



Well Information

Location.....Woodville, Texas
Total Depth Drilled7300 ft.

Casing: 9/58" and 7/78"
Mud System: NFS-Super System (Water Base)

Product Introduction:

NFS-Shalecapsule is a specialized liquid product designed specifically for use as a replacement for bagged potassium chloride (KCl). NFS-Shalecapsule provided excellent shale and clay control without the logistic, handling and mixing problems associated with large volumes of bagged KCl. It will not affect fluid pH and being non surface active does not adversely affect formulation wettability or create any type of a foaming problem.

Well Recap

Drilled a 12/25" surface hole to 1750' with conventional gel/water mud. Sat the surface casing 9/58" casing and tested the casing.

- Cleaned the mud tanks and filled with fresh water and began additions of NFS-Super System.
- Added 10 ppb of NFS-Viscapsule, 1 % by volume NFS-Shalecapsule, followed by 1% by volume NFS-Torqcapsule.
- Maintained a 31-34 funnel viscosity and drilled cement with the new mud system. Drilled approximately 120' cement without any contamination.
- Began drilling the 8-1/4" hole with NFS-Super System from 1750' to 2000'. Maintained chemical addition except for NFS-Shalecapsule; at this point mud viscosity was too high. Water was added to the system and the desander/desilter was started.

The Results

Drilled to TD, log to bottom with no fill and ran casing successfully.

Conclusion

Shale inhibition was possible by using only 2% by volume of NFS-Shalecapsule. This unique product can protect and inhibit shale in all types of water base systems.