



STATE OF COLORADO

Cade 25- North Platte O-K-24HNB- Sidetrack

Timothy Jayne <TJayne@bonanzacrk.com>

To: Diana Bum - DNR <diana.bum@state.co.us>, "Steve.Jenkins@state.co.us" <Steve.Jenkins@state.co.us>

Cc: Keith Caplan <KCaplan@bonanzacrk.com>, Randy Edelen <REdelen@bonanzacrk.com>, Katey Krupka <KKrupka@bonanzacrk.com>, Gary Johnson <G.Johnson@bonanzacrk.com>

Wed, Jul 16, 2014 at 8:20 AM

I called Steve Jenkins at 7:52 AM and Diana Bum at 7:54 AM with COGCC on July 16, 2014 and left a message to sidetrack API NUMBER: 05-123-39519-00 NORTH PLATTE O-K-24HNB due to low build rates in the curve and we were too close to the hard line to the East established to stay away from federal minerals. Steve Jenkins returned my call at 8:12 AM and gave me verbal approval to proceed. See below responses to questions needed to be answered.

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

Drilled down to 6551 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 and the closer we approached the hard line to the east. We were needing 30 degrees to land at planned target and were ~5 ft. from hard line.

Total measured depth reached in the wellbore being plugged back

6551 ft.

Casing set – size(s) and measured depth(s)

9-5/8" 36# J-55 ST&C set at 466 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 5745 ft. to approx. 6551 ft. for a total cement volume of approx. 59.9 bbls.

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

Chemical Composition			
Chemical	Concentration	Unit	Function
Colorado G Cement	94.00	lb/sk	Cement
CD-3	0.75	% bwoc	Dispersant
CR-300	0.10	% bwoc	Retarder

Calculations	
Surface Density	17.5 Lb/Gal
Downhole Density	17.5 Lb/Gal
Sack Weight	94.00 Lb/Sk
Dry Weight	94.80 Lb/Sk
Dry Yield	1.02 Ft3/Sk
Water	3.35 Gal/Sk
Total Fluids	3.35 Gal/Sk
Surface Yield	0.94 Ft3/Sk
Downhole Yield	0.94 Ft3/Sk

Measured depth of proposed sidetrack kick-off point
 ~5745 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 2642 ft. FML in the NE 1/4, NW 1/4 of Section 24, T5N, R63W, SPM; Latitude: 40.390599°N Longitude: -104.384823°W

Best Regards,

Timothy Jayne

Drilling Engineer

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