

MC EB-1655 Treats Waste Oil Achieves \$22,500 in Savings

BACKGROUND

This oil and gas producing company has several heavy oil properties in the Lloydminster area that produce varying percentages of sand from their producing wells.

Vacuum trucks and pressure trucks are used to remove produced sand from the bottom of the production tanks. This process is called stinging and is done by introducing produced water to the bottom of the production tanks with a stinger with strategic jetting patterns which direct the sand to the suction point of the vacuum truck. This "slurry consists of about 60% sand and 40% of an oil/water mixture. The oil/water mixture, along with a percentage of the solids is delivered to a waste oil recovery tank (BS and W on the tank is 20-50% water with 5-20 % solids). The free sand goes to a cavern for disposal.

ISSUES

A producer was using another chemical company to treat waste oil. Issues included problems treating waste oil to pipeline specs (< 0.5%), solids tied up in the emulsion, fresh waste oil process was getting backed up.

ANALYSIS

The Multi-Chem technical team conducted bottle tests with live samples. The demulsifier in use was incorrect for the application as indicated by signs of over treatment.

Product evaluation identified MC EB-1655 to be the correct choice for the first stage of the application and the secondary product to be MC MX 257-1 (Polymer).

RESOLUTION

Using the right Multi-Chem product/procedure for the application, tank temperatures were raised to 80C, 2000 ppm of EB-1655 was added to 4 cubic meters (m3) of interface oil from the tank and mixed well in the vacuum truck. The mixture was rolled back into the tank and then rolled an additional 15 minutes with truck.

4 m3 of produced water and 5 gallons of MX 257-1 were pulled on the truck and allowed to hydrate. Mixture was then rolled into the tank as in the previous point.

DELIVERED VALUE

Original Method Costs (non-Multi-Chem program)

Road spread disposal: \$9000

Trucking: \$1500

Chemical: \$1500

Total Costs: \$12,000

After- Multi-Chem Customer Revenue Increase

50m³ clean oil: \$ 25,000

Cost

30m³ H2O disposal + trucking: \$250

10m³ Sand disposal + trucking: \$1500

Chemical: \$1100

Total Costs: \$2850

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