



STARK

**2013 Pipeline Knowledge Retention
Conference
November 6, 2013
Houston, Texas**



Right Pig for the Job

- **Cleaning**
- **Geometry**
- **Corrosion**
- **Cracks**
 - **SCC**
 - **Girth Welds**
 - **Seams**

Operating Conditions

- **High Speeds – Speed Control**
- **Low Speeds – Wheel Slippage, Magnetic saturation**
- **High Pressure – Pressure Ingress**
- **Low Pressure – Tool switches, speed excursions**
- **Liquid – Slack line conditions**
- **Multiphase flow**

Inspection Specification

- **NACE SPO 102-2010 (formerly RPO 102),
in-line inspection**
- **API 1163 – Pig specifications**
- **ILIPQ – Personnel Qualifications**

Pig Tracking

- **Above Ground Markers**
 - Passive
 - Radio controlled
 - Plates
- **Verify pig location and speed**
- **Ties girth welds/features to above ground locations**
- **GPS tie in points**

Cleaning Pigs



Handling Large Diameter Cleaning Pigs



Small Smart Pig Handling





Transportation • Pipeline Survey • Crane Service • Pig Launching • Field Maintenance



SOLID INDUSTRY LEADER

















The image features the Stark logo, a stylized 'S' shape, centered on a dark, cracked stone or concrete background. The 'S' is split vertically: the left half is a light grey color, and the right half is a vibrant blue. The word 'STARK' is written in a bold, white, sans-serif font across the center of the 'S'.

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