

RE: Ram Land 30K-243 well, API 05-123-38008

Diana Burn - DNR [diana.burn@state.co.us]

Sent: Monday, May 19, 2014 4:33 PM**To:** Adam P. Conry; Liz Lindow**Cc:** Steve Jenkins [steve.jenkins@state.co.us]; Sarah Freeman - DNR [sarah.freeman@state.co.us]; Jane Stanczyk - DNR [jane.stanczyk@state.co.us]

Please proceed as proposed.

Thanks,
Diana

From: Adam P. Conry [mailto:Adam.Conry@pdce.com]**Sent:** Monday, May 19, 2014 4:14 PM**To:** diana.burn@state.co.us; Liz Lindow**Subject:** Ram Land 30K-243 well, API 05-123-38008

Diana,


During the drilling of the Ram Land 30K-243 well, API [05-123-38008](#), PDC encountered difficulties after running 7" casing and attempting to drill out and not have the ability to drill further into the lateral we POH with directional tools, it was noticed that the bit and bottom of the mud motor parted and stayed in the well. The decision was made to plug back the hole after multiple failed fishing attempts.

Ram Land 30K-243 well, API [05-123-38008](#)

- i. Explanation of the situation that has resulted in a lost hole and the need to plug the lost hole
 - a. POH with bottom of mud motor missing attempted to fish bit, motor housing and rotor with no success, it was decided to P&A well.
- ii. Total measured depth reached in the lost hole
 - a. 7617'
- iii. Casing set – size(s) and measured depth(s)
 - a. Surface Casing 9-5/8" 36#/ft J-55 set at 926'
 - b. Intermediate Casing 7" 26#/ft HCP-110 set at 7083'
- iv. Description of fish in the hole (if any) – including top and bottom measured depths
 - a. Bottom of fish at 7101' Top of fish 7075'. Fish drill bit, directional mud motor bearing housing, and rotor, with cross over overshot and mill around the rotor.
- v. Description of proposed plugs: setting measured depths, heights, and cement volumes
Type of cement to be used for all plugs, including slurry weight (ppg) and yield (cf/sk)
 - a. Cement plug 1 set from 6950' to 6650': 50 sx (15.8ppg yield 1.15 cuft/sx)
 - b. Cement plug 2 set from 4300 to 3600': 150 sx (13.5ppg yield 1.71 cuft/sx)
 - c. Cement plug 3 set from 1050' to 850': 50 sx (15.8ppg yield 1.16 cuft/sx)
 - d. Cement plug 4 set at surface: 10 sx (15.8ppg yield 1.16 cuft/sx)
- vi. Proposed objective formation(s) for replacement well – new or same as lost hole
 - a. Niobrara

- vii. **BHL target for replacement well – new or same as lost hole (NOTE: a change in the BHL must be reviewed and approved by COGCC Permitting prior to completing the replacement well. Drilling a well to an unapproved BHL could result in an NOAV, plugging the well, or both)**
- a. **bottom hole changed from 2154' fnl & 780' fwl to 2154' fwl & 901' fwl to avoid vertical wells along the new well path.**

Regards,

 Adam Conry | Drilling Engineer - Denver | PDC Energy | O: 303-860-5800 | C: 303-883-3351 | F: 303-860-5838
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"To improve is to change, to be perfect is to change often." Winston Churchill

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