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## Re: SWN: Diamond T Sheep 7-91 1-26

1 message

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**Krabacher - DNR, Jay** <jay.krabacher@state.co.us>

Sun, Sep 14, 2014 at 9:30 AM

To: Matt Briggs <Matt\_Briggs@swn.com>

Cc: "david.andrews@state.co.us" <david.andrews@state.co.us>

Thanks, Matt.

The CBL shows the TOC as you mentioned earlier. Your email earlier today summarizes our conversation adequately.

Regards,

Jay Krabacher

On Sun, Sep 14, 2014 at 6:16 AM, Matt Briggs <Matt\_Briggs@swn.com> wrote:

David,

We ran 9-5/8" 40# intermediate casing to 5681' MD. During displacement of the cement, we lost circulation. We ran a CBL and located TOC at 2368' MD. The 13-3/8" surface casing seat is at 1296' MD and planned TOC was at 700' plus 20% over caliper. The CBL is attached. As per the conditions of approval on the Form 2, cement was to lap 200' into the surface casing. Jay and I have discussed remediation options such as perforating above TOC and pumping a remedial cement job. SWN is very uncomfortable with the risk of perforating the intermediate casing. We are drilling an exploratory well in an area with little information. If we had a well control event, we would have to rely on squeeze perforations holding reservoir pressure. Jay agreed and he decided that drilling ahead without perforating was the better course of action. A second option for remediation is bullheading cement down the 13-3/8" x 9-5/8" annulus. This option will still be available at a later date.

Matt Briggs

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Jay Krabacher

N W Area Engineer



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