

# ULIA Ultra Low Invasion/ Well Bore Strengthening Additive



ULIA is a field proven additive that allows building a low invasion drilling fluid which improves wellbore circumferential stress, prevents hole collapse and effectively controls mud losses. ULIA significantly reduces fluid invasion into matrix permeability and micro-fractures by forming a very low permeability, yet acid soluble, barrier across the exposed formation. This barrier minimizes fracture propagation and actually raises the fracture initiation pressure of the formation. Since ULIA has no polymer component it can be used in temperatures up to 350 deg F.

## 2015 < World Oil > Guide To Fluids: Recognized oilfield additives

World Oil's Fluids 2015			Recommended for these systems							Product Function				
			Water-based fluids							Primary	Secondary	Secondary		
Available from:	Product tradename	Description of material	Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based				Synthetic-based	Air, mist, foam, gas
Vertechs	VCLEAN	OBM/crude oil residue cleanup agent					X					WBC	CF	SU
Vertechs	ULIA	Non/low invasion seal agent	X	X	X	X	X	X	X	X	X	LO		

### Applications

- Micro-fracture formation
- Permeable matrix formation
- Fragmental rock formation
- Shale formation
- Coal formation

### Features

- PSD optimization resulting in less screen out by shakers.
- Minimum impact to rheology due to **NO** polymer component
- Less formation damage due to acid solubility.
- Completely compatible with MWD/ LWD tools.
- Compatible with both water based and synthetic based muds.



**Filter cake with fresh water + 4% ULIA on 20/40 mesh sand bed at 1,000psi differential pressure**