JJTECH
CUTTING EDGE ARTIFICIAL LIFT

FRAC-EVAC™

Faster Frac-Flowback with JJ Tech Jet Pump

CASE STUDY

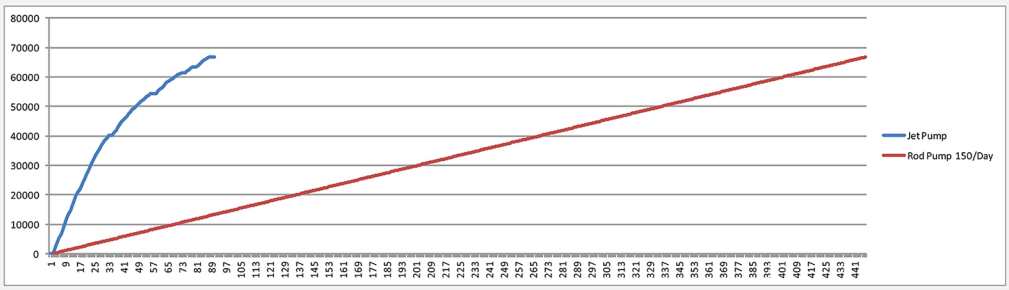
Objective:

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

Results:

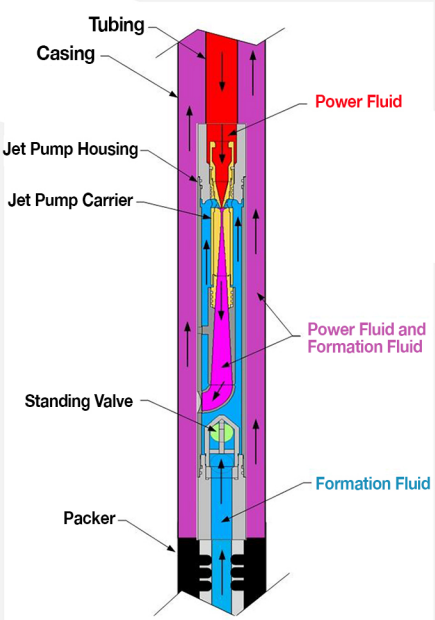
JJ Tech removed 70,000 bbls of fluid (100% recovery) in 90 days 21,630 bbls of Oil was recovered in addition to frac fluid, along with 40 MMCF of Gas

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



Shown above: Actual case study from West Texas Sprayberry

How It Works



The jet pump is set in the tubing string above a packer which is set just above the perfs. 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.

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: 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.

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Rev 3/13

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Surface Installation for *FRAC-EVAC*
(JJ Tech's Frac Flowback Configuration)