**Inclinable Downhole separation facility**

This facility operates with water and gas and it has been designed and constructed to test and evaluate current downhole separators. Additionally, the facility can be used to develop a standardized evaluation methodology to evaluate future separators' designs. The facility design allows to test different separator geometries such as separator diameter or length.

**Key Specifications**

**Fluids**
- Gas: Compressed Air
- Water: Tap Water

**Operating Conditions**
- Maximum Pressure: 30 psig
- Temperature: Ambient
- Gas Flow Rate: 0 to 50 MSCFD (Sup. Gas Velocity @ dev region – 0 to 11.75 ft/s)
- Water Flow Rate: 0 to 1550 BPD (Sup. Liquid Velocity @ dev region – 0 to 1.96 ft/s)

**Test Section**
- Pipe Material: Acrylic
- Casing diameter: 6 in
- Shroud diameter: 3 in
- Tailpipe diameter: 1 in
- Developing Region: 25 ft
- Separator Length: 75 in
- Inclination Angles: 0 to 90 degree

**Instrumentation and Flow Characteristics**

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Figure 1: Schematic of Facility
Figure 2: Schematic of Test Section