

# Flow-back Water Treatment for Re-use/Re-injection



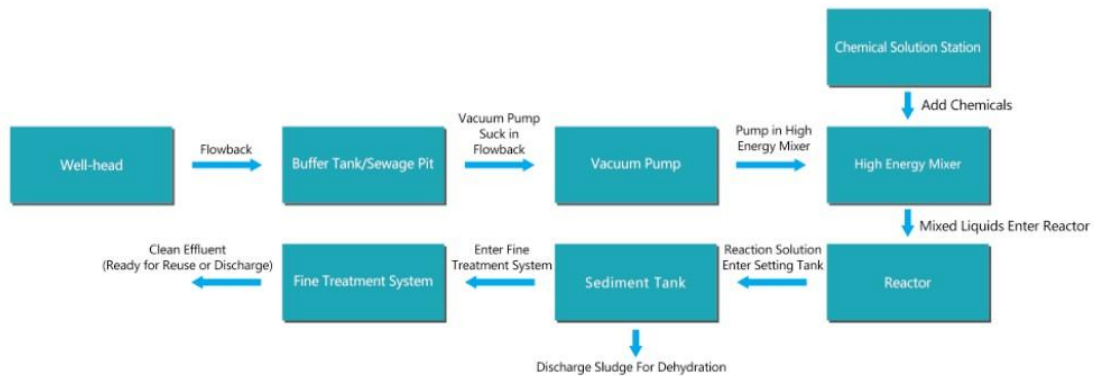
The technology is convenient to move and transfer. Physical and chemical methods are used to remove the hydrocarbons, suspended solids (ss) and specific ions, in order to meet the requirements for fracturing fluid preparation. Biological technology can also be applied to flow-back treatment for safe discharge purpose.

## Introduction



Haimo ESG Group has developed a flow-back treatment and reutilization solution based on the full water cycle treatment experience in the oil and gas field. The technology can meet different customer needs to reuse and discharge the flow-back.

## Process



Flowback is vacuumed into a high energy mixer where specific chemicals will be mixed adequately. After solid-liquid separation, the liquid is delivered to a fine treatment system after which, the effluent is ready for re-use or discharge whereas the solids will be treated adequately.

## Specifications

After treatment, the effluent will reach the requirements of fracturing fluid preparation:	
pH	5.0-7.5
B	Reverse crosslink and second stage crosslink will not exist
Mg <sup>2+</sup> /Ca <sup>2+</sup>	No effect on gel forming and breaking
Turbidity	≤200NTU
SS	≤200mg/L
Al <sup>3+</sup>	≤10mg/L
SO <sub>4</sub> <sup>2-</sup>	≤1000mg/L
SO <sub>5</sub> <sup>2-</sup> /S <sub>2</sub> O <sub>8</sub> <sup>2-</sup>	≤10mg/L
Apparent Viscosity	≤10mPa.s

## Features

- Wide range of applications. This technology has a good impact resistance, which could be used in different fracturing fluid system and fracturing technique for meeting specific fracturing requirements.
- Various Treatment Type. This technology can be used for mass flow-back treatment with integrated plants, and also designed for individual well-site treatment with high mobility.



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- Meet various treatment requirements. Not only for fracturing requirements, but also for safe discharge demands.
  - Skid mounted/ plants.

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<http://www.haimotech.com/Products-and-Services/Environmental-Protection/Flow-back-Water-Treatment-for-Re-use-Re-injection.html>

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