



DESCRIPTION

TACTICAL ARMOR[®] is a proprietary wellbore strengthening material that enables operators to build integrity while drilling and achieve success even in the most difficult formations. By forming a thin wall barrier (wall-cake) against the rock-fluid interface, TACTICAL ARMOR[™] prevents fluid and pressure invasion into matrix pores and microfractures. Inspired by technology found in TOP's Tactical Blitz[®], TACTICAL ARMOR[®] is an innovative addition to any mud system, loaded in the active system as a background material at 8-12ppb.



ADVANTAGES

- Reduces spurt loss and HTHP fluid loss.
- Forms a thin yet strong and malleable filter cake.
- Increases fracture pressure (as much as 1.0ppg equivalent in early trials) allowing the operator to increase mud weights in tight pressure windows to combat increases in pore pressure.
- Seals up to 10 – 210μ microfractures at high differential pressure.
- Shows effectiveness and compatibility in WBM systems. Future trials to be performed in OBM systems.
- Allows continual use of shale shaker systems with screen sizes 70 mesh or larger.
- Reduces T&D on trips.
- Reduces magnitude and effect of differential pressure, hence reducing the risk of hydraulic sticking.
- Mixes easily with any rig equipment.
- Resists degradation and decomposition (noticeable odor reduction).

APPLICATION

- Used as a background material, Tactical Armor[™] is loaded in the active mud system prior to drilling through the suspect hole interval. Initial concentration is mixed to eight (8) ppb and maintained to hole section TD.
- In the event losses occur, Tactical Blitz[®] should be utilized to eliminate the losses while enhancing the Tactical Armor's[™] ability to increase wellbore integrity and fracture pressure.

PHYSICAL PROPERTIES

- Appearance: Black powder pH: Neutral (7) in freshwater. Specific gravity: 1.12 g/cm³.
- Packaging: 25lb sacks, 50 sacks per pallet. Pallets shrink wrapped.



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