



# Diagnostic Time-Lapse PTA- DW GOM Well

***Oilfield Data Services, Inc.***

- ✓ Oil & Gas Reservoir Testing and Evaluation
- ✓ Real-Time Pressure Transient Analysis
- ✓ Hydrocarbon Volume Determination
- ✓ Well(s) Performance Tracking

- ✓ Multiphase Rate & BHP Calculations
- ✓ Optimize Gas Lift / Oil Production Rates
- ✓ Life Of Well Surveillance/Analysis
- ✓ Automated PVT Calibration

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# Automated Real-Time Surveillance (ARTS)

Real-Time Reporting on Wells / Field KPI's

**The ARTS Concept: Physics + Automation  
+ Experienced Surveillance Engineers**

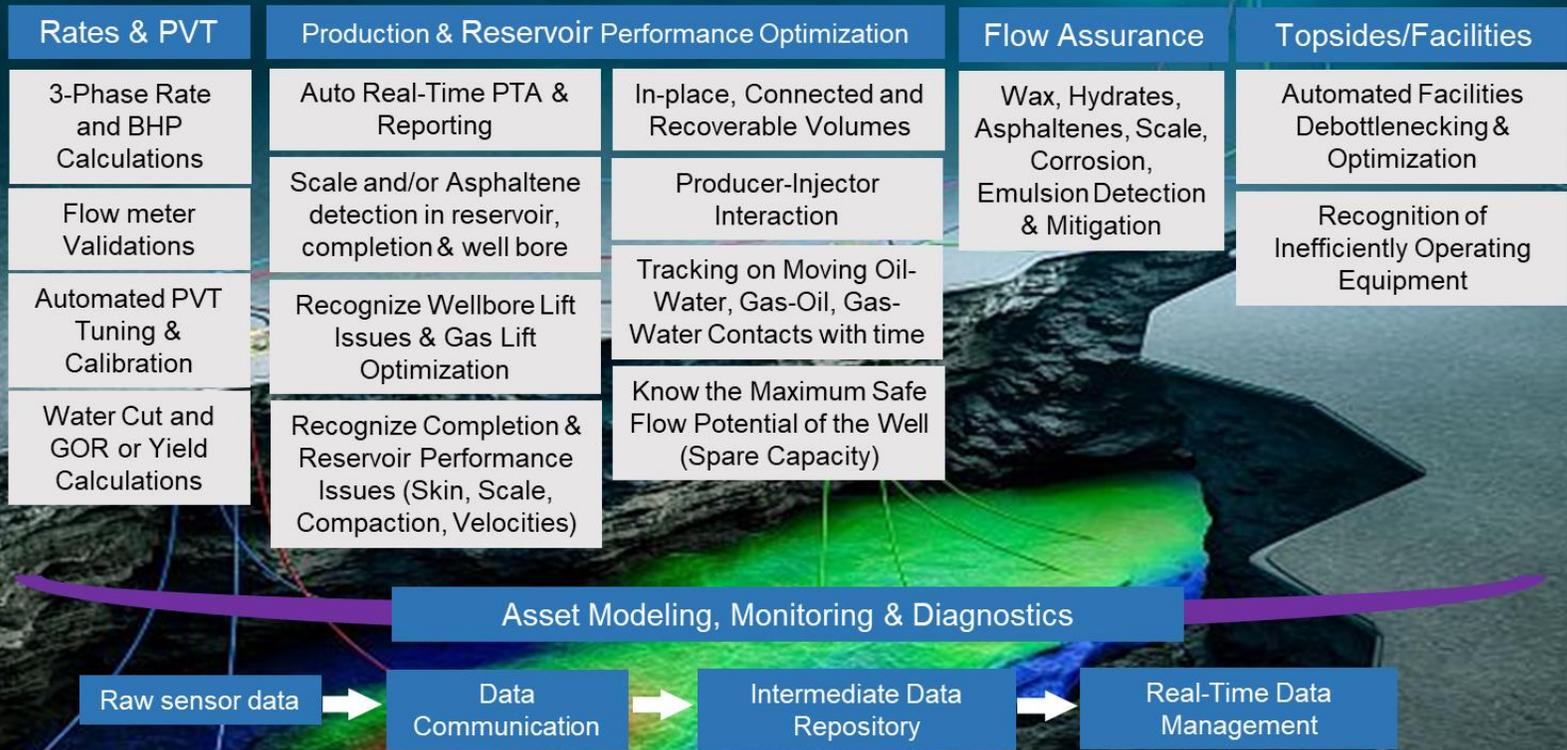


Photo credit: [www.energyglobalnews.com](http://www.energyglobalnews.com)

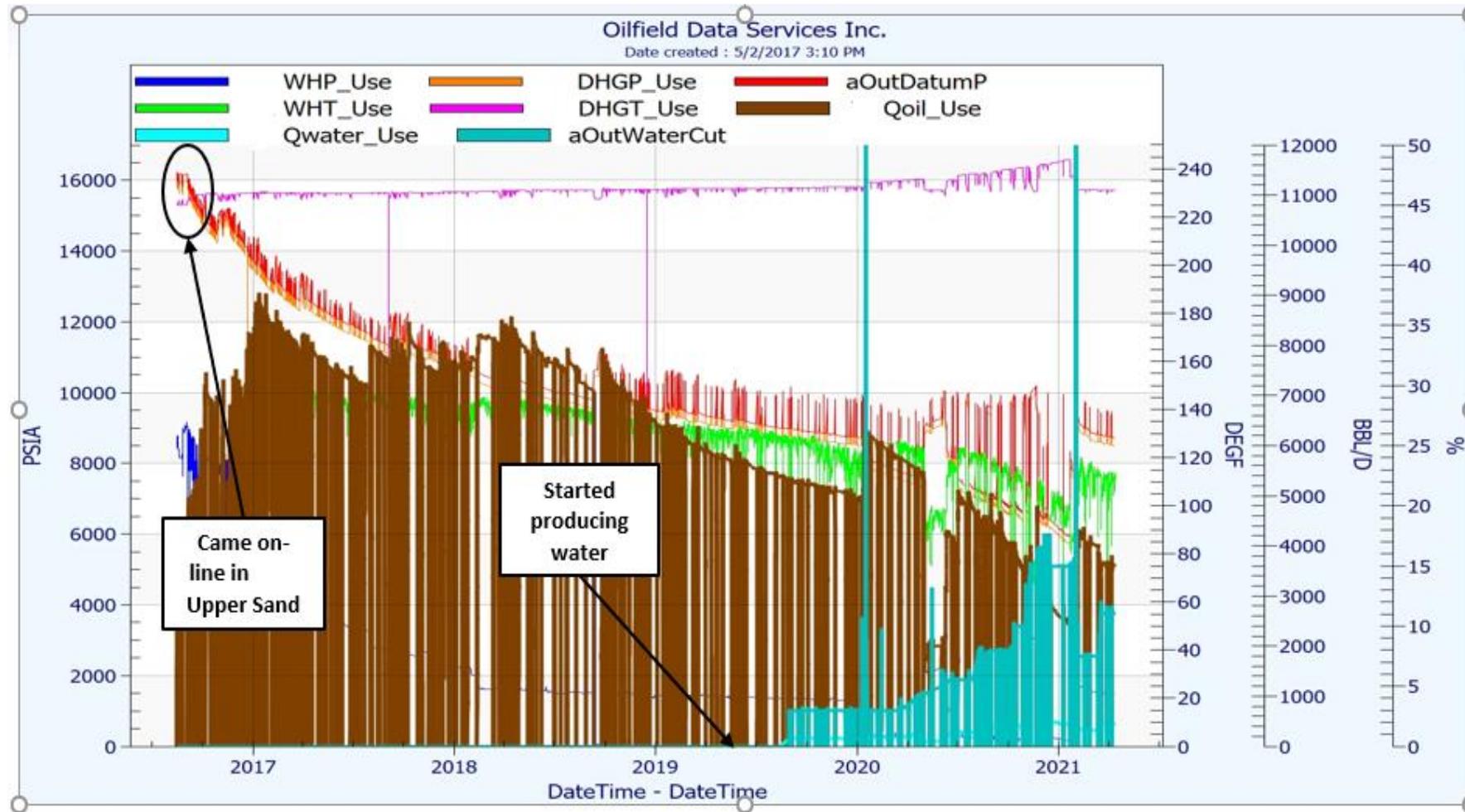
## Digital Surveillance Tool – Automated Time-Lapse Real-Time PTA

- Recognized buildups, drawdowns and multi-rate tests
- Analyzes for elementary PTA parameters
- Outputs a PTA report and historic time-lapse PTA trend plots

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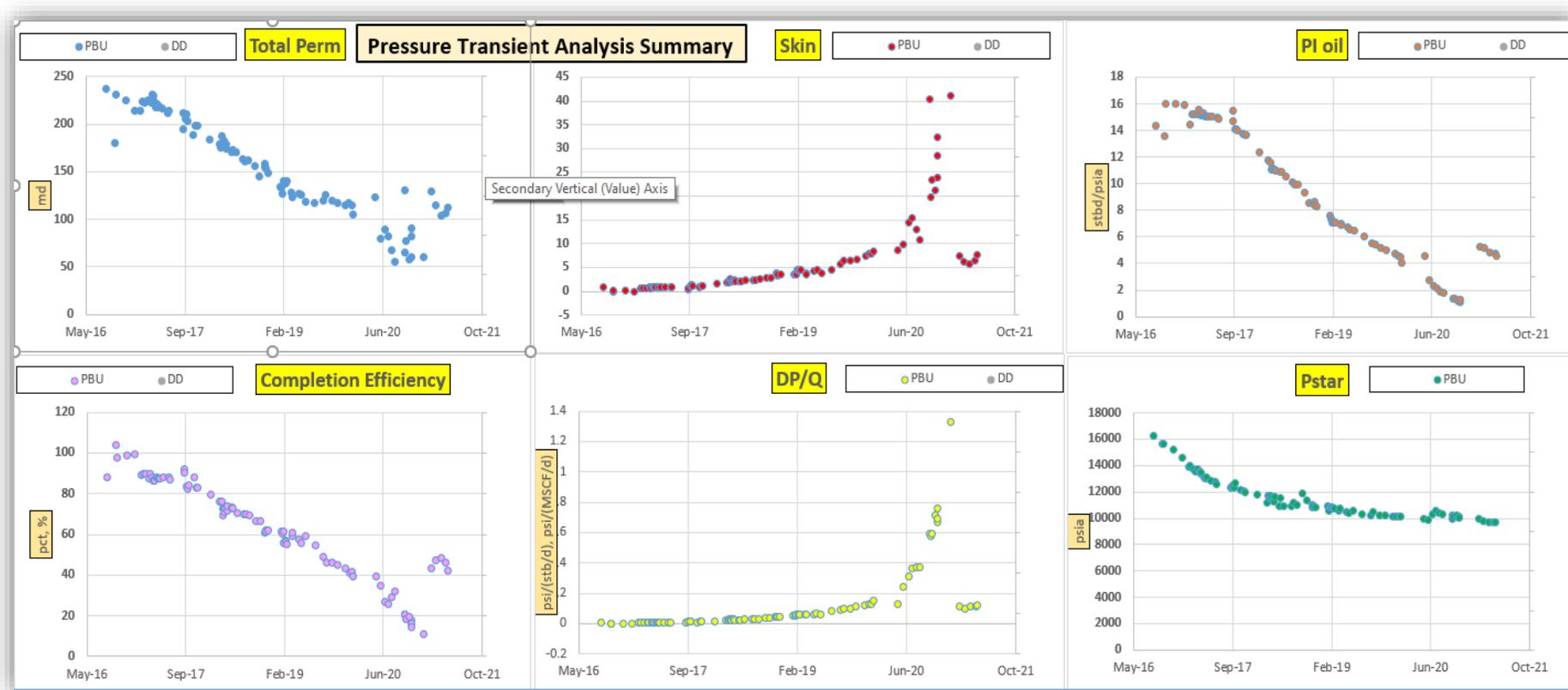
# Time-Lapse Auto PTA – Production History

## Deepwater GOM Oil Well Example

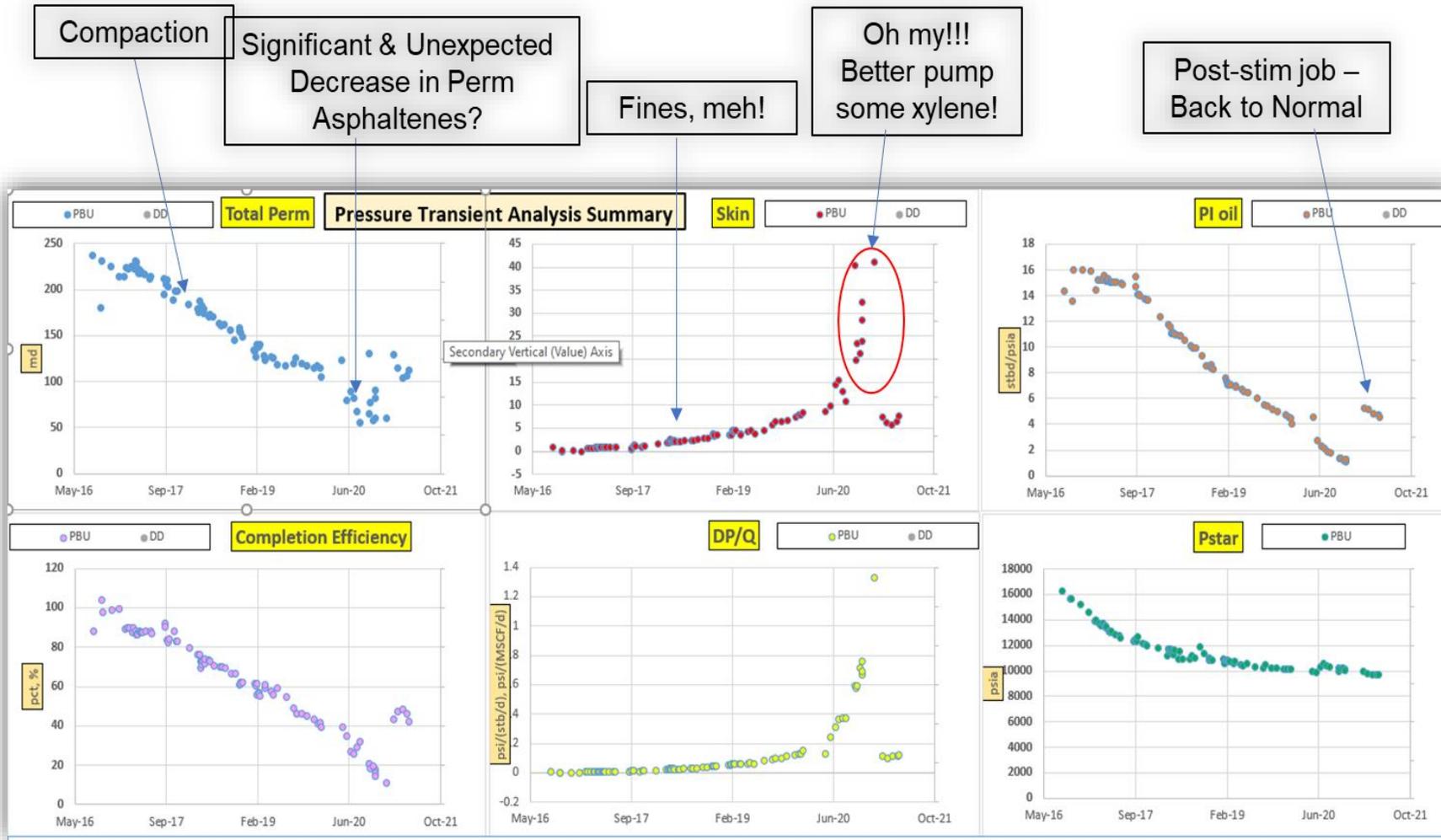


# PTA Dashboard – Accreting Skin Example

## What can a few simple plots tell you?



# PTA Dashboard – Accreting Skin Example



## Digital Surveillance Tool – Automated Time-Lapse Real-Time PTA

- The tool performed PTA consistently and tracked well's KPI's with time
- Once Scale and Asphaltene issues were recognized, the Operator performed a stimulation job and was able to improve PI by 300% and reduce skin from 40 to 5