



# Gain Insight

**INTELLIGENT WELLHEAD SYSTEMS (IWS)** is a privately owned Canadian technology company specializing in the development and deployment of unique pressure control systems. Through extensive R&D efforts, we have developed the inVision product line. Our strategic alliances with major Oil & Gas service companies give us the opportunity to offer the inVision system on a rental basis to E&P operators throughout the world.

## Our Mission

*"To provide safety, confidence and peace of mind to front line pressure control workers and to protect our clients from the negative impacts associated with well control incidents".*



**Intelligent  
Wellhead Systems**

[IntelligentWellheadSystems.com](http://IntelligentWellheadSystems.com)



*From on-land to offshore, the innovative inVision System dramatically improves efficiency and safety.*

## Introducing the inVision System



The inVision System is a revolutionary well control component that allows pressure control operators to see inside the wellhead, Blow Out Preventer (BOP) or other Pressure Control Equipment (PCE). It shows a real-time picture of tubing, wireline or tools within the pressure control stack at its installed location — much like an MRI enables medical doctors to see inside the human body.



Using proprietary sensors coupled with IWS engineered software, the inVision System creates a magnetic field within the pressure containing section of the spool. The data created by the array is interpreted by the system's computers and communicated to relevant operators and machines on location.

It is a non-destructive system creating magnetic fields that pass through the spool with no entry points or potential leak paths created.



As the inVision System senses any ferromagnetic items with the spool, it actively displays the outer diameter image as pipe or wireline and even detects objects that are dropped through the inVision Spool.

The data is displayed on various screens in a clear and descriptive fashion including both lateral and vertical profiles. This indicates variation in tool string diameter and clearly identifies BHA's and the presence of wireline.

As a critical safeguard, the system also relays a clear "out of hole" condition so operators can ensure it is safe to stop and shut-in a live well.

## Built for Multiple Operations

The inVision System was created to allow operators and producers to see inside the stack across multiple applications and situations. It is the reason behind the creation of the inVision System and it is the impetus for leveraging a design that quickly addresses the specific needs for a variety of critical situations.

### A. Land/Offshore Coiled Tubing or Wireline

The components of this application include either an inVision Lubricator or an inVision Spool (depending where it is placed in the BOP stack), the DAS system, a hardwired Azonix screen for the wellhead area and wireless zone-rated tablets for the operator's cabins.

For extreme remote operations like offshore, redundant control systems are standard. Data reports can be uploaded daily for post job analysis.

The system enables faster recovery of coiled tubing strings or wireline tools and eliminates a myriad of well-control risks.

### B. Plug & Perf Frac

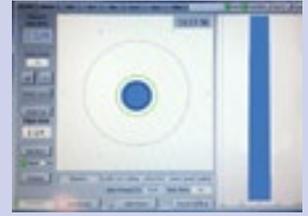
The components of a Plug & Perf Frac application include an inVision Wireline Lubricator Sub, FS1 control system and HMI screens for Wireline, Coiled Tubing and PCE operator and proprietary valve lockouts.

When integrated into a multi-well pad Plug & Perf operation, the system safely enables faster retrieval times for wireline tool strings while eliminating the procedure of crowning-out tools to shut the frac valve. In addition, the system prevents shutting-in a well when wireline is in the hole or when a frac is underway. Data reports provide an unbiased, accurate report of daily operations.

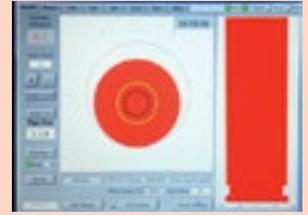
*The ability to see inside the stack makes the inVision System invaluable.*



An intuitive interface lets operators see what's in the stack and what's coming in or going out.



The sensors take 1,000 'images' per second, giving an accurate real-time view inside the stack at all pulling speeds.



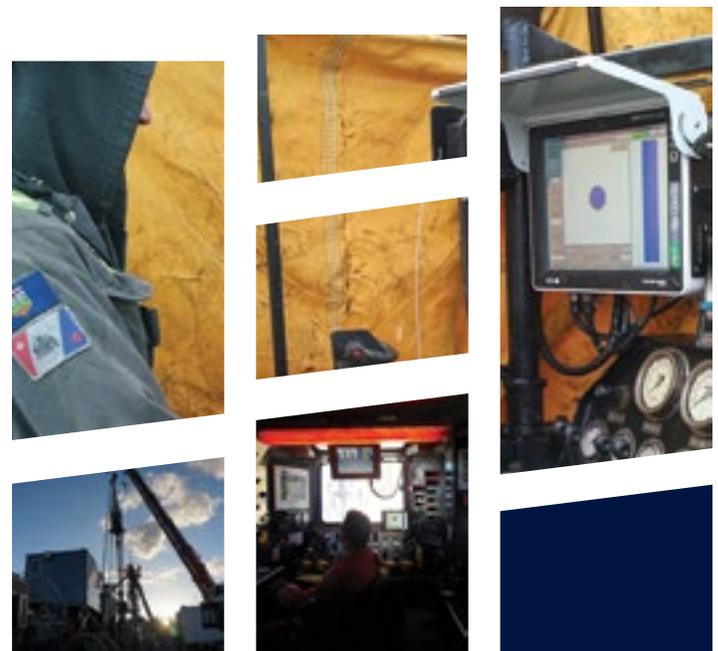
Displays and signals show exactly when you're out-of-hole, reducing well control incidents and downtime.



### C. Snubbing

Components in a Snubbing situation include the DAS system, snubbing basket mounted operators screen, a zone rated speaker, and a wireless zone rated tablet for snubbing supervisor/OCR and data log access for post-job analysis.

The system reduces snubbing operator stress by showing exactly where the tubing connections are, making operations more efficient and safer. When recovering or installing BHA's or tubing hangers, the system assists the operator in making informed decisions when moving the tubing string or operating BOP's. Any high-pressure snubbing operation would benefit by incorporating the inVision System.





*“The risk of a loss of well control due to inaccurate coiled tubing depth counters and operator error has all but been eliminated. This tool is a game changer in my opinion and will eliminate serious risks.”*

**Jamie Wagner, Sr. HES Field Rep, Chevron Canada**

### **It's In Our DNA**

Intelligent Wellhead Systems initially set out to create a game-changing innovation within the snubbing industry. Based on the actions and feedback of industry leaders, the scope of the application broadened significantly.

As an organization, we have earned the confidence of various E&P operators and international oilfield service companies. Over our short history, we've deployed a revolutionary well control component, the inVision System, and through our strategic alliances we have effectively brought it to market worldwide for both on-land and offshore Snubbing, Coiled Tubing and Wireline operations.

### **The Proof**

Every great technology and innovation starts with early adopters. They're the leaders of the pack and the ones who others look to for confidence before making the right decision.

Visit **The Proof** section of our website and review real-world case studies to learn more about how the inVision System operates in the field and how it has been adapted to meet our clients' needs.

### **But Don't Just Take Our Word For It...**

**“This tool should be used on every live well. This thing pays for itself again and again.”**

*- Ryan Yost, OCR, Range Resources*

**“The inVision Spool gives the operator 100% confidence the coupling is in the staging chamber... Since we started using the spool it feels unsafe to run without it.”**

*- Mike Lepage, Snubbing Operator  
High Arctic Energy Services*

**“There is no more guessing, we can see inside the BOP Stack. Finally, we can make confident decisions.”**

*- Michael Hug, CT Operator  
WISE Well Intervention Services*

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