

PCP Functional Hydraulic Test Report

PROGRESSING CAVITY
PUMPING SYSTEMS

PCP ID: WFT 59-1800-HN314 10754277-415708 XL 300-30

Pump Information:

Pump Model:	WFT 59-1800		
Stator Identifier:	WFT 59-1800-HN314 10754277		
Rotor Identifier:	WFT 59-1800 415708 XL		
Nom. Cap. (m³/D/100rpm):	59.0	Rated P (psi):	2550
		Elastomer Code:	WFT - HN314
Rotor Major (in.):	2.060	Rotor Coating:	Chrome
Rotor Minor (in.):	1.372	Rotor Length (in.):	423
Stator Condition:	New	Rotor Condition:	New

Test Results Summary

	Actual
Nom. Vol. Eff. @ Test P (%):	0.0
Test P (% of Rated P):	100.0
Test Pressure (psi):	2550.0
Torque @ Test P (ft*lbs):	937.0
Actual Capacity (m³/D/rpm):	0.590
Torque @ No Load (ft*lbs):	40.0
Max Pressure (psi):	2550

Test Information:

	Target
Test Location:	WFT CAN Redcliff
Test Bench:	WFT CAN Redcliff - VFD
Date Tested (YYYY-MM-DD):	2023-03-08
Tested By:	Thomas Penner
Test Type:	Re-Match
Speed (rpm):	300
Temp. (°C):	30
Test Fluid:	Water
% of Rated P:	100
Test Pressure (psi):	2550

Customer Information:

Inventory @:	WFT CAN Redcliff
Company:	Blackspur
Work Order #:	15109971

Pulled From:

Field:	
UWI:	
Location Description:	

Install Information:

Install Date (YYYY-MM-DD):	2023-03-16
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	40.0	2.3
650	457	66	160.9	0.536	90.9	294.0	16.8
1300	914	86	123.5	0.412	69.8	494.0	28.2
1900	1336	164	64.8	0.216	36.6	716.0	40.9
2550	1793	0	0.0	0.000	0.0	937.0	53.5

**Actual pressures +/- 50 psi

Efficiency @ Three Speeds & Torque vs. Differential Pressure

