From:	Christopher Gagnon
To:	Pauline DeJong
Cc:	DST_JUS_OROGO; MacRae, Duncan
Subject:	RE: Decision: Variation 5 - ACW-2022-SOG-M-31-WID1122
Date:	February 9, 2024 5:27:44 PM
Attachments:	image001.png

Hi Pauline,

Our steps to meet the proposal would be:

1. Run in hole with tubing and land at 125 mKB. Use the tubing hanger to protect the BOP's in case the cement is accidently over displaced.
2. Move on cementers. Mix 1 m3 of cement and balance in the well.
3. Pull out of hole with tubing.
4. Squeeze cement. Once cement has flat lined, shut down for the day.
5. After the cement has had 24 hours to cure, pressure test the well to 7 Mpa for 10 minutes.
6. Move on a power swivel and drilling equipment.
7. Run in hole with a blade bit or similar on heavy weight drill collars.
8. Tag cement top and record starting position.
9. Rig in power swivel and begin drilling.
10. Drill out cement to 90 mKB. Stop drilling if green (uncured) cement is encountered. Give cement more time to set.
11. Once 90 mKB is reached, pull out of well.
12. Rig out drilling equipment.
13. Move on wireline.
14. Run in hole with 1 meter perforating gun. Apply 2 MPA pressure to the well, and perforate 69.5 to 70.5 mKB. Pull out of hole with spent gun.
15. Apply 2 Mpa to the well. If it starts feeding, skip next step.
16. Run in hole with 1 meter perforating gun. Apply 2 MPA pressure to the well, and perforate 70.5 to 71.5 mKB. Pull out of hole with spent gun.
17. Evaluate feed rate into the perforations. Discuss cementing plan with Calgary office.
18. Run in hole with tubing and land at 90 mKB. Use the tubing hanger to protect the BOP's in case the cement is accidently over displaced.
19. Move on cementers. Mix +/- 600 Litres of cement. Note that actual volume mixed will be calculated in field and depend on the feed rate and the minimum capacity of the cementing equipment.
20. Balance cement in the well. Excess cement is to be sent to the vacuum truck and mixed with sugar.
21. Pull out of hole with the tubing.
22. Squeeze cement. Once cement has flat lined, shut down for the day.
23. Next morning, run in hole and probe cement top.

24. Pressure test the well to 7 Mpa for 10 minutes.
25. Rig out the service rig. Re install the wellhead.
26. Release all services.
27. Take pictures as a record that the site was left in good condition.
28. Well is to be checked for gas migration in the frost free months of 2024.

Please let me know if you have any questions or concerns.

Thank you,

Christopher Gagnon, EIT
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From: Pauline DeJong <Pauline_DeJong@gov.nt.ca>
Sent: Friday, February 9, 2024 2:26 PM
To: Christopher Gagnon <Christopher@elminc.ca>
Cc: DST_JUS_OROGO <OROGO@gov.nt.ca>; MacRae, Duncan <dmacrae@alvarezandmarsal.com>
Subject: RE: Decision: Variation 5 - ACW-2022-SOG-M-31-WID1122

Hi Christopher –

Please send the steps in an email. At this point, I don't think we need a complete re-write of the program (unless you are doing it for the rig crew anyway, in which case feel free to send it to us), but the steps will be helpful when we review the daily reports and eventually for the well history file.