

Case Study Well Monitoring

Data Acquisition to Monitor Pressure Buildup in a Shut-in Well

The Challenge

The well consisted of heavy walled tubing resulting in a restricted ID for this size of tubing. As a result, the client required a hanger device with minimal restriction to flow, in order to attain accurate data. Due to both the well location and time constraints, a slickline deployed, non-pyrotechnic gauge hanger system was the preferred solution in order to minimise OPEX. A new solution was required to ensure rapid, successful completion of the data acquisition exercise.

Considerations

The following key requirements and concerns were highlighted by the customer:

- Slickline deployment preferred method
- Pinpoint data acquisition required
- Safety concerns raised with use of explosives and transportation licences
- Required a cost efficient solution
- Required rapid mobilization
- Long shut-in time



▲ Hi-Ex Gauge Hanger



Location: Onshore Queensland

Customer: International Gas Explorer/Producer

Well Type: 4 ½-in Coal Seam Gas (70 degree deviation, 250 degF)

Casing Sizes: 4 ½-in 18.8 lbm/ft tubing

Products/Services:

2.2-in Peak eSetting Tool and Hi-Ex Gauge Hanger

Zero

No radio silence requirements, zero NPT

4hours

Period in which all gauges successfully set



View our Hi-Ex Gauge Hanger product animation on **Peak TV**

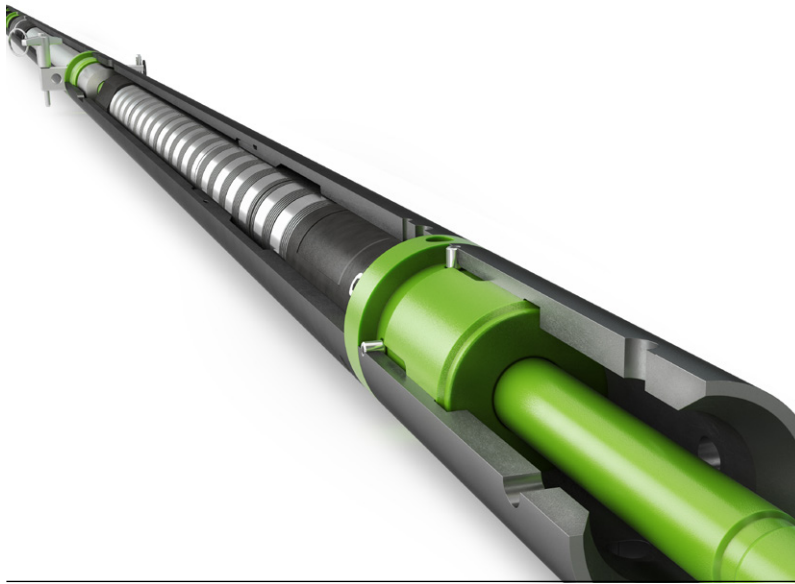


Peak's Solution

The Hi-Ex Gauge Hanger was set on slickline on the first run using the Peak eSetting Tool, which allowed it to be placed as close as is desired to the area of interest for pinpoint data acquisition.

The slim design of the Hi-Ex Gauge Hanger minimizes restriction to flow, enabling better quality data to be recorded during production and/or injection conditions.

The Peak eSetting Tool, used exclusively with the Hi-Ex Gauge Hanger provided a reliable deployment technique without the need for pyrotechnics, pressurized nitrogen or complex hydraulic pumps – ideal for remote locations. All gauges were successfully set within a four hour period.



▲ eSetting Tool

Value to Customer

All operations were carried out safely and efficiently:

- Zero harm to personnel
- Significant cost savings
- Pinpoint data acquisition
- Specialist Peak technician present onsite to ensure successful deployment
- No radio silence requirement, zero NPT
- Disposable, low-cost electronics allows for simple field redress
- Range of preprogrammed countdown times provided operational flexibility and control
- The gauge hanger can be set in a range of tubing sizes from 4 ½ in through to 9 5/8 in



▲ Hi-Ex Gauge Hanger

Product Code(s): Hi-Ex Gauge Hanger – 341

info@peakwellsystems.com

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