



# ULTRA SEAL® (Drilling Fluid Additives)

To Order: 888-862-7177

*Ultra Seal® drilling fluid additives are the most effective and cost efficient drilling fluid additive of its type on the market today. As the oil and gas industry worldwide continues to demand more efficient, cost effective operations, the need to minimize lost time, such as differential sticking and loss circulation has become imperative. By using Ultra Seal® DFA, many drilling related problems can be prevented and controlled.*

The key to our fiber-based lost circulation materials is consistency in both product quality and ease of application.

## ULTRA SEAL® XP

Ultra Seal® XP is a patented blend of specific micro sized cellulose fibers, combined with a blend of organic polymers and lubricity enhancers. Ultra Seal® XP is compatible with both water and oil base mud systems. For non-critical applications, Ultra Seal® TG is offered. The product has a similar particle size distribution as Ultra Seal® XP but is manufactured using one cellulose fiber.

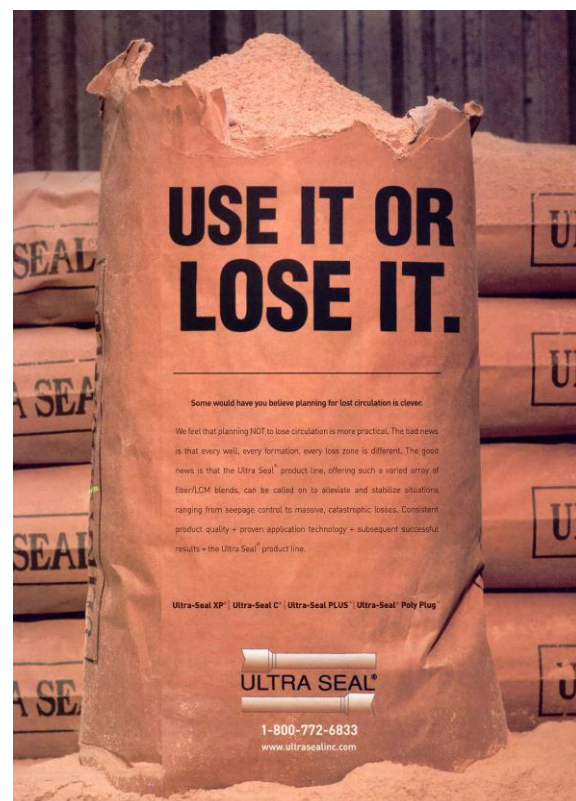
- ▶ Ultra Seal® XP is designed to aid in the control of fluid losses to the well bore, and promote the anti-friction characteristics of a drilling fluid.
- ▶ Ultra Seal® XP seals off low pressure zones, which in turn reduces rotary torque and drill string drag that is present in these differential pressure environments.
- ▶ Ultra Seal® XP inhibits seepage loss to the formation, as well as restricting flow into depleted sands.

### PACKAGING:

- ▶ Ultra Seal® XP/TG is packaged in 25 lb multi ply bags with a polyethylene liner.
- ▶ 48 bags per pallet (44"X44")
- ▶ Heavy Duty Shrink Wrap



- ▶ ULTRA SEAL® XP (SCM)
- ▶ ULTRA SEAL® TG (SCM)
- ▶ ULTRA SEAL® C (LCM)
- ▶ ULTRA SEAL® PLUS (LCM)



## ULTRA SEAL® C

Ultra Seal® C is a patented four particle blend of specific sized cellulose fibers, compatible with both water and oil base mud systems.

- ▶ Ultra Seal® C has a broad particle size distribution and is designed to solve partial to total loss circulation.

### PACKAGING:

- ▶ Ultra Seal® C is packaged in 25 lb multi ply bags with a polyethylene liner.
- ▶ 42 bags per pallet (44"X44")
- ▶ Heavy Duty Shrink Wrap

## ULTRA SEAL® PLUS

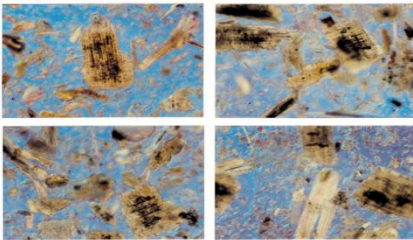
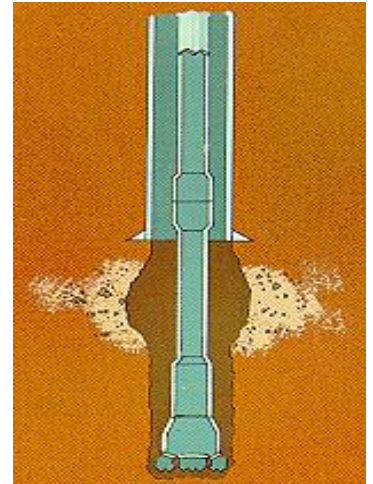
Ultra Seal® Plus is a patented blend of fibrous, granular and flake materials designed specifically for massive loss of circulation. This product was formulated to expand the existing positive qualities of the Ultra Seal® product line.

By the inclusion of these larger particles, loss circulation into rigid type fractures, vugular or unconsolidated formations and highly permeable thief zones can be controlled.

Ultra Seal® Plus is a blend of Ultra Seal® XP, Ultra Seal® C and additional larger, sealing agents. This blend expands the superior range of particle sizes that are consistent with the existing product line.

### PACKAGING:

- ▶ Ultra Seal® Plus is packaged in 40 lb multi ply bags with a polyethylene liner.
- ▶ 28 bags per pallet (44"X44")
- ▶ Heavy Duty Shrink Wrap



★ ★ ★ ★ ★ ★ ★ ★ ★ ★  
 Operators Using Ultra Seal®  
 Apache  
 BP  
 Chevron  
 ConocoPhillips  
 Devon  
 Husky  
 Marathon Oil Company  
 Noble  
 PEMEX  
 PDVSA  
 Pioneer Natural Resources  
 PetroCanada  
 Stone Energy

★ ★ ★ ★ ★ ★ ★ ★ ★ ★



*The Ultra Seal® products are covered by the following U.S. and corresponding foreign patents and/or other patents pending:*

US PATENTS  
 5,431,237  
 5,118,664  
 5,332,724  
 5,363,928  
 5,599,776  
 4,947,935  
 4,989,643  
 5,377,760

NORWAY  
 P921220

BRITISH  
 2,254,091

VENEZUELA  
 8559-POOOVE

# CASE HISTORIES

## ULTRA SEAL® XP & ULTRA SEAL® C

### **Chevron/Texaco GoM**

Ultra Seal® XP and Ultra Seal® C have been used for the following applications:

1. Lost Circulation Material: Helped seal off sections of the hole that were losing partial mud returns.
2. Torque and Drag Reducer: Has reduced torque and drag in high angle holes across sand zones.
3. Sealing Depleted Sands: While drilling depleted sands and having differential sticking problems, Ultra Seal® XP and Ultra Seal® C helped seal those sands and prevent from sticking.
4. Running Casing in High Angle Holes: Ran casing after spotting Ultra Seal® XP across sand zones. Had no problems running casing in a 78 degree deviated hole and got full cement returns which had not been seen in other similar jobs.

## ULTRA SEAL® TG

### **EI Paso-East Cameron Block, GoM**

An offshore Operator was making an open hole displacement of a water based system with a diesel oil base system when complete loss of returns occurred. Several attempts were made to regain circulation with competitive types of loss circulation materials. None of these attempts were successful. A 100 bbl sweep of Ultra Seal® TG (25 lbs/bbl) was pumped and full circulation regained. Final displacement was made and drilling resumed.

The hole was swept on a regular basis to control any seepage losses. Prior to logging the well, a pill of Ultra Seal® TG was spotted on bottom to prevent sticking of the logging tool. Another pill was spotted on bottom prior to running the production liner. No problems were encountered during these procedures.

## ULTRA SEAL® PLUS

### **Stone Energy-Vermillion Block 45 B-4, GoM**

By sweeping the hole with Ultra Seal® Plus, a project TD of (9,654') was reached without incident of differential sticking or loss circulation. Sands encountered from surface pipe to TD had formation pressures from 6.6 lb/gal to normal pressure.

Ultra Seal® Plus was used in concentrations of 25 lbs/bb and pumped every connection to prevent loss circulation and differential sticking. A 10.0 lb/gal mud weight was required at TD.