O&G Continues..
Well Segmentation for Cost Optimization

Keep the right wells and cash flowing in the current crisis!
There are unprecedented times & Oil & gas industry is grappling with a monumentally historic challenge!

Well Segmentation- identification of wells whose unit cost is more than the current economic viable limit and which is technically feasible will be a key driver to reduce OPEX in the demand disruption and low crude price scenario
Current scenario demands an inclusive approach for identification of shut-in candidates.

E&P operators are forced to cut down the production in this high supply and distressed demand state of affairs. Identification of the Ramp/shut down candidates done on ad-hoc basis rather than a holistic approach across assets

Access to all vital information on one screen for key-decision making and proactive identification of key opportunities in COVID scenario is all the more critical

A holistic approach to well segmentation & subsequent opportunity identification will not only reduce the operational risk but also reduce the operational expenditures of managing the asset.

We can help reduce your OPEX while streamlining the process using a one stop visualization and analytics approach.
One Stop Solution for Well Segmentation – Which well to shut-in?

Visualization and Analytics

Data Management Platform

Data Contextualization Layer

Federated Data lake

Asset Economic model (Recalibrated to determine the hydrocarbon production economic limit rate)

Open Wells (EDM), Open Works, ProSource Excels

PI data

OFM, Others

Data Sources

Data Contextualization Layer

Asset Data on One Screen

Well Clustering Based on all available static and dynamic data

Risk Assessment / Technical viability of shut-in of the identified well in a cluster

Economic feasibility of the opportunity

Decision to shut-in

Well properties

Petrophysical properties

Location maps

Well Test Data

Sensor Data

Production History

- Well position coordinates
- Completion Type
- Tubing ID
- Wellbore configuration

- Porosity
- Permeability
- NTG
- Reservoir Pressure

- Top Structure maps
- Reservoir Contacts
- Location maps

- Oil Production test rates
- Water Production test rates
- Gas Production test rates

- Pressure
- Temperature

- Cum Oil/Gas
- Water vs Time
- Water Cut/GOR
- Remaining Reserves
- Bubble Map

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Identify the shut-in candidates using Data Analytics

Data Analytics WorkFlow

- **Training Data**
  - Well data
  - Production Data
  - Well test Data
  - Petrophysical Data

- **Pre-Processing**

- **Data Noise Reduction and data interpolation**

- **Tuning & Performance improvement**

- **AI Models**

- **Testing Data**
  - Well data
  - Production Data
  - Well test Data
  - Petrophysical Data

- **Well Clustering**
  - PCA
  - Cluster Analysis

- **Risk assessment/Technical/Economic Cut Off**