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Date: 08/15/2014 04:47 PM  
Subject: EXTERNAL: RE: Heartland State H01-74-1HN (API 05-123-39550) - Sidetrack Information

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Please proceed as proposed.

Diana

**From:** [BDear@nobleenergyinc.com](mailto:BDear@nobleenergyinc.com) [mailto:[BDear@nobleenergyinc.com](mailto:BDear@nobleenergyinc.com)]  
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**Subject:** Heartland State H01-74-1HN (API 05-123-39550) - Sidetrack Information

All,

I was given a verbal yes from Diana Burn (COGCC) and Stuart Ellsworth (COGCC) to proceed with sidetrack on the Heartland State H01-74-1HN (API 05-123-39550).

i The reason for sidetrack follows: While lateral drilling in 6.125" hole @ 11,050' we encountered a fault. While tripping out of hole we got stuck @ 11,014'. The decision was made to fish. The drill string was cut at 7569' and an overshot run with jars to latch into fish. After numerous attempts to free fish, decision was made to abandon initial well (Nio B) and do a cased hole sidetrack to the Nio C.

ii. Total measured depth reached: 11050'

iii. Casing set: conductor – 96' (16", 42#), surface- 735' (9 5/8", 36#), intermediate – 7536' (7", 26#)

iv. Description of fish: 6.125" bit, DP, HWDP, Motor, MWD, Rotary Steerable (Total length approx. 3,445') Approx. top of fish 7569', approx. bottom fish 11014'.

v. Cement plug: None to be set, but a bridge plug set @ 7470' to isolate first lateral.

vii. Proposed depth of sidetrack kickoff: 7158'

viii. Proposed objective for sidetrack: Target Nio C, steer around fish and finish drilling lateral section to original BHL.

ix. BHL will not change from the original lateral.

Any questions please don't hesitate to call.

Thanks,