From: Diana Burn - DNR
To: Carlile, Justin
Subject: [EXTERNAL]RE: Grimm Motocross Unplanned Sidetrack Information
Date: Monday, May 05, 2014 8:54:02 AM

Please proceed as proposed. New APD should be received today.

Thanks,
Diana

From: Carlile, Justin [mailto:Justin.Carlile@conocophillips.com]
Sent: Saturday, May 03, 2014 8:04 PM
To: Diana.burn@state.co.us
Subject: FW: Grimm Motocross Unplanned Sidetrack Information

Diana,

May we please get a verbal approval to perform an unplanned sidetrack. The paperwork is to follow as per the requirement.

Justin Carlile
ConocoPhillips RBU
Regulatory Specialist
Cell #: 432.202.4112
Office #: 281.206.5770

From: Benge, John F
Sent: Saturday, May 03, 2014 8:53 PM
To: Carlile, Justin
Subject: Grimm Motocross Unplanned Sidetrack Information

i. Unable to achieve build rates to land horizontal in zone. Motor was yielding ~12°/100'. When drilling past 7391' the motor yield dropped for the next 350'. The build rates required to land at the planned TVD was too high for the motor in the hole >16°/100'. Will place a mechanical whipstock and cement it with 200' of cement above it. Bottom of whipstock tubing will be 7929'.

ii. 7957' MD / 7880' TVD

iii. 9 5/8" @ 2258'

iv. No fish in hole unless you count the whipstock (top 7232' bottom of tubing below is 7929')

v. Plug will fill hole to 7032' MD, 250 sacks. Bottom at 7959' (the cement will fall down the hole)

vi. Plugcem 15.8 ppg yield is 1.52 ft^3/sk

vii. 7232' MD/ 7225' TVD

viii. Same objective

ix. Attached new directional plan

John Benge
Drilling Engineer CO/WY
Email: John.Benge@CoP.com
Phone: 713.826.1359