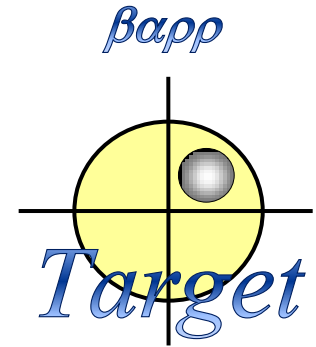


*Target Exploration*

Energy Geosciences Research & Development



# New Hydrocarbon Discoveries, Developments and Opportunities in UN-Sanctioned IRAQ

## Iraqi Petroleum Conference 1999 (IPC99)

### The 1st International Iraqi Petroleum Conference

9<sup>th</sup> and 10<sup>th</sup> September 1999

The Imperial College, Exhibition Road, London SW7, UK.

## Chairmen

### **Mr. Issam Al Chalabi**

Consultant Engineer, Amman, Jordan

Background: Oil Minister of Iraq

### **Dr. Mahboub Al Chalabi**

Director, Petrotech Consultancy, Ascot, UK.

Background: Senior Geophysicist, BP, Geophysicist Ministry of Oil, Iraq

## Speakers

### **Mr. Abdul Hussain Al Hakim**

Consultant Reservoir Simulation Engineer,

Background: Reservoir Engineer, DTI, BPC, Basrah, Iraq

### **Dr. Burhan Al Chalabi**

Chairman, BMC Ltd., London

Background: Consultant Energy Engineer, INA, INGRA & Hydra Electra, Yugoslavia. Writer on Arab Affairs. Member of: Intellectual Think Tank and Research Group of the British Conservative Party, Foreign and Commonwealth Council.

### **Dr. Eric Herring**

Lecturer in International politics, Univ. of Bristol

Background: Visiting Scholar Washington University, Washington DC

**Prof. Faisal Al-Kufaishi**

Consultant Geochemist, London

Background: Lecturer in Geochemistry, University of Baghdad,

Conducted geochemical explorations for Oil Exploration Company, Iraq

**Dr. Graham Brew**

Research Scientist, Cornell Univ., Ithaca, New York

Background: Graduate Researcher, Cornell Syria Project, Cornell University

**Mr. Hazim Al-Dabagh**

Senior staff Geophysicist, Sirte Oil Co., London

Background: Geophysicist, Iraq National Oil Co., Iraq Mineral Exploration Co., BRITOil, CGG, GECO, Western Geophysical.

**Dr. Hussain Rabia**

Managing Director, ENTRAC COSULTING, Reading, UK

Background: Petroleum Engineer ADCO, Consultant Engineer/ Univ. Lecturer, Drilling Engineering Manager British Gas

**Mr. Issam Al-Chalabi**

Consultant Engineer, Amman, Jordan

Background: Chairman of Iraq National Oil Company, Minister of Oil, Iraq

**Mr. Louayd Al-Hashimi**

Consultant Drilling Engineer, Calgary, Canada

Background: Drilling Engineer

**Dr. Manouchehr Takin**



Senior Upstream Oil Analyst, Centre for Global Energy Studies, London  
Background: Regional Studies, Middle East

**Dr. Muhammad W. Ibrahim**

Geologist (EAME), Target Exploration Consultants, London  
Background: Geophysicist, Iraq Mineral Exploration Co. Field Geologist, Geological Survey of Iraq. Staff Geologist, Mobil Oil Libya, Veba Oil Libya. LASMO Grand Maghrib. Consultant Geologist: AMOCO Overseas, BULA Resources, LASMO International, UNOCAL (Syria).

**Dr. Munim Al-Rawi**

Director, Carta Design Ltd., Dublin, Ireland.  
Background: Lecturer on Petroleum Geology in Kuwait, Saudi Arabia, and UAE. Geologist, MENA, Petroconsultants, Dublin.

**Mr. Sabah Al-Mukhtar**

Lawyer, Arab Lawyers Network, London  
Background: Law Department, Iraq National Oil Co., Iraq Exploration Co.

**Dr. Thamir Uqaili**

Area Reservoir Co-ordinator, Repsol  
Background: Reservoir Engineer (BPC), Field Manager (NOC), General Manager (CPO), General Manager Planning Dept. (MOO), Iraq.

**Mr. Walid Khaddori**

Executive Editor, Middle East Economic Survey (MEES), Nicosia, Cyprus  
Background: Economic analysis, Middle East and North Africa

# IRAQI PETROLEUM CONFERENCE 1999 (IPC99)

## Day One

Thursday 9<sup>th</sup> September 1999

### Exploration and Discoveries

8.30 Registration and Coffee

#### 9. Chairmen Opening Remarks

Issam Al Chalabi  
and  
Mahboub Al Chalabi

#### 10. Exploration and Production History of Iraq

- Exploration During Pre-Independence Period
- Exploration and Production by IPC Group
- Exploration and Production by Other Foreign Companies
- Exploration and Production by State Companies
- Current Exploration and Production

Munim Al Rawi, Director, Carta Design Ltd

#### 9.40 Iraq's Exploration and Production Potential

- Regional Information

- Depositional
- History
- Petroleum Systems
- Hydrocarbon Prospects
- Production Records
- Production Records of Some Oil Fields
- Estimates of Iraq's Production Capacity

**Manouchehr Takin, Senior Upstream Petroleum Analyst, CGES**

## **10. 20 Geophysical Activities in Iraq**

- Introduction: Review of Geophysical Exploration in Mesopotamia
- Gravity and Magnetic Data: Acquisition and Interpretation
- Seismic Data: Acquisition Problems, Processing and Interpretation
- Bore-hole Geophysics

**Hazim Al Dabagh, Geophysicist, Sirte Oil**

## **11.00 Morning Coffee**

### **11.20 Surface Geochemistry in the Quest for Hydrocarbons, a Case Study from Iraq**

- Geochemistry of Surface Samples
- Sampling and Analysis
- The Halo
- Concluding Remarks

**Faisal Al Kufaishi**

## **12.00 Petroleum Geology and Hydrocarbon Provinces of Iraq**

- Tectonics and Structural Styles
- Source Rock Systems
- Paleozoic Hydrocarbon Plays
- Triassic Hydrocarbon Plays
- Jurassic Hydrocarbon Plays
- Cretaceous Hydrocarbon Plays

- Cenozoic Hydrocarbon Plays
- Hydrocarbon Provinces of Iraq
- Hydrocarbon Reserves per Play and Province

**Muhammad W. Ibrahim**, Geologist, Target Exploration Consultants

**12.40 Lunch**

## **Drilling and Reservoir Engineering**

### **2.00 Reservoir Engineering Aspects of Typical Iraqi Oil Fields**

- Background
- Reservoir Geology
- Oil Fields
- North-eastern Province
- North-western Province
- Central Province
- Southern Province
- Western Desert
- Others
- Gas Fields
- Improved Reservoir Management
- Conclusions

**Thamir Al Uqaili**, Area Reservoir Co-ordinator, Repsol

### **2.40 Drilling Problems in the South Oilfields of Iraq**

- Pressurised and Water Sensitive Shales
- Lost Circulation
- Coring Difficulties
- Drilling Fractured Formations
- Gas-Cut Mud
- Underground Blowouts

- Field Examples: Buzurgan, Abu Grab, Fuqi, Ratawi and Rafidain.
- Summary of Developed Solutions

**Hussain Rabia**, Entrac Consulting, Reading, and Louayd Al Hashimi, Consultant, Calgary

### 3.20 Afternoon Tea

## Iraq's Oil Industry and the UNSC Sanctions

### 3.40 UN Security Council Sanctions on Iraq

- UN Economic Sanctions and Oil Sales
- Pro-UN Sanctions Arguments
- Counter-Narratives to the Pro-UN Sanctions
- Conclusions

**Eric Herring**, Lecturer in International Politics, Univ. of Bristol

### 4.20 The Global Oil Market, OPEC and Iraq

- Introduction
- The Present Balance of Oil Supply and Demand
- Factors Influencing Oil Market
- OPEC's Role, Goals and Performance
- Oil Price Outlook
- Future Oil Supply and Demand
- OPEC Policy Options and Iraq

**Manouchehr Takin**, Senior Upstream Oil Analyst, CGES, London

### 5.00 Panel Discussion and Chairmen Closing Remarks



# IRAQI PETROLEUM CONFERENCE 1999 (IPC99)

## Day Two

Friday 10<sup>th</sup> September 1999

### Exploration and Development Opportunities

#### Chairmen Opening Remarks

Issam Al Chalabi

Mahboub Al Chalabi

#### 9.10 Iraq's Upstream Infrastructure and Facilities

- Seismic Crews and Equipment
- Seismic Processing Centre
- Drilling Crews
- Mobil Rigs
- Future Equipment Requirements

Munim Al Rawi, Director, Carta Design Ltd.

#### **9.40 Opportunities of Exploration and Fields Development in Iraq**

- Background
- Types of Contracts
- Opportunities
- Conclusions

**Thamir Uqaili**, Area Reservoir Co-ordinator, Repsol.

#### **10.20 Iraq Exploration and Production Sharing Agreements**

- Historical Overview
- Iraqi Oil Industry Structure
- From Concession to National Exploitation
- Production Sharing Contracts
- Service Contracts
- The Destruction of the Oil Industry
- Industry licking its Wounds
- Looking into the Future
- The Conventional Way
- Possible Scenarios
- Balancing Act

**Sabah Al Mukhtar**, Arab Lawyers Network, London

#### **11. Morning Coffee**

#### **11. 20 Hydrocarbon Exploration Potential of Western Iraq, and The Akkas Discovery**

- Introduction
- Exploration History
- Tectonic Elements

- Stratigraphy
- Source Rocks Facies
- Exploration Plays and Anomalies
- Structure, Source, Reservoir, and Cap Rock of the Akkas-1 Discovery
- Summary

**Muhammad W. Ibrahim, Geologist, Target Exploration Consultants**

## **12.00 Tectonic Analysis of Eastern Syria: Analogies for Western Iraq**

- The Euphrates Graben System
- Sinjar / Abd el Aziz Structure
- Structural Analysis and Patterns
- Mesozoic and Cenozoic Evolution
- Structural Continuation into Iraq
- Hydrocarbon Production / Potential
- Regional Tectonic Implications

**Graham Brew, Research Scientist, Cornell University, Ithaca, New York**

## **12.30 Lunch and Posters**

# **Doing Business with Iraq**

## **2.00 Iraqi Gas Reserves and Potential Gas Markets**

- Introduction: Gas the Fuel of the Future
- Proven Iraqi Gas Reserves: Free Gas, Associated Gas, Gas Cap Gas
- Probable and Possible Iraqi Gas Reserves
- Supply and Demand of the Iraqi Gas Market
- Export Potential of Iraqi Gas

- Feasibility of Reservoir Development and Export to Turkey and Europe
- Regional Outlook of Iraqi Gas Export: Interaction with other ME and FSU Gas Suppliers
- Conclusions

**Abdul Hussain Al Hakim**, Consultant Reservoir Engineer, Kingston upon Thames, UK.

## **2. 40 Other Iraq's Oil Industry Contracts**

- The Services that Iraq Needed
- The System Used
- Possible Needs
- Possible Forms

**Sabah Al Mukhtar**, Arab Lawyers Network, London

## **20. Afternoon Tea**

# **Epilogue: Prospects of Iraq's Hydrocarbon Industry**

## **3.40 Iraq, Oil and the Sanctions**

- Introduction
- The Seventies: Sharp Takeoff
- The Eighties: Iraq-Iran War, Retrenchment
- Post Iraq-Iran War- Pre Gulf War Period
- The Nineties: Invasion of Kuwait, Gulf War Destruction, and UN Sanctions
- UNSC New Policy: UK/Dutch Draft, The Long VS. Short Term Sanctions Debate
- Epilogue: The Future, Interaction with International Oil Companies

**Walid Khaddori**, Executive Editor, MEES

#### 4.20 Prospects of Iraq's Oil Industry

- Historical Background of the Oil Industry in Iraq
- Impact of Politics on the Oil Industry Throughout the Century
- Iraq's Oil Industry as in August of 1990
- Current State of the Oil Industry: Two Wars and Sanctions
- Oil-for-Food Programme: It's Effect on the Iraqi Oil Industry
- Prospects of Iraq's Oil Industry

**Issam Al Chalabi, Consultant Engineer, Amman**

#### 5.00 Panel Discussion and Chairmen Closing Remarks

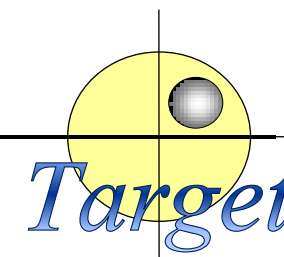
### Reserve Speaker

#### Doing Business with Iraq

- Introduction
- British Trade with Iraq Pre-Sanctions
- British Trade During Sanctions
- British Foreign Policy Towards Iraq: Aspects of the UNSC Sanctions
- The Arab Perspective
- The Way Forward: Trading with Iraq Post-UNSC Sanctions

**Dr. Burhan Al Chalabi, Chairman, BMC Ltd., London**





The conference proceedings on the oil industry in post-1990 UN sanctioned Iraq is only available from

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