• Development Considerations
• Rowan Midland
• Mooring Design
• Subsea/Pipeline Installation & Commissioning
• Lesson’s Learned
Gomez Development
Key Features

- Gross Proved Reserves: ~100 Bcfe
- Gross Probable Reserves: ~50 Bcfe
- ATP Working Interest: 100%
- Well Test: 134 MMcfe/d
- Planned Wells: 5+
Gomez Development
Development Concept

- Leased Semi-Submersible Drilling Rig
- Production Modules on Aft Pipe Rack
- Pre-installed Mooring
- Produce Two Wells Initially
- Thru-tubing Well Intervention
ATP OIL & GAS CORPORATION

Gomez Development
• Earl & Wright Design
• Launched 1976
• Excellent Remaining Fatigue Life
• Adequate Variable Deck Load
• Limited Drilling Marketability
Gomez Development
Rowan Midland in Drydock
Gomez Development
Rowan Midland in Drydock
Gomez Development
Rowan Midland at Sabine Pass
Gomez Development
Rowan Midland Tow Out
Gomez Development
Rowan Midland on Tow
• 12 Point Mooring for 100 Yr Storm
• Polyester to Conserve VDL
• Utilize Existing 8 Wire Windlasses on Midland
• Install 4 New Chain Jacks & Fairleads
• Load Sharing Between Lines
• 1st Permanent use of SEPLA anchors
• Use of 6 Strand Wire Rope
• 3rd Permanent Installation to use Polyester
Availability of US Flag Vessels

Use of Foreign Flag Vessels

Jones Act Restrictions

Vessel to Vessel Transfer Offshore

SEPLA Follower & Embedment

Load Test on SEPLA
Gomez Development
Mooring Inspection & Maintenance

• Special IMRR for Polyester & SEPLA
• Installation of Polyester Test Specimens
• Scheduled Replacement for Wire Rope
• Scheduled ROV Inspection
Gomez Development
Normand Cutter
Gomez Development
SEPLA Inserted into Follower
Gomez Development
BallGrab Connector
Gomez Development
Loading SEPLA into Follower
Gomez Development
Flooded Polyester Hawsers
Gomez Development
Polyester Vessel to Vessel Transfer
Gomez Development
Spooling Polyester in Maersk Assister
• 10” Gas Export Line
• 8” Oil Export Line
• Weather Downtime During Commissioning
• Pigging Problems
• Dewatering Problems
Gomez Development
Hydraulic Umbilical
Gomez Development
New Pigs – 10” Gas line
Gomez Development
Remnants - Pigging 10” Gas line
Gomez Development
Remnants of Tracker Pig
Gomez Development
Pressure Trace – Pigging 8” Oil line

ATP Oil & Gas MC 711

Surface Pressure (psi)

Time (min)
Gomez Development
Pressure Trace – Pigging 8” Oil line

ATP Oil & Gas MC 711

Surface Pressure (psi)

Time (min)
Gomez Development
Rowan Midland on Location
• Avoid Subsea Installation in Winter
• Dewater Pipelines from Shallow to Deep
• Avoid Scraper Pigs with Reeled Pipe
• High Water Volume Moves Stuck Pigs
• Older Rigs can be economically converted to FPF
Gomez Development Lessons Learned

- Successful Fast Track Deepwater Project
- Sanction to Production in 16 months
- Ability to Expand to 6 Wells
- Currently Working on Increasing Capacity
- Current Deepwater Development favors Dry Trees