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Application Note 072016-1

OIL BASED MUD CLEANING

Procedure for OBM cleaning

1. Pick out any obvious contaminants and foreign material
2. Clean with Dawn soap using running water
3. Grind to 60 mesh size
4. Clean again with Dawn soap in beaker of 50ml vol.
5. Decant water out of the beaker
6. Add 87:13 Chloroform: Methanol mix to sample in 50ml beaker until you are at 30 to 40 ml height
7. Decant to clearness
8. Leave beaker to stand with sample until the cloudy top is all gone when you decant; the time duration can be a day, 3 days, a week or even more depending on the type of contamination
9. Let the cleaned sample dry and if need be wash again with Dawn soap and dry
10. Smell the sample to confirm no smell of solvent is still there
11. Dry the sample either by leaving it out in the open air for a while or at no more than 40 °C in the oven and run on HAWK
 - Proof that the cleaning was successful is when you get S1 peak to be zero, in that the S1 peak is completely eliminated.

Notice that it is necessary to grind the sample to 60 size mesh before continuing with the cleaning because oil based contamination seeps into pore spaces of the rock.