

# THE PANTHER COMPANIES: Keep Wellsites Running Smoothly

At The Panther Companies, we leverage our collective expertise in drilling fluids, solids control equipment, haul-off and disposal services, and engineering to craft an all-encompassing fluid management system. The result? Drilling operations that are more efficient, cost-effective, and environmentally conscious.

## Fluid Management Services By Panther

### DRILLING FLUID SYSTEMS

#### WATER-BASED MUDS (WBM)

Environmentally friendly and high-performing. Our team tailors water-based drilling fluids to deliver optimal solutions.

##### **WBM Inhibited**

Formulated with various polymers and additives to enhance the rate of penetration (ROP) and inhibit shale. Commonly contains gypsum, lime, and saturated salts like Sodium Chloride and Calcium Chloride polymers.

##### **WBM Dispersed**

Suited for high ROP drilling and higher mud weights in HP/HT environments. Enriched with lignite and lignosulfonate additives, these systems are robust against solids and contaminants.

#### OIL-BASED MUDS (OBM)

Known for excellent drilling rates, superior lubricity, and minimal maintenance, OBMs are a high-performing and cost-effective drilling fluid option.

##### **OBM Invert Emulsion**

Offers unparalleled suspension and viscosity control, ideal for high-temperature formations. With a composition of 60%-90% diesel and 10%-40% water, they're preferred for their remarkable shale inhibition and drilling lubricity.

##### **OBM Direct Emulsion**

Mitigates washouts when drilling through salt. These oil-in-water emulsions utilize field brine and diesel to regulate density during drilling and minimize losses in under-pressured areas.

#### SYNTHETIC-BASED MUDS (SBM)

Designed for minimal toxicity and a reduced environmental footprint, synthetic muds offer an eco-conscious alternative to conventional drilling fluids.

##### **SBM Invert Emulsion**

Achieve environmental goals without compromising downhole performance. These systems employ environmentally friendly synthetic liquids externally, with brine as the internal phase.

### DRILLING FLUID ADDITIVES

#### STEALTH ADDITIVES

Custom-designed and performance-driven, our specialty fluid additives mitigate drilling risks, ensuring your wells remain on course.

##### **STEALTH LCM**

Our specialized blend of shale inhibitors minimizes swelling and dispersion, safeguarding the wellbore. Adaptable for both WBM and OBM muds.

##### **STEALTH INHIBITOR**

Reduces the risk of mud losses when drilling through depleted zones. Featuring our proprietary LS7 lost circulation material (LCM), this unique multicomponent blend is compatible with both WBM and OBM fluids.

##### **STEALTH LUBRICANT**

Useful in long laterals, this blend minimizes torque, drag, and differential sticking issues. Compatible with all brine and freshwater systems.



## SOLIDS CONTROL

With the ever-evolving landscape of environmental regulations, Panther recognizes the importance of efficient solids control and the significance of closed-loop drilling systems.

We utilize a strategic mix of:

- Shakers
- Tanks
- Centrifuges
- Hydrocyclones
- Other specialized equipment

This amalgamation ensures an optimized and cost-effective solids control system, meeting the demands of the modern drilling environment.



## HAUL OFF & DISPOSAL

Seamlessly aligning with our fluids management solutions, Panther's haul-off and disposal services eliminate operational complexities, ensuring every aspect is managed with an emphasis on safety, compliance, and environmental protection.

Our expertise spans:

- Liquid waste disposal
- Solid waste disposal
- Vacuum truck services
- End/side dump services

We hold a steadfast commitment to safety, ensuring an incident-free process from the wellsite to licensed disposal facilities.



## THE PANTHER ADVANTAGE

- ✓ Lowered drilling fluids costs for operators by up to 25%.
- ✓ Superior system design for better solids removal.
- ✓ High-tech closed-loop system design minimizes consumption.
- ✓ Reduced fluids dilution through expert system design.
- ✓ Maintain optimal mud properties for maximum efficiency.
- ✓ Provision of tanks, rig mats, and other wellsite equipment.

## Contact the Experts

Ready for unparalleled drilling fluid management solutions? Reach out to The Panther Companies today.

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