

# PCP Functional Hydraulic Test Report

PROGRESSING CAVITY  
PUMPING SYSTEMS

PCP ID: WFT 59-1800-HN314 10807829-418965 XL 300-30

## Pump Information:

Pump Model:	WFT 59-1800		
Stator Identifier:	WFT 59-1800-HN314 10807829		
Rotor Identifier:	WFT 59-1800 418965 XL		
Nom. Cap. (m³/D/100rpm):	59.0	Rated P (psi):	2550
		Elastomer Code:	WFT - HN314
Rotor Major (in.):	2.063	Rotor Coating:	Chrome
Rotor Minor (in.):	1.377	Rotor Length (in.):	423
Stator Condition:	New	Rotor Condition:	New

## Test Results Summary

	Actual
Nom. Vol. Eff. @ Test P (%):	14.7
Test P (% of Rated P):	100.0
Test Pressure (psi):	2550.0
Torque @ Test P (ft*lbs):	871.0
Actual Capacity (m³/D/rpm):	0.590
Torque @ No Load (ft*lbs):	45.0
Max Pressure (psi):	2700

## Test Information:

		Target
Test Location:	WFT CAN Redcliff	Speed (rpm): 300
Test Bench:	WFT CAN Redcliff - VFD	Temp. (°C): 30
Date Tested (YYYY-MM-DD):	2023-11-08	Test Fluid: Water
Tested By:	Thomas Penner	% of Rated P: 100
Test Type:	Re-Match	Test Pressure (psi): 2550

## Customer Information:

Inventory @:	WFT CAN Redcliff
Company:	Blackspur
Work Order #:	15288908

## Pulled From:

Field:	
UWI:	
Location Description:	

## Install Information:

Install Date (YYYY-MM-DD):	2023-11-08
Field:	Thorsby
UWI:	100/16-11-051-02/W5
Location Description:	

## Test Data:

Target ΔP**	Equivalent Water Head	Data Time	Actual Flow Rate	Actual Capacity	Nominal Vol. Eff.	Total Torque	Power Input
psi	m H2O	s	m³/D	m³/D/rpm	%	ft*lbs	hp
0	0	60	177.0	0.590	100.0	45.0	2.6
650	457	66	160.9	0.536	90.9	277.0	15.8
1300	914	82	129.5	0.432	73.2	448.0	25.6
1900	1336	122	87.1	0.290	49.2	662.0	37.8
2550	1793	407	26.1	0.087	14.7	871.0	49.8

\*\*Actual pressures +/- 50 psi

Efficiency @ Three Speeds & Torque vs. Differential Pressure

