



## **NFS-BlackSeal® Case History**

Brief updates

**Operator South Texas:** 610' 6 1/2" hole Hidalgo County, Texas 16.4 ppg OBM had pumped two 60 bbl of competitors product pills previous. As well as two cement plugs with no success. Pumped 36 bbls of **NFS-BlackSeal®** (MIXED IN WATER) @ the shoe 7 bbls into the operation regained full returns. Continued pumping the rest of the pill, and held 500 PSI. Drilling resumed with full circulation.

**South Texas Operator:** Pumped 90 bbls (Mixed in diesel) of **NFS-BlackSeal®** and pulled above to squeeze, and circulated with minimal losses above the pill. Squeezed the material and would not hold pressure. Mixed another 55 bbl pill and re-squeezed, which held 600 PSI of pressure. Run on top of the plug, maintained circulation to 11500' casing point. Run casing with no further losses.

**South Louisiana Operator:** 17.2 ppg OBM 1900 feet open hole. Mud losses accrued during the drilling of 8.75" hole. Pumped and squeezed 120 bbls of **NFS-BlackSeal®**, pulled above the loss zone, circulated with full returns. Ran back on top of the loss zone, broke circulation and drilling resumed with minimal losses.

**Operator in Galveston County:** Lost 1400 bbls of oil base mud, stopped drilling. Lowered mud weight staged in the hole and pumped 65 bbls of **NFS-BlackSeal®** pill. Squeezed into the formation, solved losses sufficient to run casing.

**Palace Royal:** Louisiana (Mano) Hole in casing, pumped 50 bbls and squeezed, with success. 11.0 ppg brine. Pumped single pill of **NFS-BlackSeal®** on the backside, help pressure, completed the well.