2020 required both standard solutions and unconventional approaches. This year our traditional workshop on well survey goes online. We will discuss case studies and companies experience and developments for the last two years in hydrodynamic and gas dynamic well testing, PLT, real-time well production monitoring and reservoir management based on survey results, and also geomechanics for horizontal wells. As usual, much attention will be given to technical discussions.

**Information for presenters**
Send your presentation abstract (350 – 400 words):

- Objectives and scope
- Methods, procedures, process
- Results, observations, conclusions
- Novelty, accomplishments

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**Session 1. Horizontal wells and complex completion wells testing (hydrodynamic and gas dynamic): technologies, equipment, interpretation:**

- Approaches (bottom hole assembly/equipment) for informative well testing in horizontal wells and wells with complex completion; Horizontal wellbore length through well logging vs production interval according to well logging and hydraulic well study. Virgin formation involvement
- Well completion efficiency evaluation
- Wellwork best practices, based on research findings
- Uncertainty in well testing: ways to decrease for horizontal wells, hydraulic fracturing, multistage hydraulic fracturing penetrating gas cap
- Gas dynamic survey: information value increase for horizontal wells
- Gas condensate asset - steady flow identification, condensate banking: forming and development in bottomhole zone
- Multistage hydraulic fracture input to well performance through well testing and hydraulic well studies indicator methods
- Selective tests equipment (survey sections assignment and isolation)
- Wells interference and geological models revision assessment

**Session 2. Horizontal wells Production Logging (PLT) for development: technologies, equipment, interpretation:**

- Production log test in horizontal wells: case studies (conveyance of tool, inflow stimulation methods and its integration)
- Y-tool systems and analogues development level for horizontal wells survey in Russia
- Current status of Complex tool production for PLT in Russia
- Spectral noise logging for horizontal wells
- New in horizontal wells interpretation

**Session 3. Real-time horizontal wells production monitoring: technologies and case studies:**

- Wells with intelligent completion: monitoring implementation and set up
- Fiber optics and other distributed sensors (pressure, temperature and inflow indicators) for horizontal wells monitoring and well testing: case studies
- Marker diagnostics in wells with multistage hydraulic fracturing vs PLT
- Wellwork recommendations based on well survey

**Session 4. Reservoir management based on horizontal wells monitoring and modeling**

Number of drilling horizontal wells and wells of complex design is increasing constantly due to reservoir development complexity. At the first hand these wells are used for low permeable reservoirs and under-gas-cap zone development. This is why we are going to stress the following areas at the session:

- Modeling of oil rim development with horizontal wells
- Modeling of efficiency improvement in low permeable field development through complex design wells
- Approaches to complex design wells modeling (horizontal wells with multistage hydraulic fracturing and multilateral wells)
- Reservoir model improvement based on horizontal wells survey and monitoring: case studies
- Geomechanical modeling for complex design well drilling
- Integrated hydrodynamic and geotechnical field models

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<thead>
<tr>
<th>Description</th>
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Please contact Ulyana Dmitrieva for registration at udmitrieva@spe.org, phone +7(495)268-04-54.

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