**American Gilsonite**
Ensures wellbore stability, controls fluid loss and reduces costs with no HSE impact

Gilsonite® is the most cost-effective multifunctional additive for any type of mud. With its unique chemical properties and physical characteristics, Gilsonite® uintaite is scientifically proven to improve wellbore stability, plug micro-fractures, and bond and seal all types of formations. Multifunctional Gilsonite® lowers costs by allowing you to use fewer additives.

**Gilsonite® uintaite is the only additive that provides all of these benefits:**
- Controls fluid loss and seepage
- Minimizes differential sticking
- Stabilizes shales
- Performs in oil- and water-based drilling muds
- Prevents lost circulation
- Performs in HP/HT environments
- Strengthens the wellbore
- Passes deepwater EPA regulations

**Unique bonding and plugging properties prevent formation damage**
Gilsonite® uintaite forms a physical and chemical bond with permeable formations, creating an effective seal to prevent the passage of drilling fluid. By uniquely functioning as both a malleable and solid plugging agent, Gilsonite® controls fluid loss and seepage, prevents lost circulation and protects reactive and low-reactive shale surfaces, even at elevated bottomhole temperatures.

**Proven to strengthen the wellbore**
HP/HT wells, shales and under pressured zones require specialized drilling fluids and wellbore-strengthening techniques. Adding Gilsonite® uintaite to an OBM or WBM strengthens the well by:
- Reducing pore pressure transmission and sealing micro-fractures in shale and low-porosity sands
- Keeping interbedding formations intact
- Developing effective filter cake
- Providing a “smear effect” that creates a continuous protective sealant along the wellbore wall

**The most effective additive to prevent differential sticking**
Gilsonite® uintaite minimizes the occurrence of stuck pipe and stuck logging tools by thoroughly sealing permeable formations – even in zones with a highly overbalanced pressure differential – and improving filter cake lubricity.

**American Gilsonite products perform in any application**

<table>
<thead>
<tr>
<th>Product</th>
<th>Softening Points</th>
<th>Mud Type</th>
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<tbody>
<tr>
<td>Gilsonite® XM-P</td>
<td>&gt;325° F</td>
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<td>Gilsonite® AquaSol Series</td>
<td>325-500° F</td>
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Gilsonite® uintaite has overwhelming performance advantages over alternatives

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<th>Cost-effective</th>
<th>High Temperature</th>
<th>Controls Fluid Loss</th>
<th>Minimizes Differential Sticking</th>
<th>Stabilizes Wellbore</th>
<th>Non-Clumping</th>
<th>Strengthens Wellbore</th>
<th>Smear Effect</th>
<th>Coats &amp; Bonds</th>
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Gilsonite® uintaite offers significant cost advantages in both OBM and WBM applications

**Water-Based Mud Applications:**
Gilsonite® is comparable to sulfonated asphalts, but priced 40% less.

**Oil-Based Mud Applications:**
Gilsonite® reduces fluid loss at a fraction of the price.

**Gilsonite® is naturally better**

Gilsonite® uintaite is a naturally occurring asphalt-like solid hydrocarbon rock found only in northeastern Utah. Gilsonite® has significant health advantages over synthetic products.

> Gilsonite® is:
  - Non-toxic (unlike coal or fly ash)
  - Non-carcinogenic
  - Non-mutagenic

> No extreme safety measures are needed to handle Gilsonite®

> Passes Gulf of Mexico EPA discharge requirements for deepwater operations

Proven in more than 60 years of oilfield performance

The effectiveness of Gilsonite® uintaite as a versatile additive has been documented in over 50 SPE and other peer-reviewed presentations.

There’s only one source of Gilsonite®. Proven under pressure®

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