

Coring/DST Procedure

Time (est)

- 5 hrs 1. Perform Hi-Resolution mud logging from 2930' to 3075' while drilling 12-1/4" hole.
WOB = 20,000 RPM = 60 ROP = approx. 30'/hr
- 2 hrs 2. TOH w/ 12-1/4" bit and drilling assembly @ 3075'
- 8 hrs 3. Pick up coring assembly. Check spacing between core bit and PVC liner.
Install survey tools into non-mag drill collars.

Coring assembly:

7-7/8" X 3-1/2" RC-3 Core bit
6-1/4" X 30' Core barrel w/ PVC inner barrel
2 - Non magnetic drill collars
1 - Hydraulic Jar

4. TIH w/ coring assembly to core point @ 3075'.
5. Begin coring oriented core w/ approx. 5K = WOB, 40-50 = RPM.
Core from 3075' to 3105'
6. TOH w/ core #1. Lay down core. Cut and place core in desorbition canisters.
- 18 hrs 7. Pick up DST assembly, spacing out packers as needed to test interval.

DST Assembly:

Length (ft)

4	Blanked off running case
25	Flush joint anchor
6	Open hole packer
6	Open hole packer
2.8	VR Safety Joint
5	Hydraulic Jar
14	Running Case
5	Hydrospring Tester
7	Dual Fluid Sampler
90	Drill Collars
1	Impact Reversing Sub
to surface Drill Collars & Drill Pipe	

8. TIH w/ DST assembly slowly so as not to surge or breakdown test interval.
NOTE:
Check drill pipe every 10 stands for leaks.
Tools are closed when TIH.
9. Tag bottom to verify no fill. Load drill pipe w/ nitrogen to provide cushion for initial flow to 500 psi. After drill pipe is loaded w/ nitrogen, set packers and open tool.
Once tool is opened, bleed off nitrogen slowly during 1st flow leaving approximately one-half of the nitrogen in tool for 2nd flow period.
10. Test well in the following manner:
Open tool w/ 4 rotations to the right. Flow well for 30 min.
Close tool w/ 11 rotations to the right. Shut well in for 60 min.
Open tool w/ 12 rotations to the right. Flow well for 120 min.
Close tool w/ 16 rotations to the right. Shut well in for 240 min.

11. After final shut in, pick up tools, reverse circulate any fluid recovery out of drill string. TOH w/ tools.
- 6 hrs 12. TIH w/ 7-7/8" Mill tooth drilling bit, DC's, and DP. Control drill w/ 20K = WOB, 60 RPM from 3105' to 3194'.
- 2 hrs 13. TOH w/ drilling assembly.
- 8 hrs 14. Pick up coring assembly. Check spacing between core bit and PVC liner. Install survey tools into non-mag drill collars.

Coring assembly:

7-7/8" X 3-1/2" RC-3 Core bit
 6-1/4" X 30' Core barrel w/ PVC inner barrel
 2 - Non magnetic drill collars
 1 - Hydraulic Jar

15. TIH w/ coring assembly to core point @ 3194'.
16. Begin coring oriented core w/ approx. 5K = WOB, 40-50 = RPM. Core from 3194' to 3224'.
17. TOH w/ core #1. Lay down core. Cut and place core in desorbition canisters.
- 18 hrs 18. Pick up DST assembly, spacing out packers as needed to test interval.

DST Assembly:

Length (ft)

4	Blanked off running case
25	Flush joint anchor
6	Open hole packer
6	Open hole packer
2.8	VR Safety Joint
5	Hydraulic Jar
14	Running Case
5	Hydrospring Tester
7	Dual Fluid Sampler
90	Drill Collars
1	Impact Reversing Sub
to surface Drill Collars & Drill Pipe	

19. TIH w/ DST assembly slowly so as not to surge or breakdown test interval.
 NOTE:
 Check drill pipe every 10 stands for leaks.
 Tools are closed when TIH.
20. Tag bottom to verify no fill. Load drill pipe w/ nitrogen to provide cushion for initial flow to 500 psi. After drill pipe is loaded w/ nitrogen, set packers and open tool. Once tool is opened, bleed off nitrogen slowly during 1st flow leaving approximately one-half of the nitrogen in tool for 2nd flow period.
21. Test well in the following manner:
 Open tool w/ 4 rotations to the right. Flow well for 30 min.
 Close tool w/ 11 rotations to the right. Shut well in for 60 min.
 Open tool w/ 12 rotations to the right. Flow well for 120 min.
 Close tool w/ 16 rotations to the right. Shut well in for 240 min.

22. After final shut in, pick up tools, reverse circulate any fluid recovery out of drill string.
TOH w/ tools.

5 hrs 23. TIH w/ 12-1/4" bit and drilling assembly. Ream 7-7/8" hole from 3075' to 3194'.

24. Continue normal drilling operations.

Total estimated time = 72 hrs (6 days)