

The background of the entire slide is a dark blue gradient with a white wireframe pattern of jagged mountain peaks.

RFID

JOURNAL

DIGITAL SUMMIT

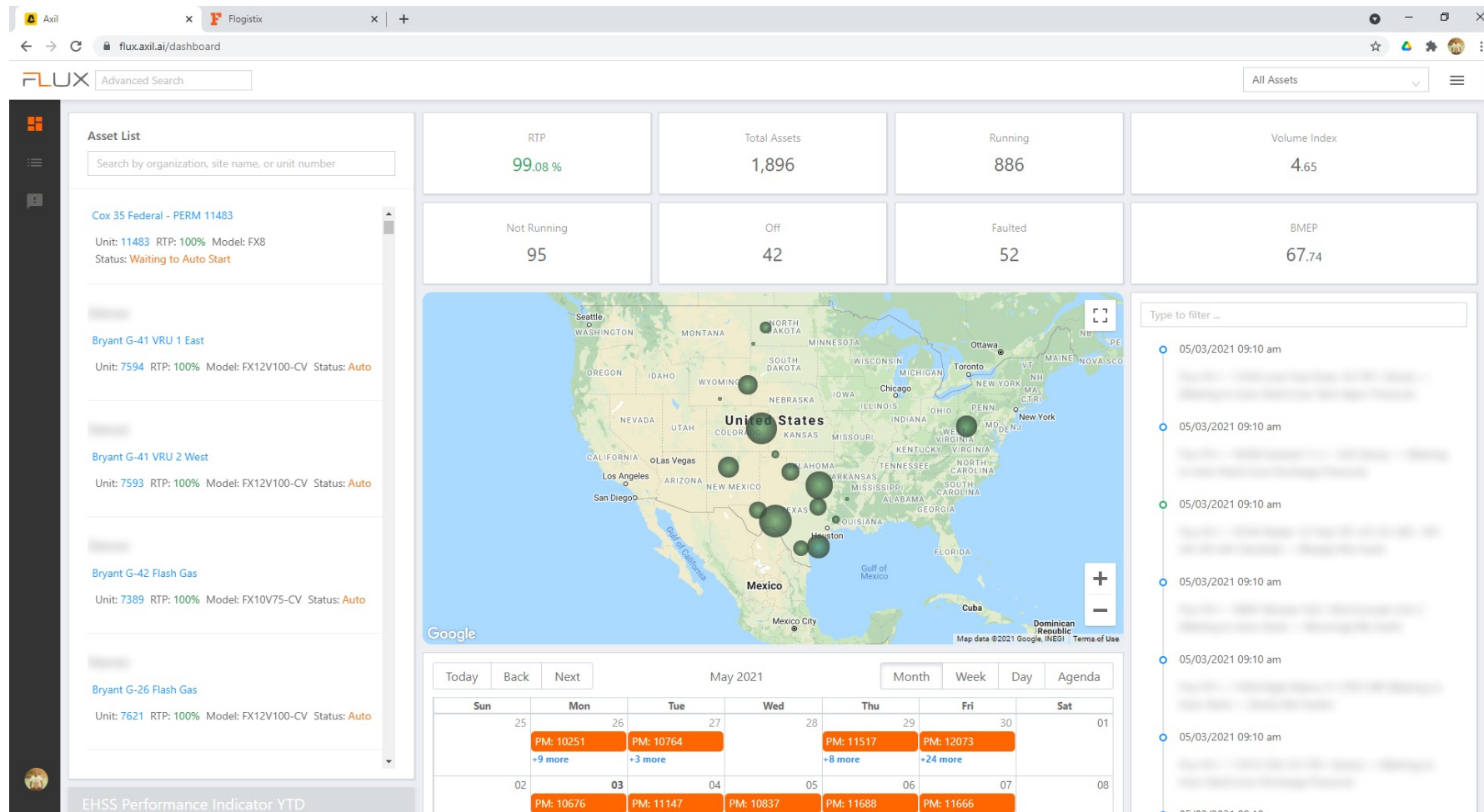
MAY 10 - 13, 2021

The Evolution of Industrial IoT & Digital Twins

Jerred Wilson

Chief Technology Officer, Flogistix

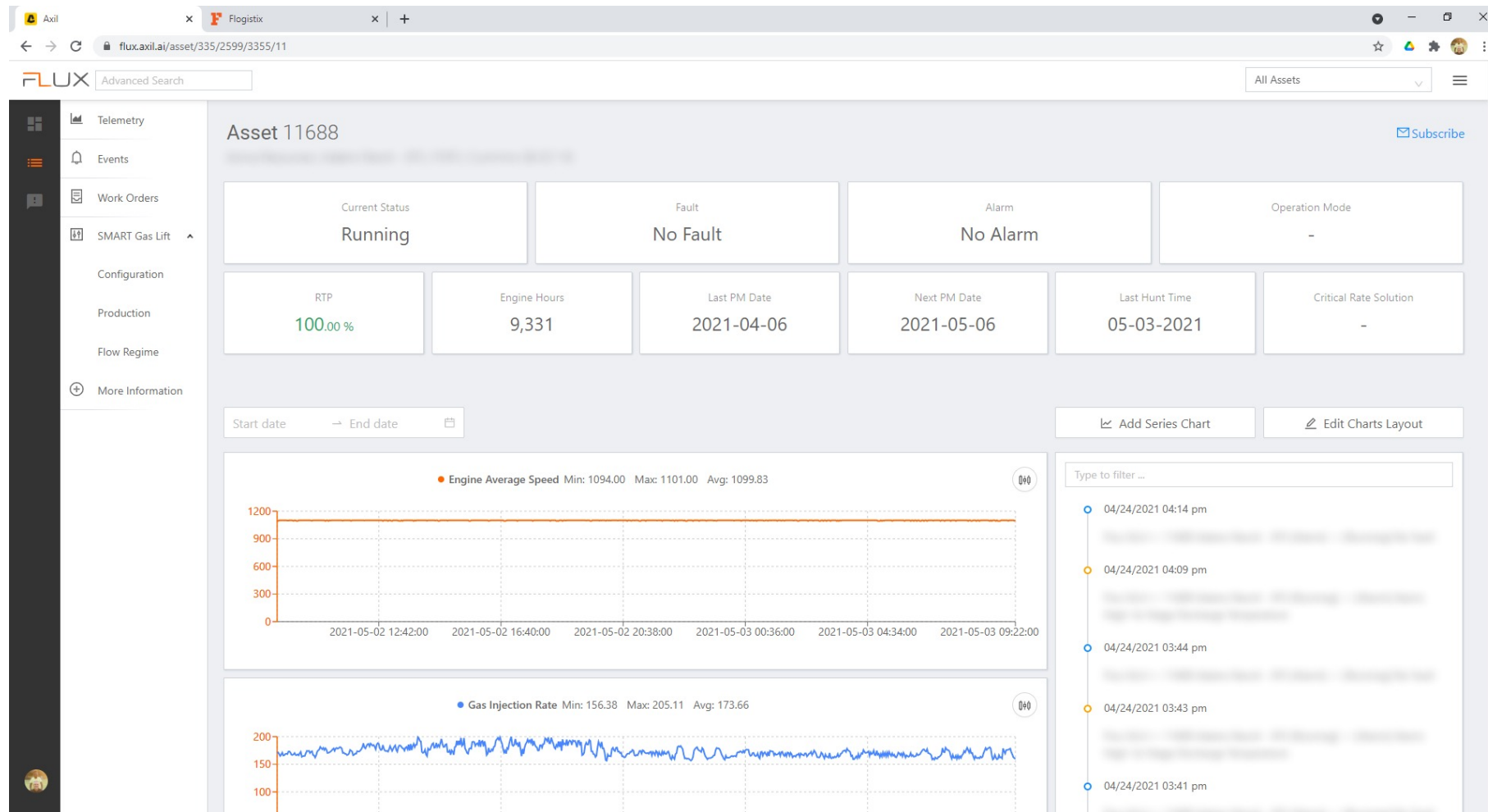
Industrial IoT – 2014-2018 (Insight)



Industrial IoT – 2014-2018 (Insight)



Industrial IoT – 2018-2020 (Control)



Industrial IoT – 2018-2020 (Control)

critical-rate.axil.ai/asset/324/2331/2967/2972/configuration

FLUX

Asset Configuration Production Flow Regime

Edit Configuration

Gas Lift Model Parameters

1 Fluid Properties 2 Wellbore Geometry 3 Valve Design 4 Model Parameters 5 Test/Submit

Time Zone offset: -12

Water Cut: 0.000

Oil Production Instant Rate Plc: 78.635345

Gas Production Instant Rate Plc: 188.26366

Water Production Instant Rate Plc: -451.031455

Gas Gravity: 0.75

Next

Label	PSC
Valve 12	907
Valve 11	927
Valve 10	947
Valve 9	967
Valve 8	987
Valve 7	1007
Valve 6	1027

Gas Lift Model Parameters

1 Fluid Properties 2 Wellbore Geometry 3 Valve Design 4 Model Parameters 5 Test/Submit

Casing Length: 10555 ft

Casing Inner Diameter: 3.92 in

Tubing Inner Diameter: 1.995 in

Tubing Total Length: 10520 ft

True Vertical Depth: 10532 ft

Well Total Measured Depth: 17500

Previous Next

Download Configuration Upload Configuration

8100 8118 7600 7617

Industrial IoT – 2018-2020 (Control)

Gas Lift Model Parameters

Fluid Properties Wellbore Geometry Valve Design Model Parameters Test/Submit

of Valves

GLV#

PSC

12 907 1040

11 927 1010

10 947 9600

Previous Next

Gas Lift Model Parameters

Fluid Properties Wellbore Geometry Valve Design Model Parameters Test/Submit

IPR Curve Selection: guo_critical_rate

Gas Lift Model Selection: vogel

IPR Reservoir Pressure: 700

psia

Vogel IPR Maximum Flow: 250

bpd

Previous Next

Gas Lift Model Parameters

Fluid Properties Wellbore Geometry Valve Design Model Parameters Test/Submit

Control using Critical Rate? ☒

Test Configuration Submit Configuration

Please Test Configuration

Previous Cancel

Download Configuration Upload Configuration

Industrial IoT – 2020+ (Simulation, 3D, XR)

The screenshot displays the FLUX Industrial IoT dashboard. On the left, a sidebar contains navigation links: Telemetry, Events, Work Orders, and 3D Digital Twin (highlighted). The main content area is titled 'Asset 11959' and features a 'Unit Profile' table and a '3D Modal' view.

Name	Value
Driver	GED
Application Type	Vapor Recovery
Compressor Serial	5258X498R
Driver Rated HP	188 HP
Next PM Date	2021-05-06
Last PM Date	2021-03-22
Latitude	35.27
Longitude	-97.66

The 3D Modal view shows a detailed 3D model of a compressor unit. A 'Suction Pressure' overlay displays the following data:

- Current Reading: 0.300000011920929 psi
- Last Update: 26 Apr 2021 16:28:58
- Full Range: 1E-05-15 psi

The 3D model includes a pressure gauge and various pipes and valves. The 'unity WebGL' logo is visible at the bottom left of the 3D view, and the 'Flogistix' logo is at the bottom right. The 'Image' and 'Location' labels are positioned below the 3D view.

THANK YOU

