LOW COST DEVELOPMENT OF UNCONVENTIONALS
- WPC Expert Workshop, Beijing

Date: 6 September, 2016 · Beijing, China
Venue: Convention Center, 20 Xueyuan Road, Haidian District, Beijing, China

About the Workshop

Background
Nowadays, unconventional resources have played a crucial role in oil and gas production, and their future contributions would become even more important in the energy mix. The major technical breakthroughs and development of shale gas and tight oil & gas have made unconventional oil and gas E&P a very promising arena. However, with the decline of oil and gas prices, unconventional E&P has encountered greater challenges. The industry holds a widely-regarded view that unconventionals E&P shall be carried out in some new ways against current environment. Cost-reduction through technical innovation become a critical and practical way to choose.

Objectives
The workshop is focused on the growth potential of unconventional resources and provides a timely opportunity for professionals to discuss current situations, share insights of the latest case studies and exchange ideas with all the participants from different fields and disciplines of the industry.

We believe the exchanges and sharing of knowledge among international peers on existing and emerging technologies, as well as best practices of low-cost E&P of unconventionals are expected to bring enlightenment and sparks for technical innovation against current low oil price environment.

Speakers & Presentations
The specially invited speakers are recommended by professional peers and approved by the Technical Committee of the workshop. The speakers are not only the science and technology experts on their own technical fields, but the field practitioners, their presentations not only represent the technical views of the individuals, but also express the latest progress and practice achievements within such fields.

The speakers will discuss closely around the theme of how to effectively reduce the cost of unconventional E&P worldwide, at the same time will focus on current status and trend of the development of China’s unconventional oil and gas E&P under current external environment. Through comprehensive introductions, analysis and discussions, domestic and international participants are expected to make prospects and forecasts about the future development of unconventionals. Final list of speakers will soon become available.

Who Should Attend
Reservoir/production and petroleum engineers, drilling and completion engineers, reservoir/production and petroleum geologists, production chemists and technologists, and research scientists from home and abroad, together with the WPC officials and relevant technical experts from WPC member countries.

Guidelines

Language
English and Chinese are official languages of the workshop. Simultaneous interpretation service will be provided.

Format
The workshop will include opening session and 3 technical sessions followed by Q&A in order to better exchange ideas among speakers and the audiences. All speakers are suggested to share their experience for overcoming common challenges with case studies and lessons learned.

Registration
To achieve fruitful outcomes, the workshop limits its attendance for privileged 100 experts only. Registration is required with no fee, including a luncheon complimentary to all participants, on a "first come, first served" basis and young professional participants are encouraged. Transportation, accommodation and other costs will be borne by the participants.

Achievements and Deliverables
Copyright of the workshop presentations is retained by the Chinese National Committee for WPC. An Expert Group will be appointed to produce the final report.

The final report of the workshop will be presented during a Special Session at the 22nd World Petroleum Congress in July 2017. Copies of the final report will also be distributed.

The final report will be included in the WPC Proceedings and become available on the WPC official website.

Contact
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# Preliminary Technical Program

**Opening Session (09:00-10:00)**

**Host:** LIU Zhenwu, CPC Member, WPC

<table>
<thead>
<tr>
<th>TIME</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-09:30</td>
<td>Opening Speech</td>
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| 09:30-10:00 | Keynote Speech: Unconventional Oil & Gas Development in China – Outlook, Challenges and Opportunities  
**ZOU Caineng,** Vice President, RIPED, CNPC |
| 10:00-10:20 | Coffee Break                                                         |

**Session 1 (10:20-12:00)**

**Moderator:** LIU Yuzhang, Director, Office of Senior Consultants, RIPED

<table>
<thead>
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<th>TIME</th>
<th>ITEM</th>
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| 10:20-10:40 | E&D Progress of Sinopec Fuling Shale Gas Field  
**FENG Jianhua,** Chief Engineer, Sinopec E&P |
| 10:40-11:00 | Development Progress of Changning/Weiyuan National-level Shale Gas Demonstration Project of Sichuan Basin  
**CHEN Gengsheng,** Principal Expert of Shale Gas, Southwest Oil & Gas Field Company, PetroChina |
| 11:00-11:20 | Development Trend of Global Unconventional Resources under Current Low Oil Price Situation  
**IHS** |
| 11:20-11:40 | The Future Road for Tar Sand Producers – A Road to Low Cost and Green Development  
**NIE Changmou,** General Manager, Oil Sand, CNPC (International) Canada |
| 11:40-12:00 | Q & A                                                                |
| 12:00-13:00 | Lunch                                                               |

**Session 2 (13:00-14:40)**

**Moderator:** WU Qi, Senior Vice President, PetroChina Exploration & Production Company

<table>
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<th>TIME</th>
<th>ITEM</th>
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| 13:00-13:20 | Practice and Understanding of Integrated Well Construction and Optimized Design  
**WANG Feng,** Deputy General Manager, Jilin Oilfield Company, PetroChina |
| 13:20-13:40 | Practice and Thoughts of Cost Reduction and Efficiency Increase Driven by CNPC’s Innovation in Engineering Technology  
**LI Guoshun,** Vice President, CNPC Technical Service Company |
| 13:40-14:00 | Current Situation and Challenges of Tight Oil Drilling and Production Engineering Technology of CNPC  
**LIU He,** Deputy Chief Engineer of RIPED, CNPC |
| 14:00-14:20 | Development Technology/Solutions of Unconventional Oil & Gas in Low Oil Price Situation  
**Axel DESTREMAU,** CHG Geomarket Manager, Schlumberger |
| 14:20-14:40 | Q & A                                                                |
| 14:40-15:00 | Coffee Break                                                         |

**Session 3 (15:00-16:50)**

**Moderator:** LIU He, Deputy Chief Engineer, RIPED

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<th>TIME</th>
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| 15:00-15:20 | E&P and Geological Research Progress of China’s CBM  
**SONG Yan,** Director of Unconventional Natural Gas Research Institute, China University of Petroleum (Beijing) |
| 15:20-15:40 | Current Situation and Trend of Unconventional Resource Development of International Oil Company  
**ExxonMobil** |
| 15:40-16:00 | ICP of Unconventional Oil and Gas  
**John KARANIKAS,** Chief Scientist, Shell |
| 16:00-16:20 | Reservoir Characterization and Development Practice of Tight Oil & Gas in Ordos Basin  
**HAN Xinggang,** Director, Research Center of Sulige Gas Field, Changing Oil & Gas Field Company, PetroChina |
| 16:20-16:40 | Q & A                                                                |
| 16:40-16:50 | Summary Remarks                                                        
**LIU Zhenwu,** CPC Member, WPC |