



Sup & Shep 0993-25-16W – Plugback/Sidetrack Procedure

H&P 522

Garfield County, Colorado

Well Information

Well: Sup & Shep 0993-25-16W

API: 05-077-10579-00

KB Elevation: 8078'

GL Elevation: 8108'

Surface Casing: 8-5/8" 24# J-55 @ 1556'

Original Hole TD: 8706'

Planned Sidetrack Depth: 2600'

Sidetrack TD: 8790'

Plug #1: 5500'-4900'

Plug #2: 3000'-2400'

Fish Top: 5700'

Procedure:

1. PU ~920' of 2-7/8" tubing stinger with diverter on the end.
2. MU cross over to 4-1/2" DP and TIH to set depth of plug #1 at 5500' above fish top.
3. Establish circulation and ensure there are no packoff concerns and full circulation.
4. RU cementers and test lines. Pump abandonment plug #1 from 5500'-4900'
 - a. 34bbls of 11ppg Tuned Spacer
 - b. 228sacks of 15.8ppg Neat G cement at 1.15ft³/sk – 46.6bbls at 8.9" hole
 - c. 5bbls of 11ppg Tuned spacer behind
 - d. Displace with 62bbls of mud (cut displacement shy by a barrel or two to pull dry)
5. Slowly pull out of plug at 30fpm and trip to 4400'. Circulate cement out of the hole, down DP.
6. Establish circulation and ensure pipe movement is free prior to pumping cement.
7. Pump kick off plug #2 from 3000'-2400'. Kick off plug depth subject to change based on hole conditions.
 - a. 34bbls of 11ppg Tuned Spacer
 - b. 264sacks of 17.0ppg Class G cement at 0.99ft³/sk – 46.6bbls @ 0% XS
 - c. 5bbls of 11ppg CD spacer behind
 - d. Displace with 49bbls of mud (cut displacement shy by a barrel or two to pull dry)
8. Slowly pull out of plug at 30fpm to ~500' above planned top. Circulate cement out down DP.
9. LD tubing string.
10. PU directional tools and WOC for 10hrs prior to tagging plug.
11. TIH and tag plug. Begin attempting sidetrack as per approved sidetrack directional plan.