

DUBAI: 28-30 Jan. 2019 & 17 – 19 June 2019

COURSE OVERVIEW

Well Logging quality control, LWD and MWD logging, Open hole and Cased hole logging and Monitoring logging data are all gone through a very careful scrutiny to find out if the data is genuine and not made in the field with the use of software. These courses are very well designed to fit customer needs. The courses are very valuable to the National Oil companies, Operator companies and Service companies as well.

Who Should Attend:

All related formation evaluation engineers, Reservoir and Drilling Engineers and Geologists

The LQC of Data:

❖ LQC data(day 1)

- Introduction
- High quality data & quality management
- Logging sensors
- Data evaluation
- Standards on grading, weighting
- Setting parameters
- Depth control issue
- Calibration, master, main, field
- Heading, remarks, sketches
- Data, timing, quick look

❖ How to evaluate data (day 2)

- Data: GR, Resistivity, Density, Neutron, Sound tools
- General checking
- Depth correlation
- Sources of errors
- General checking
- **GR:**
- Overview
- DOI, VR of data, standard deviation
- Azimuth GR – LWD
- Count rates
- Calibration; master, field, values
- Environmental corrections
- BH, mud, K+ salt effects & corrections
- What should you do ?
- Examples
- Factors changing GR data
- LWD and Wireline data

❖ Resistivity Data (day 3)

- Overview
- Principle and basics
- Data, DOI, VR
- Calibration, master, field, verification, what are all these numbers listed !
- Tolerance
- Environmental corrections; BH, eccentric tools, invasion, fluids, formation effects
- Bed thickness, anisotropy, processing
- Complex models
- Examples and responses
- Dielectric effects
- Effects of: invasion, thin beds, V-resolution, human error, horizontal beds
- Field examples from your fields

- Discussion and evaluation of data

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- Data combined
- **Density – Neutron**
- ❖ **LQC (day 4)**
 - Overview
 - **Density:**
 - Photoelectric absorption, Bulk density
 - Calibration, M, field, ver.
 - The $\Delta\rho$
 - Effects of mud
 - Caliper and stand off effects
 - BH rugosity, spiralization effects
 - Calculating $\Delta\rho$
 - The Pe curve
 - DOI, VR
 - Presentations and examples
 - Dead time corrections
 - Tolerance & post job calibration
 - Environmental corrections, repeatability
 - **Neutron:**
 - Porosity
 - Life of a neutron
 - Neutron detectors
 - Thermal and epithermal tools
 - DOI, VR
- ❖ **Density – Neutron LQC, Sound Tools (Day 5)**
 - **Neutron**
 - Calibration, master, field, tolerance & stand off
 - Well site verifications
 - Environmental corrections; BH, stand off equations, MW, OBM, salinity, lithology, T, P, HC, Shale, Count rates,
 - Processing and presentations

- Examples, discussion

❖ **Sound Tools:**

- Overview
- P, S, St waves
- PR waves
- Slow & fast formations
- Latest technology in the market
- Cycle skipping
- Array sound tools; mono & dipole
- Porosity, lithology, and equations used
- DOI, VR, repeatability
- Calibration, master, field
- Corrections required
- Examples, clastic and carbonates
- Presence of HC
- Abnormal pressure

❖ **Depth (Day 6)**

- Different depth references
- LWD, WL, PCL, CT errors
- Calibration
- Depth tracking, mismatches & errors
- Adjustments
- Example from your fields & summary

❖ **Data filtering procedure**

- Principles
- Basics
- Methods of filtering
- Depth and data corrections

• **Data management**

- File naming
- Real time data
- Log formats
- Memory data
- Composite data
- CD data organizing
- Labeling
- Data formats
- Sketches and graphics

THE LECTURER



Dr. Soran Talabani

Dr. Talabani is currently consultant for GTC GROUP of Companies in USA. Previously he was president of GTC GLOBAL, Global research and recruiting manager for Baker Hughes in USA. He also was a senior Petrophysicist and technical advisor for Baker Atlas-Baker Hughes Inc. in UAE, and Adjunct professor at the UAE University. He worked for over 28 years in different area in the oil industry; Cementing, Drilling, Drilling Fluids, Reservoir Engineering, and Well Logging. Talabani holds MS and PhD in petroleum engineering from UAF and New Mexico Tech University – USA. He has published over 30 papers in different area.

Dr. Talabani offers course on Cased Hole logging, Reservoir Monitoring, Advanced Drilling and Environment as well