

## CASE STUDY

### OBJECTIVE

Recover frac fluid as fast and economical as possible while bringing production to the market immediately.

### RESULTS

JJ Tech removed 15,200 bbls of fluid (100% recovery) in 27 days 2100 bbls of Oil was recovered in addition to frac fluid. JJ Tech recovered in 27 days what would have taken 5 months with conventional rod pump (pumping @ 100 bbls / day).

JJ Tech recovered in 90 days what would have taken 15 months with conventional rod pump (pumping @ 150 barrels/ day).

### JJ Tech

5220 Hollywood Avenue  
Shreveport • LA 71109  
www.j-jtech.com  
1 • 877 • 217 • 3590

### Aldridge Operating

151 Providence Road  
Natchez, MS 39120

### Global Tubing

501 County Road 493  
Dayton, TX 77535  
www.global-tubing.com

### Oilstone Energy Services

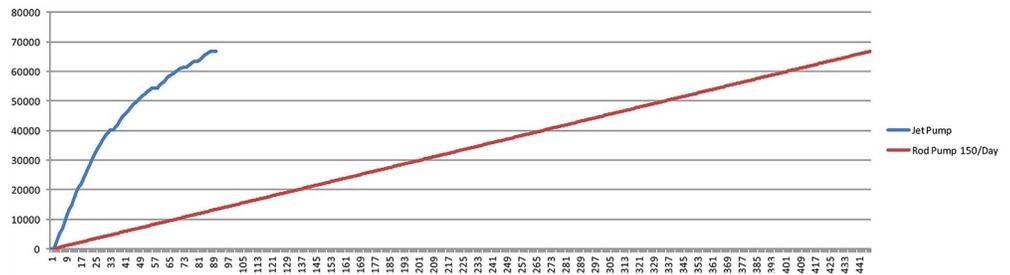
10655 Six Pines Dr.  
Suite 230  
The Woodlands, TX 77380  
www.oilstoneenergy.com

## FRAC-EVAC

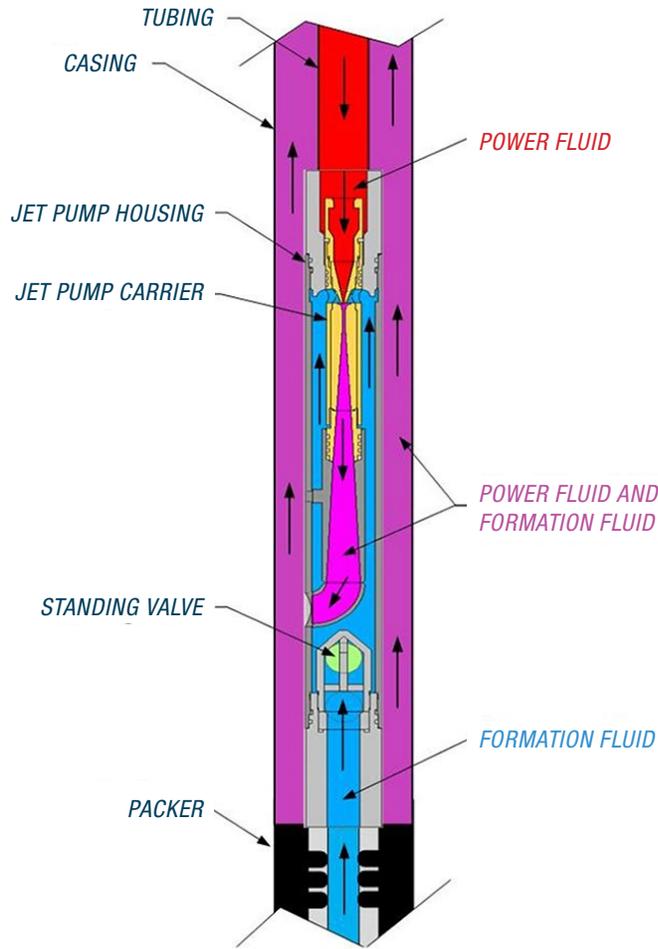
### Accelerated Frac-Flowback with JJ Tech Jet Pump

#### ADVANTAGES OF JET PUMP FLOWBACK

- Rapid frac fluid recovery helps prevent swelling of formation which can reduce permeability
- Jet pump can produce high volumes of fluid (up to 4000 bpd) including frac sand
- Production rates are easily adjusted for a controlled flowback
- Gas can be brought to market immediately
- No backpressure is put on formation (as with Nitrogen)
- Software can calculate PBHP based on production volumes and injection pressure.



Shown Above Actual case study from West Texas Sprayberry



The jet pump is set in the tubing string above a packer which is set just above the perms. Power fluid (water) is injected down the tubing through a nozzle. Power fluid and produced fluid are combined in the throat (Venturi Effect) and return up the annulus.



JJ Tech utilizes a diaphragm pump which has no seals or packing unlike a traditional triplex plunger pump. The seal-less design reduces downtime and maintenance while keeping the location free of lubricating oil and salt water. The T8045 diaphragm pump is capable of 3000 psi at 1550 bpd.

**SURFACE INSTALLATION FOR FRAC-EVAC**  
*JJ Tech's Frac Flowback Configuration*

