



# 2 WEEKS' VIRTUAL TRAINING ON WELL TEST ANALYSIS AND INTERPRETATION USING MS EXCEL



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### TRAINING DESCRIPTION

This course will focus on the different types of tests and techniques, both analytical and graphical, for data representation and analysis of well tests. Types of techniques covered will include diagnostic plots derivative for draw down, and buildup tests. Participants will learn about the interpretation of complex data, such as those from well test in naturally fractured reservoirs, hydraulically fractured wells, horizontal wells, along with gas and gas condensate reservoirs. Each day participants will see examples of the types and techniques discussed along with practice problems.

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### **WHY TO CHOOSE THIS TRAINING ?**

This training program includes the most important basic concepts in well testing, which helps to understand the core areas. This course will help the aspirants to improve ability and analyze well test challenges in a confident way.

This course is designed for those who are willing to learn well testing from start. This training program includes the most important methods to solve numerical problems in well testing, which helps to understand the theory also.

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## DESIGNED IF YOU ARE ?

- Petroleum Engineers
- Reservoir Engineers
- Geologists
- Geophysicists
- Chemical Engineers
- Petroleum Engineering Students and graduates
- Petroleum Research scholars
- Preparing for petroleum engineering competitive exams
- Planning to do academic projects in reservoir engineering

## BENEFITS FROM ATTENDING THIS TRAINING

- Understanding the concepts easily with excel
- Earning confidence to explore into well testing
- Analytical solutions for problems and case studies

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## AGENDA

### Day 1

- Introduction to well testing
- Steady state
- Pseudo steady
- Unsteady state
- Radius of investigation

### Day 2

- Inflow performance relation
- Tubing performance relation
- Gas performance relation
- Future predictions
- Numerical

### Day 3

- Principle of superposition
- Effects of multiple wells
- Effects of rate change
- Effects of the boundary
- Numerical

### Day 4

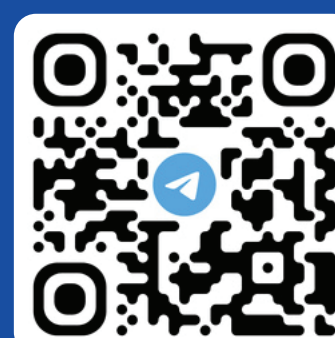
- Drawdown test
- Horner's plot
- K & s estimation
- Wellbore storage
- Numerical

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## AGENDA

### Day 5

- Pressure build up
- Reservoir parameter estimation
- Productivity index
- Flow efficiency
- Delta P skin

### Day 6

- Horizontal well
- Isotropic and anisotropic PI
- Horizontal well IPR construction
- Numerical

### Day 7

- DST
- Parameter interpretations
- Pattern interpretations
- Introduction to pressure derivatives
- Numerical

### Day 8

- Interference test
- Directional permeability
- Type curve
- Numerical

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## AGENDA

### Day 9

- Step rate injectivity
- Fracture pressure determination
- Type curve
- Numerical

### Day 10

- Pulse testing
- Lag time
- Pulse ration
- Even and odd pulse
- Numerical

# *Limited Seats Available*

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