

Michael L. Brown

From: "Scott Webb" <ScottW@whiting.com>
To: <ml_brown@bresnan.net>
Sent: Friday, October 16, 2015 7:50 AM
Subject: FW: Sidetrack Request Razor Federal 12G 1311A - API 05 123 38546 00
From: Diana Burn - DNR [mailto:diana.burn@state.co.us]
Sent: Thursday, October 15, 2015 4:27 PM
To: Chad Fitzgerald
Cc: Scott Webb; Holly Taylor - DNR; Dirk Sutphin - DNR; Barbara Westerdale - DNR
Subject: RE: Sidetrack Request Razor Federal 12G 1311A - API 05 123 38546 00

Please proceed as proposed.

Thanks,
Diana

From: Chad Fitzgerald [mailto:chad.fitzgerald@whiting.com]
Sent: Thursday, October 15, 2015 1:24 PM
To: Diana Burn - DNR
Cc: Scott Webb
Subject: Sidetrack Request Razor Federal 12G 1311A - API 05 123 38546 00

PROPOSED OR COMPLETED OPERATIONS:

Diana,

While running our 7" intermediate string we became stuck in the Sharon Springs. After getting unstuck and coming out of the hole we were unable to circulate due to the mud being dehydrated and clumped up causing the formation to fall in. We then laid down the 7" casing and picked up a reaming assembly to go in the hole and clean the dehydrated mud out and replace it with new clean mud. While tripping out of the hole with the reaming assembly we were not able to trip out with rotating and circulating due to the hole coming apart. The intent is to sidetrack off a cement plug at 5,200' and avoid the old hole where the mud reacted with the formations and drill to the same BHL

TOTAL DEPTH REACHED:

6,260' (MD) 5,772' (TVD) 93.72 degrees 180 azimuth

CASING:

SURFACE CASING:

SIZE: 9.625" 36PPF J-55 LTC

DEPTH: 1,980'

DESCRIPTION OF FISH IN THE HOLE:

NO FISH TO REPORT

PLUG BACK DEPTHS:

PLUG 1:

FROM 5300' TO 4400' MD (NIOBRARA TOP EST AT 5765' TVD)

376 SXS

15.8 PPG (1.15 CUFT/SX) 15% EXCESS

SET USING DRILL PIPE AND 1500' 2-7/8" TUBING @ 6260'

HOLE SIZE = 8.75"

PLUG 2:

FROM 4400' TO 3500' MD

437 SXS

17.0 PPG (0.99 CUFT/SX) 15% EXCESS

SET USING DRILL PIPE AND 1500' 2-7/8" TUBING @ 5360'

HOLE SIZE = 8.75"

SIDETRACK KICK OFF POINT:

3500' (MD)

BHL TARGET FOR SIDETRACK HOLE:

(SAME TARGET) 100' FNL AND 1814'FEL S1-T10N-R58W

VERBAL APPROVAL TO SIDETRACK:

PENDING

Chad Fitzgerald

Drilling Engineer

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and its wholly owned subsidiary

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10/16/2015