



# *Training*

- Geology
- Geophysics
- Reservoir Characterization
- Reservoir Engineering
- Production Engineering
- Well Testing
- Drilling Engineering
- Facilities Engineering
- Economics for Oil and Gas
- Field Development Planning
- Reservoir Management
- Risk Analysis



*Our instructors are accomplished professionals. They have classroom and academic experience while also leading long lasting careers in the oil and gas industry at an international level . They have been decision makers and innovation leaders in day to day operations.*

*Therefore our courses are result oriented. Our goal is the ability of the attendees to incorporate and apply the course material to their current practice from the very next day.*

*Following are sample resumes of the people teaching our courses.*



# Training

*Our experienced instructors are leading successful careers in the oilfield business and will add value to your business.*

*Areas of expertise covered by ODS are:*

- *Geology*
- *Geophysics*
- *Reservoir Characterization*
- *Reservoir Engineering*
- *Production Engineering*
- *Well Testing*
- *Drilling Engineering*
- *Facilities Engineering*
- *Economics for Oil and Gas*
- *Field Development Planning*
- *Reservoir Management*
- *Risk Analysis*



*ODS offers you tailor made training specifically designed to your needs. You have an opportunity to make the best of your and your employees time in a cost effective way.*



# Sample Courses

## Sample of available ODS courses

### **EOR of Heavy and Extra-Heavy Hydrocarbons, 40 Hours, ODS-YA-01**

Existing available processes for heavy and extra heavy oil recovery (CP/XP) are presented here. This course describes in detail each utilized exploitation technology with its selection criteria according to geological characteristics of the formation, crude oil properties, and infrastructure availability. It also evaluates advantages & disadvantages of each technology, and includes recommendations for the design of pilot test programs.

### **Dynamic Reservoir Characterization in EOR Processes, 40 Hours, ODS-YA-02**

The dynamic reservoir characterization explains processes between static characterization tasks and production phase, and this course presents how different disciplines and techniques are integrated in these processes. Techniques to characterize reservoir dynamic properties (rock-flow interaction, PVT, etc.) and their relation to the mechanisms of reservoir production are detailed described here. Emphasis is made on illustrating the importance that a dynamic reservoir characterization has in EOR processes.

### **Interfacial Phenomena in the Petroleum Industry, 40 Hours, ODS-YA-03**

This is a course on thermodynamic aspects of interfacial phenomena. The most important theories on colloidal dispersions forces and their applications to the oil industry are analyzed. Physiochemical emulsions, microcomputer-controlled emulsions, micelles, surfactants, and thin films are discussed with a thorough analysis on those factors affecting their stabilities. Relevant industrial applications are reviewed. This course outlines the most prominent applications of interfacial phenomena on diverse processes encompassed from production to transportation of crude oil, as a base for making emulsion recommendations.

### **Reservoir Engineering, 40 Hours, ODS-YA-04**

This course presents essential reservoir engineering processes and techniques to analyze information obtained at various levels (laboratory & field) and coming from different sources. It describes in detail techniques to characterize physical properties of the porous media, fluid properties, and the interaction rock-fluid which all are considered fundamental for the comprehension of the reservoir production mechanisms. Methods of reserves estimation, material balance, and decline curves analysis are studied. Finally, the simulation process subject and its importance in decision making practices are introduced.

### **Rock-Fluid Interaction – Intermediate Level, 40 Hours, ODS-YA-05**

In this course, fundamental concepts of rock-fluid interaction properties and their importance in EOR are reviewed. It describes in detail those experimental techniques employed by the industry for establishing values of saturation, wettability, capillary pressure and relative permeability in two-phase systems. It further deals with methods for interpretation of laboratory test results, including some techniques utilized to validate them. In cases where experimental tests are not applicable, the use of empirical correlations is provided.



# Sample Courses

## Sample of available ODS courses

### **Rock-Fluid Interaction –Advanced Level, 40 Hours, ODS-YA-06**

This course presents models and experimental techniques to evaluate relative permeability in three-phase and two-phase systems, including a procedure for refining laboratory data. In addition, the issues of how to interpret a permeability curve relating to reservoir conditions, and how to technically recognize the presence of errors in laboratory results are addressed. Models frequently applied to deal with experimental curves before incorporating data to the simulator are studied.

### **Processes of Enhanced Oil Recovery, 40 Hours, ODS-YA-07**

This course describes methods of primary, secondary and tertiary recovery (chemical, thermal, displacement of miscible gas and unconventional methods), their main sources of energy, forecasting techniques, ranking applications, and recommendations for the selection of well locations for injection projects. In addition, this course exposes the most commonly utilized processes, and studies the factors influencing the miscible or immiscible displacement according to the case analyzed, as well as the use of alternate gases to hydrocarbons, and components to consider when designing and implementing a project. Finally, the course presents the most significant aspects of EOR projects on a worldwide basis, a methodology for processes selection, and a vision of the future of EOR.

### **Fundamentals of Production Engineering , 40 Hours, ODS-LQ-03**

This is a five-day course introducing the fundamentals of upstream production processes with special emphasis on studying the behavior of elementary physical variables of the system (pressure, force, velocity, etc.). Formulae governing these processes are analyzed in detail, and their corresponding importance are indicated. Attention is directed to the importance of comprehending each of the processes by production engineers and/or production supervisors.

### **Production Planning and Management, 40 Hours, ODS-LQ-04**

This is a five-day course to introduce and analyze the different elements constituting the upstream production system, and that cover aspects of reservoirs, wells, facilities, contracts, resources, etc. The economic impact of each of these components is presented separately and as a whole. Emphasis is given to activity scheduling and resource planning (time, cost).

### **Risk Analysis for Petroleum Exploration and Production in Mature Fields, 40 Hours, ODS-LQ-05**

This is a five-day course to introduce the main components of Risk Analysis for Petroleum Exploration and Production in Mature Fields. In this sense, this course covers a review of applications involving the following topics and how to lever them:

1. Risk Assessment (Identifying Related Parameters, Estimating their Uncertainties)
2. Risk Characterization (Ranking of Uncertainties and Risks)
3. Risk Communication (Tracking Interrelation Forms - Uncertainties/Dependences)
4. Risk Management (Tools to Analyze Uncertainties: Sensitivity Analysis, Decision Tree, Simulation)
5. Decision Making Process



# Sample Courses

## Sample of available ODS courses

### **Production Logging , 40 Hours, ODS-LQ-06**

This is a five-day course to introduce and analyze fundamental principles that govern the fluid flow behavior in production wells. These principles are then illustrated in several different production logging tools. Applications to common and special wellbore issues and production problems are shown. Finally, a set of operational recommendations are provided which -if implemented- will allow for better quality logs, and consequently a more precise interpretation.

### **Cased Hole & Production Logging Concepts and Analysis, 40 Hours, ODS-ZB-01**

This is a five-day course to familiarize participants with the role of cased hole and production well logs, and enable them to perform qualitative and quantitative interpretation essential for monitoring well and reservoir performance. At the conclusion of the course, participants will be able to identify logs needed to diagnose a well or reservoir wide problem. They will also be able to interpret the data and recommend a plan of action. A review of the process and measurement principles of the different tools is followed by a discussion of qualitative and quantitative interpretation. This course also addresses capabilities and limitations of logging tools and interpretation techniques

### **Open Hole Logging Concepts and Analysis, 40 Hours, ODS-ZB-02**

This is a five-day course to introduce the importance that open hole logs play in all aspects of petroleum engineering specially in hydrocarbon detection and reservoir management. The course emphasizes on log analysis and interpretation, and those limitations of the method particularly utilized for analysis. Participants will have opportunities of practicing log analysis utilizing actual well logs during regularly scheduled workshops.

### **Reservoir Management and Development, 40 Hours, ODS-ZB-03**

This is a five-day course to present and discuss the process of reservoir management and development. The course emphasizes the continuous and integrated multi-disciplinary aspect of the process. Particular emphasis is placed on the tools and techniques used in diagnosing and controlling reservoir behavior. At the conclusion of the course, participants will be able to serve and contribute more efficiently on a reservoir management team.

### **Reservoir Geophysics (Basic Level), 40 Hours, ODS-JS-01**

This five-day course covers the main geophysics techniques for application in seismic reservoir characterization. Essential aspects on seismic acquisition (design and tools), processing and interpretation are studied in this course. Emphasis is placed on the practical application of these techniques for both exploration and production operations. This course presents an integrated vision of the geophysics techniques, and has been designed for geologists, geophysicists and petroleum engineers with medium to low knowledge in seismic basics. Ideal for G&G managers and team leaders.



# Sample Courses

## Sample of available ODS courses

### **Reservoir Geophysics (Advanced Level), 40 Hours, ODS-JS-02**

This is a five-day course to review the main geophysics techniques for applications in seismic reservoir characterization. Critical aspects on seismic acquisition (design and tools), processing and interpretation are covered in this course. Emphasis is placed on the theoretical and practical application of these techniques for both exploration and production operations, as well as on decision making procedures to adequately select tools in terms of added value respect to the cost. This course presents an integrated vision of the geophysics techniques, and has been conceived for geologists, geophysicists and petroleum engineers with medium to high knowledge in seismic basics.

### **Seismic Interpretation of Structural Styles, 40 Hours, ODS-JS-03**

This five-day course covers the analysis of seismic images (2D & 3D) for an integrated understanding of the different structural styles and their impact in oil exploration. These analyses include the seismic study and comprehension of structural styles, seismic facies analysis, and seismic stratigraphic elements within the basin analysis and petroleum system context.

### **Sedimentary Systems (Basic Level) , 40 Hours, ODS-JS-04**

This is a five-day course which lays the foundation for all Sedimentary Systems. Cycles, processes, characteristics, composition and structures of the different sedimentary systems are covered in this course. In addition, the different dynamics of clastic and carbonate sedimentations are here studied.

### **Sedimentary Systems (Intermediate Level), 40 Hours, ODS-JS-05**

This is a five-day course designed for geologists, geophysicists, petrophysicists, reservoir and production engineers, and technicians analyzing clastic reservoirs and involved in exploration and reservoir characterization projects. In addition, the fundamentals of carbonate sedimentation are briefly covered for recognition of these environments.

### **Sedimentary Systems (Advanced Level), 40 Hours, ODS-JS-06**

This five-day course provides new concepts for the interpretation of principal clastic depositional systems, utilizing examples from recent and ancient environments. Data from oil and gas fields from different parts of the world is presented. This course has been designed for geologists, geophysicists, petrophysicists, reservoir and production engineers, with knowledge in sedimentary environments.

### **Stratigraphy and Sedimentation, 40 Hours, ODS-JS-07**

This is a five-day course that covers characteristics of a sedimentary record and reviews available tools for studying its evolution in space and time. The course also provides general information on those concepts of sedimentation and stratigraphy required for the interpretation of a sedimentary record.

### **Clastic Systems and its Impact in the Accumulation of Hydrocarbons, 24 Hours, ODS-JS-08**

This three-day course covers the sedimentary dynamics of clastic reservoirs in different environments, their association with the accumulation of hydrocarbons, and the diagnosis characteristics of the resultant sequences.



# Sample courses

## Sample ODS courses available

### **Stochastic Reservoir Characterization (Compact Version), 40 Hours, ODS-RG-01**

This course is intended for reservoir engineers, geologists, geophysicists and other different geoscientists with an interest in the various geostatistical techniques utilized in the reservoir modeling of lithofacies, porosity and permeability (which in turn form the basic inputs into many reservoir simulations), but have a limited background in statistics and/or geostatistics. The course introduces the basic geostatistical techniques for reservoir modeling from the theoretical and practical viewpoints. At the end of this training, participants must be able to apply some geostatistical tools for generating reservoir descriptions coming from simple situations; know the kind of geostatistical tools applied to quantify the connectivity of reservoir lithofacies, porosity and permeability; know how the constructed heterogeneous reservoir models are constrained by well and seismic data; and understand the limitations of the resulting numerical models and model-building tools. This course addresses problems and available solutions emerging of reservoir characterization tasks. Focus will be made on practical and effective solutions today applied in the oil industry and also the learning of practical expertise through computational workshops utilizing public domain software.

### **Well Testing (Introductory Level) , 40 Hours, ODS-EM-01**

This is a five-day course to introduce the participant to the basics in Oil & Gas Well Testing. It will comprise a general review on the fundamental aspects of Petroleum Engineering and Geology linked to the Well Testing Principles. Types of tests and their methodologies will also be covered as well as their basic associated interpretation techniques. Additionally, a review of the main subsurface and surface equipments will be discussed, including the very vital data acquisition hardware with the necessary QA/QC requirements. This course is oriented to Geoscientists and Petroleum Engineers with low to medium knowledge in well testing basics.

### **Well Testing (Advanced Level) , 40 Hours, ODS-EM-02**

This is a five-day advanced level course in Oil & Gas Well Testing. It will get into a more comprehensive vision on the various interpretation techniques for Pressure Transient Analysis, and the general application of some existing software currently utilized in the industry. Furthermore, a review of the Reservoir Fluid Sampling and PVT Lab Testing techniques will be discussed, including their validation processes. Finally, a general basic discussion of the Nodal Analysis process will be presented. This course is oriented to Petroleum Engineers with medium (+) knowledge in well testing.



# Our Work

## Training

Operator	Location	Discipline	Client
PDVSA	Venezuela	Production Engineering	Hidroex
PDVSA	Venezuela	Production Management	Hidroex
PDVSA	Venezuela	Production planning	Hidroex
PEMEX	Mexico	EOR	Terra Energy
PEMEX	Mexico	Workshop on Reservoir Simulation	Terra Energy
PEMEX	Mexico	Reservoir Stochastic Characterization	Terra Energy

## Testimonials

*“Expert Petroleum would like to express its entire satisfaction regarding the last field evaluation made by ODS. I would certainly use in the future your services again and I must thank your very professional team.”*

*Michel Louboutin  
General Manager - Expert Petroleum*

*“ ODS personnel performed with excellence the training tasks contracted by HIDROEX . The results were both measured in reactive evaluations and training impact, we are very satisfied with your contribution.”*

*George Farkas  
President - Hidroex*

*“On behalf of Danos and Curole I would like to comment on our positive experience doing business with Oilfield Development Specialists (ODS).*

*I would personally recommend ODS Operations Support services for any company that would like to improve the efficiency of their operations and obtain a trusted expert assistance when they need it.”*

*Rebecca Smith  
Supervisor, International Hiring & Logistics-  
Danos &Curole*

*“ The field development plan provided by ODS has set a solid framework for our operations.”*

*William Blackburn  
General Manager - Clean Energy*

*“I have read with great interest the report and I must say that it is a good piece of work. You and your troops are to be complimented for the thoroughness and timeliness of this study.”*

*Stephen Reynolds  
Chairman - Quetzal Energy*

# Increasing your .....ODS of Success



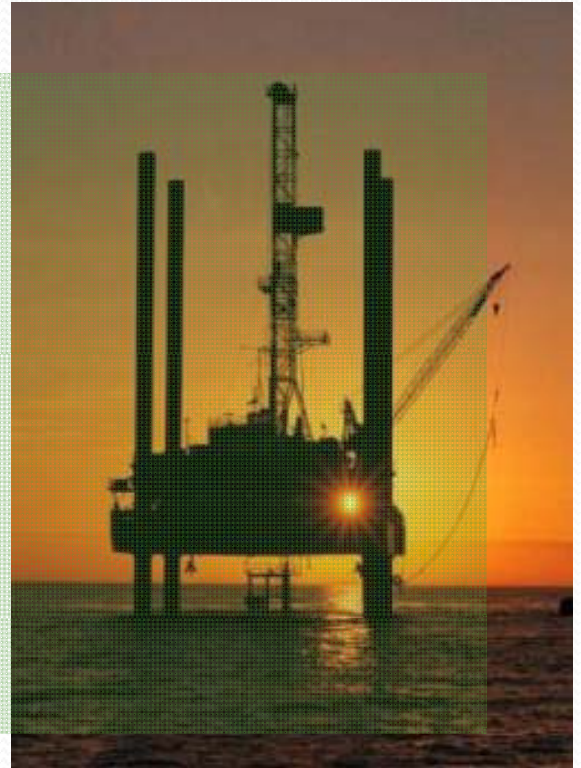
Tap your Asset's  
True Potential  
Tap our  
Expert Knowledge



# ***Innovative Engineering Services Integrated Solutions***

## ***Technical and Managerial Consulting Services:***

- *Integrated Studies*
- *Reservoir Characterization*
- *Field Development Planning*
- *Operational Support*
- *Training*



*Founded in 2003 by Dr. Luis Quintero, ODS ([www.odslc.net](http://www.odslc.net)) offers Upstream Consultancy services in the form of in-depth Engineering (Reservoir, Drilling, Production, Process) and Geological studies and Operations' Support.*

*Our service is known for academic level of expertise, international experience and integrated approach to the planning of its client field exploration and development and root cause approach to operations problem-solving.*

*Our aim is to bring you the latest in oilfield technology knowledge by merging specialized expertise into an integrated approach to meet your needs. This way ODS delivers more accurate and informed consultancy for your upstream operations and hands on solutions to support your management decision-making.*



## ***Our Services***

We provide ***technical and managerial consulting services*** for reservoir characterization and field development planning. Using an Asset Management philosophy, our ***Innovative Engineering Services*** are able to effectively design, implement and provide ***Integrated Solutions*** for the upstream Oil and Gas industry.

### **In House Projects:**

- **Integrated Studies**
- **Reservoir Evaluation**
- **Field Development Planning**

Our interdisciplinary team of experts will work together with you to determine your needs and tailor the in-house studies accordingly. Whether you are interested in investing, developing, enhancing production or optimizing the management of your field(s), ODS will give you the answers you need.

### **Operations Support:**

Working with you, you will get the best of ODS professionals and their international experience on a day to day basis:

- **Geology and Geophysics (G&G) - Seismic Interpretation**
- **Reservoir Engineering- EOR/IOR, Characterization and Modeling**
- **Drilling Engineering- Supervision, Planning, Process Optimization**
- **Production Engineering - Production Enhancement - Well Testing**
- **Facilities Engineering- Process Simulation, Planning and Optimization**

### **Training:**

Our instructors have classroom and academic experience and have been leading long lasting careers in the Oil & Gas Industry at international levels. They have been decision makers and innovation leaders in day to day operations; therefore our courses are result oriented. Our goal is to promote the ability of attendees on incorporating and applying course material to their current practice from the very next day.



# Operations

*ODS has served dozens of customers worldwide and has won their appreciation for its services by employing professionals who have received awards for their contribution to the technology of the discipline each one serves.*

Guatemala	Pakistan	Ukraine	Venezuela	Kazakhstan	
Mexico	Bahamas	Libya	USA: Texas, Florida, Louisiana, California		
Poland	China	Indonesia	Cameroon	Colombia	South Africa



Reserves Audits	Reservoir Engineering	Asset Screening	Operations Support	Log Analysis
Prospect Evaluation	Workover Planning	Welltest Analysis	Facilities Engineering	Training



## *Founder of ODS*

### **Dr. Luis F. Quintero – President of ODS**

Dr. Luis F. Quintero has over 20 years of experience in the oil and gas industry and has worked for PDVSA, Schlumberger and ODS in more than 24 countries. He started his career in 1984 as a wireline field engineer in India, and he went on to positions in petrophysics, reservoir engineering, business development, financial analysis, project management and production management, among other areas. While with SLB he was responsible for the 5-year reservoir optimization plan for the following countries in the Caspian and Central Europe: Kazakhstan, Uzbekistan, Turkmenistan, Azerbaijan, Turkey, Bulgaria, Romania, Hungary, and Poland. In Romania and Azerbaijan this led to signing projects worth approx. 750 million US\$ (NPV). His last assignment for Schlumberger was production enhancement director for Indonesia's state oil company, Pertamina

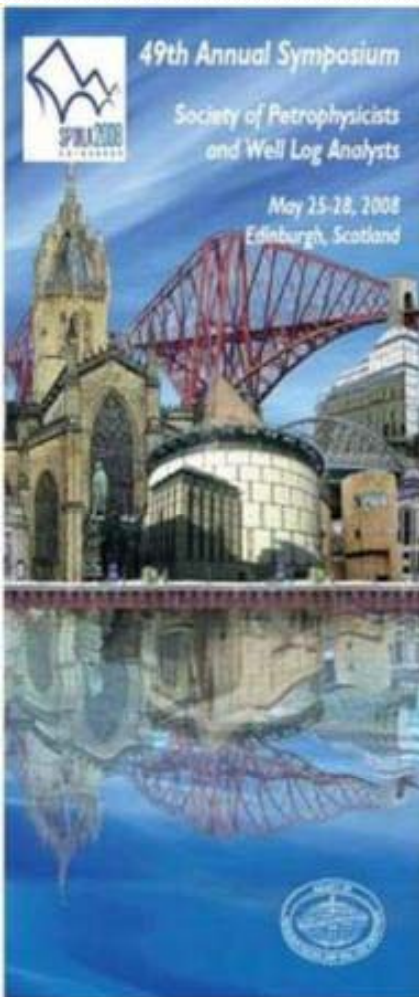
In 2003 Dr. Quintero founded Oilfield Development Specialists, LLC (ODS), and worked in Greece, Romania and Ukraine. In 2005 he set base in the USA with a team of Geoscientists, Reservoir Engineers, Production Engineers, etc., and has completed evaluations and/or has managed operational support of fields in Guatemala, Pakistan, Ukraine, Kazakhstan, Mexico, Bahamas, USA (California, Texas, Florida), Libya, Colombia, China, Cameroon, Indonesia, among others.

Luis has a B.S. in Electronic Engineering from Universidad Simon Bolivar (Venezuela), and M.Sc. and Ph.D. degrees in Petroleum Engineering from Louisiana State University. While at LSU Luis won 1st prize in the Gulf Coast Regional SPE contest, Master's division; 1st prize in the Annual International Petroleum Society of Canada Contest, Graduate division; and 1st prize in the International SPE contest, Ph.D. division. He is an active member of the Society of Petrophysics and Well Log Analysts (SPWLA), where he has participated in the technological committee for seven years, has been co-chair in more than 20 Annual Symposium sessions, co-chaired a special Geomechanics conference, was elected as Regional Director for Europe and as vice president of finance and administration. More recently he was also nominated as president of the SPWLA. Dr. Quintero is a member of the Society of Petroleum Engineers, where he served as editor of Reservoir Engineering section of the Journal of Petroleum technology, and of the Core Analysts Society. He has authored or co-authored more than 10 technical papers for the SPE, SPWLA, PDVSA and energy related articles for the World Energy Monthly Review.

Oilfield  
Development  
Specialists



# Active Presence





## **Contact us**

**When success is your only option, worldwide....**

**...*O.D.S.* guaranties to deliver.**

### **USA**

11211 Katy Freeway, Suite 608  
Houston, TX 77079, USA  
Ph: +1- 713-4-ODS-LLC (637-552)  
Fx: +1-713-4-ODS-555  
E-mail: ods@odsllc.net

### **EU**

16 , Amvrosiou str.  
Thessaloniki 546 30  
Greece  
Cell: +30-6944 695 668  
E-mail:  
ods\_europe@odsllc.net

<http://www.odsllc.net>