

Michael L. Brown

From: "Diana Burn - DNR" <diana.burn@state.co.us>
To: "Chad Fitzgerald" <chad.fitzgerald@whiting.com>
Cc: "Scott Webb" <ScottW@whiting.com>; <ml_brown@bresnan.net>; "Cole Orley" <Cole.Orley@whiting.com>; "Dirk Sutphin - DNR" <dirk.sutphin@state.co.us>; "Katrina Andrus - DNR" <katrina.andrus@state.co.us>; "Barbara Westerdale - DNR" <barbara.westerdale@state.co.us>
Sent: Monday, February 29, 2016 3:46 PM
Subject: RE: Horsetail Federal 07F 0639 Sidetrack Request
 Please proceed as proposed.

Thank you,
 Diana

From: Chad Fitzgerald [mailto:chad.fitzgerald@whiting.com]
Sent: Monday, February 29, 2016 3:31 PM
To: Diana Burn - DNR
Cc: Scott Webb; ml_brown@bresnan.net; Cole Orley
Subject: Horsetail Federal 07F 0639 Sidetrack Request

Sidetrack Request

HORSETAIL FEDERAL 07F 0639 – API: 05-123-41783-00

PROPOSED OR COMPLETED OPERATIONS:

Diana,

While drilling in the curve we encountered a fault and the build rates dropped off and we are unable to get the build rates needed to land in the Codell. With the current build rates we would end up landing 15'-20' low of our target zone. The intent is to sidetrack off a cement plug at 5,121' and finish drilling the well to its original BHL. I have attached the schematic for the sidetrack request below.

- **TOTAL DEPTH REACHED:**
- 6,226' (MD) 6012' (TVD)
- **CASING:**
- **SURFACE CASING:**
- **SIZE:** 9.625" 36PPF J-55 LTC
- **DEPTH:** 2,027'
- **DESCRIPTION OF FISH IN THE HOLE:**
- NO FISH TO REPORT
- **PLUG BACK DEPTHS:**
- **PLUG_1:**
- FROM 6226' TO 5476'
- 295 SXS
- 15.8 PPG (1.16 CUFT/SX)
- SET USING DRILL PIPE @ 6226'
- HOLE SIZE = 8.5"
- **PLUG_2**
- FROM 5476' TO 4726' (NIOBRARA TOP EST AT 5690')
- 340 SXS
- 17 PPG (0.99 CUFT/SX)
- SET USING DRILL PIPE @ 5476'
- HOLE SIZE = 8.5"
- **SIDETRACK KICK OFF POINT:**

- 5121' (MD)
- **BHL TARGET FOR SIDETRACK HOLE:**
- (SAME TARGET) 600' FNL AND 1960'FWL S6-T10N-R57W
- **VERBAL APPROVAL TO SIDETRACK:**
- PENDING

Chad Fitzgerald

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