Troika Bottom Tow Pipeline

Troika Pipelines

Bullwinkle Platform

Steel Catenary Risers

Mid-point Tie-in

Troika Subsea Facilities

1350 ft

2850 ft

14 miles
Troika Bottom Tow Pipeline

Flowline

- Buoyancy Pipe
- 24" Casing
- Mid-Line Tie-in Sled
- 18" Riser Casing
- Mid-Line Tie-in Sled
- 24" Casing
- Template Sled

ADT-PPT-487
Troika Bottom Tow Pipeline

**Single Pipeline Section**

- **10.75" O.D. x 0.866" W.T. X70** Pipeline
- **3" Thick Foam Insulation**
- **Abrasion Resistant Coating 110 mils Thick**
- **24" O.D. x 0.375 W.T. X70 Casing Pipe**
- **Annulus: Pressurized Nitrogen**
- **Spacer**

ADT-PPT-487
Troika Bottom Tow Pipeline

Troika Pipelines

Tow Route

Matagorda Peninsula Fabrication Site

Troika Subsea Development

Green Canyon

Houston

New Orleans
Troika Bottom Tow Pipeline

Moving Pipeline into Surf Zone

Side Booms Moving Pipeline into Surf Zone

Pipeline Dewatered and Launched

Filled with Pressurised Nitrogen

Pipeline Filled with Water and moved into Surf

Empty on Beach

ADT-PPT-487
BundleTow

Bullwinkle Platform

Troika

BundleTow-in Route

1600
2100
2900
3100
Troika Riser Installation

Bullwinkle Platform

2,318,000
10,124,000
V30 V31 V32 V33 V34 V35 V36

210k
169k
137k
35k
50k
94k
20k

ADT-PPT-487
Troika Bottom Tow Pipeline

Characteristics of Bottom Tow

• Onshore fabrication
• Installation of multiple lines in single operation
• Buoyancy pipe
• Pressurised annulus
• Bottom tow into field using tugs
• Alternative connection methods