



Nichols 0994-24-16W - P&A Procedure
H&P 290
Mesa County, Colorado

Well Information

Well: Nichols 0994-24-16W
API: 05-077-10384
KB Elevation: 7236'
GL Elevation: 7212'

Surface Casing: 8-5/8" 28# J-55 @ 1557'
cemented to surface
Original Hole TD: 7716'
Sidetrack Depth: 2533'
Sidetrack TD: 3950'

Procedure:

1. PU ~950' 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 3930'.
3. Tag bottom to ensure correct hole.
4. Establish circulation and ensure there are no packoff concerns and full circulation.
5. RU cementers and test lines.
 - a. Pump abandonment plug #1 from 3930'-3630'
 - b. 37bbls of 11ppg CD Spacer
 - c. 88sacks of 15.8ppg Neat G cement at 1.15ft³/sk – 18bbls @ 0% XS
 - d. 5bbls of 11ppg CD spacer behind
 - e. Displace with 41bbls of mud (cut displacement shy by a barrel or two to pull dry)
6. Slowly pull out of plug at 30fpm to ~500' above planned top. Circulate cement out down DP.
7. Trip out of the hole to plug #2 at 2833'.
8. Establish circulation and ensure pipe movement is free prior to pumping cement.
9. Pump plug #2 from 2833'-2233'.
 - a. 19bbls of 11ppg CD Spacer
 - b. 229sacks of 15.8ppg Neat G cement at 1.15ft³/sk – 47bbls @ 30% XS
 - c. 5bbls of 11ppg CD spacer behind
 - d. Displace with 22.6bbls of mud (cut displacement shy by a barrel or two to pull dry)
10. Slowly pull out of plug at 30fpm to ~500' above planned top. Circulate cement out down DP.
11. Trip out of the hole to plug #3 at 1807'.
12. Establish circulation and ensure pipe movement is free prior to pumping cement.
13. Pump plug #2 from 1807'-1307'.
 - a. 26bbls of 11ppg CD Spacer
 - b. 175sacks of 15.8ppg Neat G cement at 1.16ft³/sk – 36bbls @ 20% XS
 - c. 5bbls of 11ppg CD spacer behind
 - d. Displace with 2bbls of mud (cut displacement shy by a barrel or two to pull dry)
14. Slowly pull out of plug at 30fpm to ~500' above planned top. Circulate cement out down DP.
15. WOC 4 hrs. Tag surface shoe plug. Trip out of the hole to plug #4 at 180'.
16. ND BOP.
17. Pump surface plug
 - a. 44sacks of 15.8ppg Neat G cement at 1.16ft³/sk – 9bbls @ 0% XS
18. Ensure well is not flowing.
19. Place cap on wellhead, release rig.

Date: 3/29/2018