PETROVIETNAM UNIVERSITY

THE TRAINING COURSE ON

COMPLETION & WELL SURVEILLANCE

ADVANCED TRAINING CENTER

Ho Chi Minh City
762 Cach Mang Thang Tam Street,
Ba Ria Ward

Ho Chi Minh City
Lot E2B-5, Saigon Hi-Tech Park,
Tang Nhon Phu Ward

Ha Noi
VPI Tower, 167 Trung Kinh Street,
Yen Hoa Ward

THE TRAINING COURSE ON

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| ABOUT THE COURSE:

- This document sets out a proposed agenda for a training course (or series of courses) to support PQPOC in preparing for the completion phase of the Block B development, and for the subsequent well surveillance activities that will be required as the field is brought into production;
- The development is of multiple stacked sand gas reservoirs, with tens of wellhead platforms and hundreds of monobore wells ultimately anticipated. The completion and surveillance challenges are expected to be similar to, but operationally distinct from, the Gulf of Thailand developments operated by Chevron and PTTEP — experience from those programmes is directly applicable.

| INSTRUCTOR:

- **Mr. Nick Last** is a petroleum engineer with over 40 years of international experience in well testing, production logging, and commingled reservoir analysis. He is the co-founder of Well Test Knowledge International (WTKI) and has worked with major operators across Australia, Southeast Asia, and beyond. A recognized expert in pressure transient and PLT interpretation, Mr. Last is also an experienced technical trainer, mentor, and SPE speaker with multiple publications in reservoir engineering.
- **Mr. John P. Davidson** is an Oil & Gas Subject Matter Expert with over 35 years of global experience, specializing in integrated well data, cased-hole logging, and mono-bore completions. Throughout his career, notably during his tenure with Chevron, he has driven significant operational optimizations by developing proprietary data evaluation

| COURSE CONTENT:

Day 1: Platform & Operational Constraints

- **Objective:** To establish the physical and operational parameters within which all completion and surveillance activities must be conducted.
- **Morning Session:** The day begins with an overview of the reservoir development status, followed by discussions on CPP commissioning, surging, and slugging mitigation. It also covers Wellhead Platform (WHP) design capabilities, including deck weight limits, simultaneous operations, and crane configurations.
- **Afternoon Session:** Focuses on field personnel logistics, such as crew sizes, accommodations, and cross-functional training. The session then addresses water disposal during completions, focusing on fluid composition and environmental regulations, before wrapping up with action items.

Day 2: Completions: CBL, Perforating & ELU/SLU Operations

- **Objective:** To define the sequence of completion operations, agree on necessary tools and workflows, and identify key interfaces and bottlenecks.
- **Morning Session:** Starts with the drilling phase interface, well design, and cementing practices. The agenda moves into CBL-

systems like C.O.D.E.R. and C.E.S.A.R.. He brings extensive field leadership experience and currently serves as a Principal Consultant at Zonetek, where he designs and delivers high-level technical training and advisory services for operators across Southeast Asia.

| WHO SHOULD ATTEND:

- Well Operations / Drilling Engineering: Specifically the completion planning lead.
- Petroleum / Reservoir & Production Engineering: Focusing on surveillance, well performance, and facility interface.
- Petrophysics & Data Custody Management: Robert Duncan's group.
- Well Services Coordination: For ELU/SLU contracts and logistics.

| TIME AND VENUE:

- Duration: 3 days
- Estimated time: May, 2026
- Venue: Saigon Prince Hotel, Ho Chi Minh City, Vietnam

| TRAINING FEE

Contact for details (The cost includes teaching fees, airfare, instructor accommodation, course materials, certificates, training room, lunch, teabreak and related taxes and fees). The course will be conducted once there are at least 22 registered participants.

VDL principles for perforation planning and identification of water zones , followed by Electric Line Unit (ELU) operations, equipment capabilities, and vendor contracting.

- **Afternoon Session:** Covers Slickline (SLU) operations, required capabilities, and swabbing protocols. The day concludes by defining the exact completion sequence, data acquisition protocols, and reporting workflows (such as CODERM, CESART, and PATROL reports).

Day 3: Well Surveillance & Data Management

- **Objective:** To define the surveillance strategy, inventory available tools, agree on a phased data acquisition approach, and establish a roadmap for topics deferred to future training.
- **Morning Session:** Discusses the well surveillance philosophy, objectives, and strategies for phased data acquisition. It includes an inventory of surveillance tools (like P/T gauges, PLTs, and fluid level detection) and addresses the specific challenges and surveillance implications of commingled reservoir behavior.
- **Afternoon Session:** Focuses on well data management, detailing log data warehousing, petrophysics workflows, and data handover procedures. The training course closes by establishing a roadmap for "deferred topics" (such as detailed gas well operating guidelines and water shut-off options) and reviewing consolidated action items.

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PHIẾU ĐĂNG KÝ THAM DỰ

1. **Thông tin khóa học:**

   Tên khóa học: Completion & Well Surveillance

   Thời gian dự kiến: 3 ngày, dự kiến trong tháng 5 năm 2026

   Địa điểm: Trực tiếp tại TP. Hồ Chí Minh

2. **Thông tin đơn vị đăng ký:**

   Tên đơn vị: .....

   Địa chỉ: .....

   Người đại diện:..... Chức danh: .....

   Email: ..... ĐT: .....

3. **Thông tin học viên:**

Stt	Họ và tên học viên	Chức danh	Bộ phận	Email	Sđt
1					
2					
3					
4					
5					

4. **Chi phí tham dự**

   …/học viên x … học viên = .

   (đã bao gồm chi phí giảng viên, vé máy bay, lưu trú, tài liệu, phòng học, teabreak, ăn trưa, chứng nhận và các chi phí liên quan …)

5. **Thông tin đơn vị tổ chức:**

   - Đơn vị: Trường Đại học Dầu khí Việt Nam (PVU);
   - Địa chỉ: Số 762 đường Cách mạng tháng 8, phường Bà Rịa, TP. Hồ Chí Minh;
   - MST: 0100681592-032

…….., ngày … tháng … năm 2026

NGƯỜI ĐẠI DIỆN

(Ký tên, ghi rõ họ tên và đóng dấu)