Petroleum Contracts & Negotiations

Led by M. A. Mian

Overview of Course

This 3-day program in Petroleum Contracts & Negotiations is an extensive hands-on course. The course participants will gain familiarity with the general mechanics of the production sharing agreements and be able to fully appreciate the effects of various terms and conditions on the Government Take and Investor's profitability. This hands-on course will enable the participants to design the terms of production sharing agreements on their own and be able to defend their approach to higher management and government entities. Excel will be extensively used in order to physically see the impact of various terms and conditions on the government take and investor profitability. The objective of the course is to enable the participants design efficient fiscal systems in order to avoid renegotiation of these long-term contracts.

Agenda

Each day of the course is divided in two parts (a) presenting theoretical concepts and mechanics of the tax royalty and production sharing agreements (PSA) and (b) solving a variety of problems/exercises to reinforce the theoretical concepts. All calculations will be performed using MS Excel. All participants will be required to have excess to desktop computer and laptop computer with Excel installed.

Course Covered

- ➤ Gain full insight into the latest advances in designing International Petroleum Agreements with emphasis on Production Sharing Agreements (PSA).
 - What the deals involve
 - Who gets what and how much
 - Expectations of the parties involved
 - The bottom-line
 - How the contract should adjust to marginal discovery and a bonanza
- ➤ Appreciate the significance of various terms used in these contracts/agreements
- Master the technical and non-technical terms and jargon applicable to the production sharing agreements
- ➤ Gain benefits that are direct, immediate and measureable

Who Should Attend

- Planning Managers
- Oil & Gas engineers
- Project managers
- Analysts
- Commercial managers
- Economists, business analysts and business development personnel
- Government officials, legal counsels & negotiators
- Geologists
- Business advisors
- Asset managers
- E&P managers

Summary of Topics

DAY 1	DAY 2	DAY 3
 Fiscal Systems/Fiscal Regimes 	 Forms of Government Take 	 Effect of Various Terms on Profitability
Government	Profit Oil & Cost Oil Splits	 Decommissioning
Participation	Treatment of Various	Incremental Analysis
Types of Control (Annual Control Cont	Costs	The Bidding Process
Contracts/AgreementsDesigning Production	Government Participation	 Current Trends in Fiscal Systems
Sharing Agreements	Problems/Exercises	Case Study
Contract Document		 Problems/Exercises
Problems/Exercises		

Detailed Course Outline

DAY 1	DAY 2	DAY 3
Fiscal Regimes/Fiscal Systems	Forms of Government Take	Effect of Various Terms on
International agreements	Government take	Profitability
Parties to Production Sharing	Nature of government take	 Effect of Various Terms on
Agreement (PSA)	• Bonuses	Profitability
Ideal fiscal system for	 Signature bonus through 	 Upfront bonuses and taxes
government	bidding	(front end loading index)
 Ideal fiscal system for 	 Signature bonus through 	Ring fencing
contractor	negotiation	 Effect of ring fencing on GT
Oil and gas resources ownership	 Production bonuses 	• Effect of uplift on GT
The need for collaboration	• Examples of production	 Effect of depreciation on GT
Government Participation	bonuses	Combined effect of depreciation
• Crafting fiscal terms - what to	Rentals/surface fees	& uplift on GT
look for?	Sliding scale tranches	• Effect of loss carried forward on
Government participation	• Royalties	GT
Key aspects of government	Royalties - two dimensional link	Decommissioning
participation	• Royalties - other types of sliding	Decommissioning plan
• Do contractors prefer government participation	scale	Decommissioning costs
Commerciality	• S-curves for tax and royalties Profit Oil (PO) & Cost Oil Splits	Ownership and transfer of
Types of Contracts/Agreement	in PSAs	assets upon terminationLiability and insurance
• Contractual arrangements	Petroleum costs	Economic Assessment of
Main differences between PSA	Fixed profit oil split	International Contracts
and Royalty/Tax system	Progressive profit oil split	• Effect of GT on contractor's
 PSA cash-flow distribution 	Some examples of profit oil	economics
PSA numerical example	splits	Government take (NCF versus)
PSA sample cash-flow	Profit oil splits based on	NPV)
Effect of HG take on contractor	cumulative production	• Contractor's IRR
economics	• Cost recovery (CR) - two	Schematic of net cash-flow
Designing Production Sharing	dimensional link	Incremental Analysis
Agreements	• S-curves for CR and PO	Incremental analysis
• Key questions in designing PSA	Treatment of Various Costs	Investment scenarios
• Efficient PSA?	Corporate income tax (CIT)	Gold plating
Protecting the foreign	 Treatment of bonuses 	The Bidding Process
investment	 Operating expenditure (OPEX) 	 Financial capability of company
Contract duration and	 Capital expenditure (CAPEX) 	Technical capabilities
extensions	• Interest on Loan	 Information related to legal
 Minimum work program commitment (MWPC) 	 Loss carried forward 	aspect of the company
• Each PSA is unique	 Loss carried forward limits 	 Setting up data rooms
- Lacii i on is uilique	Depletion allowance	Sealed bids
Contract Documents	Uplift or investment credit	
Upstream project agreement	Tax credits	Bids' Evaluation
• Other agreements	Government Participation	Current Trends in Fiscal
• Relinquishment	Back-in options	Systems
	Payments in back-in options	
Problems/Exercises	Carried interest	Case Study
·	B 11 (B :	Problems/Exercises
	Problems/Exercises	



M. A. MIAN, P.E.

Mian is a Sr. Petroleum Engineering Consultant with Saudi Aramco in Dhahran, Saudi Arabia. He has previously worked with Qatar Petroleum (Doha, Qatar), ZADCO (Abu Dhabi, UAE), Euratex Corporation (Colorado, USA), Keplinger & Associates (International Energy Consultants in Colorado, USA), and as Independent Consultant in Colorado, USA. He is a registered professional Engineer in the state of Colorado, USA.

Mian has **35 years** of diversified experience in petroleum engineering, reservoir engineering, project economics and decision analysis. He had been involved in

evaluating multi-billion dollar oil and gas field development, LNG, GTL, Aluminum smelter, refinery, petrochemical, power and production sharing projects.

Mian is the author of four books "Petroleum Engineering Handbook for the Practicing Engineer, Vol. I and Vol. II" and the best seller "Project Economics and Decision Analysis, Vol. I and Vol. II," published by PennWell Books, Tulsa, Oklahoma, USA. He has also authored several papers in the Oil & Gas Journal, The Log Analyst, World Oil, SPE Journals, and Oil & Gas Financial Journal. He is also the author of three software packages (PEPAC, PEPAC2 and PEPAC3) for petroleum engineers, available from Gulf Publishing Company in USA.

Mian is one of the pioneers in working with unconventional gas resources. He has extensively dealt with reserves evaluation of tight gas and coalbed methane. Currently he is involved in applying his experience to shale gas resources. He has also served as an expert witness in US Federal court and Energy Commission hearings regarding tight gas pricing classification in the US.

He has delivered lectures in more than 25 countries around the globe. He has always received excellent feedback, as an expert presenter, from the participants of his courses.

EDUCATION

- B.Sc Mechanical Engineering
- M.Sc Petroleum Engineering, Colorado School of Mines, Golden, CO, USA
- M.Sc Mineral Economics, Colorado School of Mines, Golden, CO, USA

PORTFOLIO OF COURSES

- 5-Day Project Economics, Risk & Decision Analysis
- 5-Day Designing Efficient Oil & Gas Fiscal Systems
- 3 Day Advanced Project Economics, Risk & Decision Analysis
- 3-Day Economics of Production Sharing Agreements
- 3-Day Development & Economics of Unconventional Resources
- 3-Day Fundamentals of Oil & Gas
- 3-Day Decline Curve Analysis, Diagnostic Methods and Performance Forecasting

PUBLICATIONS

- Unnecessary and Avoidable Mistakes in Financial Calculations
- Comparison of Methods used to Calculate Netback Value
- · Revisiting the Pitfalls and Misuse of WACC
- Custom Graphs Help Analyze Oil, Gas Operations
- Spreadsheet Programming Simplifies Drilling Calculations
- Program Quickly Solves Trial-and-Error Problems
- Creating Quality, Cost Effective Property Reports
- Predicting the Performance of Tight Gas Reservoirs

COURSES DELIVERED IN

United Kingdom, Italy, Czech Republic, Norway, Sydney, Perth, Adelaide, Brisbane, New Zeeland, Singapore, Malaysia, Hong Kong, Pakistan, South Korea, Kazakhstan, UAE, Kuwait, Qatar, Saudi Arabia, Bahrain, Bolivia, Brazil, Canada, Angola, Nigeria, Ghana, Mozambique, Algeria & South Africa.



