Wellsite & Operations Geology

Learn the practical acquisition process and application of wellsite data for a better operations and field development plan
03rd - 07th AUGUST 2015 at Kuala Lumpur, Malaysia

Petrosync Distinguished Instructor
JOHN KEASBERRY
Consultant & Principal Partner
GeoScience Services International

- Exploration Geologist & Consultant with over 35 years of experience in the Oil & Gas industry
- International experience where he has engaged in exploration and development phases of petroleum in UK, US, Canada, Ethiopia, Europe, Turkey, Middle East, and the Far East, with several companies such as Shell, Unocal, Statoil, Barrick Petroleum, etc
- Course Director for Shell, responsible for their Integrated Subsurface Courses (1997-2005)
- Has conducted successful international trainings including, Wellsite & Operations Geology, for over 10 years now
- Currently affiliated with the Royal Geological and Mining Society of the Netherlands (KNGMG), European Association of Geoscientists and Engineers (EAGE), Petroleum Geological Society of the Netherlands (PGK), Petroleum Exploration Society of Great Britain (PESGB) and the Geological Society of Leiden (LGV)

COURSE OBJECTIVES

- ACQUIRE an awareness of the subsurface conditions influencing and causing drilling and data acquisition problems, and of applications of wellsite data acquisition in exploration, appraisal and development
- LEARN the basic principles of wellsite data acquisition and quality control
- APPLY the techniques used by well geologists in formation evaluation through lectures, integrated with practical exercises
- PERFORM hands-on exercises of cuttings analysis, core evaluation, mudlog evaluation, wireline log evaluation and other wellsite related operations

SPECIALY DESIGNED FOR

The course is designed for subsurface geologists, wellsite geologists, operations geologists, drilling engineers, reservoir engineers, operations engineers, and other staff involved in the acquisition and use of well-site geological data.

- Wellsite Geologists
- Operations Engineers
- Subsurface Geologists
- Reservoir Engineers
- Drilling Engineers

Prerequisite: This course will assume that participants have at least a basic knowledge on petroleum geology in order to fully appreciate the course
WELLSITE & OPERATIONS GEOLOGY

03rd - 07th AUGUST 2015 at KUALA LUMPUR, MALAYSIA

COURSE OVERVIEW

Wellsite & Operations Geologists are mainly involved in the process of data acquisition during the drilling of wells. The focus of this course is aimed at improving the conduct of data acquisition of the subsurface. Because the subsurface data acquisition is the objective of a major capital expenditure, it is essential to obtain quality data and information for future use in drilling programs and field development designs.

The course is aimed at wellsite geologists, drilling and operations engineers and other staff involved in the acquisition and use of well-site geological data. At the end of the course, participants will have grasped the basic principles of well-site data acquisition and quality control. This will focus on the data acquired at the wellsite from drilling, logging, and well testing. They will learn the techniques used in formation evaluation through lectures, integrated with practical exercises. Participants will be exposed to cuttings analysis and oil show examinations. They will acquire an understanding of drilling problems caused by subsurface conditions, and of applications of well-site data in exploration and development.

DAILY SCHEDULE:

<table>
<thead>
<tr>
<th>MONING</th>
<th>AFTERNOON</th>
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<tr>
<td>08:30-09:30</td>
<td>13:00-14:00</td>
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<td>09:45-10:45</td>
<td>14:15-15:15</td>
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<td>11:00-12:00</td>
<td>15:30-16:30</td>
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Mon 03-Aug  
Introduction to Petroleum Geology  
*classroom, handouts, manual*

Tue 04-Aug  
Basics of Drilling Operations  
*classroom, handouts, manual*

Wed 05-Aug  
Wellsite Operations  
*classroom, handouts, manual*

Thu 06 Aug  
Mudlogging Services (cont)  
*classroom, handouts*

Fri 07-Aug  
Cutting and Core Description Exercises  
*classroom, handouts*

WHY YOU SHOULD ATTEND PETROSYSYNC’S EVENTS

- To ensure that all objectives of the course matches yours, all PetroSync programs are developed after intensive and extensive research within the industry
- PetroSync programs focus on your immediate working issues to ensure that you are able to apply and deliver immediate results in real work situations
- Application and implementation of industry knowledge and experience are the drivers for our course design, not theoretical academic lectures
- PetroSync training focuses on practical interactive learning tools and techniques including case studies, group discussions, scenarios, simulations, practical exercises and knowledge assessments during the course. Invest a small amount of your time to prepare before attending the course to ensure maximum learning
- PetroSync follows a rigorous selection process to ensure that all expert trainers have first-hand, up-to-date and practical knowledge and are leaders of their respective industrial discipline
INTRODUCTION
Petroleum Geology
Depositional Environments
• Sedimentary Mechanisms
• Impact on Reservoir Properties & Field Operations
• Stratigraphy
  • Biostratigraphy
  • Lithostratigraphy
  • Pressures

Drilling Operations (Well Engineering)
• Bits
• Casing & Cementing
• Fluids
• Drilling Problems & Well Control
• Directional
  • Geosteering & DtL

Logging Operations
• Acquisition
• Concepts
• Tools
• Quick Look Interpretation (Exercise)
• Wireline Logs
• Analysis

WELLSITE OPERATIONS
Duties & Responsibilities
Well Planning Processes
• Site Survey & Shallow Gas Hazards
• Drilling Programme
• Contracting
• Services
• Data Management
• Support

Mudlogging Services
• Data Acquisition
• Monitoring
  • ROP
  • GAS
  • Mudweight & Chemistry
  • Recording
  • Sampling & Cuttings
  • Lag Time
  • Evaluation

Hydrocarbon Detection
• Data Acquisition

Sidewall Sampling & Coring
• Acquisition
• Handling
• Retrieval
• Analysis (Exercise)

Wireline Logs
• Analysis (Major Exercise)

Reporting
• Daily Drilling Report (Exercise)
• Lithological & Composite Well Log (Exercise)
• Post Drilling (Exercise)

WELLSITE CONTRACTING
Drilling
Mudlogging
Wireline Services
Coring
Quality Control

CUTTING & CORE EXAMINATIONS (PRACTICAL)
Cuttings
• Description
• Abbreviations
• Reporting

Cores
• Description
• Lithology Log
• Correlation

APPLICATION TO FIELD DEVELOPMENT
Data Processing
Application to Well Planning & Field Development
John Keasberry is an Exploration Geologist and Principal Partner in J&M GeoScience Services. In a 33 year career span he worked in Ethiopia, the UK, Ireland, Canada, the US, Turkey, the Middle East, the Far East, Ecuador, Norway and the Netherlands. He is associated with companies as Placid, Barrick Petroleum, Santa Fe, Statoil, Unocal, Shell, and numerous small independent companies either as an employee or consultant. John has been involved mostly in the exploration and development phases of the petroleum development, from new ventures and asset acquisition, seismic interpretation, basin analysis, appraisal to farm-out, and production.

From 1997 through 2004 he was employed by Shell as a Course Director responsible for their Integrated Subsurface Courses covering the main subsurface disciplines from geology to production technology and developing geoscience courses. He also lectured frequently on other Shell courses, while his lecturing experience is mainly in Wellsite, Petroleum, and Operations Geology.

Before Shell, John joined United Nations in Ethiopia in 1975, carrying out geophysical surveys for oil, gas, groundwater and minerals. He moved to Placid Oil in 1979 as seismic interpreter and McKinlay Smith in 1981 as a geoscientist. In 1983 he founded his first consultancy in London carrying out interpretation and evaluation projects in the UK, Netherlands, and Norway. In 1985 he joined Nedlloyd Energy as exploration manager, responsible for Nedlloyd’s portfolio in the Netherlands, UK, Egypt, Ecuador and Indonesia. When Nedlloyd was sold to DSM (Dutch State Mines) in 1992 he became an independent consultant again.

John has been providing independent consultation for more than 20 years now. In 1997, he found his second consultancy firm, Geoscience Services International. At present, John continues to head this company and offers multi-disciplinary services and training for E&P projects worldwide.
COURSE DETAILS
Title: WELLSITE & OPERATIONS GEOLOGY
Date: 03rd - 07th AUGUST 2015
Location: Kuala Lumpur, Malaysia

INVESTMENT PACKAGES

<table>
<thead>
<tr>
<th>Investment Package</th>
<th>Deadline</th>
<th>FULL MASTERCLASS</th>
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<tbody>
<tr>
<td>Standard Price</td>
<td>31 JUL 2015</td>
<td>SGD $ 5,995</td>
</tr>
<tr>
<td>Early Bird Offer</td>
<td>3 JUL 2015</td>
<td>SGD $ 5,795</td>
</tr>
<tr>
<td>Group Discount (3 or more Delegates)</td>
<td>31 JUL 2015</td>
<td>10% discount for groups of 3 registering from the same organization at the same time</td>
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</table>

Group Discount is based on Standard Price
* To enjoy the promotion & discount offer, payment must be made before deadline
* For 7 or more delegates, please inquire for more attractive package.
* Prices include lunches, refreshments and materials. Promotion & discount cannot be combined with other promotional offers.
* Important: Please note that registration without payment will incur a SGD 200 administration fee.

DELEGATES DETAILS

1st Delegate Name: Mr/Mrs/Ms/Dr/Others
Direct Line Number: __________________________ Email: __________________________
Job Title: __________________________ Department: __________________________
Head of Department: __________________________

2nd Delegate Name: Mr/ Mrs/ Ms/ Dr/ Others
Direct Line Number: __________________________ Email: __________________________
Job Title: __________________________ Department: __________________________
Head of Department: __________________________

3rd Delegate Name: Mr/Mrs/Ms/Dr/Others
Direct Line Number: __________________________ Email: __________________________
Job Title: __________________________ Department: __________________________
Head of Department: __________________________

INVOICE DETAILS

Attention Invoice to: ____________________________________________________________
Fax:  _____________________________________________ Email: __________________________

Company: __________________________________________ Industry: __________________________
Address: __________________________________________ Postcode: __________________________
Country: __________________________ Email: __________________________

Please note:
- Indicate if you have previously registered by Phone Fax Email Web
- If you have not received an acknowledgement before the training, please call us to confirm your booking.

PAYMENT METHODS

☐ By Credit Card : ☐ Visa ☐ MasterCard ☐ AMEX Security Code: __________________________
Card Number: __________________________ Expiry Date: __________________________
Name printed on card: __________________________

☐ By Direct Transfer: Please quote invoice number(s) on remittance advice
PetroSync Global Pte Ltd Bank details:
Account Name: PetroSync Global Pte Ltd
Bank Name: DBS Bank Ltd
Bank Code: 7171 • Bank Swift Code: DBSSSSEGXXX • Branch code: 288
Account No.: • SGD: 2889098980 • USD: 0288002682016
Bank Address: 12 Marina Boulevard, Level 3, Marina Bay Financial Centre Tower 3, Singapore 018982

All bank charges to be borne by payer. Please ensure that PetroSync Global Pte Ltd receives the full invoiced amount.

CERTIFICATE OF ATTENDANCE
70% attendance is required for PetroSync’s Certificate of Attendance

DETAILS

Please accept our apologies for mail or email that is incorrectly addressed.
Please email us at registration@petrosync.com and inform us of any incorrect details. We will amend them accordingly.

CHARGES & FEE(s)

- For Payment by Direct Telegraphic Transfer, client has to bear both local and oversea bank charges.
- For credit card payment, there is additional 4% card processing fee.

Course Confirmation
I agree to PetroSync’s terms & conditions, payment terms and cancellation policy.

Authorized Signature: __________________________

PAYMENT TERMS: Payment is due in full at the time of registration. Full payment is mandatory for event attendance.