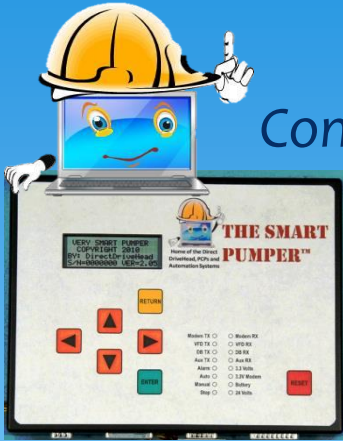


Create a Digital Oil Field Today with One Device

The Smart Pumper™



Control, Automate & Monitor Everything Shown

- Proven, Patented Pump Automation that perfectly matches inflow for the smoothest and most optimized operation possible
- Real Time On-Site Processing that Optimizes & Reduces HSE Risk
- Warnings and Fault conditions for over 38 operational concerns
- Asset Data Logging and more mapped to your web interface...

Separator Psi

Inj. Pump

Salt Water Tank
Level(s) & Volumes

Oil Sales Tank
Level(s) & Volumes
High & Low Level
Warnings and Faults

Oil Sales Tank

Inj. Well Psi & Metered Volume

Automate Producer

Flowline & Casing Psi

Downhole Psi & Temp.

What is the Smart Pumper™



Patented precision pump control device that automatically controls pump speed based on real time fluid level to the specific target you desire

A Powerful Hybrid PLC with built-in two way communication for remote control of Artificial Lift, Chemical Injection and other facilities and to acquire valuable data from these facilities

A “Master Controller” of “any” VFD

manufacturer of your choice - ABB-Westinghouse

Easy to Set Up and within minutes provides an interface to control wells and gather important data to visualize operations, generate reports, set HSE parameters for warnings and fault conditions and more

Installation, Training and Service Agreements Provided

Automated Precision Pump Control

Based on a Patented Process using real time fluid level to the specific target you want and define



Administration

View Wells

Well Status

View Automation

Event Log

Reports

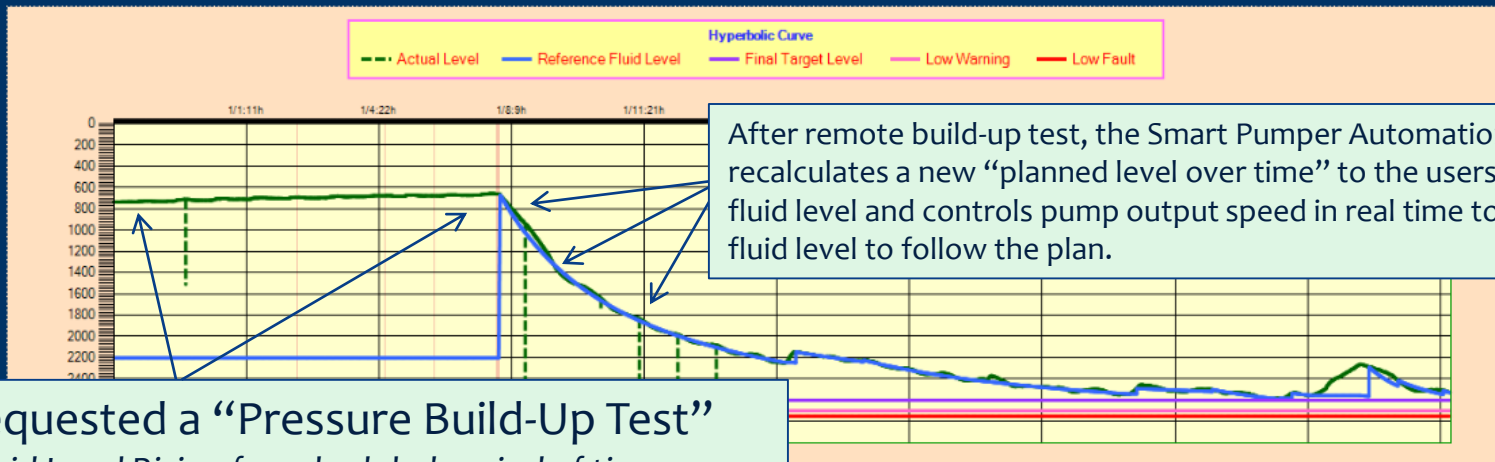
Detail Reports

Manage Well

Activity Records

Support

Logout



User requested a “Pressure Build-Up Test”
Shows Fluid Level Rising for scheduled period of time.

Automation Well Parameters

Automation Control Parameters

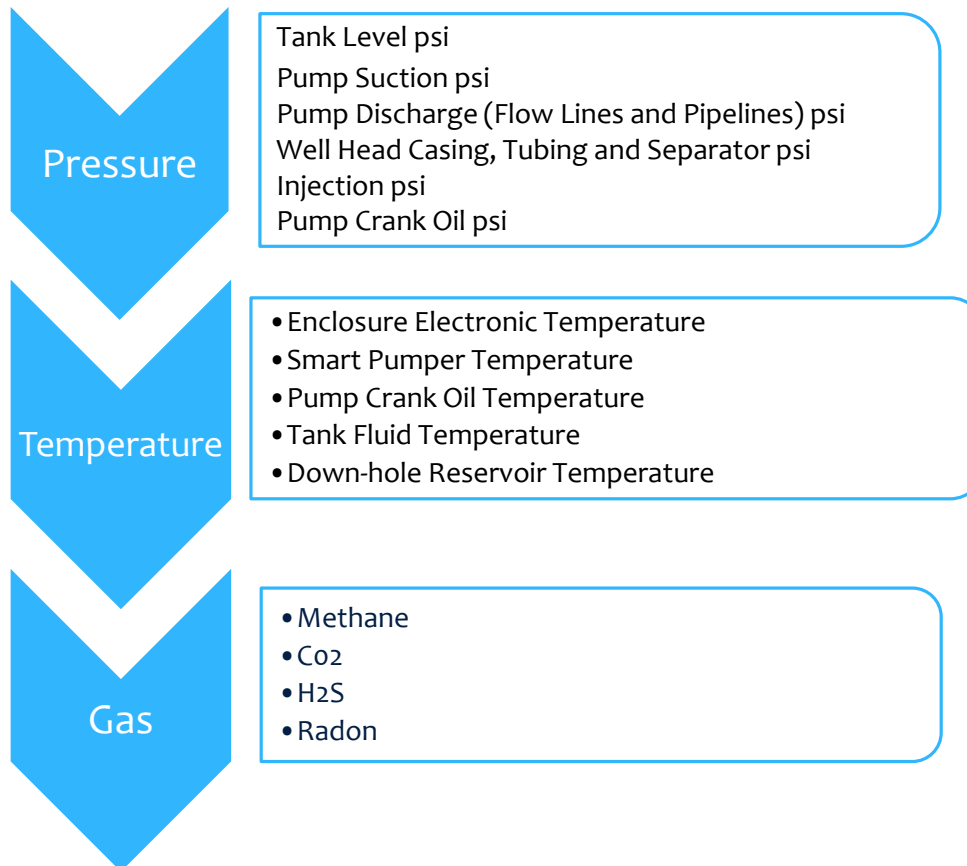
Select Data Range Period

Return

Data Managed On Your Terms Automatically

HSE priority one! Set Warnings and Faults Conditions and reduced OP-EX

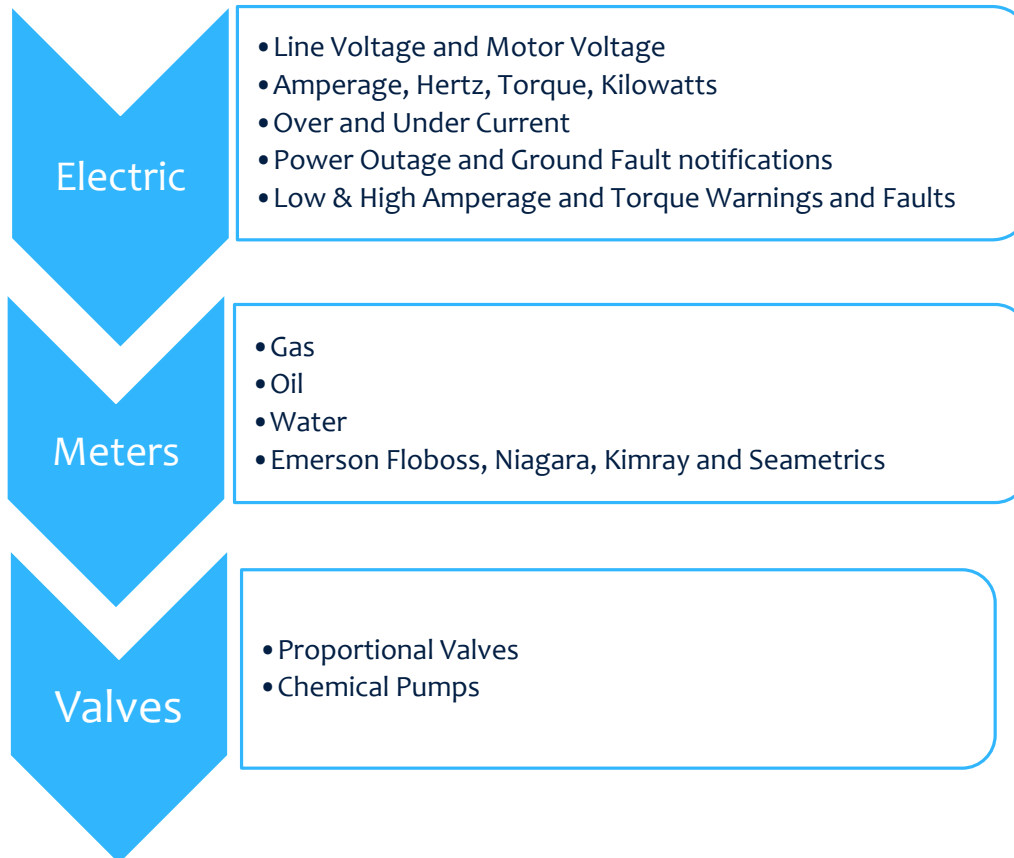
A. Pressure Temperature & Gas Detection



Data Managed On Your Terms Automatically

HSE priority one! Set Warnings and Faults Conditions and reduced OP-EX

B. Electrical Metering and Valves



Automation Packages Example Shown

For ESP's, PCP's, Pump Jacks, SWD Disposal Pumps, Tank Farms, and other

5HP – 2000HP



Shown: 50 HP automation package NEMA 4 Locking Enclosure (*temperature controlled w/ cooling fans and/or heater as required*)

Smart Pumper Automation Packages include the VFD of your choice with;

- Surge Protection
- Power Supply for the sensors of your choice
- Built-in Communication Options
- Instant I-phone - Desktop Control and Monitoring

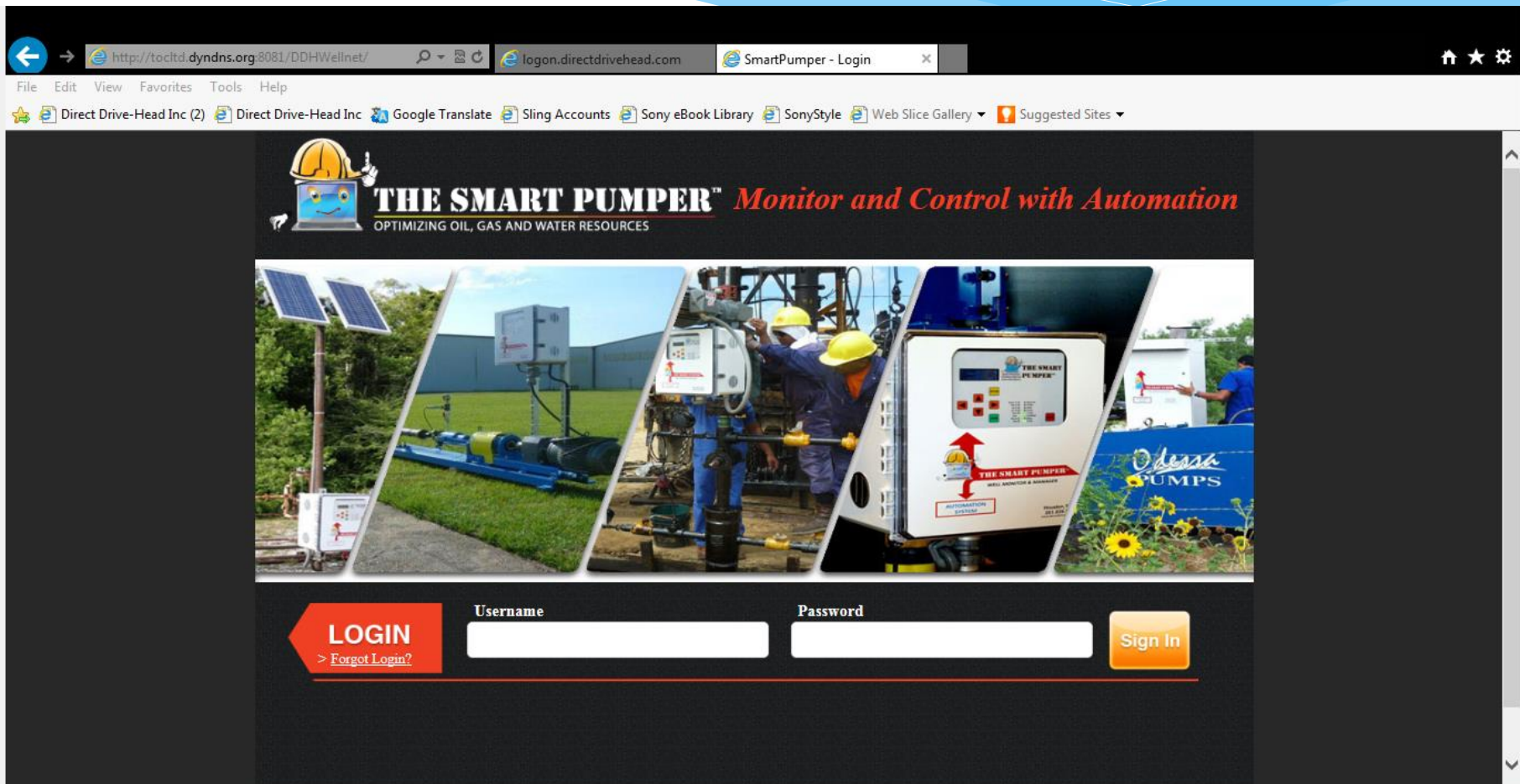
Certifications

CE, CEE, Canadian, and Europe's most recent and stringent requirements to date


Smart Pumper is a universal platform

Log-in to Control and Monitor

Secure login from anywhere to anything



The screenshot shows a web browser window with the following elements:

- Address Bar:** <http://toctd.dyndns.org:8081/DDHWelnet/>
- Page Title:** SmartPumper - Login
- Navigation:** File, Edit, View, Favorites, Tools, Help
- Bookmarks:** Direct Drive-Head Inc (2), Direct Drive-Head Inc, Google Translate, Sling Accounts, Sony eBook Library, SonyStyle, Web Slice Gallery, Suggested Sites
- Header:**
 - 
 - 'THE SMART PUMPER'™** *Monitor and Control with Automation*
 - OPTIMIZING OIL, GAS AND WATER RESOURCES
- Main Content:** A collage of four images showing the smart pumper system in various settings: solar panels, a pump unit in a field, workers in blue uniforms and yellow hard hats operating the equipment, and a close-up of the control panel with a digital display and buttons. The control panel has a red arrow pointing to it with the text 'THE SMART PUMPER - MONITOR AND MANAGER' and 'AUTOMATION SYSTEMS'. A blue sign in the background says 'Odessa PUMPS'.
- Login Form:**
 - LOGIN** (with a right-pointing arrow) and [Forgot Login?](#)
 - Username**
 - Password**
 - Sign In** (orange button)

Smart Pumper is a “Universal” Global Communication Platform

Network of Your Choice



The Smart Pumper™ platform is SCADA on Steroids...

The Smart Pumper hardware technology has six forms of communication built into it to support 2G, 3G and 4G/LTE connectivity as well as 900 MHz, 802.11, Modbus, Ethernet and RS232.

The Smart Pumper Integration Team working closely with the In-Country cell service provider of your choice can quickly create private VPN network tunnels for the global community to access assets in any Country.

Answers the question: Is it on?

And if not, lets you know why and where to focus your man power.

Administration View Wells Support Logout

Active Well Count	Pump Rate (BPD)	Metered Gas (MCF)	Metered Oil (BPD)	Metered Water (BPD)
51	210.51	0.00	0.00	0.00

Last Refresh Time = 5/6/2013 7:09:50 AM local time.

#	Field Name	Property Name	Well Name	Well Status	SP Mode	VFD Mode	Communication Status
1	Parrylands	Parrylands Block E	E-076	OK	Automatic-Running	Remote	Data Age = 0-days 0-hr 15-min -- 900 MHz(6) - Active
2	Parrylands	Parrylands Block E	E-093	OK	Automatic-Running	Remote	Data Age = 0-days 0-hr 16-min -- 900 MHz(9) - Active
3	Parrylands	Parrylands Block E	E-136 - PUMP JACK	OK	Automatic-Running	Remote	Data Age = 0-days 0-hr 20-min -- 900 MHz(7) - Active
4	Parrylands	Parrylands Block E	E-138	System Error	Automatic-Running	Remote	Data Age = 0-days 0-hr 25-min -- 900 MHz(8) - Active
5	Parrylands	Parrylands Block E	E-181	OK	Automatic-Running	Remote	Data Age = 0-days 0-hr 15-min -- 900 MHz(12) - Active
6	Parrylands	Parrylands Block E	E-184 - GP	Warning Alarms	Automatic-Running	Remote	Data Age = 0-days 0-hr 15-min -- 900 MHz(11) - Active
7	Parrylands	Parrylands Block E	E-185 - GP	OK	Automatic-Running	Remote	Data Age = 0-days 0-hr 22-min -- 900 MHz(7) - Active
8	Parrylands	Parrylands Block E	E-186 - GP	OK	Automatic-Running	Remote	Data Age = 0-days 0-hr 16-min -- 900 MHz(0) - Active
9	Parrylands	Parrylands Block E	E-187	Faults Alarms	Automatic-Off	Remote	Data Age = 0-days 0-hr 13-min -- 900 MHz(1) - Active
10	Parrylands	Parrylands Block E	E-190 - GP	OK	Automatic-Running	Remote	Data Age = 11-days 3-hr 46-min -- 900 MHz(7) - Active
11	Parrylands	Parrylands Block E	E-192 - GP	OK	Automatic-Running	Remote	Data Age = 0-days 0-hr 22-min -- 900 MHz(5) - Active
12	Parrylands	Parrylands Block E	E-193 - GP	OK	Automatic-Running	Remote	Data Age = 0-days 0-hr 14-min -- 900 MHz(10) - Active
13	Parrylands	Parrylands Block E	E-194 - GP	Warning Alarms	Automatic-Running	Remote	Data Age = 0-days 2-hr 21-min -- 900 MHz(0) - Active
14	Parrylands	Parrylands Block E	E-195 - GP	OK	Automatic-Running	Remote	Data Age = 0-days 0-hr 24-min -- 900 MHz(2) - Active
15	Parrylands	Parrylands Block E	E-202	OK	Automatic-Running	Remote	Data Age = 0-days 0-hr 13-min -- 900 MHz(0) - Active
16	Parrylands	Parrylands Block E	E-204	System Error Warning Alarms	Automatic-Running	Remote	Data Age = 0-days 0-hr 23-min -- 900 MHz(1) - Active
17	Parrylands	Parrylands Block E	E-206	No Data For 20 Days.	N/A	N/A	No Data Available.
18	Parrylands	Parrylands Block E	E-207	No Data For 20 Days.	N/A	N/A	No Data Available.

For a Digital Oil Field Today

Deploy Smart Pumper™



*First Digital Oil Field in Trinidad
New Horizon's Parrylands*

Smart Pumper Automation Center

18000 Groeschke Road A-1

Houston, Texas 77084

281.829.5559

www.SmartPumper.com