# DRILL-WELL<sup>™</sup> D325 Polymeric Fluid Loss Additive



DRILL-WELL<sup>™</sup> D325 FLA is a polymeric fluid loss additive designed for reducing fluid loss in oil-based systems, including mineral and synthetic-based drilling fluids in low and high-temperature environments. DRILL-WELL<sup>™</sup> D325 FLA is a white, free-flowing powder and is compatible with all commonly used materials for oil-based drilling fluids.

# **Advantages**

- Mixes easily
- Reduces High-Temperature High-Pressure (HTHP) fluid loss
- Improves rheological properties
- More cost-effective than most polymeric fluid loss additives
- May be used in conjunction with other fluid loss additives such as amine treated lignite and Gilsonite<sup>®1</sup>
- Compatible with other commonly used materials in non-aqueous fluids
- Temperature stable to ±149 °C (300 °F) with results depending on fluid conditions. Pilot testing is recommended.

# **Application**

 Typical application of product varies from 1 – 3 ppb (0.454 to 1.361 kg)

#### Cost

Cost-effective due to high quality

### **Mud Types**

May be used in all oil-based muds

#### **Physical Properties**

DRILL-WELL<sup>™</sup> D325 FLA is a white free-flowing power.

#### **Mixing Requirements**

DRILL-WELL™ D325 FL may be mixed at the mud plant or on location as needed. It is advised that the product be mixed slowly over several circulations to avoid uneven mixing.

### Handling

For specific instruction on handling, refer to the SDS

## **Packaging**

50-pound multi-wall sacks, 40 per pallet

1. Registered trademark of American Gilsonite Company Corporation Oklahoma.

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### **Test Results**

Two twelve pounds per gallon mineral oil fluids were mixed. The base fluid was mixed without DRILL-WELL<sup>™</sup> D325 FLA and the other fluid was mixed with two pounds per barrel of DRILL-WELL<sup>™</sup> D325 FLA. Each fluid was hot rolled for sixteen hours at 250 °F before recording the fluid properties. The DRILL-WELL<sup>™</sup> D325 FLA showed an increase in viscosity and a dramatic decrease in HTHP fluid loss as well as a reduction in the size of the HTHP filter cake.

Product	Base Fluid (BF)	BF+ DRILL-WELL™ D325 FLA
Escaid <sup>®</sup> 110, bbl	0.609	0.609
Water, bbl	0.150	0.150
CaCl <sub>2</sub> , lb/bbl	18.5	18.5
VERSAMUL*, lb/bbl	10.0	10.0
VERSACOAT* NA, lb/bbl	2.0	2.0
Lime, lb/bbl	8.0	8.0
VG-69*, lb/bbl	1.0	1.0
DRILL-WELL™ D325 FLA, lb/bbl	0	2.0
Barite, lb/bbl	325.3	325.3
Properties @ 9	00 °F Using OFITE model 900	) Viscometer
600/300 rpm	44/22	103/57
200/100 rpm	12/7	41/24
6/3 rpm	1/1	3/2
PV, cP	22	46
YP, lb/100 ft <sup>2</sup>	0	11
10 sec gel/10 min gel, lb/100 ft <sup>2</sup>	0.6/0.3	2/8
Properties @ 12	20 °F Using OFITE model 90	0 Viscometer
600/300 rpm	32/16	63/34
200/100 rpm	8/4	23/13
6/3 rpm	1/1	2/2
PV, cP	16	29
YP lb/100 ft <sup>2</sup>	0	5
10 sec gel/10 min gel, lb/100 ft <sup>2</sup>	0.4/0.5	2/2
Electrical Stability, volts	420	375
HTHP Fluid Loss @ 300 °F	23.4	1.0
HTHP Cake, 32 <sup>nd</sup> "	18	2

VG-69\* organophillic clay, VERSAMUL\* emulsifier and VERSACOAT\* NA are products of M-I SWACO Escaid® 110 is a product of ExxonMobil

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