



EnerLITE

DIRECT EMULSION

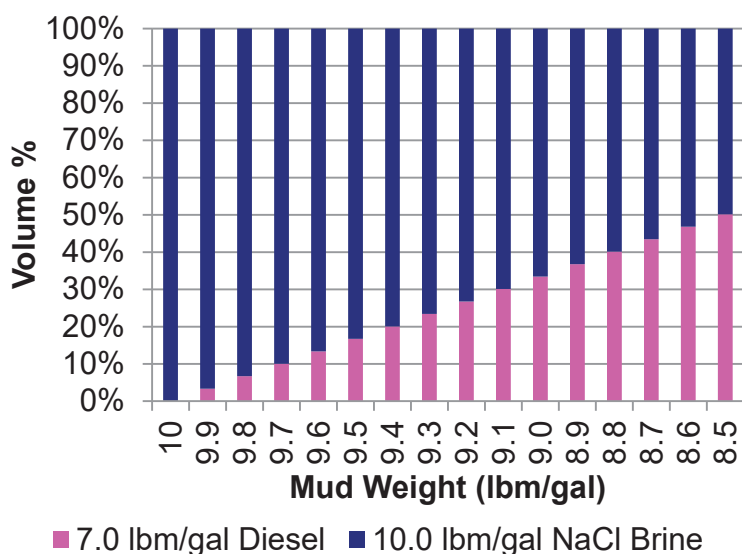
NEXT GENERATION



APPLICATIONS

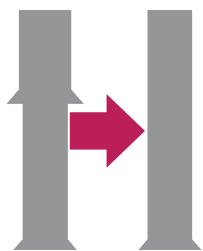
EnerLITE is ideal for depleted formations where a low density is desired as well as drilling salt formations where a saturated salt brine phase is necessary to prevent washout but saturated brine density exceeds the target mud weight.

Typical oil:water ratios range from 10:90 to 50:50 with bottomhole temperatures up to 225°F. Formulations are optimized by application and are engineered beyond these conditions as needed. Test any supplemental additives, such as lubricants or corrosion inhibitors before use.



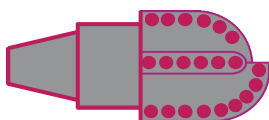
Mud weight range of saturated brine mixed with diesel at various oil:brine ratios.

PERFORMANCE



Eliminate Intermediate Casing with Minimal Salt Washout

- Reduced excess cement volume requirements
- Single stage cement jobs
- Returns to surface
- Removal of DV tool



Overcome Drilling Challenges

- >100 bbl/hr water flows
- >1000 ppm H₂S
- CO₂
- Lost circulation



Support Directional and Horizontal Applications

- ENERLUBE LITE minimizes torque
- Build sections to 90°
- Horizontal sections up to 15,000'
- Improved borehole quality



Extended Cost Savings

- Experience to minimize waste through best practices
- Lower/Eliminate dilution with EnerLITE RECOVER



250+
WELLS AND COUNTING




EnerLITE[†]

DIRECT EMULSION SYSTEM

The EnerLITE direct emulsion system provides a simple solution for density control in freshwater or saturated brine environments. Density is controlled through additions of diesel or mineral oil to achieve mud weights well below typical water-continuous systems. NORMUL[†], a stabilizing surfactant, maintains the dispersion of the oil phase in the water or brine phase.



	No Emulsion: In a normal state, oil and water do not mix.	Invert Emulsion (typical OBM): Water droplets are dispersed in an oil-continuous phase	Direct Emulsion: Oil droplets are dispersed in a water-continuous phase.
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DESCRIPTION

EnerLITE

Direct emulsion system

Density control with diesel or mineral oil non-continuous phase



BENEFITS

EnerLITE

Precise density control
Liquid components simplify mixing and maintenance

Simplified logistics through reduced fluid volumes



APPLICATIONS

EnerLITE

Saturated salt systems requiring mud weights below 10.0 lbm/gal

Depleted formations at mud weights below freshwater (8.33 lbm/gal)

Narrow drilling windows





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