



a division of



# TwinJet™ Completion for Improved Horizontal Well Performance



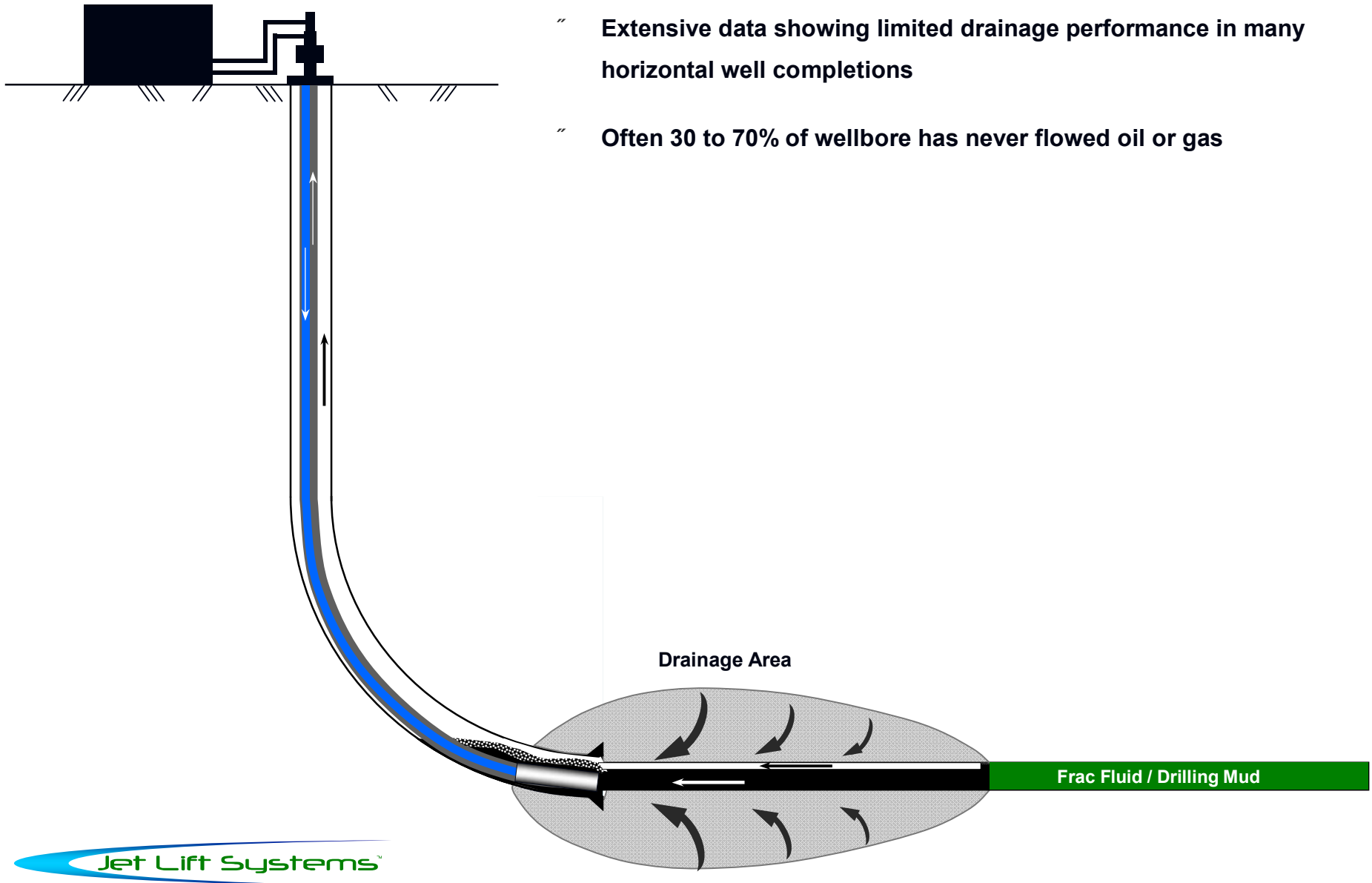
**Hydraulics Issues for  
Conventionally Completed  
Horizontal Wells**

**Jet Lift Systems™**

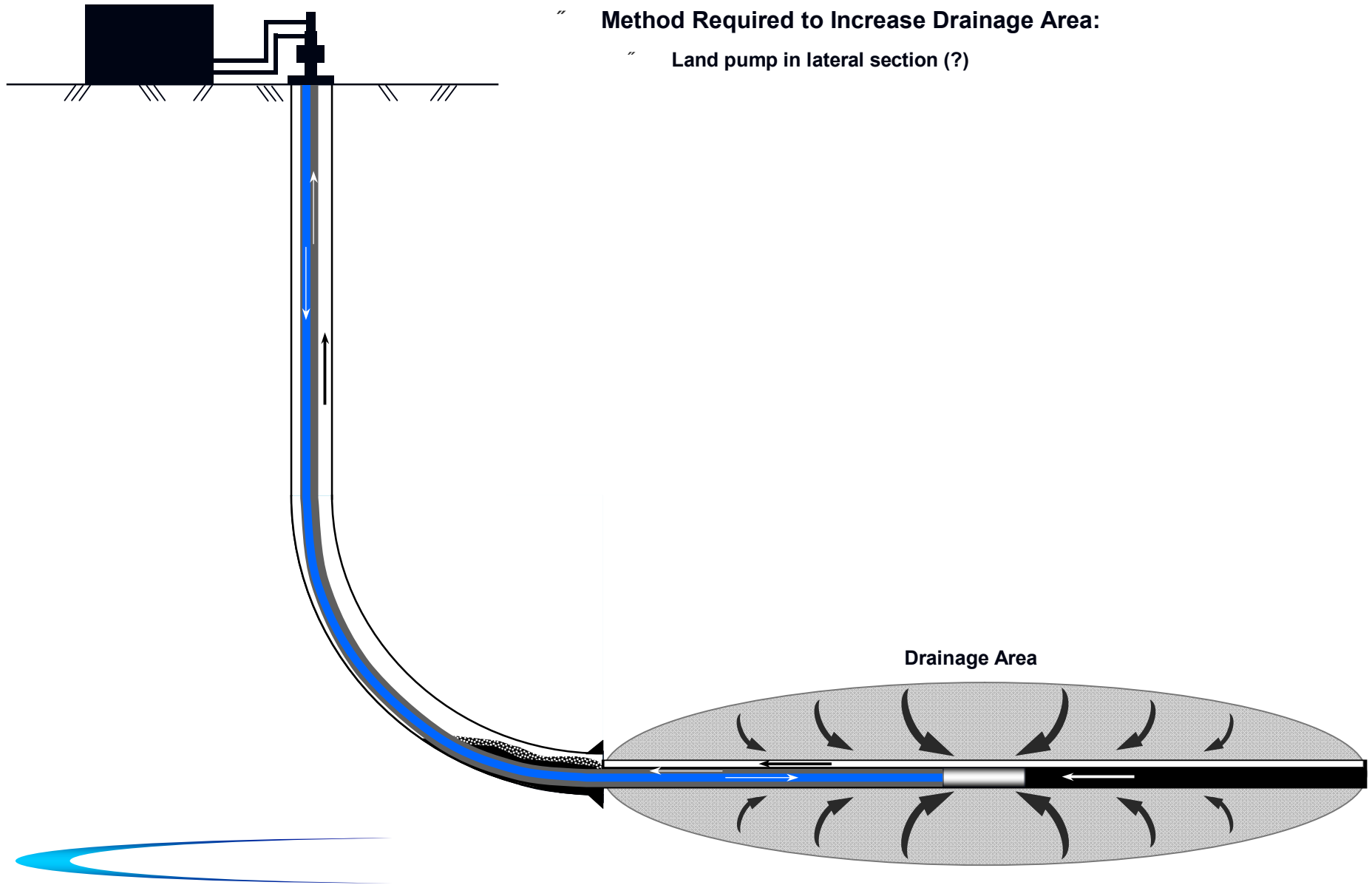
*a division of*

  
**Source Rock**  
Energy Partners Inc

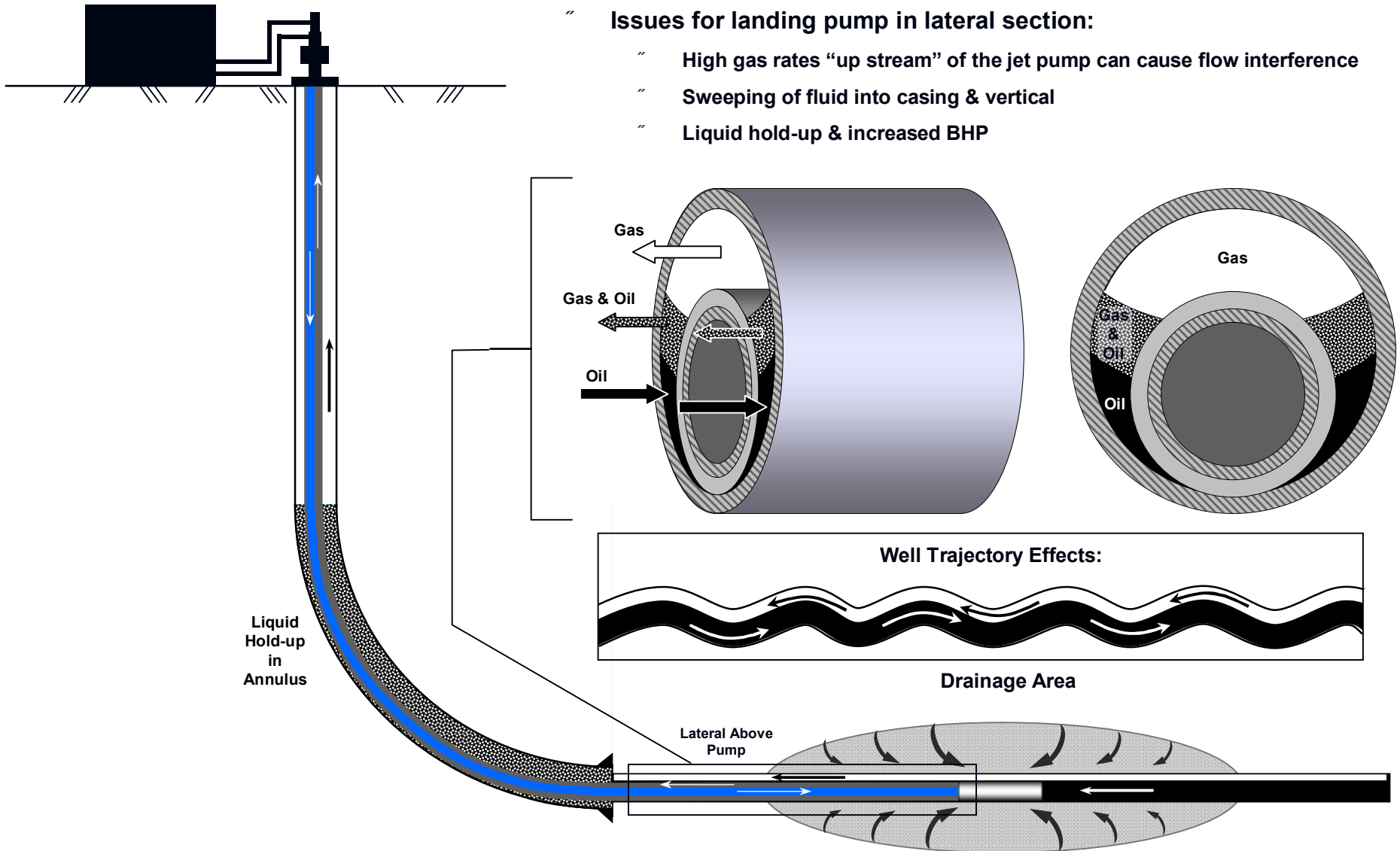
## Horizontal Wellbore Hydraulics Issues:



# Horizontal Wellbore Hydraulics Issues:



# Horizontal Wellbore Hydraulics Issues:



## Issues for landing pump in lateral section:

- High gas rates "up stream" of the jet pump can cause flow interference
- Sweeping of fluid into casing & vertical
- Liquid hold-up & increased BHP

**TwinJet™ Completion**  
**for**  
**Improved Horizontal Well Performance**

The logo for Jet Lift Systems features the text "Jet Lift Systems™" in a white, sans-serif font, centered within a horizontal oval shape. The oval has a blue-to-white gradient, with the blue being more prominent on the left side.

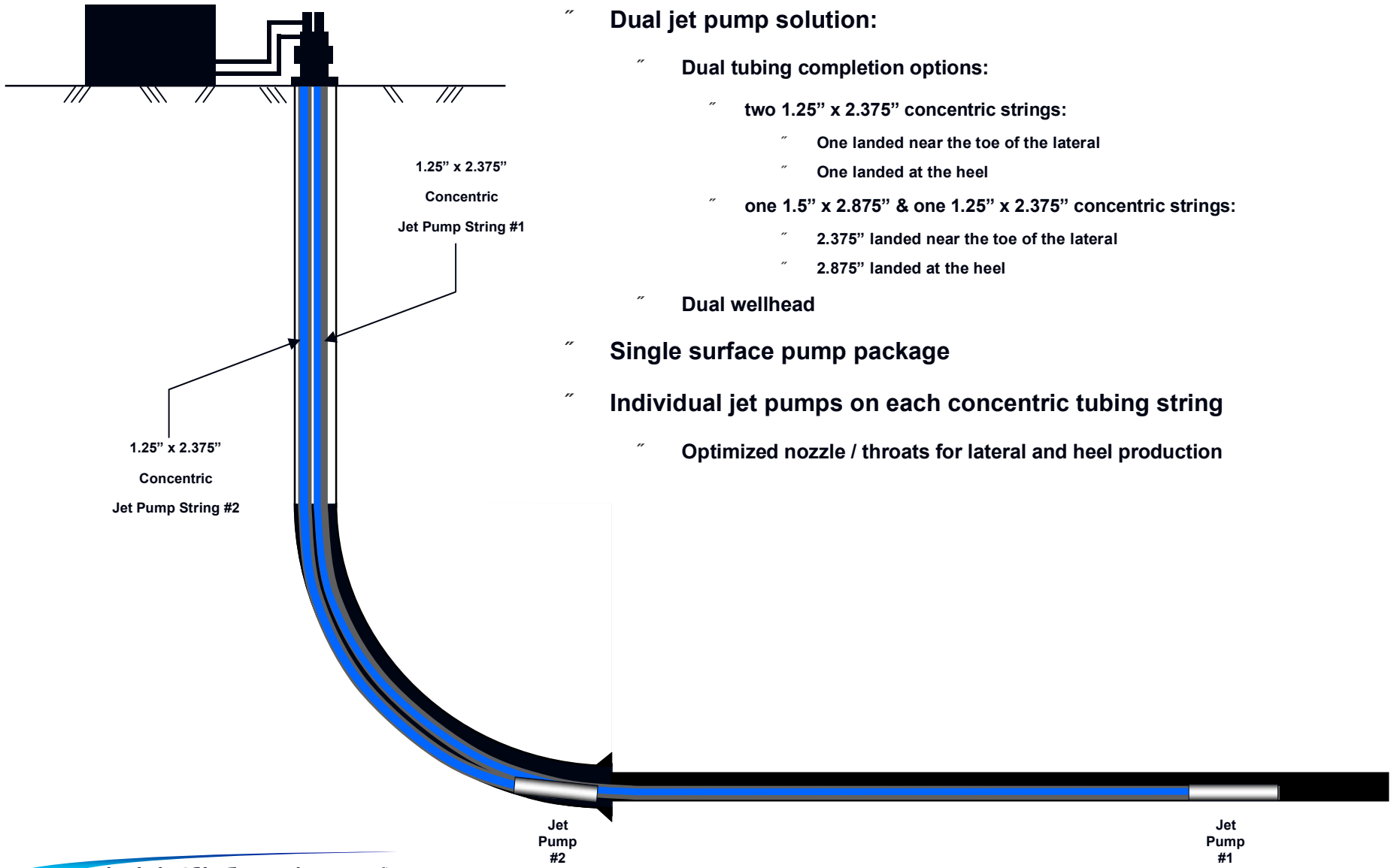
**Jet Lift Systems™**

*a division of*

The logo for Source Rock Energy Partners Inc consists of a white, wavy horizontal line above the text "Source Rock" in a bold, sans-serif font. Below "Source Rock" is a thin white horizontal line, and underneath that is the text "Energy Partners Inc" in a smaller, sans-serif font.

**Source Rock**  
Energy Partners Inc

# SREP TwinJet™ Completion:



“ Dual jet pump solution:

“ Dual tubing completion options:

“ two 1.25" x 2.375" concentric strings:

“ One landed near the toe of the lateral

“ One landed at the heel

“ one 1.5" x 2.875" & one 1.25" x 2.375" concentric strings:

“ 2.375" landed near the toe of the lateral

“ 2.875" landed at the heel

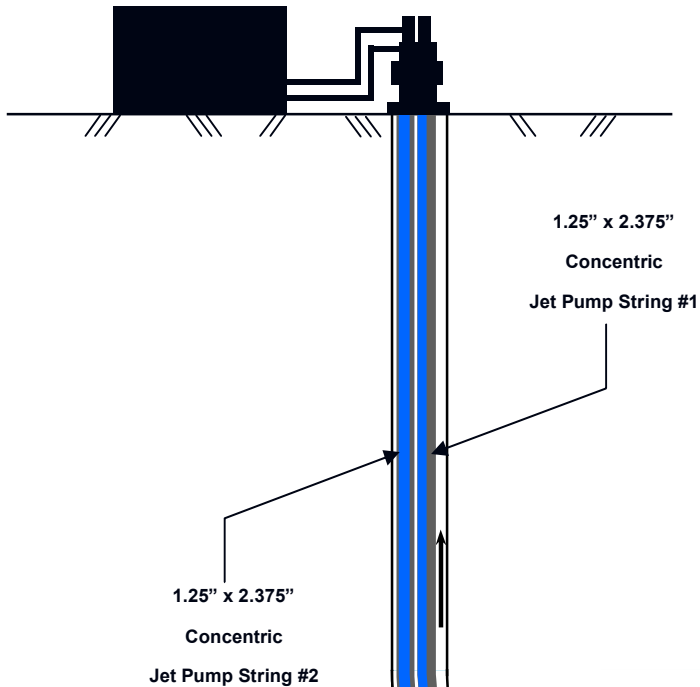
“ Dual wellhead

“ Single surface pump package

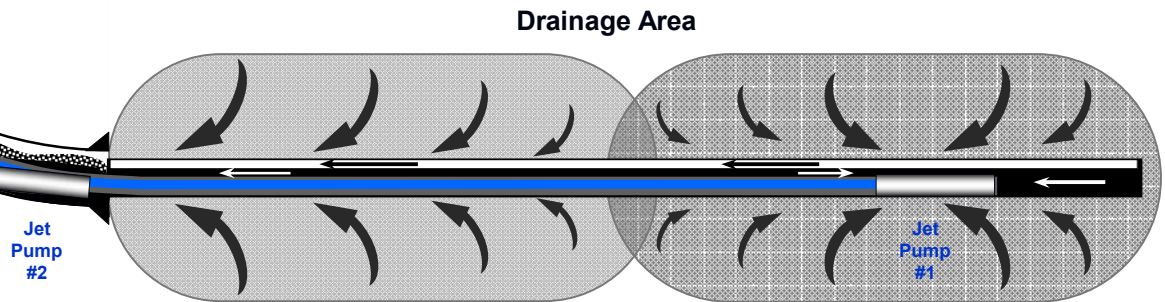
“ Individual jet pumps on each concentric tubing string

“ Optimized nozzle / throats for lateral and heel production

# SREP TwinJet™ Completion:

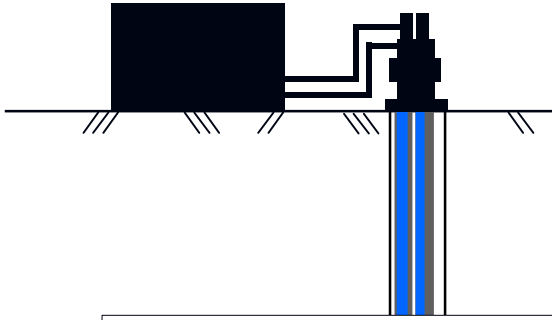


- “ Dual jet pump solution:
  - “ Dual tubing completion options:
    - “ two 1.25" x 2.375" concentric strings:
      - “ One landed near the toe of the lateral
      - “ One landed at the heel
    - “ one 1.5" x 2.875" & one 1.25" x 2.375" concentric strings:
      - “ 2.375" landed near the toe of the lateral
      - “ 2.875" landed at the heel
  - “ Dual wellhead
- “ Single surface pump package
- “ Individual jet pumps on each concentric tubing string
- “ Optimized nozzle / throats for lateral and heel production

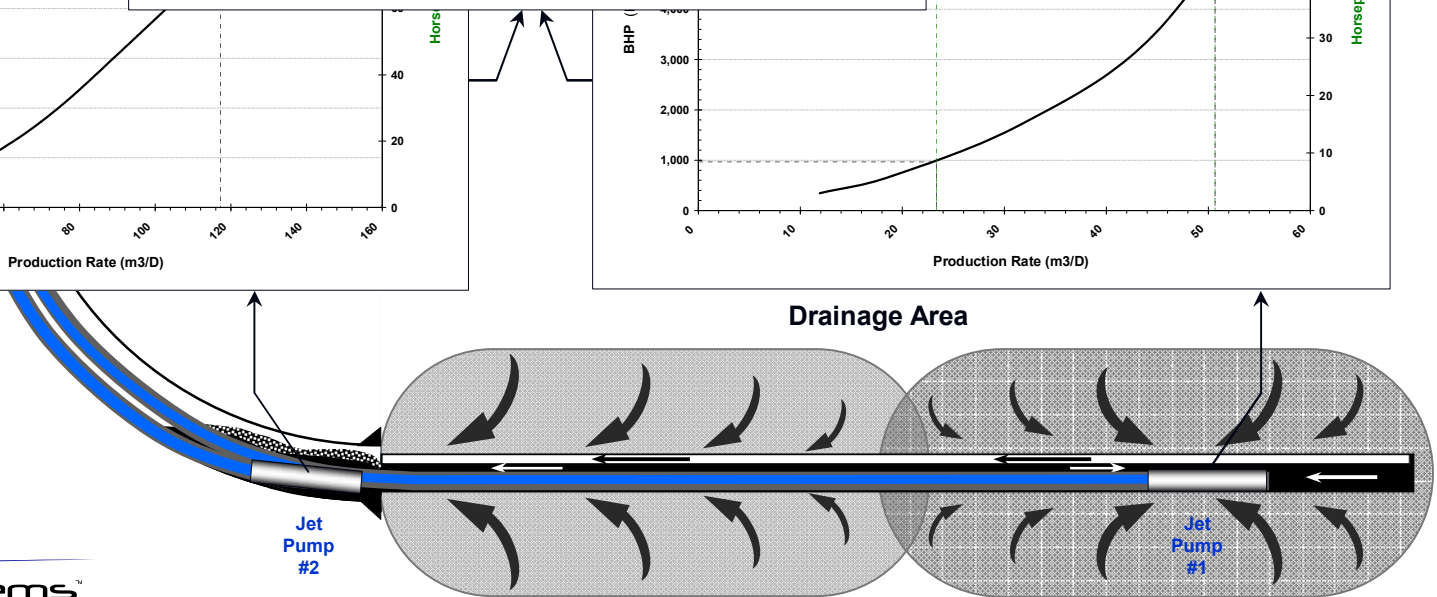
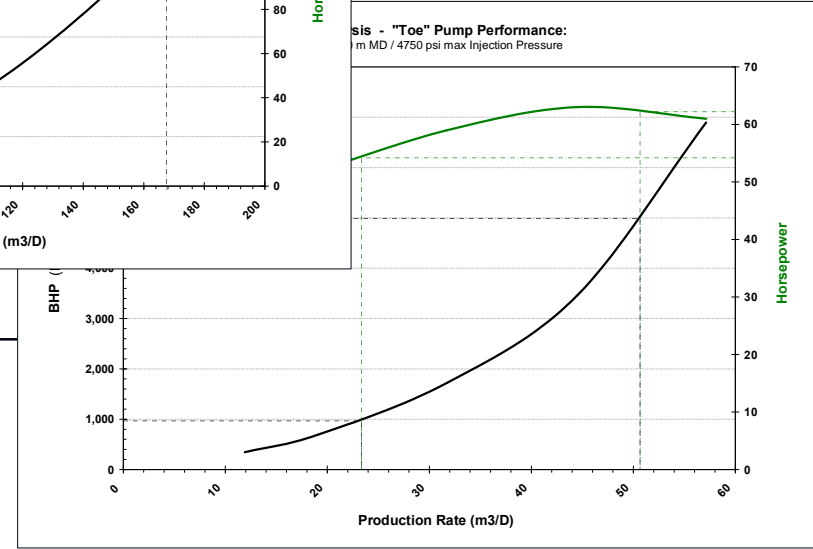
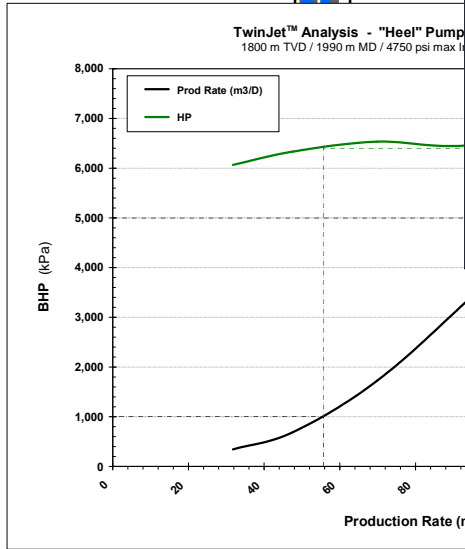
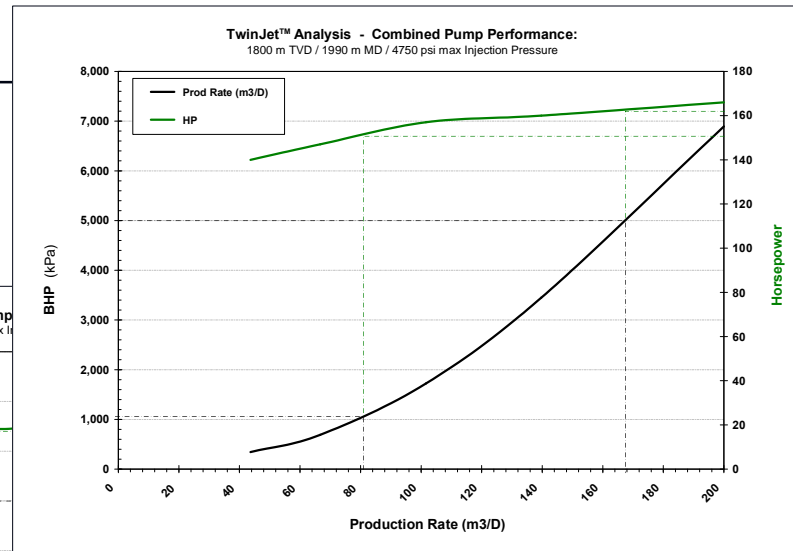




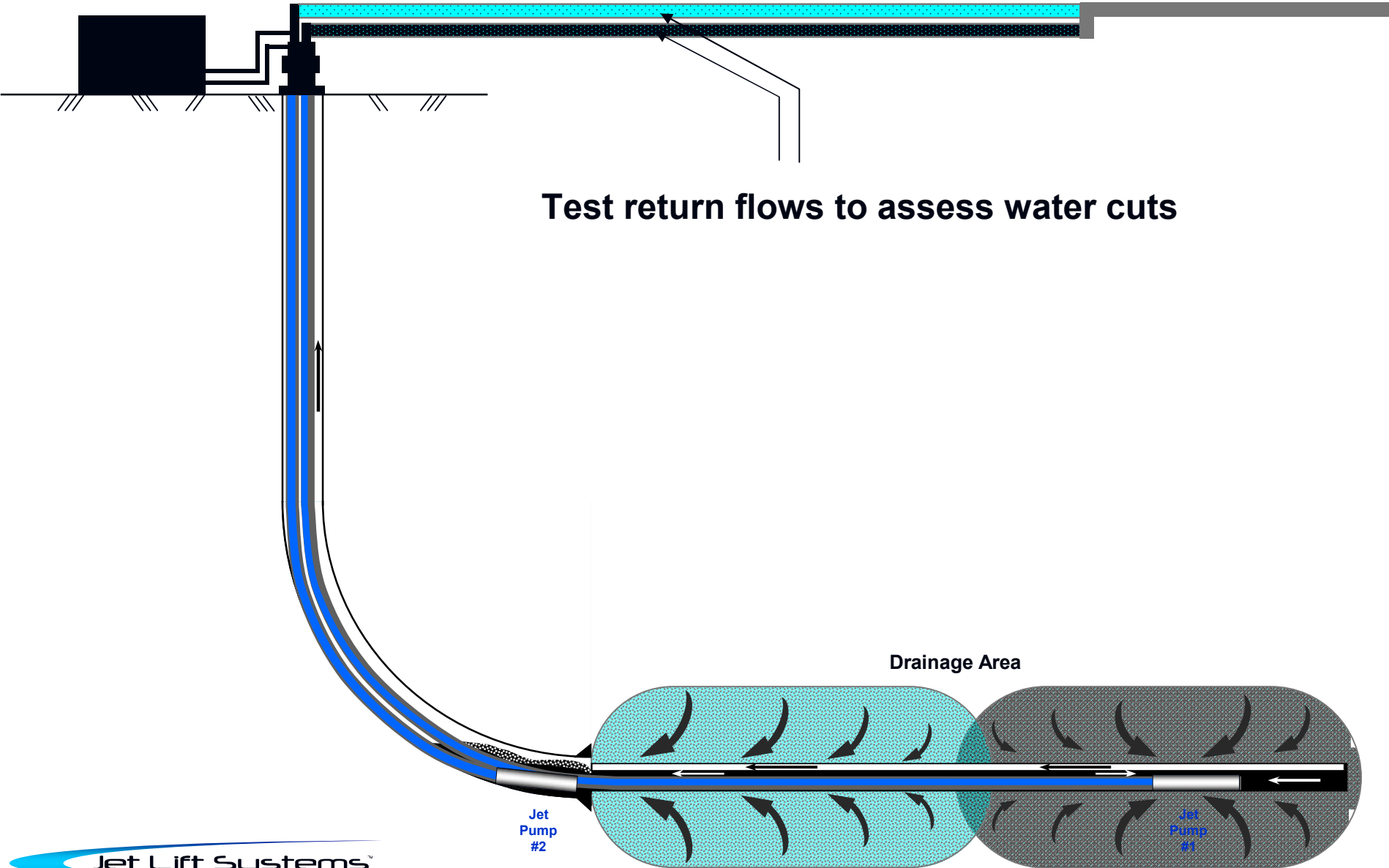
# SREP TwinJet™ Completion:



**Optimize Lift Performance for Each Jet Pump**



# SREP TwinJet™ Completion:



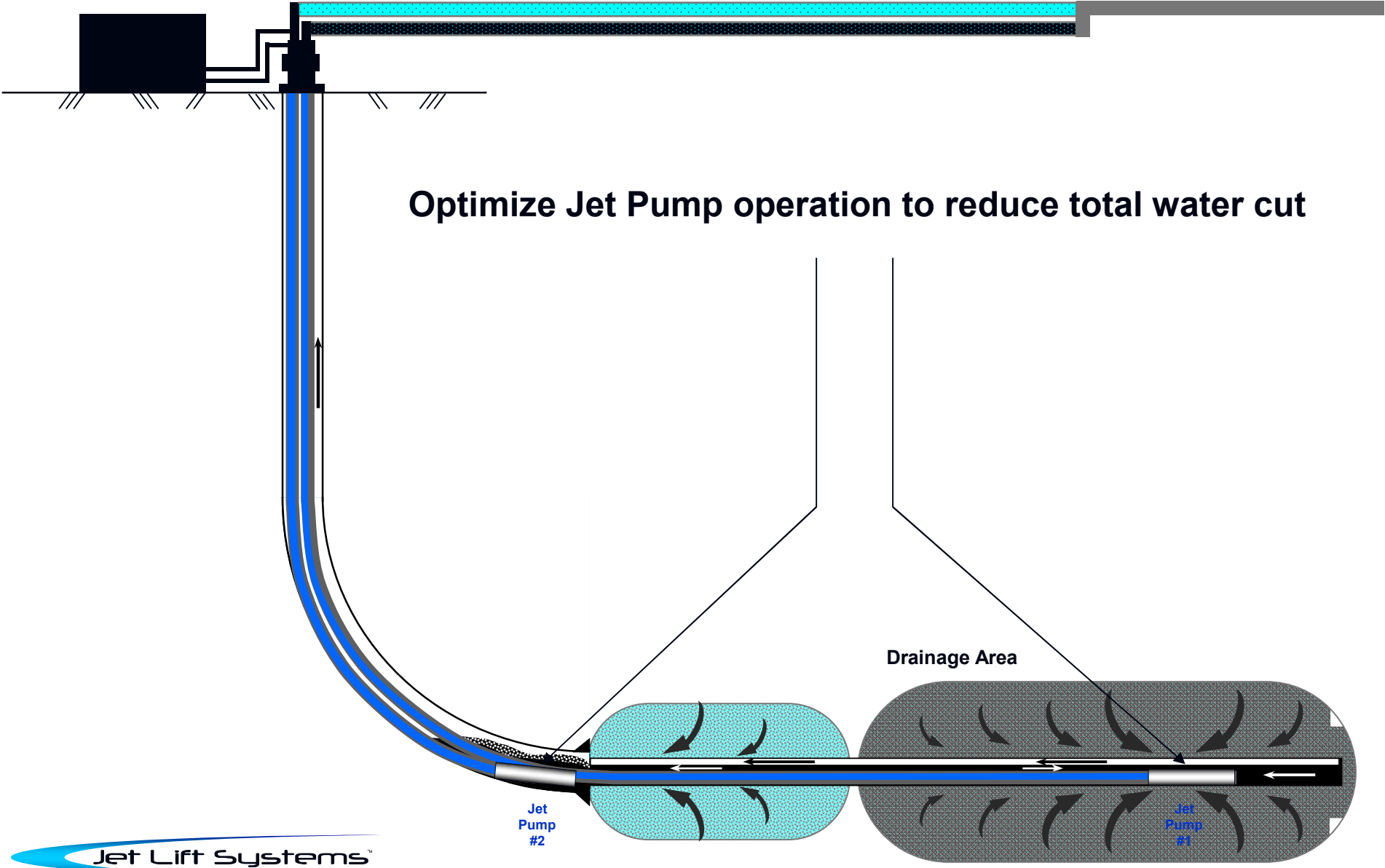
Test return flows to assess water cuts

Drainage Area

Jet Pump #2

Jet Pump #1

# SREP TwinJet™ Completion:



Optimize Jet Pump operation to reduce total water cut

Drainage Area

Jet Pump #2

Jet Pump #1

Jet Lift Systems™

a division of



**Source Rock**

Energy Partners Inc



*Changing Artificial Lift Technology*