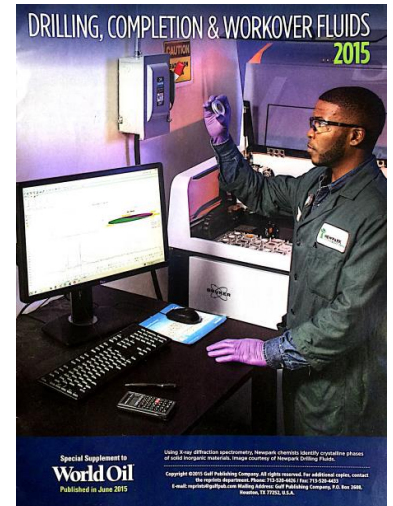


VClean™



VClean™ is a solvent/detergent additive designed specifically for OBM environments. VClean is field proven to provide efficient cleanup of residue deposits and creates a water wet environment on the casing and downhole tools prior to perforating the casing and stimulating the well.

World Oil's Fluids 2015			Recommended for these systems							Product Function				
Available from:	Product tradename	Description of material	Water-based fluids							Primary	Secondary	Secondary		
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based				Synthetic-based	
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		



Feature fluid product in 《WORLD OIL》 Fluids Guide 2015

APPLICATIONS

- OBM/SBM residue cleanup (casing, downhole tools and surface equipment).
- Crude oil residue cleanup (downhole equipment, surface equipment and pipelines)

FEATURES

- Effective cleaning, excellent performance with emulsion breaking, thinning, dissolving & dispersion
- Biodegradable and environmentally acceptable
- Compatible with fresh water, seawater and clear brines
- Working temperature up to 300 °F



Taking sample from shale shaker in VClean operation



Thickened oil which stick on wellbore is collected.

VClean has been widely applied in deep shale gas horizontal wells successfully with different process to satisfy customers' operation requirements.