

Julie Webb

Subject: FW: State Antelope E14-31-30XRLNB - Surface Hole Sidetrack - API #05-123-51160

Importance: High

From: Diana Burn - DNR <diana.burn@state.co.us>

Sent: Tuesday, February 1, 2022 10:51 AM

To: Andy Van Wyk <avanwyk@civiresources.com>

Cc: Nick McFarland - DNR <nick.mcfarland@state.co.us>; Andrew Stone - DNR <andrewg.stone@state.co.us>; Penny Garrison - DNR <penny.garrison@state.co.us>

Subject: RE: State Antelope E14-31-30XRLNB - Surface Hole Sidetrack - API #05-123-51160

Please proceed as proposed. Once the APD is uploaded, please send the document # to Andrew Stone.

Thanks,
Diana

From: Andy Van Wyk <avanwyk@civiresources.com>

Sent: Tuesday, February 1, 2022 10:24 AM

To: diana.burn@state.co.us

Subject: State Antelope E14-31-30XRLNB - Surface Hole Sidetrack - API #05-123-51160

Good Morning Diana,

As we discussed on the phone this morning, after drilling the surface hole on our State Antelope E14-31-30XRLNB well we learned that the wellbore was not drilled to the intended well plan due to an error in transferring the directional plan data by the directional driller on the rig. After reviewing the as- drilled directional survey, we would like to drill a sidetrack surface hole that follows the original intended well plan.

With your permission, our plan is to set a cement plug from 650' MD to 300' MD. Our understanding is the base of the Fox Hills formation is shallow in this area, at a depth of approximately 160' TVD. Once the cement plug sets we will attempt to sidetrack at 300' MD with the intent to drill a surface hole that represents the original well plan and lands at the intended target.

We are hoping to start our cement plug procedure this morning. If you could please provide your approval to this plan I would greatly appreciate it.

Explanation of the situation that has resulted in the need to sidetrack: The wellbore was not drilled to the intended well plan due to an error in transferring the directional plan data by the directional driller on the rig. After reviewing the as- drilled directional survey, we would like to drill a sidetrack surface hole that follows the original intended well plan.

Total measured depth reached in the wellbore being plugged back: 1,724' MD

Casing set – size(s) and measured depth(s): No casing set.

Description of fish in the hole (if any) – including top and bottom measured depths: None

Description of proposed plugs: setting measured depths, heights, and cement volumes:

350' cement plug, set from 650' MD – 300' MD
295 sacks Class G cement, 15.8 ppg slurry, 1.184 cu ft/sk yield,
197 BBLs of 17.5 ppg Spacer

Type of cement to be used for all plugs, including slurry weight (ppg) and yield (cf/sk):

295 sacks Class G cement
15.8 ppg slurry
1.184 cu ft/sk,
197 BBLs of 17.5 ppg Spacer

Measured depth of proposed sidetrack kick-off point: 300' MD

Proposed objective formation(s) for sidetrack hole: Surface hole, target TD of 1625' MD

BHL target for sidetrack hole: Same BHL target as original wellbore.

Thank you for your help,

Andy

Andy Van Wyk

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