



Suite 1240, 540 – 5th Avenue SW Calgary, Alberta T2P 0M2
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Matrix Bitu-Binder™

Matrix Drilling Fluids Ltd. has developed the Bitu-Binder mud system in order to Solve Challenges inherent to SAGD drilling. These include; hole washout, wellbore instability, excess drilling waste, bitumen accretion and increased demands for surface equipment.

Matrix Bitu-Binder™ Drilling Benefits

Bitu-Binder prevents asphaltenes from precipitating from Bitumen. In fact, Bitu-Binder prevents the oil from even leaving the sand particle. Bitumen Remains on the Sand. This is accomplished with a simple chemical addition to our clay-free polymer based mud system. Matrix Bitubinder™ helps to;

- ▶ Reduce hole washout
- ▶ Increase wellbore stability
- ▶ Eliminate the need for expensive Mud Chillers
- ▶ Eliminate accretion
- ▶ Eliminate shaker screen blinding

Matrix Bitu-Binder™ is Cost Effective

Since Bitumen does not leave the sand particle / drilled cuttings, the fluid system can be easily recycled.

- ▶ The fluid system does not have oil incorporated into it
- ▶ No dumping and rebuilding whole mud systems
- ▶ No storing large mud volume for reclamation or disposal
- ▶ Less water consumption
- ▶ Less abrasive sand in the fluid system resulting in reduced pump wear
- ▶ Effective solids control due to stabilized drilled cuttings



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POLYMER FLUID



STEEL FOIL WITHOUT
ACCRETION

BITUMEN REMAINING ON
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Matrix Bitu-Binder™ Benefits

- ▶ Reduced Hole Washout
- ▶ Increased Wellbore Stability
- ▶ Eliminates Expensive Mud Chillers
- ▶ Eliminates Bitumen Accretion
- ▶ Eliminates Shaker Screen Blinding
- ▶ No Dumping and Rebuilding Whole Mud Systems
- ▶ No Storing Large Mud Volumes for Reclamation or Disposal
- ▶ Less Water Consumption
- ▶ Less Pump Wear
- ▶ More Effective Solids Control