

For more information, contact TGS at
T: +61 8 9480 0000 or E: info@tgs.com



Search

home contact editorial info advertising

pnronline
petroleum news review

published by
resolutions
publishing & media

Weekly update? [Subscribe here](#)

industry news young professionals view from the top technology products companies features



Decie Autin, ExxonMobil PNG LNG Project Executive.

PNG LNG: The product of collaboration and creative problem solving (Page 1 of 3)

Martin Kovacs, 10 Apr 2014

In the face of formidable challenges, and within a limited window of opportunity, collaboration, sound engineering and creative problem solving have been the driving forces behind the development of the PNG LNG project, which is on track for first delivery of gas mid-year, Decie Autin, ExxonMobil PNG LNG Project Executive, told the APPEA2014 Conference.

Indeed, Autin told delegates PNG LNG is Papua New Guinea's Snowy Mountains scheme, demonstrating how "world-class engineering and project execution can really lift a developing economy".

"The PNG LNG project truly is an engineering wonder, not so much because of what it is, but rather where it is and how we have built it," she commented.

Autin noted a number of unique circumstances characterise the PNG LNG project, and presented project proponents with a combination of logistical, political, cultural, environmental and financial challenges.

"We had to convince gas customers, investors and lenders that we could install hundreds of thousands of tonnes of steel pipe and modern industrial plant into one of the most remote, rugged, culturally and politically complex and beautiful places on earth—on time—and make it operate efficiently for decades, and do so in an environmentally responsible and culturally sensitive manner," she told delegates.

"Normally with a major project like this, we would have our customers signed up and our EPC (engineering procurement and construction) contracts in place before we approached lenders. But to meet our timing objectives, we had to run our engineering, our marketing, and our financing in parallel.

"Our gas marketers broke the land speed record for finalising sales agreements. Our finance team raised, what was at that time, the largest project finance deal in history in the midst of the global financial crisis."

While the facilities being employed by PNG LNG consist of "proven, fit-for-purpose technology", the logistics of getting these facilities into place on time, amid record wet weather and land access issues, presented a variety of challenges, Autin told delegates.

"We started with a very active early works program prior to the final investment decision," she stated.

"The objective was to do what we could to reduce the project's critical path schedule. We wanted to avoid having our drilling and construction contractors competing for the same limited existing logistics infrastructure in the field."

Popular Articles

Full Azimuth Sampling With A Single Towed-Streamer Vessel

The Mt Kitty Prospect: Regional Thrust Belts In The Southern Amadeus Basin Host Numerous...

Dolphin Geophysical's new Asia Pacific HQ set for growth

Pre-drill Stresses from Seismic for Frac designs

Kjetil Fageric, Managing Director, Roxar Software Solutions, Emerson Process Management...

The Simple Truth

Dr Marita Bradshaw retires, leaving a great legacy

Ophir Energy and WHL Energy commences seismic survey in Seychelles

Dolphin Geophysical set to undertake Junon 3D seismic survey

Phil Cook heads DownUnder

Other Stories

Data Management Symposium, 2014

The 2014 Professional Petroleum Data Management (PPDM) Association's Data Management Symposium com...
MORE

Tough year ahead for CGG, improvement anticipated for second half

In what has not been a good year for CGG, the company has just announced its 2014-2016 Transformatio...

PPDM™
AUGUST 6th & 7th 2014
Perth Data Management Symposium
[learn more](#)

PREDICT THE UNCONVENTIONAL
KNOW BEFORE YOU GO
VISIT OUR WEBSITE
www.ikonscience.com

Want to learn more about RMS 2013?
Click to view a webinar on Model Driven Interpretation
roxar

Three logistics paths to the remote project areas were opened: an existing 800 km highway from Lae; a route from the south through the Pai Inlet in the Gulf of Papua; combined with the establishment of an air bridge to the Hides gas conditioning plant (HGCP) via construction of an airfield at Komo, allowing the use of Antonov cargo planes.

1 2 3

Comments Community

Login

Sort by Best

Share Favorite

Start the discussion...

Be the first to comment.

Subscribe

Add Disqus to your site

MORE

Geokinetics secures CGG's North America Seismic Land Contract Acquisition Business

Geokinetics Inc has announced that it has signed a binding agreement with CGG for the purchase of CG...

MORE

Roc recommends Fosun offer

Roc Oil has entered into a bid implementation agreement under which it is proposed that Chinese c...

MORE

Ichthys dredging completed in Darwin Harbour

The Ichthys project's dredging program in Darwin Harbour has been completed, with the dredging an...

MORE

Home

Industry News

Products

Privacy Policy

Contact

Young Professionals

Companies

Editorial Information

View From The Top

Features

Advertising

Technology



Search

PNRonline is produced by Australian independent resource industry publisher, Resolutions Publishing & Media. PNRonline is not connected or affiliated to individual associations or societies.

© 2014 RESOLUTIONS PUBLISHING & MEDIA

Discover The Story Behind...

The Offshore Philippines 2D
for PECR5 bid round



searcherseismic.com



Search



home contact editorial info advertising

pnr online

petroleum news review

published by
resolutions
publishing & media

Weekly update? [Subscribe here](#)

industry news young professionals view from the top technology products companies features



Decie Autin, ExxonMobil PNG LNG Project Executive.

PREDICT THE UNCONVENTIONAL
KNOW BEFORE YOU GO

VISIT OUR WEBSITE
www.ikonscience.com

ikon
Science

PNG LNG: The product of collaboration and creative problem solving (Page 2 of 3)

Martin Kovacs, 10 Apr 2014

"We also brought in some equipment using L-100 aircraft into the Tari airport," Autin commented. "Despite the need to overcome a range of issues and uncertainties, this combination of access points proved successful in meeting our logistics needs."

The LNG plant consists of two trains, with train 1 handed over to the joint venture earlier this year, and train 2 currently being handed over. The north and south LNG tanks, as well as the 2.4 km long jetty, have been completed.

"The 407 km offshore pipeline was completed by Saipem at the end of 2012, and was laid using two barges, one for the shallow waters and another (Semac) which operated in the deeper waters (around 100 m) between the Omati River delta and the LNG plant," Autin commented.

Meanwhile, the onshore pipeline network, consisting of three pipelines, presented a number of challenges.

"We don't have just one pipeline, we've got a 292 km, 32 to 34-inch gas pipeline from the Hides gas conditioning plant to the Omati Landfall, where it meets the offshore pipeline; a 109 km, 8-inch condensate line from the Hides gas conditioning plant to Kutubu, and; an 18 km, 22-inch spinline connecting the well pads to the HGCP," Autin stated.

"The main gas pipeline from Hides to the coast descends over 2,700 m from the mountains, along ridges and across major rivers, in remote areas with few pre-existing roads.

"Remember we were traversing terrain where there was no path from the coast to the highlands. We sent multi-disciplinary specialised teams into the area to map and survey the terrain and identify potential anomalies."

The main gas pipeline construction is now complete, with restoration work along the pipeline right of way to allow grasses, trees and other flora in the area to return being finalised, while the HGCP is in the final stages of completion, with gas flowing into the plant for final commissioning of the first of three compression trains.

"Drilling is ongoing," Autin stated. "The PNG wells have to produce reliably at very high rates for over 30 years.

"These development wells are the first 'big-bore' wells to be drilled in PNG with 7-inch tubing strings to support the high flow rates needed to fill the LNG plant. The initial drilling program involves 11 wells.

"Major challenges in drilling these wells includes the presence of porous limestone near the surface, elevated pressures encountered in deeper reservoirs, pressure regressions and challenging wellbore stability.

Popular Articles

Full Azimuth Sampling With A Single Towed-Streamer Vessel

The Mt Kitty Prospect: Regional Thrust Belts In The Southern Amadeus Basin Host Numerous...

Dolphin Geophysical's new Asia Pacific HQ set for growth

Pre-drill Stresses from Seismic for Frac designs

Kjetil Fagervic, Managing Director, Roxar Software Solutions, Emerson Process Management...

The Simple Truth

Dr Marita Bradshaw retires, leaving a great legacy

Ophir Energy and WHL Energy commences seismic survey in Seychelles

Dolphin Geophysical set to undertake Junon 3D seismic survey

Phil Cook heads DownUnder

Other Stories

Data Management Symposium, 2014

The 2014 Professional Petroleum Data Management (PPDM) Association's Data Management Symposium com...

MORE

Tough year ahead for CGG, improvement anticipated for second half

In what has not been a good year for CGG, the company has just announced its 2014-2016 Transformatio...

1 2 3

Comments Community

Login

Sort by Best

Share Favorite

Start the discussion...

Be the first to comment.

Subscribe

Add Disqus to your site

MORE

Geokinetics secures CGG's North America Seismic Land Contract Acquisition Business

Geokinetics Inc has announced that it has signed a binding agreement with CGG for the purchase of CG...

MORE

Roc recommends Fosun offer

Roc Oil has entered into a bid implementation agreement under which it is proposed that Chinese c...

MORE

Ichthys dredging completed in Darwin Harbour

The Ichthys project's dredging program in Darwin Harbour has been completed, with the dredging an...

MORE

Home

Industry News

Products

Privacy Policy

Contact

Young Professionals

Companies

Editorial Information

View From The Top

Features

Advertising

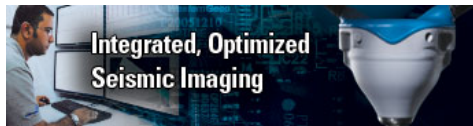
Technology



Search

PNRonline is produced by Australian independent resource industry publisher, Resolutions Publishing & Media. PNRonline is not connected or affiliated to individual associations or societies.

© 2014 RESOLUTIONS PUBLISHING & MEDIA



UniQ
LAND SEISMIC SYSTEM



Discover The Story Behind...
The Offshore Philippines 2D
 for PECR5 bid round



searcherseismic.com

f t in v RSS

Search

home contact editorial info advertising

pnr online

petroleum news review

published by **resolutions** publishing & media

Weekly update? [Subscribe here](#)

- industry news
- young professionals
- view from the top
- technology
- products
- companies
- features



Decie Autin, ExxonMobil PNG LNG Project Executive.

PNG LNG: The product of collaboration and creative problem solving (Page 3 of 3)

Martin Kovacs, 10 Apr 2014

"These conditions require more capable drilling rigs and more robust drilling assemblies than used previously in PNG. We are utilising two custom-built drilling rigs. The rigs were built abroad and shipped to PNG, then subsequently road transported in over 220 loads per rig via the Highland highway. Six gas wells at Hides are complete."

Autin noted the building of an airport was critical to the construction of the HGCP, with the highway "not a feasible option for transporting the large and sensitive equipment required".

"It involved moving a lot of dirt and volcanic soils, while bringing in over 400,000 cubic meters of gravel and aggregate," she commented,

"In order to prevent the Antonov aircraft from slipping in heavy rain, grooves had to be saw-cut into the runway. We needed 3,900 km of grooving along the complete runway surface. This is the same as cutting a groove from Perth to Sydney.

"We completed 88 Antonov aircraft deliveries of heavy and sensitive equipment flown into Komo airfield over 100 days. We are now bringing charter flights into Komo to move our workforce in and out of the highlands."

Autin paid tribute to the role the PNG government has played in the project.

"As a partner in the project, they have really stepped up and provided help with visas, infrastructure development, health monitoring, permits and all the other necessary elements of completing a project of this scale—this is a big ask of any government," she commented.

"Papua New Guinea is a resource-rich nation and uniquely positioned to deliver natural gas to meet the growing demand of Asian markets over the long term. As Asia grows, revenues derived from the PNG LNG project will provide a long-term financial basis from which PNG's development can continue.

"The PNG LNG project demonstrates to the world—particularly the investment world—exactly what Papua New Guinea is capable of. Our joint success can usher in a new era of development for this diverse and strategically located nation."

1 2 **3**



DEEPWATER SUCCESS. PLAN ON IT.
 KNOW BEFORE YOU GO

VISIT OUR WEBSITE
www.ikonscience.com



Want to learn more about RMS 2013?

Click to view a webinar on **Model Driven Interpretation**



Popular Articles

Full Azimuth Sampling With A Single Towed-Streamer Vessel

The Mt Kitty Prospect: Regional Thrust Belts In The Southern Amadeus Basin Host Numerous...

Dolphin Geophysical's new Asia Pacific HQ set for growth

Pre-drill Stresses from Seismic for Frac designs

Kjetil Fageric, Managing Director, Roxar Software Solutions, Emerson Process Management...

The Simple Truth

Dr Marita Bradshaw retires, leaving a great legacy

Ophir Energy and WHL Energy commences seismic survey in Seychelles

Dolphin Geophysical set to undertake Junon 3D seismic survey

Phil Cook heads DownUnder

Other Stories

Data Management Symposium, 2014

The 2014 Professional Petroleum Data Management (PPDM) Association's Data Management Symposium com...

MORE

Tough year ahead for CGG, improvement anticipated for second half

In what has not been a good year for CGG, the company has just announced its 2014-2016 Transformatio...

Comments Community

Login

Sort by Best

Share Favorite

Start the discussion...

Be the first to comment.

Subscribe

Add Disqus to your site

MORE

Geokinetics secures CGG's North America Seismic Land Contract Acquisition Business

Geokinetics Inc has announced that it has signed a binding agreement with CGG for the purchase of CG...

MORE

Roc recommends Fosun offer

Roc Oil has entered into a bid implementation agreement under which it is proposed that Chinese c...

MORE

Ichthys dredging completed in Darwin Harbour

The Ichthys project's dredging program in Darwin Harbour has been completed, with the dredging an...

MORE

Home

Industry News

Products

Privacy Policy

Contact

Young Professionals

Companies

Editorial Information

View From The Top

Features

Advertising

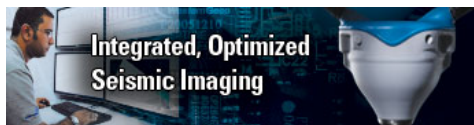
Technology



Search

PNRonline is produced by Australian independent resource industry publisher, Resolutions Publishing & Media. PNRonline is not connected or affiliated to individual associations or societies.

© 2014 RESOLUTIONS PUBLISHING & MEDIA



UniQ
LAND SEISMIC SYSTEM

