

5/16/2014

Sidetrack Procedure Sidetrack around fish

Field: Parachute

Well: PA 43-3

Rig: Aztec 1000

BACKGROUND INFORMATION:

Well Information:

- Total Depth at 3585' MD
- Primary surface casing depth at 1230' MD
- Open hole sizes:
 - 8-3/4" from 1230' to 3585'
- Proposed Kick-off point around fish: 1753'

Geological Importance: (Adjusted for New MD)

- Top of "G" Sand at 2241' MD
- Top of Mesaverde at 4729' MD
- Top of Gas at 6033' MD (approximate)

Fish Information:

- Top of fish at 2153' MD
- Bottom of fish at 2183' MD
- Fish Length – Approximately 30'
- Fish components (bottom to top):
 - 8 3/4" PDC Bit
 - 6 3/4" Steerable Motor (Parts of it)

DISCUSSION:

While tripping out of the hole to work a tight spot the BHA became stuck in the hole. While in the process of attempting to free the stuck BHA the downhole motor parted resulting in leaving part of the motor and the bit downhole. We were able to retrieve the rest of the BHA. Due to the highly unlikely chance of recovering the fish, the decision was made to set a 500' cement plug across the top of the fish to allow us to kick off and drill around the fish to the original planed bottom hole location.

Cement plug details as follows:

Cement Plug #1: 2153' – 1653'

PlugCem Fluid Density 17.0 ppg slurry

Class G Cement with additives: CFR-3 (Dispersant) & HR-5 (Retarder)

Slurry Yield: 0.99 ft³/sk

3.75 gal/sk water

Calculated Fill: 500 ft

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After sidetrack, if no drilling problems are encountered, drilling will continue with 8 3/4" bit as per plan to the original bottom hole location as previously permitted. See attached drilling program for updated measured depths, true vertical depths did not change.

General Procedure.

1. RIH and set 500' balanced cement plug.
2. WOC.
3. RIH tag plug. Dress off plug to approximately 1753' or until competent cement is encountered
4. Sidetrack around fish with 8 3/4" assembly with KOP @ ~1753'. TOF at 2153'
5. Continue drilling to TD. (As per plan with original bottom hole location)
6. Cement program: (normal field excesses to be used)
 - Lead: 300' Above top of Mesaverde (4429').
243 sacks of cement

 - Tail: 300' Above approximate Top of Gas. (5733')
622 sacks of cement

TOC to be at 4429'

NOTE: Verbal approval was received from Dave Andrews (COGCC) on 05/16/14.