

Randy Edelen

From: Diana Burn - DNR <diana.burn@state.co.us>
Sent: Monday, June 16, 2014 11:12 AM
To: Timothy Jayne
Cc: Keith Caplan; Randy Edelen; Katey Krupka; Gary Johnson; Barbara Westerdale - DNR; Sarah Freeman - DNR; Mike Hickey - DNR
Subject: RE: Cade 21- State Whitetail 34-31-36HNB- Sidetrack

Please proceed as proposed – ‘paperwork’ should be here by mid-afternoon please.

Thanks,
Diana

From: Timothy Jayne [mailto:TJayne@bonanzacrk.com]
Sent: Monday, June 16, 2014 9:35 AM
To: 'Diana Burn - DNR'
Cc: Keith Caplan; Randy Edelen; Katey Krupka; Gary Johnson
Subject: Cade 21- State Whitetail 34-31-36HNB- Sidetrack

I called COGCC at 11:33 AM on June 15, 2014 and left a message with Diana Burns to side track API NUMBER: 05-123-38893-00 STATE WHITETAIL 34-31-36HNB due to low build rates in the curve and we were not going to be able to hit the Niobrara B target as planned. See below responses to questions needed to be answered. ****Note the well has not be sidetracked at the moment. We have pumped cement plug and well will not be sidetracked until 11:00 PM tonight.*

Explanation of the situation that has resulted in the need to sidetrack

Drilled down to 6222 ft. Made several attempts to establish good build rates with changing out BHAs. The more of the well that was drilled the further we got behind in drilling the curve. B the time we found the A-chalk to determine where the formations were going to come in at 50 degree doglegs were needs to reach target. It was then decided to plug pack the well and make another run at the curve.

Total measured depth reached in the wellbore being plugged back
6222 ft.

Casing set – size(s) and measured depth(s)
9-5/8" 36# J-55 ST&C set at 471 ft.

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
A 17.5 lb/gal Cement plug will be set from 5720 ft. to approx. 6220 ft. for a total cement volume of approx. 39.5 bbls.

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

FLUID SPECIFICATIONS

Spacer

= 10.0 bbls Fresh Water @ 8.34 ppg

PLUG NO.	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
1	222	1.11	= 200 sacks Class G Cement + 0.4% bwoc F 0.6% bwoc CD-32 + 0.01 gps FP-6L + 20% bwoc Silica Sand, 100 mesh, Sacked + 33 Fresh Water

Displacement

= 65.0 bbls Fresh Water @ 8.34 ppg

CEMENT PROPERTIES

	PLUG NO.1
Slurry Weight (ppg)	17.50
Slurry Yield (cf/sack)	1.11
Amount of Mix Water (gps)	3.75
Amount of Mix Fluid (gps)	3.76

PLUG GEOMETRY

	PLUG TOP		PLUG BOTTOM	
1	5720 ft	to	6220 ft	with 8.75 inch Open Hole PDSqT = 179 ° PDST = 213.32 ° F

Measured depth of proposed sidetrack kick-off point
~5700 ft.

Proposed objective formation(s) for sidetrack hole – new or same as the wellbore being abandoned
Same as being abandoned, Parkman and Sharron springs to reach targeted Niobrara B Chalk.

BHL target for sidetrack hole – new or same as the wellbore being abandoned (NOTE: a change in the BHL must be reviewed and approved by COGCC Permitting prior to completing the sidetrack. Drilling a sidetrack to an unapproved BHL could result in an NOAV, plugging the well, or both).

Same as previous plan. 470 ft. FNL and 1030 ft. FWL in the NW 1/4, NW 1/4 of Section 36, T6N, R62W, SPM; Latitude: 40.45033°N Longitude: -104.26916°W

Best Regards,

Timothy Jayne

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