

1. **Well(s) Names:**UZ-281,431, 337 and many more
2. **Field/Block Name:** umm-Suqqaim
3. **State & Country:** Abudhabi, UAE
4. **Onshore or Offshore:** offshore
5. **Hole Sizes, Intervals where Liquid Casing-Coarse used:** 8 ½ " 6"
6. **Rates of Losses before spotting the Liquid Casing Pill:** used Fine grade in whole mud system at 6-8 ppb while drilling and Coarse pills were swept hole with 20 ppb dosage.
7. **Operator Name:** ADMA-OPCO
8. **Mud Companies name:** MI & Petrochem
9. **In which Mud System Liquid Casing-fine & Coarse is used:** Salt saturated polymer mud
10. **Date of the using the LCM Pill:** Year 2003
11. **Dosage of Liquid casing-Coarse used in the pill:** 20-30 ppb
12. **Mud Density:** 1.16-1.22 S.G

Brief Description of the Job Performed:

Abudhabi offshore has multiple layers of reservoirs with names Thamama-1, 2 & 3 with sub layers named A, B, C, D & F. each layer owned by different operators and Thamama-1 belongs to another operator named ZADCO. ADMA owns Thamama-2 & 3. All three layers have narrow pressure window separated by inter bed shale layers. Thamama-2 & 3 have more pressure than thamama-1 which requires more mud wt. to drill. While using the required mud wt. to drill Thamama-2 & 3, one has to pass through thamama-1 first and being it depleted, encounter various problems starting with down hole losses. Differential sticking and above that damaging the reservoir belongs to some other operator. To avoid any damage to the other reservoir and to drill with required mud wt without any problems, ADMA-OPCO used Liquid Casing-Fine in the whole mud system with 6-8 ppb dosage to reinforce and prevent losses and to drill to required TD. The Liquid Casing-coarse pills with 20-30 ppb dosage of LC-coarse pumped intermittently to stop any further losses and 100-120 bbl of coarse & fine together spotted at bottom prior to TLC logging and for running 7" liner. On well UZ-337, which is multi lateral dual completion, upon reaching TD, spotted 120 bbl of Liquid Casing-coarse pill for TLC logging. The TLC logging was continued for 127 hours without any circulation or any trip with 1300 psi differential pressure and the well inclination is 80°. It was a record and client well appreciated and attributed all credit to Liquid Casing- Fine & Coarse. Later, ADMA-OPCO used our products on many wells with great success.