

The customer is a Petroleum and natural gas exploration company headquartered in El Dorado. The company also has operating offices in Houston, Texas, Calgary, Alberta, and Kuala Lumpur, Malaysia

Challenge

- Drive real-time decision making with huge data volume, standardized & clean data set, real-time visibility in progress completions and comparing with historical well completions data
- Enterprise Applications and Integration Consolidation Initiative
- Improve user experience and bring about a digital first mindset in the field

Intelligent Completions and Smart Well Technology Platform for an Oil and Gas Company in US

Solution

- ✓ **Smart Well Technology** platform for Completion process leveraging enterprise messaging queue, multi-threading, proactive alerts based on pattern detection and threshold, digital twins to compare planned and actual pump data
- ✓ Displace multiple middleware platforms to SAP Cloud Platform Integration and thus providing a unified digital platform for innovation

Outcome

- One platform to monitor, analyze and make decisions based on historical as well as real-time high velocity and high-volume data
- Reduced Maintenance & License cost, Fast tracked development and Best Practices implementation



Business Impact

25%

Reduced G&A Expenses

15%

Reduction in SWB

50M+

Data points analysis

350+

Interfaces Consolidation & Migration

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Remote Operations Center V2

Open Hierarchy Panel

Selected Hierarchy: Catarina, Karnes North, Karnes South, Tilden Central

Alarms: All, Acknowledged

| <input type="checkbox"/> | Date Time | Description | Facility Description | Tier Level | Route | Alarm Condition | Value | Classification | |
|--------------------------|-----------------------|------------------------|-------------------------|------------|---------|-------------------|------------------|----------------|--|
| <input type="checkbox"/> | AM | TF Gas Flow Rate | Bodden A2H | Tier C | JOG | Analog Low Alarm | 36.02124 | NDT | |
| <input type="checkbox"/> | 09-May-19 07:08:02 AM | Compressor 2 Gas F... | JOG Compressor 2 | | JOG | Analog Low Alarm | 0 | NDT | |
| <input type="checkbox"/> | 09-May-19 07:00:01 AM | TF Separator Gas M... | 4J Minerals-Barnett ... | Tier C | LINHART | Analog High Alarm | 254.5826 | NDT | |
| <input type="checkbox"/> | 09-May-19 06:45:36 AM | TF Gas Flow Rate | Bodden A2H | Tier C | JOG | Analog Low Alarm | 36.02124 | NDT | |
| <input type="checkbox"/> | 09-May-19 06:37:31 AM | LICF-LP Separator-H... | LINHART LP Sep | | LINHART | Digital Alarm | 1-ALARM | NDT | |
| <input type="checkbox"/> | 09-May-19 06:00:27 AM | Well State | Jog A4H ALS | Tier C | JOG | String Alarm 5 | Shutdown,Pumping | NDT | |
| <input type="checkbox"/> | 09-May-19 06:00:27 AM | TF Tubing Pressure | Jog A4H | Tier C | JOG | Analog High Alarm | 777.12 | NDT | |
| <input type="checkbox"/> | 08-May-19 11:45:15 PM | Well State | Swaim 22H ALS | Tier C | SWAIM | String Alarm 5 | Shutdown,Pumping | NDT | |

1 - 21 of 21