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Dear Colleague,

Historically, the oil and gas industry has experienced many drastic up and downs, but this year we realised that we are living in an era when old methods cannot cope with new challenges and they are not able to maintain the further dynamic development of the sector. Even taking into consideration all the risks and difficulties of innovations implementation, it is obvious that the oil and gas industry is in dire need of advanced breakthrough technologies. This is the only tool to stay the course and to bring production efficiency to a qualitatively new level.

Despite the extremely uncertain environment, we consider the current situation not as a barrier, but as an incentive for further development and an opportunity to search for new methods and discoveries. We can surmount these obstacles only if we remain united, continue our cooperation and share our experience, focusing on joining our efforts in the innovative technologies development and implementation.

Therefore, events such as the SPE Russian Petroleum Technology Conference are so important. According to the international oil and gas community, this conference remains one of the most respectable SPE events in Russia. This event gives each delegate a platform to discuss the latest developments in the industry, share real experience in technology implementation in a noncommercial and noncompetitive environment. This year the SPE Russian Petroleum Technology Conference for the first time will be held in virtual format, 26 – 29 October 2020.

Detailed information about the conference programme is available within this brochure.
For professionals, it makes a great sense to participate in this conference, because here they meet with the elite of our industry and have the opportunity to share their ideas at the conference and gain technical knowledge.

Sergey Kolbikov, NOVATEK.

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Viktor Petersiye, All-Russian Research Geological Oil Institute (VNIIGNI)
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Graeme Taylor, Halliburton
Mikhail Tokarev, Moscow State University, Oil and Gas Center
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Kevin Wilson, LUKOIL

About the Society of Petroleum Engineers
The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 153,000 members in 143 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing publications, events, training courses, and online resources at www.spe.org.

Learn more at go.spe.org/20rptc-preview-en
Conference Statistics

Companies*
- Operators: 40%
- Service companies: 33%
- Universities, R&D and IT: 27%

Popular Disciplines*
- Well Construction: 15%
- Hydraulic Fracturing: 10%
- Enhanced Oil Recovery: 10%
- Oilfield Development: 10%
- Modelling: 7%
- Hard-to-Recover Reserves: 7%
- Well and Formation Testing: 6%
- Digital Technologies: 6%

Job Titles**
- Engineer: 35%
- Geologist/Geophysicist: 16%
- Student: 10%
- R&D: 9%
- Executive: 8%

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Sergey Redkin, Weatherford
Petr Ryabtsev, AKROS
Konstantin Rymarenko, Independent Expert
Artem Semenikhin, IBM
Alexander Shandrygin, Gazprom Geologorazvedka
Nikolay Smirnov, PetroGM
Vyacheslav Solonitsyn, OILTEAM Engineering
Vladimir Solovyev, Arcticgaz
Dmitry Surnachev, ROXAR Services
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Alexander Zamkovoy, TGT Oilfield Services
Alexey Zhivodkov, Total
Technical Categories

1. Hard-to-Recover Reserves
2. Enhanced Oil Recovery
3. Well Construction – Drilling and Completion
4. Oil and Gas Production - Equipment and Technologies. Production Gathering and Processing
5. Oilfield Equipment. Development, Manufacturing and Best Practices
7. Oilfield Development
8. Digital Technologies for Oil and Gas Industry
9. Static, Dynamic and Integrated Modelling
10. Geomechanics
11. Conceptual Engineering and Re-Engineering
12. Gas, Gas Condensate and Oil Gas Condensate Field Development
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14. Field Geology and Geophysics
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- To choose the most cost effective well completion solutions
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Round Tables

Hard-to-Recover Reserves

Every year we face a steady deterioration in the structure of natural hydrocarbon reserves, namely, the share of so-called hard-to-recover reserves (HRR) which is rapidly growing. According to the common standards, the HRR category includes those reserves that can be developed only using non-traditional methods and technologies and therefore require increased investment and operating costs.

The following issues will be discussed within the framework during this round table:

• Types of oil and gas HRR. Correlation of the concepts of HRR and unconventional hydrocarbons.
• The role of HRR in oil and gas production while low oil prices.
• Existing problems of geological study of HRR.
• The effectiveness of existing technologies for developing HRR deposits of oil and gas.
• Innovations for the development of HRR deposits.
• The necessary activities to stimulate hydrocarbon production from HRR deposits.

Confirmed and invited speakers: Kirill Strizhnev, the Bazhen Technology Centre; Alexey Cheremisin, Skoltech; LUKOIL; Gazpromneft STC.

Digital Transformation

Each cycle of the industry digitalisation process raises new questions and challenges. While some digital technology trends are switching to the “plateau of productivity” phase, other areas demonstrate the “peak of inflated expectations” or even fall to the “frustration hole”.

The digital world offers new opportunities, which were not obvious several years ago. At the same time, we face that some old illusions are shattered, the deadlines and plans of their implementation are being adjusted.

This round table will address issues of the current state of the most prospective areas of digital transformation from the standpoint of successes, problems, challenges and prospects. Experts from leading companies will share their experience and highlight the digital transformation pitfalls and lessons learned, as well as their vision to the future perspectives of the current digital transformation cycle in the oil and gas industry.

Round Table topics include:

• Is a digital research a blind alley job?
• “Humanless” production and IoT
• Cloud technologies for subsoil tasks
• Digital twins of the oil and gas wonderland

Confirmed and invited speakers: Alexander Sudakov, Gazprom Neft; Konstantin Chaus, Sensia; Mikhail Popov, Halliburton; Dmitry Tatarinov, Geosplit; RN-BashNIPIneft.
Round Tables

Decarbonisation of the Oil and Gas Industry: Meeting the Challenges

In 2019, total greenhouse gas emissions in CO$_2$ equivalent amounted to 33 billion tons, and the share of oil and gas industry was 13% or 4.4 billion tons. This issue is especially topical for our country as Russia is ranked the fourth place in the world in terms of the greenhouse gas emissions among all the countries.

According to the global oil and gas community, the influence of greenhouse gas emissions on the global climate change is one of the key issues of the industry, which requires public discussions at the companies’ and governments’ levels.

Participants will discuss the following topics:

- Decarbonisation strategies in the companies
- Plans and case studies
- The most effective solutions to meet current challenges

Invited speakers: BP, Equinor, NOVATEK.

Formation Damage Control

The speakers at this Round Table will provide their views about specific well operations and reservoir drill-in fluids design practices that impact well performance. Discussions will include areas where our industry could improve current practices as well as areas where innovations are needed.

Theory and principles are reinforced by the extensive use of real field examples from different fields. The Round Table aims to demystify the subject of formation damage and promote a formation damage awareness culture, encouraging participants to challenge convention and think about the implications of damage throughout a field or well life cycle – from drilling to production.

Speakers: Petr Ryabtsev, AKROS; Anton Khomutov, Gazpromneft STC; Alexander Voloshin, RN-BashNIPIneft; Viktor Gusakov, Bashneft-Petrotest.
**Ask the Expert Hour**

**Digital Rock Analysis for Enhanced Oil Recovery Solutions**

**Expert:** Oleg Dinariev, Schlumberger

Oleg Dinariev Ph.D., Scientific Advisor, Schlumberger Moscow Research who has authored over 250 published papers will share his expert insight on Digital Rock Analysis for Enhanced Oil Recovery Solutions.

The development of complex formations with hard-to-recover reserves requires implementation of different enhanced oil recovery (EOR) techniques with yet insufficient field implementation experience. Moreover, EOR solutions must be based on reliable efficiency forecasts, which require detailed understanding of relevant pore-scale physical and chemical phenomena taking place in the reservoir. Laboratory core studies of EOR have well-known restrictions related to cost, time, reproducibility and optimisation. We propose the digital rock analysis for EOR justification.

**Correlation Between Hydraulic Fracturing and Geomechanics: Practical Aspects**

**Experts:** Mikhail Samoylov, Rosneft Peer Review and Technical Development Center; Valery Pavlov, Tyumen Petroleum Research Center

Mikhail Samoylov, RN- Peer Review and Technical Development Center, and Valery Pavlov, Tyumen Petroleum Research Center, are team leaders and experts in hydraulic fracturing and geomechanics, authors of numerous articles, famous lecturers and SPE award-winning professionals. They will share their experience in supporting joint projects in hydraulic fracturing and geomechanics, multi-functional team interactions and solving problems to increase hydraulic fracturing efficiency.

The focus of the Russian oil and gas industry is inevitably shifting to hard-to-recover reserves. The term hard-to-recover reserves includes both unconventional reserves and classic oil and gas reserves, along with the development of which is complicated by geological and technological factors. Economic efficiency of the reservoir development is based on complex technical solutions with wide-spread methods: horizontal and multilateral well construction and multi-stage hydraulic fracturing. Drilling, well completion and hydraulic fracturing specialists are the “main users” of geomechanical data and “initiators” of geomechanical investigations. Therefore, formal and informal workgroups are organised to cover multiple projects.

The authors will present their vision on common approaches to solving joint problems, team workflow in and illustrate the results of both previously published articles and unpublished materials.
Ask the Expert Hour

Russian Oil and Gas Industry Technology Priorities

Expert: Oleg Zhdaneev, Ministry of Energy of Russian Federation

Oleg Zhdaneev is head of the technology development centre of Russian Energy Agency of Ministry of Energy of Russian Federation, PhD. For more than 15 years, Dr. Zhdaneev worked at Schlumberger as the head of manufacturing for Russia and Central Asia region. Member of the scientific and technical council of Ministry of Industry and Trade of the Russian Federation. Author of more than 50 publications, 17 patents and participated in 2 oilfield discoveries. A number of logging, drilling and testing tools have been developed under his supervision. The 2017 SPE Russia and Caspian Regional Management and Information Award Winner.

The technology priorities defined in the Russian Energy strategy until 2035 is going to be at the centre of this discussion. We will discuss the need of the long term technology policy for the oil and gas sector, the demand to the related industries (metallurgy, electronics and chemistry), opportunities for the international technical cooperation (special focus on BRICS) and potential benefits from cooperation with the defense industry.
Regional Student Paper Contest

The 2021 Student Paper Contest traditionally takes place alongside the SPE Russian Petroleum Technology Conference. The contest has three divisions:

- Undergraduate Division
- Postgraduate Division: Masters and Diploma projects
- Candidates

This year winners are invited to attend the International SPE Student Paper Contest to be held at the 2021 SPE Annual Technical Conference and Exhibition.
Plenary Session

Monday, 26 October

Innovations: from Ideas to Best Practices

Moderators: Oleg Dubnov, Skoltech; Sergey Nikitin, Nedra

Opening presentation: Alexey Vashkevich, Gazprom Neft

Globally, thousands of new technologies for the oil and gas industry are generated, registered and patented each year. This highlights that there is no 'lack of new ideas' within our world, but a drive for development and innovation.

To support industry startups, the Government creates venture funds and implements special national programmes. However, at the same time, a very small number of these ideas and inventions are being introduced into oil and gas production practices. What is the obstacle? Why do 'cemeteries' of ideas appear?

Modern business planning is aimed at a quick financial result. The applied risk assessment systems do not promote the implementation of the new complex untested methods, solutions, and technologies. It could be suggested that this is the reason why these ideas are not considered at the examination stage.

However, in the current situation when reserves structure is deteriorating and we have to use complex geological objects, it is impossible to achieve acceptable financial results without introduction of new technologies, methods and approaches in oil and gas industry processes.

This plenary session aims to gain insight and share opinions on selection the criteria companies use when introducing innovations. Participants will discuss how innovations could respond to the upcoming challenges in the future and how to create a common Bank of Ideas and Technologies beyond boundaries and politics, which will be based on the free exchange of information under the umbrella of the Society of Petroleum Engineers.

During this session, experts will also share their companies' best practices in innovations introduction, internal selection processes and how to scale successful technologies. Also, participants will be able to discuss how R&D centers interact with production, support systems for inventors and innovators and the current platforms available for technology transfer.

Igor Bogachev, ZYFRA; Lawrence Stein, Skoltech; Mustafa AlAli, Aramco Innovations LLC, Moscow; Artem Karapetov, Schlumberger; Igor Shpurov, State Committee on Reserves; leaders and experts of Equinor will take part in the discussion.
# Technical Programme

## Technical Session Hard-to-Recover Reserves

<table>
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<tr>
<th>Paper #</th>
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| 201809  | Prospects for the Oil and Gas Potential of the Khadum Shale Deposits in the Eastern Ciscaucasia  
V. Kalabin, LUKOIL-Engineering |
| 201810  | Summary of Five-Year CSS Pilot for Carbonate Deposits of Natural Bitumen at Boca de Jaruco Field in Cuba  
A. Osipov, VNIIneft; O. Petrashov, T. Azimov, A. Solovyev, Zarubezhneft |
| 201811  | Multivariate Optimisation of the Development System for Low-Permeability Reservoirs of Oil Fields of the Achimov and Tyumen Formations  
A. Fedorov, I. Dilmukhametov, A. Povalyaev, M. Antonov, RN-BashNIPIneft; A. Sergeychev, Rosneft |
| 201812  | The Results of Pilot and Industrial Application of Thermal-Gas-Chemical Well Treatment with Binary Mixtures and Development of Mathematical Models for Reservoir Processes in Source Oil Rock  
A. Lischuk, HMS Group; M. Kravchenko, N. Dieva, Gubkin Russian State University of Oil and Gas; N. Shesternina, Tatneft |
| 201813  | Petroleum Potential Assessment of Bazhenov Organic-Rich Formation Rocks of Western Siberia  
M. Topchiy, A. Kalmykov, G. Kalmykov, M. Fomina, D. Ivanova, Lomonosov MSU |
| 201814  | Highly Conductive Layers and Their Role in the Development of Oil Fields of the Bazhen-Abalak Complex  
A. Ipatov, E. Zhukovskaya, Gazpromneft STC; D. Lazutkin, The Bazhen Technology Centre |
| 201815  | Evaluation of a Field-Wide Post-Steam In-situ Combustion Performance in a Heavy Oil Reservoir in China  
F. Zhao, C. Xi, X. Zhang, W. Guan, Y. Jiang, H. Wang, Research Institute of Petroleum Exploration & Development, PetroChina Co. Ltd; X. Shi, F. Yang, H. Mu, Xinjiang Oilfield Corporation, PetroChina; T. Babadagli, H. Li, University of Alberta |
| 201816  | Discrete Fracture Network Modelling of Siliceous Reservoir in Terms of a Unique Sakhalin Offshore Oil Field  
M. Ganaeva, G. Sun, RN-SakhalinNIPIMorneft |

All authors’ names, companies’ and paper titles are listed as submitted to SPE. The programme is relevant as of May 20, 2020.
## Technical Session Enhanced Oil Recovery

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| 201821  | Experimental Studies of the Displacement of High Viscosity Oil by Carbon Dioxide from Carbonate Rocks  
S. Kalinin, K. Kosterin, LUKOIL-Engineering PermNIPIneft |
| 201822  | Results of First Polymer Flooding Pilot Project at East-Messoyakhskoe Field  
I. Ilyasov, A. Podkorytov, Messoyakhneftegaz |
| 201823  | Numerical Simulation of Polymer Flooding  
E. Mirsayanova, A. Cheremisin, A. Cheremisin, Skolkovo Institute of Science and Technology |
| 201824  | Cyclical Gel-Polymer Flooding Technology is an Effective Method for Increasing Oil Recovery in High-Viscosity Oil Fields  
A. Telin, T. Ismagilov, Ufa STC; S. Lobanov, B. Elubeev, N. Talamanov, Zh. Sun, Ch. Wang, Buzachi Operating Ltd.; Zh. Bo, Xinjiang Keli New Technology Development Co., Ltd. |
| 201825  | New Word in Russian Fracturing-Synthetic Polymer-Based Low Viscous Fluids. Gazpromneft-Khantos Case Study  
S. Sypchenko, S. Pavlova, M. Paskhalov, D. Valnev, A. Loginov, O. Olennikova, A. Borisenko, S. Vereschagin, E. Danilevich, Schlumberger; R. Uchuev, A. Prutsakov, N. Chebykin, I. Vikhman, Gazpromneft-Khantos |
| 201826  | Practices of Miscible Displacement of Oil by Gas on the Achim Deposit of Yamburg Project  
R. Iskhakov, N. Pleshanov, R. Nigmatullin, Gazpromneft STC |
| 201827  | Complex Approach to Designing Physical and Chemical Enhanced Oil Recovery Methods  
E. Emelianov, Yu. Zemtsov, Tyumen Petroleum Research Center |
| 201828  | Designing and Execution of Slim Tube, VIT, Swelling Test Laboratory Experiments to Measure Minimal Miscibility Pressure (MMP) as a Part of WAG Design  
V. Zakharenko, A. Kobyashev, S. Zanochev, E. Gromova, A. Vasilyev, T. Pospelova, Tyumen Petroleum Research Center; K. Fedorov, Tyumen State University; R. Musin, I. Dolgov, Verkhnechonskneftegaz |
| 201829  | The Effects of Crude Oil Gravity and Composition on EOR Surfactants Selection and Performance  
A. Alanazi, Z. Kaidar, Saudi Aramco |
| 201830  | EOR Technology: Surfactant-Polymer Injection to Increase Oil Recovery from Carbonate Reservoir of Kharyaga Oilfield  
A. Kornilov, VNIIneft; M. Arsamakov, Zarubezhneft-dobycha Kharyaga |

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## Technical Programme

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<td>201831</td>
<td>The selection of Effective Solvents is a Universal Modification of Existing Methods for Increasing Oil Recovery and Intensifying Oil Production  &lt;br&gt;A. Litvin, SamaraNIPIneft</td>
</tr>
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<td>201833</td>
<td>Analytical Prediction of Phase Behavior of Micro- and Nano-emulsions in Surfactant Flooding of Oil Reservoirs  &lt;br&gt;H. Saboorian Jooybari, Z. Chen, University of Calgary</td>
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<tr>
<td>201834</td>
<td>Wettability of Carbonate Reservoirs: Effects of Fluid and Aging  &lt;br&gt;S. Kumar, A. Cheremisin, A. Burukhin, P. Grishin, Skolkovo Institute of Science and Technology</td>
</tr>
<tr>
<td>201835</td>
<td>Study on the Mechanism of In-Situ Energised Microbial Enhanced Oil Recovery in Daqing Tight Oil Reservoir  &lt;br&gt;X. Zhou, J. Li, Northeast Petroleum University; F. He, CNPC Chuanqing Drilling Engineering Company Limited</td>
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<td>201836</td>
<td>Overcoming Back-Produced Polymer Challenges – Development of an Advanced and Economic Filtration Technology for CEOR Application  &lt;br&gt;C. Krenn, M. Marx, S. Grottendorfer, R. Grillneder, OMV Exploration &amp; Production GmbH</td>
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<td>201837</td>
<td>Practical Experience in Applying the Technology of Creating a Network of Deep-Penetrating Filtration Channels with the Intensification of the Inflow in the Producing Wells  &lt;br&gt;S. Plekhanov, D. Moiseev, Belorusneft</td>
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<td>201838</td>
<td>A Case Study of Salt-Tolerant Functional Polymer for EOR in Carbonate Reservoirs with Ultra-High Salinity  &lt;br&gt;A. Mustafin, M. Varfolomeev, C. Yuan, R. Kadyrov, M. Glukhov, Kazan Federal University; K. Li, Southwest Petroleum University; R. Khayrtdinov, Kara Altynt</td>
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<tr>
<td>201839</td>
<td>The Mechanism Analysis and Field Trial of a New Particle-Type Polymer Flooding Technology  &lt;br&gt;Z. Sun, China National Offshore Oil Corporation (CNOOC) Research Institute Co.</td>
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</table>

All authors’ names, companies’ and paper titles are listed as submitted to SPE. The programme is relevant as of May 20, 2020.
## Technical Session Well Construction – Drilling and Completion

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| 201840  | The Cement Slurry and Technology of Cementing for Environments Abnormally High Content of Hydrogen Sulfide  
D. Utkin, LUKOIL-Engineering PermNIPIneft |
| 201841  | The Application of Drilling Fluid System Based on Salt-Saturated Direct Emulsion in Construction of Wells on Yurubcheno-Tokhomskoye Field  
| 201842  | First Implementation of Self-Healing Cement Systems in H₂S/CO₂, Aggressive Environment Across Pay-Zone  
A. Sozonov, V. Sukhachev, O. Olenikova, I. Akhmetzianov, E. Bakhareva, A. Burkenya, Schlumberger |
| 201843  | Foamed Cement Slurry for Helping Improve Production Casing Zonal Isolation: Case Study, Tsarichansko-Filatovskoye Oilfield, Orenburg Region  
A. Fomenkov, I. Pinigin, D. Velikiy, Halliburton; I. Denisov, Gazprom Neft |
| 201844  | Construction of Horizontal Wells on the Salmanovskoye Field: Challenges Encountered, Decisions and Measures Taken to Ensure Trouble-Free Drilling  
A. Kharitonov, A. Kabanov, E. Tikhonov, D. Kruchenko, Halliburton; S. Sokovnin, Arctic SPG2 |
| 201845  | “Smart” Bridging Agent – Protects Formation and Removed with Produced Fluid  
S. Popov, P. Ryabtsev, AKROS; P. Nikitin, D. Udaltsov, Rosneft Upstream Peer Review and Technical Development Center |
| 201846  | New Tailored Spacer System Helps Reduce Lost Circulation and Enhances Cement Bonding During Multistage Cementing Operations in Fractured Formations in Kyumbinskoe Field, Eastern Siberia  
M. Tsibulskiy, I. Massie, I. Trofimenko, K. Agapiou, Halliburton; A. Lodin, V. Hohryakov, Slavneft-Krasnoyarskneftegaz |
| 201847  | Field Deployment of Low ECD Organoclay-Free Invert Emulsion Drilling Fluids  
V. Wagle, A. AlYami, Saudi Aramco; J. Butcher, Halliburton |
| 201848  | Integrated Approach Enabled Successfully Delivery of the Longest Well on Odoptu Field for RN-Sakhalinmorneftegaz  
| 201849  | Fishbones, Wishbones and Birch-Leaves – Multi-Lateral Well Design on the Srednebotuobinskoye Field in Eastern Siberia  
E. Tuzov, S. Aliev, A. Gorbov, I. Galitsky, D. Makhmuto, R. Sultanov, TYNGD; M. Rylance, BP; I. Levanov, D. Sirotin, I. Levin, R. Efimov, Baker Hughes |
| 201850  | Use of Drill Bit with Combined Action Significantly Reduces Well Construction Time in Belarus Republic  
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<th>Paper #</th>
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<td>201851</td>
<td>Enhancement of Wellbore Position Accuracy for Ultra Extended-Reach Drilling in Far Eastern Russia                                        B. Poedjono, N. Zachman, Schlumberger</td>
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<td>201852</td>
<td>First Expandable Liner Hanger for Gas-Condensate Well in Jurassic Formation, West Siberia                                                    Ye. Klychkov, M. Biryukova, S. Lobanov, D. Kosenko, Halliburton</td>
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<td>201853</td>
<td>New Horizons of MSF Well Design – Ball-Activated Frac Valves with Single-Sized Ball Seats                                                 N. Vikulin, V. Rusakov, Schlumberger; P. Grebnev, RN-Yuganskinsneftgaz</td>
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<td>201854</td>
<td>Experience of Existing Casing Drilling Technologies in Various Conditions and Search of the New Solutions for Actual Challenges          A. Zakirov, Gazpromneft STC; A. Madyarov, Gazpromneft-Orenburg; D. Kartinen, Gazpromneft-Zapolyarye</td>
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<td>201855</td>
<td>Drilling Optimisation Workflows in Horizontal Wells on Remote Artificial Island                                                       K. Alwahedi, ADNOC Offshore; I. Tiberiu, Schlumberger; V. Kretsul, Schlumberger Middle East</td>
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<td>201856</td>
<td>Innovative Approach for Multilateral Well Completion with TAML 3 Junction Installation in Open Hole                                        D. Erokhin, G. Samarin, E. Ivashkin, Arcticgaz; A. Kashiev, E. Pyatkov, A. Fedotov, A. Filipnov, ADL Completions</td>
</tr>
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<td>201857</td>
<td>MPD as a Risk Reduction Decision for Exploration Drilling on Chepakovskoe Oilfield                                                       D. Krivolapov, T. Soroka, P. Dobrokhleb, E. Gusev, Schlumberger</td>
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<td>201858</td>
<td>Successful Drilling Well on Middle Jurassic Formation with Severe Geotechnical Conditions on West-Yurkharovskoe Field                  D. Elmurziev, I. Litvintsev, P. Chernov, R. Shakurov, M. Borodich, M. Zaidullin, I. Klimenko, Baker Hughes; A. Shakunov, NOVATEK-Yurkharovneftegaz; A. Frolov, ERIELL NEFTEGAZSERVICE</td>
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<td>An Application of 3D Geomechanics Modelling to Optimise Drilling Throw Fractured Zones                                                   I. Alekhin, DeGolyer and MacNaughton; A. Sidorov, V. Grebenschikov, E. Vlasov, NOVATEK STC</td>
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<td>201860</td>
<td>First MPD Experience with Brine’s Formation Abnormal Pressure in Kovyktinskoe Field                                                       A. Tomchenko, GNS; O. Myazin, E. Kazakov, Gazprom Nedra; V. Nikitin, Gazprom; G. Kaasa, C. Berg, Kelda</td>
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<td>Extending the Boundaries of Horizontal HTHP Drilling through Managing the Downhole Circulating Temperature                               O. Sissenov, Schlumberger; S. Rajadhyaksha, K&amp;M Technology Group</td>
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| 201877 | **Plunger Lift System Case Studies in Kazakhstan**  
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| 201878 | **Analysis of Self-Flowing through Annulus of Wells Operated with Electric Submersible Pumps, Western and Eastern Siberia Fields Cases**  
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| 201879 | **Case of Physical Fields Application to Accelerate Crude Oil Preprocessing**  
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| 201880 | **The Technology of Oil Production from Marginal Unprofitable Wells**  
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| 201890  | Optimisation of Well Sampling in Abnormally Low-Permeability Gas Condensate Formations  
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| 201891  | New Method to Determine Characteristics of Reservoir by Testing Gas Condensate Wells  
E. Pyankova, Gazpromneft STC |
| 201892  | Application of the Interference Test without Stopping the Wells to Regulate the Field Development Process of the NOVATEK Group of Companies  
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| 201893  | Horizontal Well Inflow Model Explanation by Well Testing and Logging  
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| 201894  | Using DNA-Logging to Determine Inflow Profile in Horizontal Wells  
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| 201896  | Enhancement of Smart Completion Effectiveness in Horizontal Wells of Severokomsomolskoye Field based on the Advanced Diagnostics Results  
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<td><strong>Optimisation of Carbonate Heavy Oil Reservoir Development Using Surfactant Flooding: from Laboratory Screening to Pilot Test</strong>&lt;br&gt;M. Varfolomeev, R. Ziniukov, S. Usmanov, V. Sudakov, C. Yuan, A. Mustafin, S. Sitnov, Kazan Federal University; R. Khayrtdinov, Kara Altyn</td>
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| 201922 | Missed Net Pay Zones Mature Oilfields via Injection of Expert Knowledge in Deep Learning Algorithms  
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| 201924 | 3D Reservoir Model History Matching based on Machine Learning Technology  
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| 201926 | Machine Learning Based Approaches in Creating a Digital Analogue of Bottomhole Pressure Gauges  
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| 201932 | Thomsen Parameters Determination from Synthetic Sonic Logging Data for VTI Formation Using a Convolutional Neural Network  
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| 201934 | Machine Learning for Fractured-Medium Parameters Estimation in Fractured Oil and Gas Reservoirs from Seismic Signatures of Reflected Waves  
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| 201976  | Identification and Analysis of the Maximum Stress Directions from Regional to Local Scales on the Area of JSC Orenburgneft for to Optimise the Field Development System  
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| 201990   | Bolshehetskaya Depression Concept Selection Study  
E. Mamedov, A. Lysov, LUKOIL-Engineering |

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<td><strong>Method for Solving Problems of Gas Production from Turonian Reservoirs</strong>&lt;br&gt; D. Bakulin, P. Zobov, A. Cheremisin, Skolikovo Institute of Science and Technology; V. Khlebnikov, Gubkin Russian State University of Oil and Gas</td>
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<td><strong>Implementation of Instrumentalised Virtual Multiphase Flow Metering Technology in the Wells of the Vostochno-Makarovskoye Gas Condensate Field</strong>&lt;br&gt; V. Baranov, A. Zozulya, Volga Gas; K. Rymarenko, MF Technologies; M. Nukhaev, Siberian Federal University</td>
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<td>202002</td>
<td><strong>Application of Semianalytical GORM-Method for Gas Production Prediction of Oil Rims Fields. The Case of Novoportovskoye Oil and Gas-Condensate Field</strong>&lt;br&gt; A. Varavva, D. Samolovov, R. Apasov, Gazpromneft STC; K. Ivanovich, Gazpromneft-Yamal</td>
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<td><strong>Method for Estimation of Optimum Horizontal Wells Pattern in Oil Rims</strong>&lt;br&gt; D. Samolovov, I. Perevozkin, D. Reshetnikov, Gazpromneft STC; S. Nekhaev, Gazpromneft-Development</td>
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<td><strong>Comparison of Different Methods for Determining Drained Volumes of Production Wells of a Multi-Layer Gas Condensate Field in the Presence of Complicating Factors</strong>&lt;br&gt; A. Smirnov, V. Serebryakov, E. Shevchenko, NOVATEK STC; A. Yuzhaninov, Yamal LNG</td>
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| 202014  | Some Possibilities of Fluid Typisation in Core Samples at Rig Site Applying Nuclear Magnetic Resonance  
V. Murzakaev, N. Belousova, TNG-Group |
| 202015  | Digital Core Analysis – Innovative Approach for EOR Agent Screening at Pore-Scale for Achimov Rocks  
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| 202016  | Acid Treatment Optimisation based on Digital Core Analysis  
E. Ivanov, A. Demianov, A. Beletskaya, L. Dovgilovich, D. Abdrazakov, M. Stukan, O. Dinariev, Schlumberger |
| 202017  | Quantitative Analysis of Whole Core Photos for Continental Oilfield of Western Siberia  
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A. Lutfullin, Tatneft |
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<td><strong>Comparative Analysis of Investment Targets in Oil and Gas Upstream on a Regional Level (Evaluation or Identification Stage)</strong>&lt;br&gt;S. Chizhikov, E. Dubovitskaya, Ingenix Group</td>
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<td>201992</td>
<td><strong>The Practical Application of Geosteering Difficulty Index of Wells Throughout the Company</strong>&lt;br&gt;M. Golovchenko, V. Filimonov, K. Kudashov, Rosneft; T. Rakhimov, Institute of Geology and Fossil Fuels Exploitation</td>
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# Technical Programme

## Knowledge Sharing ePoster Session

**Gas, Gas Condensate and Oil Gas Condensate Field Development**

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<tr>
<td>202007</td>
<td>Prospective Methods of Production Efficiency Enhancement at Thin Massive Gas Reservoirs</td>
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<td>R. Urvantsev, D. Ibragimova, Tyumen Petroleum Research Center</td>
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<td>202008</td>
<td>Instrumental Optical Method for Studying the Near-Critical Phase Behavior of Model and Reservoir Hydrocarbon Systems</td>
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<td>V. Podnek, Yu. Kiyachenko, I. Yudin, IOGP RAS; B. Grigoryev, Gazprom VNIIGAZ; A. Sirota, Gazprom</td>
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<td>202009</td>
<td>The Balance Between Oil and Gas Options in Case of J2-6 Oil Rim Development of Novoportovskoye Field</td>
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<td>V. Varavva, I. Chameev, E. Bogdanov, E. Sherstoboev, K. Isakov, Gazpromneft STC; A. Shorokhov, Gazpromneft-Development; V. Virt, D. Kashapov, Gazpromneft-Yamal</td>
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<td>202010</td>
<td>Creation and Implementation of New Innovative Approaches to the Formation of a System for the Development of a Large Oil and Gas Condensate Field in the Far North</td>
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<td>M. Mavletdinov, S. Solyanov, M. Fattakhov, LUKOIL-Engineering; M. Zipir, A. Devyatkov, Yamalneftegaz</td>
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<td>202011</td>
<td>Liquid Loaded Gas Condensate Revitalisation by Automated Flow Regime Optimisation and Control</td>
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<td>V. Baranov, K. Ruban, A. Zozulya, Volga Gas; K. Rymarenko, S. Grischenko, SIANT; M. Nukhaev, Siberian Federal University</td>
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<td>202012</td>
<td>Production Enhancement in Deep Sour Gas Field: a Case Study in China</td>
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<td>H. Guo, Schlumberger China S.A.; H. Li, Z. Weng, Schlumberger</td>
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<td>202021</td>
<td>Some Rules to Optimise Process of Planning Geomechanics Core Testing Programme</td>
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<td>A. Zinovyev, E. Korelskiy, Geosteering Technologies</td>
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<td>202022</td>
<td>Methods for Studying Two-Phase Flows in Porous Media: Numerical Simulation and Experiments on Microfluidics Chips</td>
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<td>M. Khairullin, Yu. Pasechko, VNIIneft; T. Zakirov, Kazan Federal University, Institute of Geology and Petroleum Technologies</td>
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<td>202023</td>
<td>Core Column Filtration Testing Supplemented by Measurements of Oil Optical Properties</td>
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<td>R. Burkhanov, I. Ibragimov, Almetyevsk State Oil Institute; A. Lutfullin, Tatneft; A. Maksyutin, TetraSoft-service</td>
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Knowledge Sharing ePoster Session Field Geology and Geophysics

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<td>An Integrated Earth Image Modelling with Purpose of Safe Exploration Drilling</td>
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<td>202033</td>
<td>Prospects for Resource Base Expanding of the Volga-Ural Oil and Gas Province through Reef-Based Search Objects</td>
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<td>E. Sannikov, Izhevsk Petroleum Research Center</td>
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<td>202034</td>
<td>Geologically Conditioned Stochastic Inversion of Seismic Data for Reservoir Characterisation in Tyumen Formation</td>
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<td>A. Pirogova, Lomonosov MSU; K. Epov, Ruspetro</td>
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| 202035  | Study of Mechanical Properties and Analysis of the Effect of Low Temperatures on the Behavior of the Structural Material of Elastic Tanks  
A. Shiriev, N. Shirieva, LUKOIL-Engineering KogalymNIIPneft |
| 202036  | Psychological Safety of Oil and Gas Workers in the South and North of the Russian Federation  
Ya. Korneeva, Northern (Arctic) Federal University; N. Simonova, Lomonosov MSU |
| 202037  | Implementing HSSE Competence Framework – Process, Lessons and Results  
O. Samoylova, Salym Petroleum Services B.V.; F. Claessen, Shell Exploration and Production Services Russia |
| 202038  | Development of a Hazard Assessment Matrix for Wells as a Method of Ensuring Industrial Safety in the Design of Construction of Oil and Gas Wells  
A. Shiriev, N. Shirieva, LUKOIL-Engineering KogalymNIIPneft |
| 202039  | Identification of SAP Sources in Offshore Production Wells in the North Caspian Oilfields  
O. Abramenko, A. Senkov, S. Shtun, M. Rakitin, LUKOIL-Nizhnevolzhskneft |

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<td><strong>Optimal Sampling Technique Creation to Increase Accuracy of Production Logging Using Quantum Dots Tracers</strong>&lt;br&gt; N. Parshin, RITEK</td>
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<td>202046</td>
<td><strong>Automated Horizontal Well Geosteering Using Machine Learning. Examples with Real Data</strong>&lt;br&gt; I. Denisenko, I. Kudyaev, O. Kushnmentsev, I. Uvarov, A. Toporov, ROGII</td>
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<td>202047</td>
<td><strong>Integration of Petrophysical Log Data with Computational Intelligence for the Development a Lithology Predictor</strong>&lt;br&gt; M. Khan, Schlumberger</td>
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<td>202048</td>
<td><strong>Expanding the Envelope of Fiber-Optic Sensing for Reservoir Description and Dynamics</strong>&lt;br&gt; A. Al-Qasim, Saudi Aramco</td>
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<td>202070</td>
<td><strong>Advanced Pressure Monitoring Technique – New Horizons of Workover in Russia</strong>&lt;br&gt; A. Borisenko, K. Zotov, S. Parkhonyuk, S. Vereschagin, Schlumberger</td>
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<td>202071</td>
<td><strong>Foamed-Gel Systems for Killing Wells Operating Fractured Formations with Abnormally Low Formation Pressures and High Gas Factor</strong>&lt;br&gt; V. Shaidullin, S. Vakhrshev, N. Magzumov, S. Yanson, RN-BashNIPIneft; I. Akhmerov, Bashneft-Dobycha</td>
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