



**WHIPLASH**

***Production Services Inc.***



# WHO WE ARE

Whiplash Production Services Inc. is a Canadian owned oil and gas service organization which provides expertise in both AER Compliance Testing as well as the acquisition of accurate field data to assist producers in making informed decisions to better optimize their artificial lift systems.

Our experienced staff will work with energy producers to provide accurate data in a timely fashion in order to increase efficiency by focusing on various factors including:

- **Increasing production uptime.**
- **Reducing operating expenses due to less frequent mechanical failures.**
- **Decreasing electrical and energy costs.**
- **Increasing the efficiency of field operations.**



# WHAT WE DO

We know that in order for any oil and gas operation to be successful, you must have accurate information. Our highly trained field personnel, using the latest technology and equipment, are able to collect all required information to make quality informed decisions.

Our services fall into three main categories:

## ***Oil & Gas Services***

Whiplash Productions Services provides accurate data in a timely manner to assist producers in making informed decisions to better optimize production and manage their artificial lift systems.

## ***AER Compliance Testing***

Whiplash Production Services work with producers to ensure the guidelines and recommendations set out by the AER are followed to match each client's specific requirements.

## ***Engineering Services***

Whiplash Production Services maintains that preserving our vendor neutrality ensures that all field data will be viewed from an objective point of view. This allows our engineering team to make specific, detailed recommendations for enhancing your project's efficiency, productivity, and profitability with our client's best interests in mind.



# OIL & GAS SERVICES

## ***Fluid Level Determination***

- i. Field reports
  - a. Includes: Fluid Level, Tubing and Casing Pressures, Surface Pump Speed, Length of Stroke, and Current Pitman Position.
- ii. Static BHP Calculation

## ***Annular Fluid Depression Testing***

- i. Fluid level
- ii. Producing Pump In-take Pressure Calculation
- iii. Annular Fluid Column Gradient Calculation

## ***Acoustic Pressure Surveys***

- i. Static Fluid Levels
- ii. Build-ups
- iii. Pressure Transient Analysis
- iv. Inflow Performance Relationship (IPR)

## ***Dynamometer***

- i. Fluid Level Test
- ii. Tubing and Casing Pressures
- iii. Surface Dynamometer Card
- iv. Rod Pump Valve Checks
- v. Counterbalance Check
- vi. Rod String Loading

## ***Pressure Logging***

- i. Remote Monitoring of Tubing and Casing Pressures

## ***Pump-off Control***

- i. Supply and Service POC for Rod Pump and Progressive Cavity applications
- ii. Supply and Service existing and new Hosts and HMI's as required

## ***Plunger Lift***

- i. Tubing Plunger System Install and Service



## ***Surface Casing Vent Testing (SCVT)***

- i. Completed report of surface casing leak which includes bubble test, type of flow, flow rate, and build up all recorded and completed with AER forms.

## ***Gas Migration Testing***

- i. Completed Report of any Surface Gas Migration within Designated Wellbore Perimeter completed with AER forms.

## ***Isolation Packer Testing***

- i. Pressure Unit and Surface Gauges used to test integrity of Isolation Packer

## ***Lease Inspections***

- i. D-13 Inspections can be completed to client's individual requirements to ensure AER Compliance.

## ***Stock Tank Vent Testing (GOR)***

- i. Positive Displacement Meters are temporarily installed to verify gas rates being vented off producing oil wells.

## ***Acoustic Downhole Pressure Determination***

- i. Build-ups and Fall-offs determined by a series of Fluid levels and pressures

# ENGINEERING SERVICES

## ***Pas File Creation and Submission***

- i. Acoustic Pressure Surveys
- ii. Surface Casing Vent Tests
- iii. Packer Isolation Tests

## ***Acoustic Pressure Calculations***

- i. Single Shot Pressure Calculations
- ii. Static and Flowing Pressure Calculations

## ***Dynamometer Analysis & Recommendation Report***

- i. Production Potential
- ii. General Analysis of Entire Pumping System
- iii. Recommendations to Optimize Current Production Practices
- iv. Fluid Level and Pressures
- v. Site Photos and visual Inspection
- vi. Pumping Unit Description and Efficiency Rating
- vii. Prime Mover Description and Efficiency Rating
- viii. Rod String Details and Efficiency Rating
- ix. Rod Pump Description and Downhole Conditions
- x. Surface Card Overlay
- xi. Downhole Card with Card Analysis

## ***Oil Well Production Engineering***

- i. Complete field analysis and recommendation
- ii. Dynamometer analysis for rod pumping systems
- iii. Depression calculation and producing bottom-hole pressure determination
- iv. IPR (In flow performance relationship)
- v. Rod Pumping recommendation and design

## ***Gas Well Production Services***

- i. Complete plunger lift analysis
- ii. Wellbore modeling, static pressure profiling, and downhole choke sizing
- iii. Liquid loading determination analysis
- iv. Coil tubing and tubing designs