SPE Subsea Well Intervention Symposium

13–15 August 2019 | Galveston Island Convention Center
Galveston, Texas, USA

go.spe.org/SSI

Symposium Program

(photo courtesy of LLOG Exploration)
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We are pleased to welcome you to the SPE Subsea Well Intervention Symposium.

The symposium is the premier opportunity to interact with operators, service partners, regulators, and industry experts from across the globe who are focused on subsea well operations.

Maturing from a niche sector of the E&P portfolio, subsea well intervention capabilities for operators are being viewed with increasing value as an integral part of asset and portfolio management. Emerging from the recent downturn, there is an increasing demand for readily accessible technology and operational capability to build a proven legacy of successful, value-adding operations.

Under the theme, Collaborating to Drive Efficiency, we look forward to two days of in-depth discussion and learning from new technology and techniques to enhance well productivity; the latest knowledge from rig-less intervention and high-pressure operations; case studies on plug and abandonment/decommissioning strategies; and the latest regulatory trends for subsea well operations in the US, Brazil, and the North Sea.

On behalf of the program committee, thank you for attending, and enjoy the symposium!

Sincerely,

Alex Lawler
Chairperson
LLOG Exploration

Colin Johnston
Chairperson
SeaNation, LLC

About the Society of Petroleum Engineers

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 156,000 members in 154 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.
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David Carr, Helix
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Mike Hess, Shell
Matt Lewis, TechnipFMC

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Jack Sanford, Fieldwood
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Ryan Schmidt, TechnipFMC
Brian Skeels, TechnipFMC
Raymond Stawaisz, Chevron Corporation
Dan Vela, Oceaneering
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Matt Weinstock, Shell
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Seahorse Energy
Thursday AM Coffee Break Sponsor
# Schedule of Events (as of 2 August 2019)

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<td>SPE Training Course: Installation and Workover Control Systems</td>
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<tr>
<td>1730–1900</td>
<td>Exhibition and Opening Welcome Reception</td>
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**Tuesday, 13 August**
- 0800–0900: Continental Breakfast
- 0800–1800: Exhibition
- 0900–1000: Coffee Break | Knowledge Sharing ePoster I
- 1000–1030: Networking Luncheon
- 1200–1300: Networking Reception

**Wednesday, 14 August**
- 0800–0900: Continental Breakfast
- 0900–1000: Coffee Break | Knowledge Sharing ePoster I
- 1000–1030: Networking Luncheon
- 1200–1300: Networking Reception

**Thursday, 15 August**
- 0800–0900: Continental Breakfast
- 0900–1000: Coffee Break
- 1000–1030: Networking Luncheon
- 1300–1430
- 1430–1445
- 1445–1615
# Schedule of Events (as of 2 August 2019)

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<tr>
<td>Keynote Speaker: Joe Leimkuhler, Beacon Offshore Energy</td>
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<td>1000–1030</td>
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<td>Session 01: Stimulations</td>
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<td>1200–1300</td>
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<td>Session 02: HPHT Intervention</td>
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<td>Session 03: Surveillance and Completion Repairs</td>
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<td>1630–1800</td>
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<tr>
<td>Keynote Speaker: Odd Strømsnes, TechnipFMC, Island Offshore Subsea (TIOS)</td>
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<td>0900–1000</td>
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<td>1000–1030</td>
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<tr>
<td>Panel Session: West Africa: The New Frontier for Subsea Well Intervention</td>
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<tr>
<td>Session 04: Project Campaigns</td>
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<td>Coffee Break 1430–1445</td>
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<td>1445–1615</td>
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General Information

Registration and Badge Pick-up
Registration is located inside Exhibit Hall B.
Tuesday, 13 August .................... 0800–1900
Wednesday, 14 August ............... 0700–1800
Thursday, 15 August ................... 0800–1330

Exhibition
Exhibition is located in Exhibit Hall B.
Tuesday, 13 August ..................... 1730–1900
Wednesday, 14 August ............... 0800–1800
Thursday, 15 August ................... 0800–1330

Breakfast
Complimentary continental breakfast is available in Exhibit Hall B.
Wednesday, 14 August ................ 0800–0900
Thursday, 15 August ................... 0800–0900

Coffee Breaks
Wednesday, 14 August
1000–1030 (Exhibit Hall B)
1430–1500 (Exhibit Hall B)
Thursday, 15 August
1000–1030 (Exhibit Hall B)
1430–1445 (Grand Ballroom A–B Foyer)

Receptions
Tuesday, 13 August
1730–1900 (Cash Bar)
Wednesday, 14 August
1630–1800 (Hosted by CETCO)
Receptions are located in Exhibit Hall B.

Networking Luncheons
Wednesday, 14 August
1200–1300 (Exhibit Hall B)
Thursday, 15 August
1200–1300 (Exhibit Hall B)

Complimentary Shuttles
Available from the San Luis Resort to the Galveston Island Convention Center, every 20 minutes on:
Tuesday, 13 August ..................... 1700–1930
Wednesday, 14 August ............... 0730–1830
Thursday, 15 August ................... 0730–1700
From the San Luis Resort, go to the ground level (G), by door located at the back of the hotel. Drop-off area at the Convention Center is the east-side entrance.

SPE Training Courses
In case you missed the pre-symposium training courses, SPE offers a multitude of learning opportunities in convenient locations around the world. Courses are held in conjunction with SPE conferences, workshops, local sections, and at SPE training centers in Calgary and Houston. Register for SPE Training Courses online at www.spe.org/go/learn or send an email to trainingcourses@spe.org.

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Pre-Symposium Training Course

Overview of IWOCS Control Systems for Intervention
Instructors: Mike Hess, Brian Skeels, Ray Stawaisz, and Dan Vela

Tuesday, 13 August | 1000–1600 | Galeon I–II

This course will provide participants with a background review of subsea production control systems and specific knowledge of Intervention Work-Over Control Systems (IWOCS) as they interact with subsea production systems. This is followed by an interactive class discussion of operations scenarios, illustrating IWOCS usage and some situational challenges encountered during subsea hardware installation and well interventions.

This course will award 0.5 CEUs (Continuing Education Units).

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**Keynote Speaker**

Joe Leimkuhler, Chief Operating Officer, Beacon Offshore Energy, is responsible for all company offshore engineering and operations. Prior to February 2019 he was the Vice President of Drilling for LLOG Exploration. At LLOG Joe was responsible for all Drilling and Completion Operations and Well Engineering, as well as external relations related to operations and engineering. Prior to joining LLOG in early 2012 he was the Offshore Well Delivery Manager for Shell International E&P Co, (SIEP) and Shell E&P–Americas, covering all Gulf of Mexico well operations.

Over the last 37 years he has worked offshore engineering and operations in a variety of capacities. His prior assignments with Shell included Subsea Development Manager for the Gulf of Mexico, and Deepwater Drilling Superintendent assignments on TLP, Drillship and Semi-Submersible well operations, and as an instructor at Shell’s Bellaire Research Center in Houston, where he taught Shell’s Drilling Engineering classes. Before working for Shell Joe worked for M-I Drilling Fluids in the Wyoming Overthrust belt and for ARCO in Drilling and Reservoir engineering in Bakersfield California.

**Knowledge Sharing ePoster I | Exhibit Hall B**

**Session Chairpersons:** Andrew A.W. Barry, Wild Well Control, Inc.; Shadi A Sarhan, Bureau of Safety & Environmental Enforcement

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<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
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</table>
| 1000   | Presentation only | Practical Solution for Rigless Water Shut Off (WSO) Without Using Through Tubing Bridge Plug in Offshore Gas Lift Well, GUPCO–EGYPT  
M.A. Abdulmajeed, Gulf of Suez Petroleum Co. |
01 Stimulations
Session Chairpersons: David Brown, Morrison Energy; Hakan Eser, Schlumberger Technology Corp.

As the capex pressure continuously challenges new offshore subsea investments, operators look for innovative ways to maximize their current subsea well assets. This session will demonstrate excellent examples of using hydraulic stimulations in a subsea environment in a fit for purpose efficient way other than conventional rig solutions.

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<tr>
<th>Time</th>
<th>Paper #</th>
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<tr>
<td>1030</td>
<td>Presentation only</td>
<td>Gunflint Stimulation—A New Light Riser Intervention System, and CT Stimulation Case History</td>
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<tr>
<td></td>
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<td>J. Sanford, J. Pecoraro, N. Sinyangwe, W. Hunt, B. Gabourie, L. Sanford, Fieldwood Energy LLC</td>
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<tr>
<td>1100</td>
<td>Presentation only</td>
<td>Horizontal Matrix injector stimulation in unconsolidated sand</td>
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<td>T.A. Ezeokafor, Shell Nigeria E&amp;P Co. Ltd.; A. Ekekefe, Shell Nigeria Exploration &amp; Production Co. Ltd</td>
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<tr>
<td>1130</td>
<td>Presentation only</td>
<td>Chevron Deepwater Gulf of Mexico Hydraulic Intervention Case Studies</td>
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<td>A. Oubre, Chevron</td>
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Alternate

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<td>Alternate</td>
<td>Practical Solution for Rigless Water Shut Off (WSO) Without Using Through Tubing Bridge Plug in Offshore Gas Lift Well, GUPCO—EGYPT</td>
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<td>M.A. Abdulmajeed, Gulf of Suez Petroleum Co.</td>
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</tbody>
</table>

02 HPHT Intervention
Session Chairpersons: Brian Skeels, TechnipFMC; Raymond Stawaisz, Chevron Corporation

HPHT continues to challenge and push the boundaries of practicing technology where the harsh wellbore environment taxes wellbore characteristics, equipment performance, and standard practices. This session captures ongoing work in HPHT intervention that will continue to unlock the frontiers of offshore E&P.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
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<tr>
<td>1300</td>
<td>197974</td>
<td>Raising The Bar of Productivity Improvement In An Abnormal and Distinctive Pressure And Temperature Environment: Niger Delta.</td>
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<tr>
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<td>O. Imbazi, O.O. Ugoh, E.O. Okoliomma, M.A. Osuagwu, Shell Company in Nigeria (SCiN); C.O. Enyioko, B.E. Ighavini, C. Uzodinma, Halliburton</td>
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<tr>
<td>1330</td>
<td>Presentation only</td>
<td>API 17G Design and Manufacture of Subsea Well Intervention Equipment 3rd Edition Update</td>
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<td>M.L. Byrd, Byrd Energy Services, LLC; G.S. Walz, Anadarko Petroleum Corp</td>
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<tr>
<td>1400</td>
<td>198920</td>
<td>Multi-Phase Solvent/Acid Deepwater Stimulation Treatment Proves To Be Successful</td>
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<td></td>
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<td>W. Huval, K. Berard, J. Steckler, Baker Hughes, a GE company; J. Sanford, Fieldwood Energy LLC</td>
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</table>
Knowledge Sharing ePoster II | Exhibit Hall B
Session Chairpersons: Andrew A.W. Barry, Wild Well Control, Inc.; Shadi A Sarhan, Bureau of Safety & Environmental Enforcement

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<tr>
<th>Time</th>
<th>Paper #</th>
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</table>
| 1430  | 197077   | Dissolvable Plug Solutions for Offshore Squeeze Cementing Overcoming Downhole Restriction in North Sea  
N. Jin, Vertechs Oil & Gas Technology Co., Ltd.; S. Xiao, Exploration and Development Research Institute, PetroChina Southwest Oil and Gasfield Company; S. Zhang, Vertechs Oil & Gas Technology Co., Ltd. |

Wednesday, 14 August | 1500–1630
Grand Ballroom A–B

03 Surveillance and Completion Repairs
Session Chairpersons: Daniel Vela, Oceaneering International, Inc.; Travis Webre, Chevron N America Upstream

As deepwater wells age, there will be an increase in the demand to perform interventions for completion diagnostics and repairs. This session will drive the discussion around cost effective diagnostic and remediation topics. The session aims to cover:
• Advantages of identifying future intervention strategies and contingencies during original completion design
• Optimization of multi-well intervention campaigns
• Adjusting required interventions given the existing well design and subsea infrastructure.

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<tr>
<th>Time</th>
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| 1500  | Presentation only | Reservoir Isolation Valve Experience in Subsea Wells  
C. Gerace, Shell |
| 1530  | Presentation only | First Use of Digital Slickline In Mad Dog Field Improves Operational Efficiency and Permits Real-Time Data-Driven Decision Making  
K. McClelland, BP; J.M. Lott, BP America Inc; K.L. Garner, BP; T. Gilbert, Halliburton; E. Abdel-Raouf, Halliburton Logging and Perforating; F.M. Heaney, Halliburton Canada Inc. |
| 1600  | 197076   | Inhibitor Evaluation For Spent Organic -HF Acid To Facilitate Acid Flowback Through Production Risers With Titanium Stress Joints  
S.L. Berry, D. Palm, M. Usie, Baker Hughes, a GE company; R. Schutz, TiCorr LLC; H.W. Walker, Arconic Energy Systems |
Thursday, 15 August | 0900–1000

Keynote Speaker

Odd Strømsnes has an extensive career with TechnipFMC; started out as Flexible Riser Engineer at Coflexip, working for various clients such as Norsk Hydro, Statoil and Saga. From 1997 he worked as a Project Manager for Statoil’s Åsgard Field Developments and for Exxon Mobil’s Ringhorne Tieback Systems.

From year 2000 he was promoted Operations Manager with responsibility for all Technip Norge’s projects. He then went on as a Sales & Business Development Manager from 2005.

For 3 years from 2007, Strømsnes left the oil and gas industry, and worked as Vice President Projects for REC Solar, where he was responsible for solar expansion projects in Singapore and Scandinavia with the REC Solar Division.

Strømsnes returned to Technip in 2010 to lead the Norwegian operations as Managing Director. In this position he was instrumental in the further development of Technip as a key player in the Norwegian Oil and Gas industry.

On February 2017 Odd was appointed VP for Offshore Integrated Services within the merged company TechnipFMC—leading to the acquisition of TIOS—a joint venture between TFMC and Island Offshore—taking a position as Managing Director responsible for the global vessel based intervention services as part of a key strategic business stream.
Panel Session: West Africa: The New Frontier for Subsea Well Intervention

The West African region represents one of the largest inventories of subsea wells in the world, and considering it covers an area equivalent to Gulf of Mexico, Caribbean and Brasil combined, it has been under represented when it comes to being the focus of subsea well operations. That situation is changing rapidly and building upon some of the early initiatives in the region. This includes the first long term contract, in Angola, for a dedicated well operations vessel, as well as some of the deepest riserless operations outside of the Gulf of Mexico.

The key issues surrounding further development in this region will be explored in the panel session based around:

- How to encourage key service assets into the region—vessels, systems and services
- Operator challenges with ageing assets, asset support and production efficiency
- Development of attractive commercial models that encourage participation and competition
- Collaboration issues and opportunities relating to vessels and systems availability

Panel session representatives will provide the depth of knowledge and analysis to present detailed assessment of the issues in this region and insight as to how to capitalize upon the potential.

Thursday, 15 August | 1030–1200

**Speakers**

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<tr>
<th>Mirick Cox</th>
<th>Neil Crawford</th>
<th>Chinyere Obi</th>
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<td>Carl Roemmele</td>
<td>Odd Strømsnes</td>
<td>Matthew Vick</td>
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<td>Baker Hughes, a GE company</td>
<td>TechnipFMC Island Offshore Subsea (TIOS)</td>
<td>BP Angola</td>
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<td><strong>Moderator</strong> David Carr</td>
<td><strong>Facilitator</strong> Shadi A Sarhan</td>
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<td>Helix RDS</td>
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Go to PollEV.com/speprogram, using a mobile or electronic device, to ask your questions during this session. There is no need to download the app.
Thursday, 15 August | 1300–1430

**04 Project Campaigns**
Session Chairpersons: **Matt Weinstock**, Shell Oil Co.; **Ryan Schmidt**, TechnipFMC

As the subsea well counts increase not only in the mature regions but also in emerging markets, our industry faces a challenge to manage large volume campaigns and new country entries to meet subsea intervention initiatives. Maximizing operational efficiency can be achieved through understanding unique mobilization challenges, leveraging new technology and taking a new approach to intervention methods and strategies. This session will focus on unique solutions successfully implemented strategies to address the unique challenges of working in regions where subsea intervention services are not fully established or managing large scale intervention campaigns in mature regions.

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<th>Time</th>
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</table>
| 1300  | Presentation only | **Subsea Intervention Campaign Sequencing: Considerations, Handover, Standard Design and Standard Practice—An Operator’s Perspective**  
C. Hosli, Shell Upstream Americas |
| 1330  | 197073  | **Asia’s First Rigless Subsea Stimulation Using Patented Well Access Technology and a Fully Integrated Service Model**  
M. Avery, R. Large, H. Azhar, K. Wong, Schlumberger; M. Yusoff, Murphy Sarawak Oil Co. Ltd |
| 1400  | Presentation only | **Integrated Riserless Light Well Intervention Campaign in West Africa**  
W. Forrest, TechnipFMC |

Thursday, 15 August | 1445–1615

**05 Technology and Innovation**
Session Chairpersons: **Matthew Lewis**, TechnipFMC; **Jose Duenas**, BP America Inc.

In order to keep up with the current and future challenges, deep water well interventions are growing in both innovation and complexity. The search for solutions to address these challenges is always continuous and creative. This session will cover new technologies and innovative advances successfully implemented to improve operational efficiency.

<table>
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<tr>
<th>Time</th>
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| 1445  | Presentation only | **Through Tubing SCSSV Insert Valve for Deepwater Applications**  
R. Chauvin, Chevron Drilling & Completions |
| 1515  | Presentation only | **In Well ESP Concepts for Subsea Wells**  
M. Blackman, Shell |
| 1545  | Presentation only | **Technology Innovation; Shpu Iwoc System Operational Experience**  
T. Lovland, Optime Subsea |
| Alternate | 197077  | **Dissolvable Plug Solutions for Offshore Squeeze Cementing Overcoming Downhole Restriction in North Sea**  
N. Jin, Vertechs Oil & Gas Technology Co., Ltd.; S. Xiao, Exploration and Development Research Institute, PetroChina Southwest Oil and Gasfield Company; S. Zhang, Vertechs Oil & Gas Technology Co., Ltd. |
Exhibit Floor Plan

Networking Luncheon

Hall B

Coffee Breaks

Registration

Exit

Exit

Networking Luncheon

Hall B

Coffee Breaks

Registration

Exit

Exit
Exhibitors (as of 2 August 2019)

AMT Water Solutions ....................... 103
Gilmore Valve Company ..................... 108
1231 Lumpkin Rd.
Houston, TX 77043 USA

Gulfstream Services, Inc. ................. 202
732 Point St.
Houma, LA 70360 USA
gulfstreamservices.com/

Helix Energy Solutions Group .......... 201
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www.helixesg.com

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inVision Offshore ....................... 109

Oceaneering International, Inc. ........ 307
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