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Vary the Viscosity Of Crude Oil

This experiment was to simulate the process of lowering the viscosities of oil. In the beginning of my experiment I filled a spray bottle halfway full of aquarium gravel. I then put in 100 ml of vegetable oil. Then with tubing and rain gauge fitted on the spray bottle, I started pumping only to find the disappointing results of 0 ml extracted. Then I added cold water. This lowered the viscosity of the vegetable oil, allowing me to have a total of 1 ml extracted. Then with the hot water I had a total of 2.5 ml gained, but with the detergent I got the most promising results of 3.5 ml. My best results came from the hot water and detergent. These techniques are still in use today in the oil industry. I found it very interesting that these simple techniques can have a drastic effect on the viscosity of oil.