

NOV 18 2013



Central Vacuum Unit #132 Sidetrack/Intercept
 API# 30-025-23801

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Preface:

A Sidetrack/Intercept operation will be performed on this well due to failed attempts to remediate the parted 4 ½" casing. OCD required Intercept/Plug depths are 2,800' for top of bottom plug and 1,600' and 1,500' for top plug.

Current Conditions:

8 5/8" Surface casing set at 397'.

4 ½" 11.6# production casing set at 4,750'. TOC at 2,650' via temperature survey. Current top of 4 ½" casing stub at 498'.

2 3/8" tubing and #4 flat ESP cable from 491' to 551' and 551' to 4,240'. 2 3/8" tubing, #4 flat cable and ESP equipment from 4,300' to 4,408'.

Procedure:

Notify OCD 24 hours prior to rigging up on well and 24 hours prior to pumping all cement

1. Move in and rig up pulling unit.
2. Make bit trip and clean out existing sidetrack to 628'
3. Run gyro surveys from +/- 397' to 628'.
4. Pull workstring and bit.
5. Run in hole with 7" 26# casing to 628'.
6. Cement casing to surface. Ensure enough cement is on location to circulate cement to surface.
7. Rig down and move out daylight pulling unit and equipment.
8. Move in and rig up Key 24 hour pulling unit & equipment.
9. Run in hole with Scientific Drilling directional BHA with Mag Ranging tools.
10. Drill out float collar and 7" casing.
11. Continue drilling new 6 1/8" open hole from 628' to +/- 2,850'. Intercept old wellbore at 1,500', 1,600' and +/- 2,800'.
12. Mill into old wellbore at +/- 2,800' or slightly deeper.

Note: Be prepared for flow and/or pressure once communication with old wellbore has been established.

13. Kill well as required. Pull out of hole with drilling/milling BHA
14. Run in hole with 4 ¼" OD inflatable packer. Set packer at 2,680'.
15. Establish injection rate. Mix and pump 200 sx class C cement with 2% Calcium Chloride. Displace cement to 2,700'. Monitor annulus for flow while cementing. Displace cement to 2,700'. Shut well in for 12 hours.
16. Release packer, tag cement. **Report top of cement to OCD.**

NOV 19 2013

17. Pull out of hole with packer.
18. Perforate/mill squeeze holes at +/- 1,600' and 1,500'
19. Run in hole with inflatable packer to 1,550'. Set ~~retainer~~ **PACKER**.
20. Establish circulation into perfs/hole at 1,600' and out of holes at 1,500'.
21. Spot 100' cement plug in old wellbore and new wellbore with +/- 30 sx class C cement with 2% Calcium Chloride.
22. Release packer. Slowly pull out of hole with drill pipe and packer.
23. Shut well in for 12 hours.
24. Run in hole with open ended drill pipe and tag cement. **Report top of cement to OCD**
25. Pull up hole to +/- 700'. Circulate 7" casing full of cement with 150 sx class C cement.
26. Pull out of hole laying down drill pipe.
27. Top fill casing with cement to surface.
28. Install B-1 Adapter flange with ball valve and tapped bull plug.
29. Rig down and move off pulling unit & equipment.
30. Notify FMT to dig out and cut off wellhead in accordance with OCD guidelines

Accepted for Record Only

Mapey & Brown
11/18/2013