in production casing, then out of the perms uin the annulus to surface. Once cement is seen at surface, shut the surface casing valve, open the production casing valve and cement to surface in side production casing. Pull tubing and top off. If we do it this way a Frankenstein hanger will have to be used. I will leave it operationally up to Chris though.

Kevin

From: Renee Call
Sent: Tuesday, February 5, 2019 8:33 AM
To: Kevin Monaghan <Kevin.Monaghan@nblenergy.com>; Justin Swarts <Justin.Swarts@nblenergy.com>
Subject: FW: EXTERNAL: Re: NBL Modified Procedure: Guttersen State D16-63-1HN (35204)

Hi Kevin,

Are you good with running a punch at 600' instead of perforating in order to minimize risk to surface casing? I assume there is no major price difference between the two options, let me know if this is not the case.

We would then run tubing to 1000' and cement to surface in the annulus. Is it practical to then cement to surface inside the 7" during the same job, or would that be a separate top job afterward?

Historically the well has seen 2psi BH pressure, but Chris said there is no pressure now.

Thanks,

Renee

From: Jacobson - DNR, Eric <eric.jacobson@state.co.us>
Sent: Monday, February 4, 2019 11:29 AM
To: Renee Call <Renee.Call@nblenergy.com>
Subject: EXTERNAL: Re: NBL Modified Procedure: Guttersen State D16-63-1HN (35204)

Renee

I am good with not cutting the 7" casing. The base of the Fox Hills is at 519'. I propose the following, so there is wellbore to wellbore isolation..

Perf at 600' and pump 70 sacks leaving 40 sacks in the casing. This should be a plug from 600' to 400' inside and outside of the casing.

Pump 10 sacks at surface.

Renee

I would like to perforate at 767' or deeper and pump cement to get a wellbore to wellbore isolation across the shoe. Let me know how you choose to do this, and I can put it in our files.

Thanks Eric

On Thu, Jan 31, 2019 at 3:13 PM Renee Call <Renee.Call@nblenergy.com> wrote:

Eric,

The procedure calls for cutting the 7" production casing, however we would like to leave this in place and pump the surface plug as a balance plug from 1025' to surface inside the 7" casing.

Kind regards,

Renee Call

Production Engineer

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Eric Jacobson, PE