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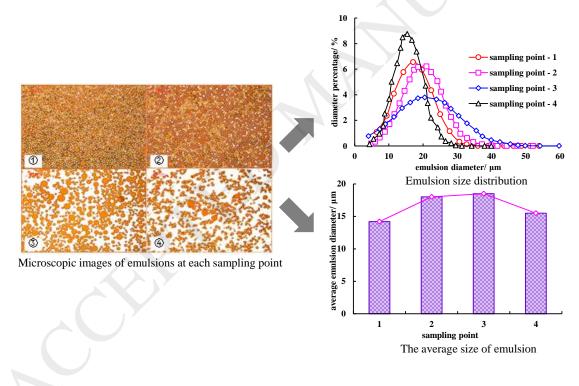
## **Emulsification and Improved Oil Recovery with Viscosity Reducer during Steam Injection Process for Heavy Oil**

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#### **Graphical abstract**

With the injection of steam+VR, plenty of small emulsions generated near the inlet. The emulsions were newly formed, so that they were relatively smaller and not very stable. As the steam+VR was injected continuously, some emulsions coalesced into bigger emulsions and with the further migration of emulsions in the porous media, the emulsion size became small due to the enhancement of shear action.



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