# WELCOME









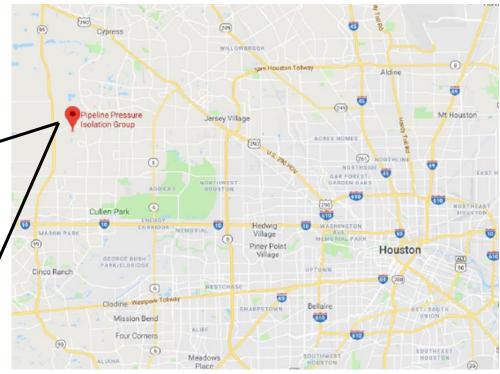
### Agenda

- PPIG Who are we ?
- The **IsoPig**® What is it?
- How does it work ?
- What do we do ?





### **PPIG Location**



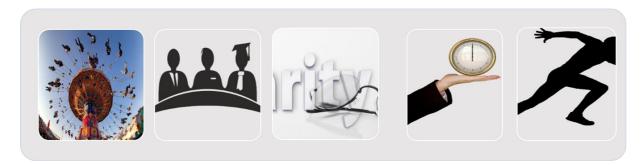
21233 West FM 529 Cypress, TX 77433-5139



### **About PPIG**



- Founded in 2015, 3 year old company
- 145 years combined pipeline experience
- Our Core Values (<u>FACTS</u>):



**FUN** 

**ACADEMIA** 

**CLARITY** 

**TIME** 

**S**PEED





Fully compliant member of ISNetworld PPIG, LLC (# 400-237318)



**ADV Integrity Certified** 





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### What Are Piggable Isolation Plugs?



- Used in Offshore and Onshore pipelines
- Bi-Directionally Piggable
- Stopped with Flow at Location
- "Set" Grips and Packer form a seal and keep tool in position
- Pressure Barrier Line remains packed and under pressure
- "Unset" and Pigged out of the line





# **IsoPig** ® Design Considerations

- Thin-walled pipelines
- Develop pressure to plug/seal pipeline safety barrier
- Double-block seal
- Operate remotely
- Negotiate bends, highly piggable

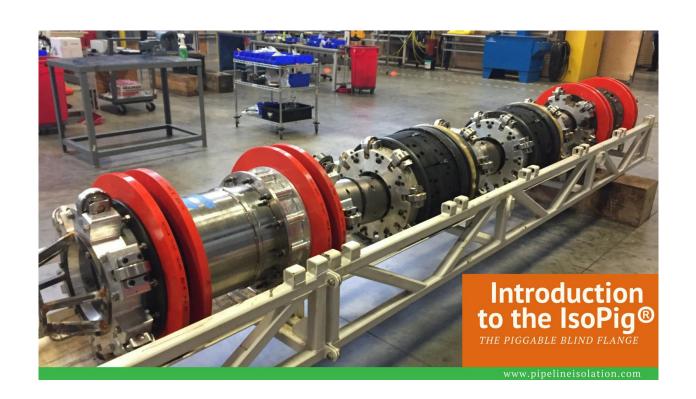




### **About IsoPig**®



- Advanced offshore isolation technology that leaves pipe in superior condition
- True double-block seal, bubble tight used for liquids & gas
- Low-stress; designed to isolate in thin-walled pipe
- Safe, wireless communications
- Highly piggable tool
- Environmentally friendly solution





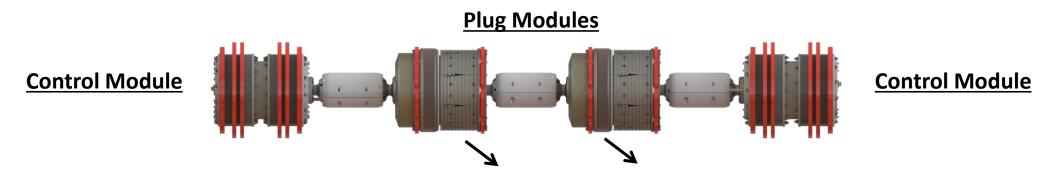


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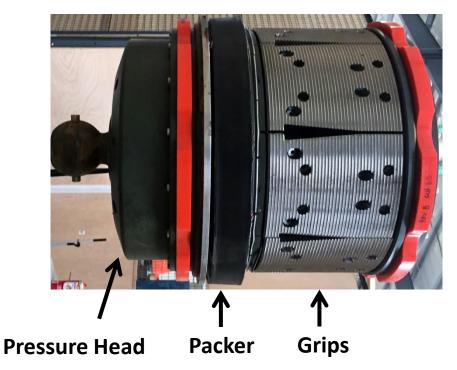
# How Does IsoPig® Grip and Seal?





### **Activation:**

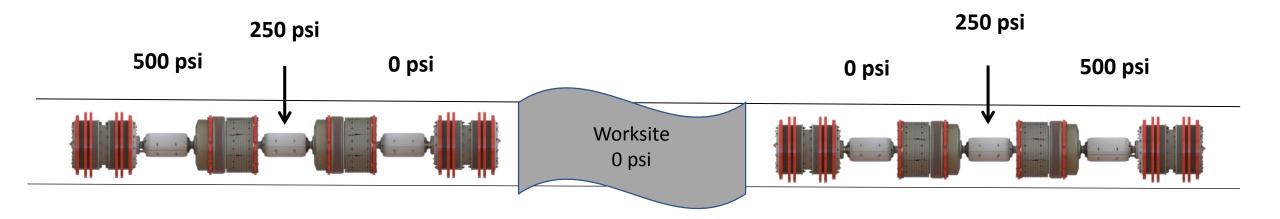
- Grips Extend and Engages Pipe
- Packer Extends and Seals Pipe
- More Pressure, More Activation

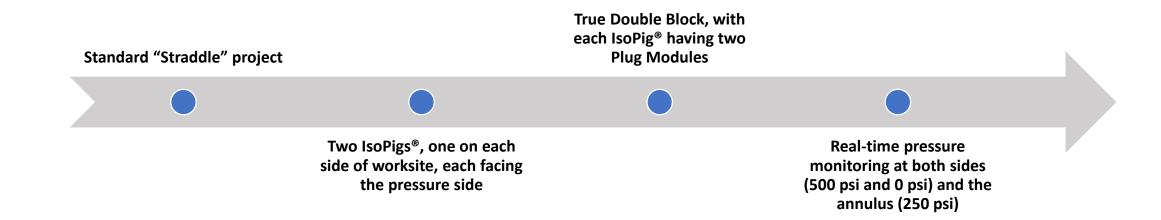




# **IsoPig** Block and Monitor











- PPIG Who are we ?
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# **Iso**Pig<sup>®</sup> Applications

- Midline Repairs
- Valve Repairs/Replacements
- Launcher/Receiver Repairs (Doors, Valves, etc.)
- Laterals/Proper Barred T's
- Excavation Safety
- Hydrotesting







### Midline Repairs or Valve Repairs



Or



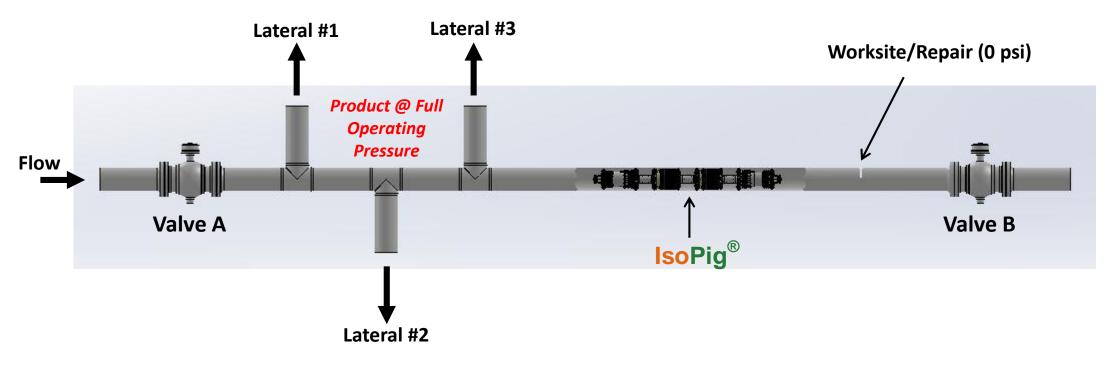
- **Avoids Excessive Noise**
- **Reduces Emissions**
- Minimum Gas Loss/Lower Cost
- **Improved Public Relations (Nuisance calls** eliminated)



### **Continuous Service During Repairs**



### Flowing to Customer



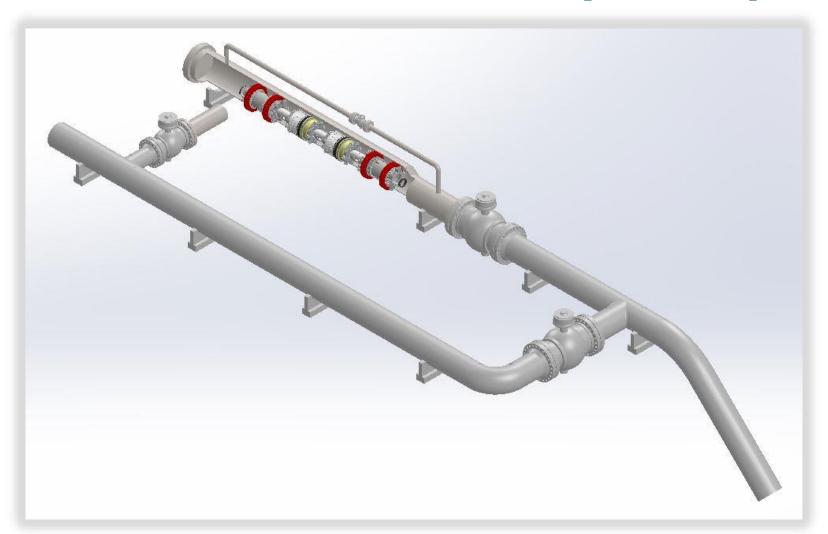
Flowing to Customer

The IsoPig® can allow a repair to take place while keeping customers serviced!





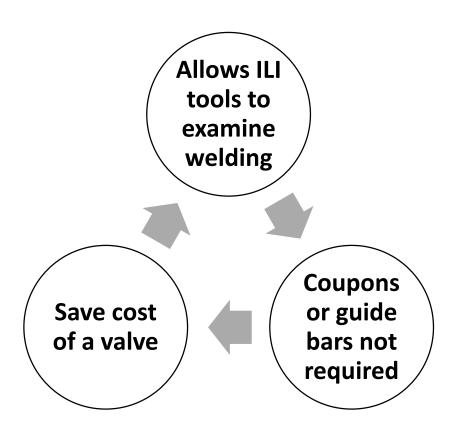
### Launcher or Receiver Valve Repair/Replacement







# Laterals/Proper Barred "T"











Steve Kean, President and CEO – Kinder Morgan:

"... I want to emphasize one specific area. That is working on, or around our pipelines ... We take notice of, and follow-up on any line hits. That's because the consequences are potentially so severe, including death or serious injury ..."

https://www.kindermorgan.com/pages/work/contractor\_co/
Contractor Safety Video



- Allows isolation of work areas prior to dig
- Achieves higher level of safety
- Minimize catastrophic damage in the event of a line hits:
  - 1) Environmental spills
  - 2) Explosions







- Cutting the line is not required
- Welding end-caps is not required
- Welding new pipe is not required
- Progressive Hydrotest potential
- Reduced water disposal









Pipeline Isolation:

The Old Way ...



"Isolation Without Stress"





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