

Data analytics – Finding black gold in big data

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Summary

Data analytics can produce significant tangible value for oil and gas producers in exploration and production. Data analytics unlocks the value in the big data that oil and gas producers:

1. Acquire from seismic surveys and digital well logs.
2. Create through subsurface interpretation and reservoir simulation.
3. Gather from conventional and unconventional well operations.

In this presentation, Yogi Schulz will explore how the impediments to achieving tangible value from data analytics can be overcome with best practice recommendations.

Yogi will illustrate his ideas based on experiences gathered during a recent data analytics project he managed for a Calgary-based oil and gas producer.

Introduction

Data analytics can produce significant tangible value for oil and gas producers in exploration and production. Data analytics unlocks the value in the big data that oil and gas producers:

1. Acquire from seismic surveys and digital well logs.
2. Create through subsurface interpretation.
3. Gather from well operations.

Theory and/or Method

In this presentation, Yogi Schulz will explore how the impediments to achieving tangible value from data analytics can be overcome with best practice recommendations for:

1. Poor data access
2. Inadequate data quality
3. Hand-crafted data integration
4. Poor data presentation
5. No data query flexibility
6. Poorly organized implementation project

Yogi will illustrate his ideas based on experiences gathered during a recent data analytics project he managed for a Calgary-based oil and gas producer.

Examples

Data analytics has produced tangible value in these aspects of oil and gas producer operations:

1. Interpreting seismic and well log data.
2. Optimizing the design of hydraulic fracturing.
3. Optimizing well production.

Conclusions

Data analytics remains an under-utilized technology among oil and gas producers.

Oil and gas producers can produce significant tangible value from employing best practices for the implementation and operation of data analytics.

References

Can visual analytics be the savior of the oil and gas industry?

Big data is useless without visual analytics

Is your company data-driven?

5 project killers for visual analytics

How advanced BI tools are delivering self-service analytics

Is big data success eluding you?

Best Practices for Visual Analytics Projects