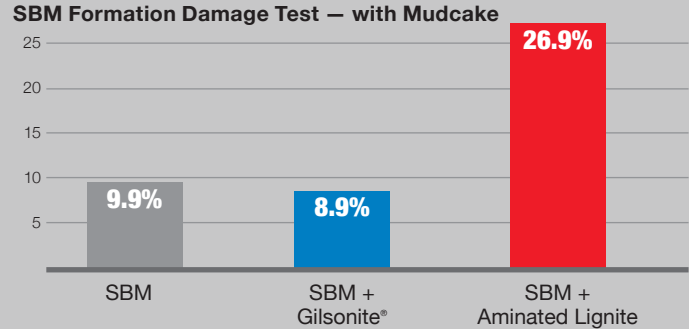
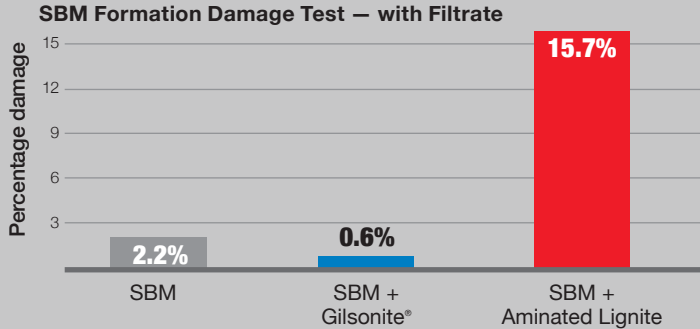


AMERICAN GILSONITE COMPANY

Gilsonite® uintaite minimizes formation damage

Gilsonite® controls fluid loss without damaging the formation



Gilsonite® reduces formation damage

Lab tests show that Gilsonite® uintaite used as a fluid loss control additive in synthetic-based drilling mud (SBM) causes negligible formation damage. Third-party lab testing indicated that mud with Gilsonite® uintaite reduced damage to the hydrocarbon-bearing formation compared to synthetic-based mud alone.

Low-tier “black powder” additive damages the formation, reduces permeability

Testing shows that aminated lignite (a black powder additive) causes significant formation damage as measured by decreased return permeability.

Filtrate measurements indicated that Gilsonite® uintaite had negligible impact while mud filtrate containing the black powder additive showed a 15.7% decrease in return permeability. Measurements made without removing the mudcake again showed that Gilsonite® additive caused no formation damage while the black powder additive caused a 26.9% decrease in return permeability.

“It appears that Gilsonite® creates a good seal in the exposed formation, and therefore avoids causing formation damage,” stated Dario Montes, technical director for American Gilsonite Company.

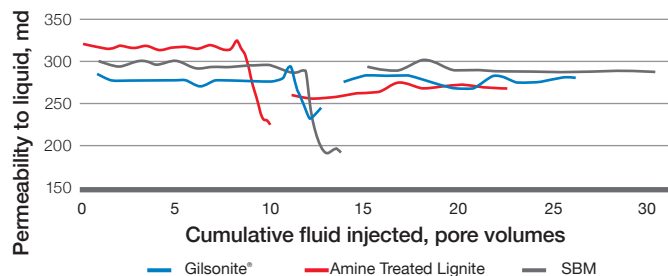
Gilsonite® preserves production potential

Because Gilsonite® uintaite controls fluid loss while minimizing reservoir formation damage, it enables faster and safer drilling operations as it preserves the production potential and helps to optimize the value of an operator’s asset.

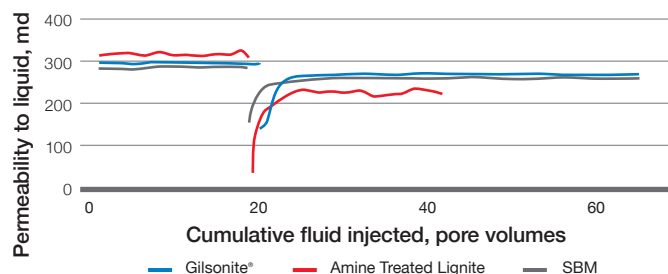
Testing Parameters

Synthetic based mud	Saraline, 13 ppg, OWR 70:30, 25% CaCL ₂
Core	Berea with a permeability range 200-300 md
Temperature	250°F
Pore pressure	500 psi
NCS	2000 psi
Overbalance pressure	500 psi

SBM Formation Damage Test — with Filtrate



SBM Formation Damage Test — with Mudcake



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

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Gilsonite® is a registered trademark of American Gilsonite Company for the mineral uintaite found only in the Uinta basin.