

## Pioneers in Horizontal Shale Gas Production Logging



"Only RECON" Delivers More Fluid Identification (ID)  
Sensors for Gas/Liquids Holdup Ratios in Horizontal Shale  
Environments

### Benefits of RECON's Horizontal PL Well Logging System

- **HDD™ (High Definition Data)** Technology – Superior data resolution
- More fluid ID sensors
- Better holdup measurements - Fullbore gas/liquid holdup ratio
- Deployment Flexibility – Memory, Real Time, Wireline, Well Tractor, Coil or E-Coil deployment capability
- Well bore inclination and profile - Identifies potential water hold back valley regions in the well bore
- Expert Horizontal Well Log Analysis
- Expert Horizontal Well Field Service

### HDD™ Low-Flow Spinner/Flowmeter

"Only RECON" Delivers the Lowest Flow Rate Identification Spinner/Flowmeter Technology Available on the Market Today

### Benefits of the "RECON Only" Low-Flow Spinner/Flowmeter

- Resolve entries into low flow-rate wells as little as 1.76msf/d (0.05e3m3/d).
- Resolves individual perforation tunnel contribution
- Superior sensitivity to measure light hydrocarbons, condensation and water entries.
- Over a 200% decrease in Threshold Velocity
- Reduced threshold velocity results in increased sensitivity responses for accuracy
- Measures low-flow rates without requiring a diverter basket assembly
- Flow meter design allows for continuous flow measurement while pulling up through and into tubing bottom

## Additional Benefits of RECON's HDD™ Production Logging System

- Incorporates all fluid sensors within a 6' window
- 35 mm O.D. Slim Hole tool configuration – ability to log through a 42mm No-Go
- Ability to identify production behind the tubing
- Interpretation tail and composite log on all logs
- HDD™ Platinum temperature probe – superior temperature accuracy
- Single run service