Western Gas

Partnering to Accelerate Development of Western Australia’s Discovered Gas Resources
**Equus Gas Project**

Development-ready, 100% privately-owned gas and condensate resource

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**100% Interest in Equus Gas Project**
- Strategically located in the Carnarvon Basin, Australia’s premier petroleum producing basin

**Fully Appraised Resource**
- Independently certified resource – 2 Tcf of gas and 42 MMbbls condensate (2C)

**Development Ready**
- US$1.5B spent on exploration, appraisal and development studies

**Integrated Upstream to LNG Development**
- Development plan for Upstream to Nearshore 2 MTPA LNG facility
- Ability to meet LNG market short fall from mid 2020’s

**Upside Potential**
- 9 Tcf risked exploration portfolio
- High quality, low-risk undrilled prospects

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Accelerating Development of Western Australia’s Discovered Gas Resources

March 2019
Equus Gas Project
Independently certified 2 Tcf gas and 42 MMbbl condensate

- US$1.5 billion spent since 2007 on exploration and appraisal:
  - 17 explorations wells for 15 discoveries
  - 4 appraisal wells
  - 5 dynamic well tests
  - 9,100 km² 3D seismic
  - FDP and FEED completed
  - Environmental approvals advanced

- One Retention Lease and four Exploration Permits = 4,760 km²

- Independently certified resource of 2 Tcf (2C) Gaffney Cline & Associates 2017:

<table>
<thead>
<tr>
<th>Gross Contingent Resource</th>
<th>1C</th>
<th>2C</th>
<th>3C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas (Bcf)</td>
<td>1,343</td>
<td>2,028</td>
<td>3,223</td>
</tr>
<tr>
<td>Condensate (MMBbl)</td>
<td>26.6</td>
<td>41.5</td>
<td>68.4</td>
</tr>
</tbody>
</table>
## Resetting Field Development Plan
**Matching development plan to gas resources**

<table>
<thead>
<tr>
<th>Business Drivers</th>
<th>Hess</th>
<th>Western Gas</th>
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</thead>
<tbody>
<tr>
<td><strong>Field Development Plan</strong></td>
<td>Large-scale development</td>
<td>Speed to market First Production</td>
</tr>
<tr>
<td>Tie back to North Rankin Toll via NWS LNG</td>
<td>Pipeline to nearshore LNG facility Access to domgas market via DBNGP</td>
<td></td>
</tr>
<tr>
<td><strong>Resource Required</strong></td>
<td>3 Tcf</td>
<td>2 Tcf</td>
</tr>
<tr>
<td>Flow rate</td>
<td>395 MMscfd</td>
<td>250 MMscfd</td>
</tr>
<tr>
<td>Wells at RFSU</td>
<td>Six</td>
<td>Three</td>
</tr>
<tr>
<td>285 km to North Rankin, 22”</td>
<td>220 km, 16”</td>
<td></td>
</tr>
<tr>
<td>Pipeline phase</td>
<td>Dual (Condensate / Gas)</td>
<td>Single (Dry Gas)</td>
</tr>
<tr>
<td>Floating Production Unit</td>
<td>Semi-submersible, 19,000t</td>
<td>FPSO, 9,500t</td>
</tr>
<tr>
<td>FPU Processing</td>
<td>Dehydration, compression, LPG stripping and offloading, condensate and water handling</td>
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</tr>
</tbody>
</table>

**Accelerating Development of Western Australia’s Discovered Gas Resources**

*March 2019*
Integrated Upstream to Nearshore LNG Development
100% control of project from reservoir to international LNG market

Development Plan
- 3 wells at RFSU
- 250 MMscfd and 7,000 BOPD

Subsea Infrastructure
- Subsea wellheads, flow lines, manifold and production risers

Offshore Processing Facility
- FPSO vessel with condensate stripping, gas dehydration and compression

Dry Gas Export Pipeline
- 200 km offshore pipeline with connection to domgas market

Nearshore LNG
- Located in protected nearshore waters
- 2 MTPA LNG capacity
- Integrated liquefaction, storage and loading facilities

100% control of project enables speed to First Gas from 2024

Accelerating Development of Western Australia’s Discovered Gas Resources  March 2019
McDermott-Baker Hughes GE Exclusive Development Partner & EPCIC Contractor

• McDermott-BHGE provides a world-class Development Partner with the experience, skills, products and services to help drive Equus from FEED to production

• Development agreement is for exclusive provision of project development services from pre-FEED and FEED studies through to engineering, procurement, construction, installation and commissioning (EPCIC)

• Integrated “Design-to-Install” contracting approach is an Australian-first for a project of the size and scale of Equus and will help deliver an efficient development plan, enhance project economics and reduce time to first gas

• Builds on FEED studies and resource certification for previous titleholder by io-consultants and Gaffney Cline & Associates
Value Creation from Integrated Project Team
Partnering with McDermott-BHGE drives Equus from FEED to production

Mahesh Swaminathan      Will Barker      Maria Sferruzza

MCDERMOTT              WESTERN GAS          BAKER HUGHES

Accelerating Development of Western Australia’s Discovered Gas Resources
March 2019
Integrated Project Development
Efficient project delivery will deliver significant economic and social benefits

“A full field development and execution solution will help deliver an efficient development plan, enhance project economics and reduce time to first gas.”
Western Gas

“By more closely connecting each stage of the project, we aim to drive significant efficiencies and cost savings for Western Gas through the full life of the field.”
McDermott

“We are increasingly seeing customers move away from the traditional vendor-supplier mindset and engage in a collaborative approach to project design in order to be more cost effective.”
Baker Hughes, a GE Company

New independent gas supply
Development Partnership to accelerate first gas
20 years of production
Local content, jobs, training and business contracts
Technology knowledge transfer through nearshore LNG
Opportunity for third-party gas processing

Accelerating Development of Western Australia’s Discovered Gas Resources
March 2019