

TRUE SUCCESSES

CUSTOMIZED DEMULSIFIER FOR CLEARWATER FORMATION

Challenge

A key operator producing in the Clearwater formation was facing major challenges with solids in their production. This producer is actively drilling pad wells and found that the amount of solids were enhanced by the new drills. These solids resembled formation fines like clay, sand and dirt and were wreaking havoc on their treaters and tanks. Although the operator had been attempting to treat the issue, the solids were not dropping out.

Solution

PureChem Services was approached by the operator to find a solution. The local team pulled water samples, conducted several solid analyses and extensive bottle testing and initiated testing with existing demulsifiers in the product line. Upon analysis and preliminary results, the technical specialist worked to formulate a customized demulsifier to better treat the solids. A field trial was performed with DM-3905 with great success.

Benefit

Since the implementation of DM-3905, the customer has realized several benefits that have resulted in cost savings and safer operations:

- Dropped the solids to the water phase
- Saved the system from upsets
- Reduction in overall treating costs
- Treaters clean up quicker so they do not need to recycle as often
- Reduction in operator time
- Reduced trucking costs
- Cleaner loads
- Less chemical handling due to reduction in batching

DM-3905 is extremely effective at resolving emulsions found at the oil/water interface in treating vessels with are stabilized by solids, clays, iron sulfides, etc.

Area
Marten Hills and Nipisi

Formation
Clearwater

PureChem Product
DM-3905



Sample taken from the treater – water dump



Sample after washes (microscopic view)