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# Prairie Provident Mouny Coty 2K-02 - ACW Variation Request



Clive Mountford <cmountford@vertex.ca>

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Good Afternoon,

Prairie Provident has encountered some unforeseen well conditions during the abandonment operations of Prairie Provident Mouny Coty 2K-02 and is requesting a variation to the ACW as originally submitted.

Details of well conditions encountered:

1. Found a high tubing leak in the well that is preventing timely well kill operations
2. Found fill/scale in the tubing at 3724 mKB preventing the plug in the PXN nipple at 4599.88 mKB from being pulled to allow for kill operations to commence.

Variation request

1. Prairie Provident has re-written the ACW to include the history of the abandonment operations to date (attached)
2. Prairie Provident requests a deviation from the original ACW in the form of 2 potential options (detailed procedures in the revised ACW)
  - a. Option 1:
    - i. Kill well with coiled tubing
    - ii. Cut off tubing at 3724 mKB
    - iii. Fish the remaining tubing and packer latch assembly
    - iv. Run and set permanent bridge plug as close to permanent packer as possible
    - v. Conduct cement bond log
    - vi. Circulate 30 m of cement on to the bridge plug
    - vii. Cut and cap the well
  - b. **Option 2 (RECOMMENDED):**
    - i. Kill well with coiled tubing
    - ii. Cut off tubing at 3724 mKB
    - iii. Run and set permanent bridge plug as close to casing stub as possible (~3720 mKB)
    - iv. Conduct cement bond log
    - v. Circulate 30 m of cement on to the bridge plug

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**3. Prairie Provident recommends Option 2 for the following reasons**

- a. The fishing operations in option 1 come with inherent risks.
  - i. Jarring operations at these depths are dangerous in that the weights being jarred are on the extreme end of the scale and pose risk to personnel and equipment
  - ii. Jarring operations on sour wells are dangerous in that the wellbore must be open during the operations for extended periods of time
- b. There is no risk to the environment in setting the bridge plug high at these depths, with the caveat that the cement integrity in the wellbore is found to provide adequate isolation from surface and subsurface fresh water aquifers. This will be confirmed with a cement bond log run after setting and pressure testing the bridge plug.

Regards,

**Clive Mountford** P.Eng.  
Chief Engineer  
Vertex Resource Group Ltd.  
2000, 555 4th Avenue SW  
Calgary, AB T2P 3E7

**P 403-229.3969 ext753**  
**D 403.206.9762**  
**C 403-999-5606**  
**F 403.244.1202**

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