From: Diana Burn - DNR
To: Matt Mount
Cc: gw drilling1; Stephen Jolly; Jeff Lofton; Miracle Pfister; Geoff Lee; Natalie Svendsen; DeAnna Baird; Eric Jacobson - DNR; Penny Garrison - DNR; Sabrina Trask - DNR
Subject: RE: Sack KE 21-319HC - Unplanned Sidetrack - API 05-123-46995
Date: Tuesday, July 17, 2018 12:33:34 PM

Please proceed as proposed. Why was surface casing set at 1524' when the approved APD was for 1700'?

Thanks,
Diana

From: Matt Mount [mailto:mmount@gwogco.com]
Sent: Tuesday, July 17, 2018 7:22 AM
To: diana.burn@state.co.us
Cc: gw drilling1; Stephen Jolly; Jeff Lofton; Miracle Pfister; Geoff Lee; Natalie Svendsen; DeAnna Baird
Subject: Sack KE 21-319HC - Unplanned Sidetrack - API 05-123-46995

Diana

As we discussed on the phone Great Western is proceeding with the unplanned sidetrack of the above referenced horizontal Codell well.

Please review the following information.

i. An 8-1/2" hole was drilled to the planned TD of 12,322 / 7639' MD/TVD. Unexpected geologic structure caused the bottom 1500 – 2000' of lateral to be positioned in the Carlisle shale rather than the Codell sand.

ii. Great western will carry out an open hole sidetrack and re-drill the well so that the lateral is in the Codell sand.

iii. Operations carried out to date:

a.13-1/2" surface hole was drilled to 1524' MD/TVD
b.9-5/8" surface casing was run and cemented at 1524' MD/TVD
c.8-1/2" hole was drilled to TD of 12,322 / 7639' MD/TVD.

iv. No fish will be left in the hole.

v. This will be an open-hole sidetrack and no cement plugs will be set.

vi. No cement plugs will be set.

vii. Estimated sidetrack point will be 9200' / 7619 MD/TVD.

viii. The proposed objective formation will not be changed and will be the Codell.

ix. To avoid intersecting the original hole, the sidetrack wellbore and the BHL for the sidetrack will be moved approximately 50' to the South as shown in the attachment. The mineral interest owners will not change from the original BHL.

Additional paperwork and electronic forms/reports related to this sidetrack will be submitted as required.

Please contact me with any questions or if additional information is required. Thank you

Matt Mount
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