A Cost Effective bentonite extender, Visclay-R™ is a new generation of Mixed Metal Oxide (MMO), designed to maximize carrying capacity in water-base drilling fluids.

**BENEFITS & USE**
- Produces high viscosity at low shear rates (6 and 3 rpm), giving excellent hole cleaning and suspension properties.
- Provides superior hole cleaning in fresh water mud
- For conventional, high-angle, and horizontal wells
- To produce flat, shear-thinning rheology properties
- To reduce bentonite consumption and lower MBT’s
- Excellent for sea-water and ssw fluids
- Economical replacement of xanthan gum for milling, when using freshwater, saltwater, or SSW fluids
- For pre-mix sweeps, use (9 to 1) ratio by weight, bentonite to Visclay-R™

**ADDITIONAL ADVANTAGES**
- Inhibition
- High temp stability - 300 to 400 F
- Lubricity
- Computability with anionic polymers that all other MMH products or system have never had**
- Environmentally safe
- Cuts bentonite from 20 + ppb to 5-8ppb (on API Gel), reducing formation damage to almost none, OR in fact improved production over conventional polymer muds or oil base muds. Only return per test will prove that.
- The system will enhance the ROP, by the fact that it is sheer thinning, reduced solids, and minimizes, or prevents bit balling.
- The system we are ready to introduce will be the only MMH system with full pH and Rheology flexibility, which has been the major problem in the past 20 years.

**DENSITY & SALINITY**
Generally, salinity and density affect ratios of Visclay-R™ to bentonite. Optimum concentrations need to be adjusted accordingly.

**PROPERTIES, TYPICAL**
- Form & Appearance...........White/Off-White Free Flowing Powder
- Special Gravity..................2.8 (+/-)
- Bulk Density......................40 lb/ft3 (+/-)
- Density...........................2.6 – 2.9 g/cm3
- pH..................................9.5-10.5 (1% slurry in water)
- Odor...............................Odorless

**MIXING**
- When drilling with fresh-water fluids, typical concentrations are (0.65 to 0.75 ppb) Visclay-R™, to (5 to 8 ppb) Standard API quality bentonite through conventional hopper as needed to control Viscosity, YP and Rheology.
- For sea-water fluids pre-mix 25-30 ppb non-treated API bentonite in freshwater, with 1/2 ppb soda ash, then dilute with seawater or bleed into circulating system while adding Visclay-R™ through hopper to the circulating mud volume.
- It is important to note that the pH of the circulating drilling fluid be maintained at 10.3 to 10.5 at all times with caustic.
- For milling casing, higher concentrations may be needed. See DTS "VISCLAY- Mud Up” guideline for field use.

**Compatibility Note:**
- VISCLAY-R is not compatible with anionic polymers such as PAC, CMC, and other anionic materials, without the addition of SKL-100 to the fluid.
- Without the addition of SKL-100, the use of anionic materials, anionic contamination, or dispersants will destroy the rheological properties.
- SKL-100 as an option can be used at a concentration of 1-1/2 to 2ppb for additional "system" flexibility.
- We will publish additional technical data sheets on this "system".

**PACKAGING**
25 Lbs Bags, foil lined