Samsara
for Oil & Gas

SOLUTION OVERVIEW

A Complete Platform for the Oil & Gas Industry

08082019JK

Industrial

- Dashboards
- I/O
- Map
- Automation
- Reports
- Analysis

Search assets

- Aries Well Pad
- Capricorn Well Pad
- Gemini Well Pad
- Libra Well Pad
  - Libra Dehydrator
  - Libra Heater treater
  - Libra Pump Jack 1
  - Libra Pump Jack 2
  - Libra Separator
  - Libra Tank Battery
- Oilfield Overview
- Pisces Well Pad

Libra Pad Generator Parameters

KW Load %
67%

Freq
60 Hz

Generator Status
ON

Runtime P
8
4
0
03/04/2020

Libra Well Pad—Libra Pump Jack 2

Dashboards   I/O   Details   Activity   Manual Entry

‹ Libra Pad   DEFAULT

Total flow
20000
15000
10000
5000
0
5 PM   8 PM   11 PM   03/03/2020   5 AM   8 AM

Runtime

Health Score

Samsara offers a complete, easy-to-use platform to improve efficiency, safety, and sustainability across operations.

CONNECT EVERY ASSET

Hardware connects existing controllers and SCADA systems, and Mobile Forms bring pumper-collected data into the cloud in real-time giving you a single, unified view of your oilfield.

BUILD CUSTOM DASHBOARDS

Integrate and visualize real-time and historical data in easy to build dashboards and reports. Easily create multiple views and share them with an unlimited number of users.

MAXIMIZE EFFICIENCY AND SAFETY

Minimize downtime and the safety impact of production issues with real-time alerts via text, email, and phone call. Respond quickly with the ability to adjust asset setpoints remotely.

Real-time visibility and control from production to pipeline.

Samsara is an Industrial IoT company that provides oil and gas companies with end-to-end data visibility, mobile forms, alerts, and control using industrial gateways with built-in LTE connectivity, sensors, and the Samsara cloud dashboard—all integrated in a flexible, easy-to-use platform.

Customers trust Samsara's technology to drive business outcomes across remote sites: to help them consolidate their data so they can minimize downtime, reduce worker and environmental safety risks, optimize production, and improve the overall efficiency of their operations.

Buffalo Head Energy Services

Samsara makes it easy for Buffalo Head to respond to issues in the oilfield in real-time with reliable alerts.

➤ **Flexible dashboards** allow Buffalo Head to easily create custom views of their clients' operations in a matter of minutes.

➤ **Open platform hardware with pre-provisioned cellular** connects a wide array of industrial site hardware directly to the cloud in minutes drastically cutting integration time.

➤ **Easy to configure alerts** help Buffalo Head prevent unplanned downtime and failures on mission critical equipment.

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Samsara has become a seamless data broker for disparate systems in the oilfield. Any system that's out there, we can integrate with it, transmit that data, and provide wireless remote monitoring of assets that we would otherwise not be able to.

MARC LAWSON
General Manager

Combining Hardware, Software, and Cloud in a Complete Platform

Industrial Gateway

Includes pre-provisioned LTE cellular service that brings your remote site data directly to the cloud, local data storage, control, and is fully interoperable with existing controllers

Cloud Dashboards

Simple and intuitive dashboards to visualize operational data in real-time. Drag-and-drop tools make it easy for anyone to build graphical or metric dashboards

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▸ Aries Well Pad
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▸ Libra Well Pad
▸ Oilfield Overview
Pisces Well Pad
▸ Scorpio Well Pad
TEST - Control Program
▸ Taurus Well Pad

Donlan Energy   N

Feedback

Map Options ▾

Gardendale
Midland
West Odessa
Odessa
Arcade
Pleasant Farms

Seamless Integration, Easy to Deploy

IG21

Industrial Gateway

Centralized data collection, local control, secure communication, and built-in LTE cellular service

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Connect via integrated analog/digital I/O or through existing PLCs and control systems (Modbus TCP/RTU, OPC-UA, ROC, EtherNet/IP, MQTT)

IG61

Industrial Gateway

High-capacity onboard storage, advanced processor for low-latency control, built-in LTE cellular service

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Offers expandable I/O modules and the ability to connect through existing PLCs and control systems (Modbus TCP/RTU, OPC-UA, ROC, EtherNet/IP, MQTT)

HM11

Machine Health Monitor

Wireless, real-time vibration and surface temperature sensors for critical industrial equipment

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Waterproof, ruggedized design for hazardous environments. Mounts directly onto machines with zero-configuration connectivity to the gateway

Feature Highlights

MONITORING

Gain remote, real-time visibility into operational data like pressures, flows, and levels to reduce on-site visits

MAPS & METADATA

View assets in interactive maps and add customizable asset data like model number, installation date, and more

OPEN API

Collect data directly via API in real-time or automatically send operational data to enterprise apps to improve back-office efficiency

ANALYSIS

Identify the root cause and quickly resolve issues by comparing data across assets and sites over time

REPORTS

Simplify compliance reporting with instant access to downloadable reports on historical data

MOBILE FORMS

Replace paper-based logs and data collection by providing pumpers with mobile forms that automatically sync with the dashboard

FORMULAS

Drive continuous improvement efforts by calculating and visualizing key performance indicators (KPIs) in real-time

ALERTS

Minimize downtime with easy to configure alert notifications for emails, texts, or phone calls

CONTROL

Enable pumpers to respond to leaks, drops in pressure, and other issues instantly with remote control of setpoints and on/off switches

Improve efficiency and reduce liability with a constant, real-time view on the status of assets spread across remote oil and gas sites.

➤ Real-time visibility across the oilfield with telemetry and mobile forms

➤ Easily create custom alerts to prevent potential liabilities

➤ Streamline reporting for compliance and regulation

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What makes Samsara noteworthy is their prioritizing how sensor data can increase the safety and efficiency of physical operations, contributing to productivity gains while reducing costs"

Forbes

February 2019

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