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# Cased Hole Catalogue

GOWell designs, manufactures and supports a wide range of well logging equipment which we supply to service companies globally in the oil, gas, and geothermal industries. The three key pillars of our best-in-class delivery promise are:

- Our Houston Innovation Center (HIC) has a strong focus on developing new well integrity solutions. The HIC team holds numerous US patents for their outstanding work in this field. We are constantly improving our technology and developing new solutions by committing at least 10% of annual revenue to our R&D efforts.
- Our Xi'an Product Center (XPC) is API Q1 and ISO9001 certified and is fully committed to manufacturing high-quality and reliable equipment, in addition to providing custom engineered solutions.
- The regional hubs deliver outstanding technical, logistical and interpretation support which is the backbone of our delivery promise: global but local with support personnel.



# ABOUT US

## OUR VISION

We aim to become your world-class supplier of wireline logging equipment. We provide reliable equipment, best in-class support, and outstanding technical solutions to all our customers.

## OUR MISSION

Our mission is to develop, manufacture, and support fit-for-purpose and reliable wireline technology solutions. Our success is achieved every time we deliver high-quality products and excellent service support combined with our flexible business approach.

## OUR VALUES

- **SAFETY** - We do our best to uphold the highest standard of safety and strive for the improvement of health, safety, and security for our employees and community.
- **EXCELLENCE** - We aim to deliver world-class products and services.
- **LEARNING** - Knowledge sharing and collaboration among our team members are key to our success.
- **TEAM WORK** - We combine our knowledge and expertise and then assess the value of our performance, resulting in increased quality and support to our customers.
- **CUSTOMER FOCUS** - We listen to our customers and make every effort to provide solutions to meet their preferences.



Xi'an  
Gowell  
Petroleum  
Q1-4068



## MEMORY

Data is recorded and stored on the tool per the user's pre-defined program and downloaded on the surface for further time-to-depth conversion and interpretation.

## SURFACE READ OUT

Logging data is recorded and available for real-time QC and monitoring for instant decision making. A smart surface panel (CSS107) handles all downhole communications with the high-speed telemetry tool (WTS) including automatic self-adapting, i.e., "hands-free" power-up for engineers. It is also equipped with a key lock safety system for perforation operations.

## BENCH TESTING

A simple self-contained bench testing unit (USBCAN box), coupled with our Pegasus Diagnostics (PDS) software is a comprehensive tool for troubleshooting and calibrating all GOWell tools.

## AUXILIARY SENSORS AND ACCESSORIES

Auxiliary sensors and accessories, designed for different well sizes, help to position tools properly and meet specific well conditions.

<b>PegasusStar</b>	
<b>Memory</b>	<b>Centralizers</b>
<p>MEMORY CONTROLLER (MRL)</p> <p>BATTERY PACK UNIT (BPU)</p>	<p>RECOVERY ADAPTER</p> <p>CTL 43</p> <p>CTL 70</p> <p>CTL 90</p>
<b>Surface Read Out</b>	<b>Bench Testing</b>
<p>SURFACE PANEL (CSS107)</p> <p>PEGASUS CASED HOLE LOGGING SYSTEM</p> <p>HIGHSPEED TELEMETRY (WTS)</p>	<p>USBCAN BOX (MRL.GJ15)</p> <p>SOFTWARE PDS</p>

## Auxiliary Sensors and Accessories

<p>GAMMA RAY TEMPERATURE-CCL (GTC43C-E)</p>	<p>GAMMA RAY TEMPERATURE (PGT43C-A)</p>	<p>PRESSURE-TEMPERATURE-CCL TOOL (PTC43C-A)</p>	<p>FLEX JOINT TOOL (FJT)</p>	<p>TENSION COMPRESSION SUB (TCS)</p>
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<b>Memory</b>	
<p>PRESSURE TEMPERATURE CAPACITANCE CCL (PTCC)</p>	<p>MEMORY GAMMA RAY TOOL (GRT)</p>

## WELL INTEGRITY TOOLS

As a core business of GOWell, our Well Integrity tools create a continuous map of the wellbore profile to enable complete inspection of the downhole condition and identify problems associated with the leak, poor cementing, or tubular integrity beyond several barriers.

## SOUR SERVICE TOOLS

GOWell offers a full range of sour service tools that use NACE MR075 materials throughout.

## PRODUCTION LOGGING TOOLS

GOWell's PLT tools are designed to be short in length and small in diameter to meet surface rig-up limitations and tubing restrictions of production wells. The tools help to identify production regimes and completion problems that prevent the well from maximum performance. Our PLT tools incorporate sensors such as capacitance, fluid density, pressure, temperature, caliper in addition to gamma-ray and casing collar locator. A vast range of spinner flowmeters are available to meet specific job requirements.

### PegasusStar Well Integrity



MULTI-FINGER CALIPER (MFC)



MAGNETIC THICKNESS DETECTOR (MTD)



ENHANCED PIPE DETECTION TOOL (EPDT)



RADIAL BOND TOOL (RBL)



ARRAY NOISE TOOL (ANT)



STATIONARY NOISE TOOL (SNT)



DEFORMATION & ECCENTRICITY TOOL (DEC)

### Memory



ACOUSTIC LEAK FLOW ANALYSER (ALFA)

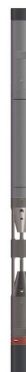


SAND DETECTION TOOL (SDT)

### Production Logging



COMBINED WATER HOLDUP TOOL/DENSITY TOOL (QCD)



INLINE FLOWMETER (IFS)



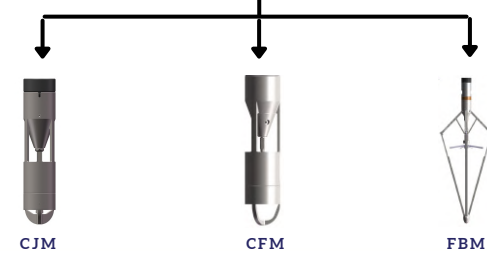
QUARTZ PRESSURE TOOL (QPS)



XY CALIPER (XYC)



PRESSURE-TEMPERATURE-FLOWMETER (PTF)



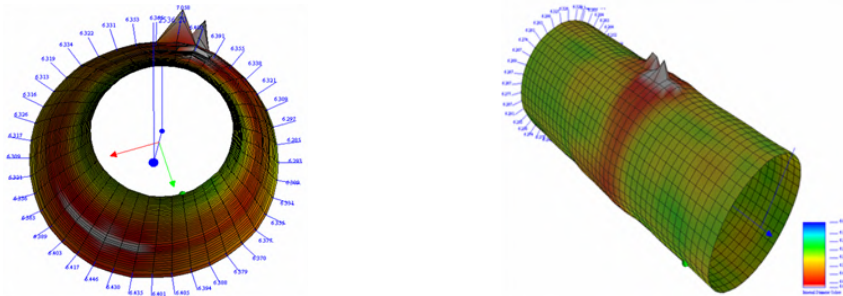
Well Integrity

Corrosion

**MULTI-FINGER CALIPER**

The GOWell Multi-Finger Caliper (MFC) Tool has a measurement range from 2 in. to 20 in., which practically covers all tubular sizes where caliper measurement might be required. The MFC is available with **24,40, or 56** fingers and with normal and extended-arm options.

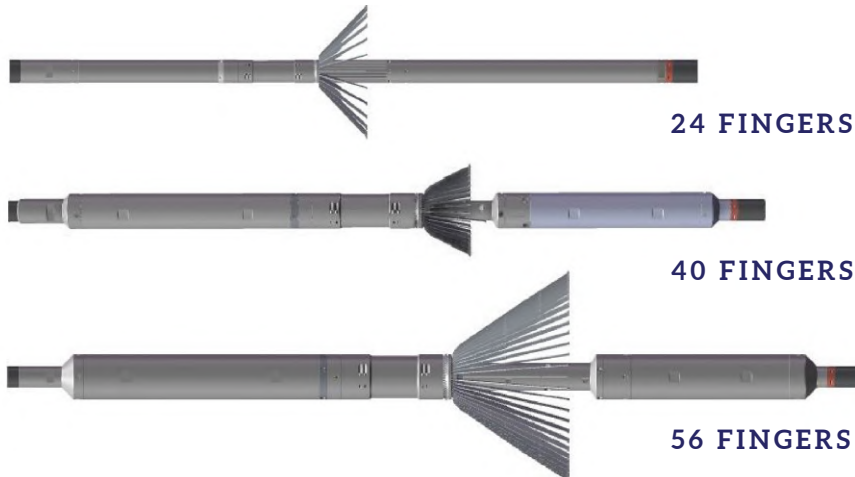
The MFC provides direct measurement of internal tubing and casing diameters. It is used to identify corrosion, wear, pits, and holes. The MFC can also show any gains/build-up of scale during production. Measuring fingers on the tool move radially along the tubular wall and detect any diameter change that can be presented as a cross-section of a 3D image. The fingertips are made of a material with >100km of durability, and they can be easily replaced in the field.



**SIZING**

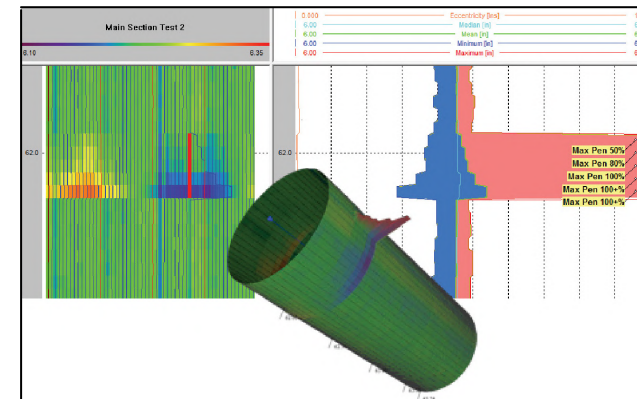
The MFC is available in three sizes with extended fingers.

- **24 Fingers** - Measurement range 2 in. to 9 5/8 in.
- **40 Fingers** - Measurement range 3.5 in. to 9 5/8 in.
- **56 Fingers** - Measurement range 4 in. to 20 in.



**FEATURES**

- Available with extended fingers
- Combinable with all Pegasus Series Tools
- Compatible with Pegasus Star Cased Hole Logging Platform
- Built-in 3-axis accelerometer provides well deviation and finger position (relative bearing)
- Compatible with the ViewWell™ Well Integrity Platform
- Compatible with the Warrior™ Acquisition System



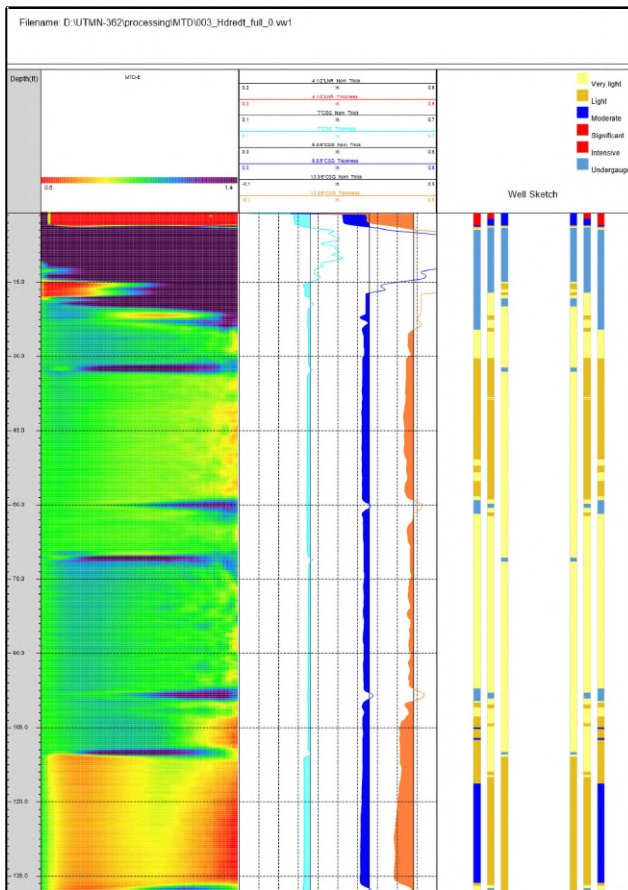
## Well Integrity

## Corrosion

## MAGNETIC THICKNESS DETECTOR

The GOWell Magnetic Thickness Detector (MTD) Tool was developed specifically to evaluate corrosion of multi-barrier pipes and to identify the metal reduction of each pipe. The MTD is usually run through tubing and has the unique ability to simultaneously inspect tubing and the casing behind it.

The MTD can detect up to three barriers and measure average circumferential metal loss at each barrier. The 1 11/16-in. diameter tool is designed for tubing restrictions, but it can log in up to 18 5/8-in. casing. The GOWell simulation software with advanced modeling techniques aids to identify the corrosion extent through a comparison of simulated model decay curves with actual tool response.



## FEATURES

- A slim tool with 1 11/16-in. O.D.
- Combinable with all Pegasus Series Tools
- Quantitative three-pipe thickness evaluation
- Pre-job planner tool with forwarding modeling module
- Processing with a user-friendly module of the ViewWell™ Well Integrity Platform
- Compatible with the Warrior™ Acquisition System
- Qualitative evaluation of the fourth pipe



## ENHANCED PIPE DETECTION TOOL

The GOWell Enhanced Pipe Detection Tool (EPDT) is our next-generation thickness evaluation tool. Although the measurement principle is similar to the MTD tool, the EPDT includes a new patented antenna that significantly improves measurement capabilities. This improvement enables quantitative thickness measurements in as many as five concentric pipes and increases the tubular range from 2 7/8 in. to 26 in. O.D.

### ePDT Calibration Facility

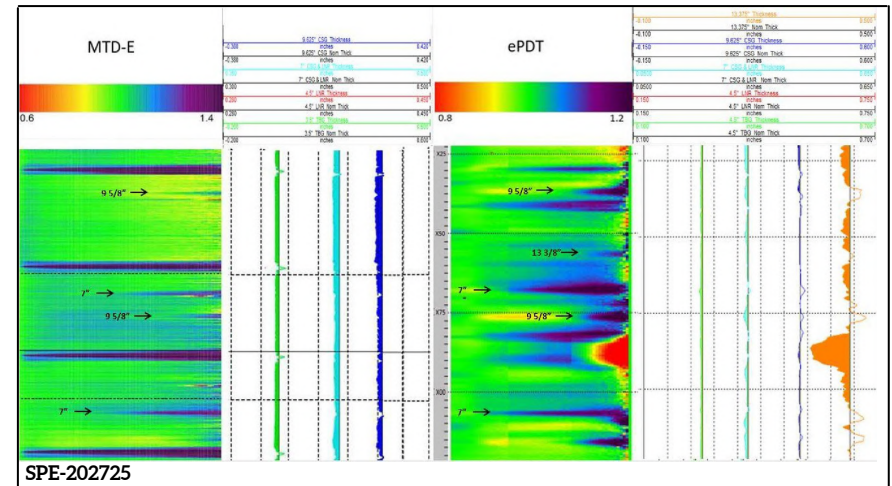


### FEATURES

- Compatible with the Warrior™ Acquisition System
- Centralized deployment 2-in. O.D.
- Clear real-time visualization for QC and onsite evaluation
- Combinable with all Pegasus Series Tools
- Quantitative 4 to 5 pipe thickness evaluation (dependent on total metal thickness)
- Pre-job planner software that combines a powerful forward-modeling module and simulation tool
- Proprietary post-processing module built-in to the ViewWell™ Well Integrity Platform

### WHAT IS THE BENEFIT?

The ePDT is fully combinable with the GOWell Pegasus Series instruments, including the Multi-Finger Caliper (MFC), the Array Noise Tool (ANT), the Stationary Noise Tool (SNT), the Production Logging Tools (PLT), and our Radial Bond Tool (RBL). This combination capability enables a comprehensive evaluation of well integrity, providing accurate thickness information for multiple pipe strings as well as leak detection, multi-phase fluid flow, and cement bond quality.



## Well Integrity

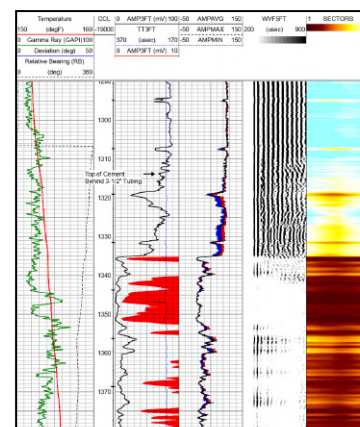
### Cement Evaluation

## RADIAL BOND TOOL

The GOWell Radial Bond Tool (RBL) has eight radial receivers in addition to standard cement bond amplitude and variable density logging. Each receiver covers a 45-degree section, providing a 360-degree circumferential map that enables better resolution to identify channeling and a thin cement sheath. The tool also evaluates hydraulic isolation between producing and non-producing zones, which is one of the key factors for well integrity. The RBL is not a pad device and does not have the limitations of pads, unlike some other tools available in the industry.

## FEATURES

- Combinable with all Pegasus Series Tools
- All receivers in a slotted housing provide rigidity, strength, and noise isolation
- Surface readout and memory capable
- Compatible with the Warrior™ Acquisition System
- Robust design suitable for horizontal logging



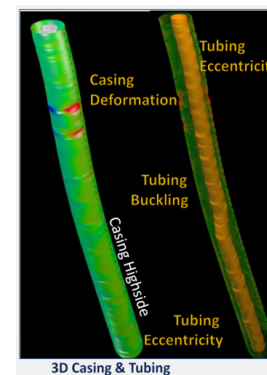
## Deformation Logging

## DEFORMATION & ECCENTRICITY TOOL

The GOWell Deformation & Eccentricity (DEC) Tool is run inside tubing to use its unique ability to inspect casing deformation, tubing eccentricity within the casing, and the minimum distance between tubing and casing. The tool employs a high signal-to-noise ratio (SNR) compressed-and-focused magnetic-field and uses two sets of magnetic sensors for tubing and casing to measure the magnetic flux density distributions azimuthally around the tool. Changes in the magnetic flux density correspond to variations in the spacing between the tubing and casing. Data processing generates accurate tubular geometry and a 3D color-enhanced image. The DEC has a built-in orientation measurement based on gyroscopes and accelerometers that are used to align the deformation and eccentricity images as well as the tubing thickness image.

## FEATURES

- A slim tool with 1 11/16-in. O.D.
- Combinable with all Pegasus Series Tools
- Enhanced processing within the ViewWell™ Well Integrity Platform
- Compatible with the Warrior™ Acquisition System





## Well Integrity

### Passive Acoustic

## STATIONARY NOISE TOOL

The GOWell Stationary Noise Tool (SNT) contains a carefully designed set of sensors to achieve a wideband frequency response that is highly sensitive from 40Hz to 60kHz. The sensors are sampled with two schemes to obtain optimal resolution in low (0 to 4kHz) and high (0 to 60kHz) frequencies.

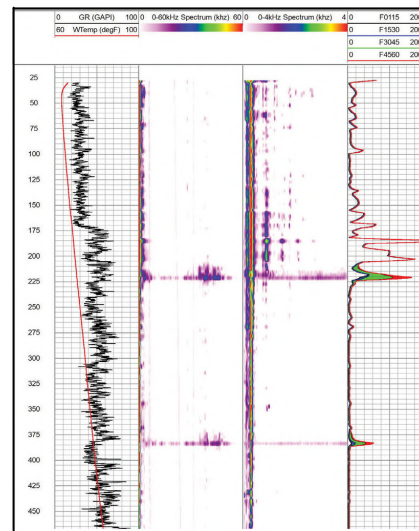
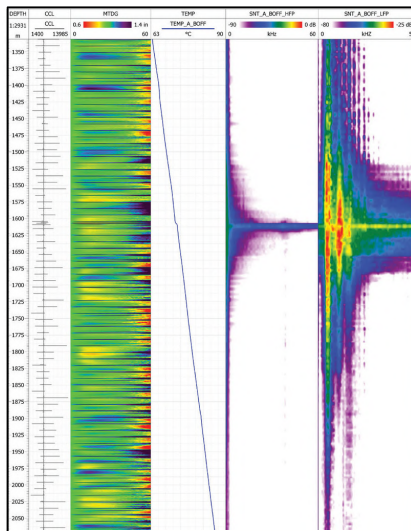
The SNT focuses on real-time surface readout (SRO) applications that require sensitive stationary measurements with immediate real-time, on-site answers. Our unique real-time software automatically stitches multiple station measurements together to generate a real-time, depth-based answer product. From this, the customer can quickly identify intervals of interest and, if required, can easily acquire in-fill stations with closer spacing without any delay or extra data manipulation. This hybrid logging mode is capable of stitching together data from multiple SNT tools in the tool string to further optimize acquisition.

## FEATURES

- Surface ReadOut (SRO) stationary noise log
- Real-time depth log from stations - **Unique in the Industry!**
- Combinable with all Pegasus Series Tools
- Multiple SNT stackable to accelerate the acquisition



### SNT REAL-TIME WARRIOR LOG COMPRISING MULTIPLE STATIONS



## WHAT ARE THE BENEFITS?

- Leak Detection
- Fracture and matrix bypass detection
- Cross flow and flow behind the pipe detection
- Flow profiling capability by combining with production logging tools

## Well Integrity

## Passive Acoustic

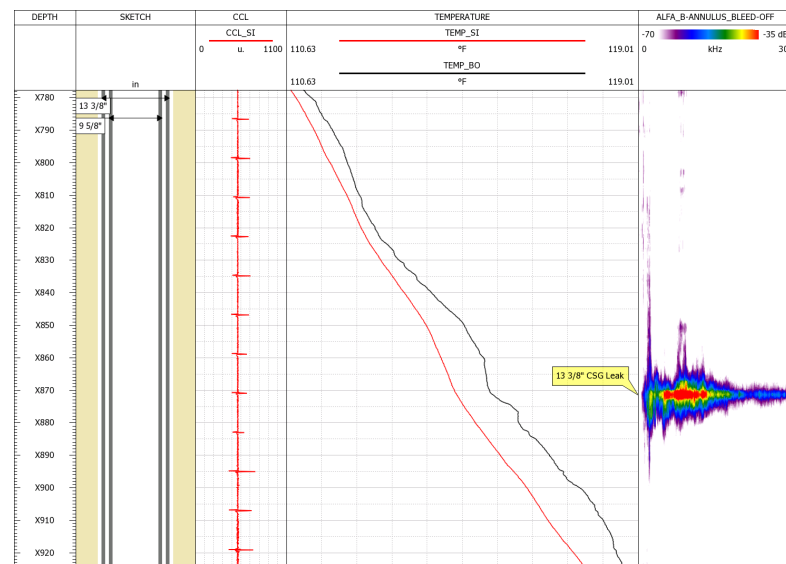
## ACOUSTIC LEAK FLOW ANALYZER

The GOWell Acoustic Leak Flow Analyzer (ALFA) is a memory tool that uses an 8Hz to 60KHz frequency spectrum to identify the flow zone (including behind the pipe) as well as the fluid type. The tool uses extremely sensitive acoustic sensors to measure sound produced downhole by gas fluid flow. In addition to spectral noise, the tool incorporates pressure, temperature, and casing collar locator sensors.

In addition to leak detection and flow identification, the ALFA is used for sustained pressure diagnosis, reservoir characterization, and formation evaluation as well as for open perforation identification.

## FEATURES

- Flow detection through multiple tubulars
- Flow identification behind or inside of the pipe
- Borehole and reservoir performance
- Combinable with other logging tools to provide a complete well evaluation in a single run
- Slim tool design enables safe and easy deployment through the smallest completion tubing and restrictions



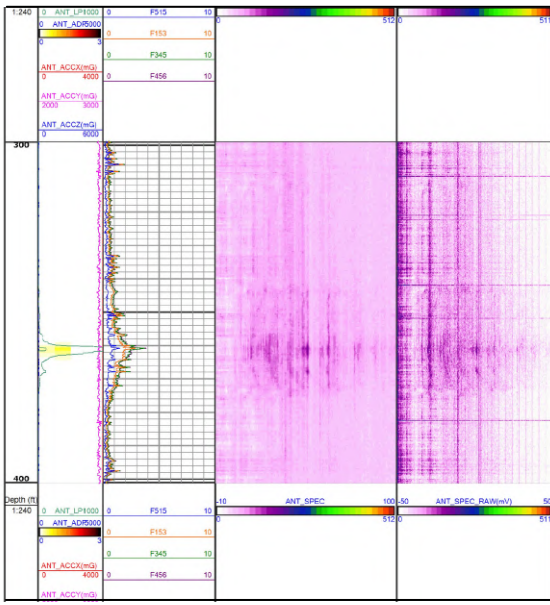
Well Integrity  
Passive Acoustic

**ARRAY NOISE TOOL**

The GOWell Acoustic Noise Tool (ANT) employs quadrature sensors configured in X and Y planes, enabling differential measurements. With accurate sensor matching and tool calibration, the tool achieves 30dB of common mode signal rejection. The array data enables propagation-direction processing to further extract weak fluid movement sounds from behind multiple pipes.

**FEATURES**

- Sixty hydrophones in a 5-level, a 4-segment array with 800Hz to 60kHz bandwidth
- Dynamic and stationary acquisition modes
- Differential measurements
- Real-time spectral analysis
- Excellent road noise rejection (> 30dB)
- Post-processing accuracy and efficiency enhanced by machine learning algorithms

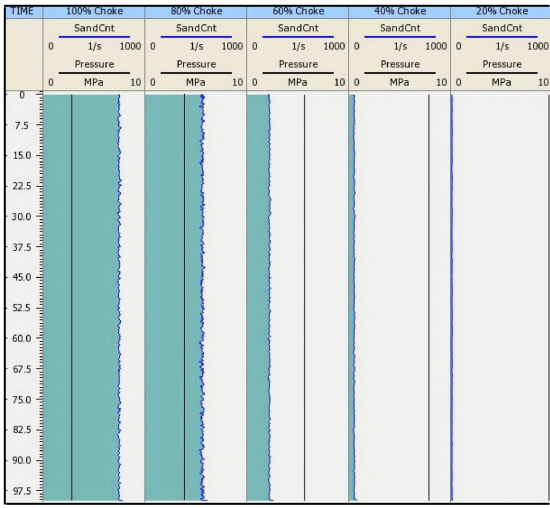


**SAND DETECTION TOOL**

The GOWell Sand Detection Tool (STD) is designed with a highly sensitive ultrasound sensor for detecting ultrasonic frequencies generated by sand particles. The tool ignores sound generated by fluid, gas, and mechanical shock/movement. The STD counts sand particles by calculating the frequency and amplitude of ultrasound signals used for qualitative analysis of the sand. This capability enables customers to identify the source of sand production and understand its dynamics to prevent potential issues and eventually improve well performance.

**FEATURES**

- Records sensor data in the device memory
- Downloads of data from the tool
- Start records after the specified time
- Stop records at the specified time



## Production Logging

### Flowmeter

Flowmeters are used to determine fluid flow velocity and direction. When fluid passes the impeller and rotates it, the number of revolutions is used to calculate fluid velocity. While the measurement principle is similar for all tools, different types of flowmeters are available for specific challenges. All flowmeters require an in-situ calibration procedure that uses logging runs at several cable speeds with the well shut in at the surface.

#### INLINE FLOWMETER

The GOWell Inline Flowmeter's (IFS) has a shrouded design prevents impeller damage when passing perforation zones containing high-velocity inflow jetting. An optimized flow profile is obtained when combining IFS data with data from the bottom flowmeter. The inline flowmeter is an ideal second source of data when the bottom spinners cannot rotate due to well restrictions or debris. Blades are easily interchangeable in the field in cases where the tool is used in harsh conditions for multiple PLT campaigns over several wells.



#### FULLBORE FLOWMETER

The GOWell Fullbore Flowmeter (FBM) is a mechanical section combined with an electronic section on the GOWell Pressure Temperature Flowmeter (PTF) Tool. The FBM impeller blades fold and the arms collapse when in the tubing but expand into a large diameter for measurements in the casing. The FBM is run at the bottom of the tool string and used to provide sensitive fluid flow measurements for a large variety of casings ranging from 4½ in. to 9½ in.



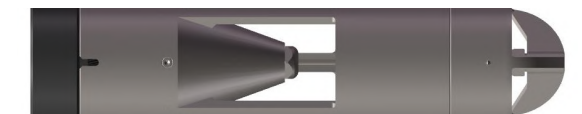
#### CONTINUOUS FLOWMETER

The Continuous Flowmeter comprises a mechanical section (CFM) combined with an electronics section on a Pressure Temperature Flowmeter (PTF) Tool. Located at the bottom of the tool string, the Continuous Flowmeter provides fluid flow measurement in the tubing.



#### SAPPHIRE JEWEL FLOWMETER

The Sapphire Jewel Flowmeter (CJM) is useful in high-velocity fluids such as gas wells where very high rotation is expected and ultra-low friction is required. The impeller shaft is supported by sapphire jewels on either side.



## Production Logging Tools

### Combined Water Holdup Tool/Density Tool (QCD)

The GOWell Combined Water Holdup/Density Tool (QCD) offers capacitance (water holdup) and tuning fork density sensors in one module.

#### FEATURES

- Compact design by combining water holdup and fluid density
- Density unaffected by highly radioactive scale and well deviation
- No radioactive source – ease of logistics
- Accurate, repeatable density measurements
- Fluid viscosity estimates
- Compatible with all Pegasus Series Tools



### Pressure Temperature Flowmeter (PTF43)

The GOWell Pressure-Temperature-Flowmeter (PTF43) is a compact tool with pressure, temperature, and flowmeter electronics. PTF uses a high-accuracy piezo-resistive sensor for pressure and a platinum thermal sensor for temperature. The flowmeter sensor is an electronic cartridge that is combinable with the mechanical sections of Continuous, Jewel, and Fullbore Flowmeters.

#### APPLICATIONS

- Leak detection
- Productivity index evaluation
- Production/injection intervals detection
- Pressure transient analysis
- Wellbore temperature profile



### Quartz Pressure tool (QPS)

The GOWell Quartz Pressure Tool (QPS) measures pressure using an industry-leading precision quartz crystal pressure transducer. The high-accuracy pressure measurements are fully compensated for temperature with a thermally coupled quartz temperature crystal.

#### FEATURES

- Built-in temperature tool corrects for pressure changes due to temperature
- Fast response to small changes in fluid temperature
- Combinable with all Pegasus Series Tools
- Surface readout or memory logging operations



## Correlation

### Gamma Ray-Wellbore Temperature (PGT) and Gamma Ray-Wellbore Temperature-CCL (GTC)

The PGT and GTC contain gamma ray and temperature sensors. The GTC also has a CCL sensor in addition. Both tools are primarily used for depth correction and leak detection. GOWell designed the PGT specifically to deploy with the MTD tool because running MTD and GTC together might be problematic due to magnetic interference.

#### APPLICATIONS

- Correlation of cased hole logs between runs and wells
- Depth control
- Lithology identification
- Leakage detection through the High-Resolution Temperature Log
- Production/injection intervals identification



GTC43C-E



PGT43C-A

### Pressure-Temp-CCL PTC43C

The PTC Tool is a compact tool that contains pressure, temperature, and CCL sensors. In addition to depth correction and leakage detection, data from pressure sensors are used to build up the pressure profiles of the well and perform pressure analysis.

#### APPLICATIONS

- Correlation of cased hole logs between runs and wells
- Depth control
- Leakage detection through the high-resolution production temperature log
- Productivity index evaluation
- Identification of production/injection intervals
- Pressure transient analysis
- Pressure gradient evaluation



### Memory Gamma Ray Tool (GRT)

The GRT is a memory scintillation gamma ray tool. The tool can be run standalone for a reference log or in combination with other memory tools such as the PTCC and ALFA. Programming, data download and depth merging are quickly and conveniently performed at the well site with the supplied software.

#### FEATURES

- Uses readily available Li cells
- Stackable with other memory tools
- Calibrated response (when used with the GOWell GR blanket calibrator)
- Compatible with ALFA and PTCC tools



Correlation

Pressure Temperature Capacitance CCL(PTCC)

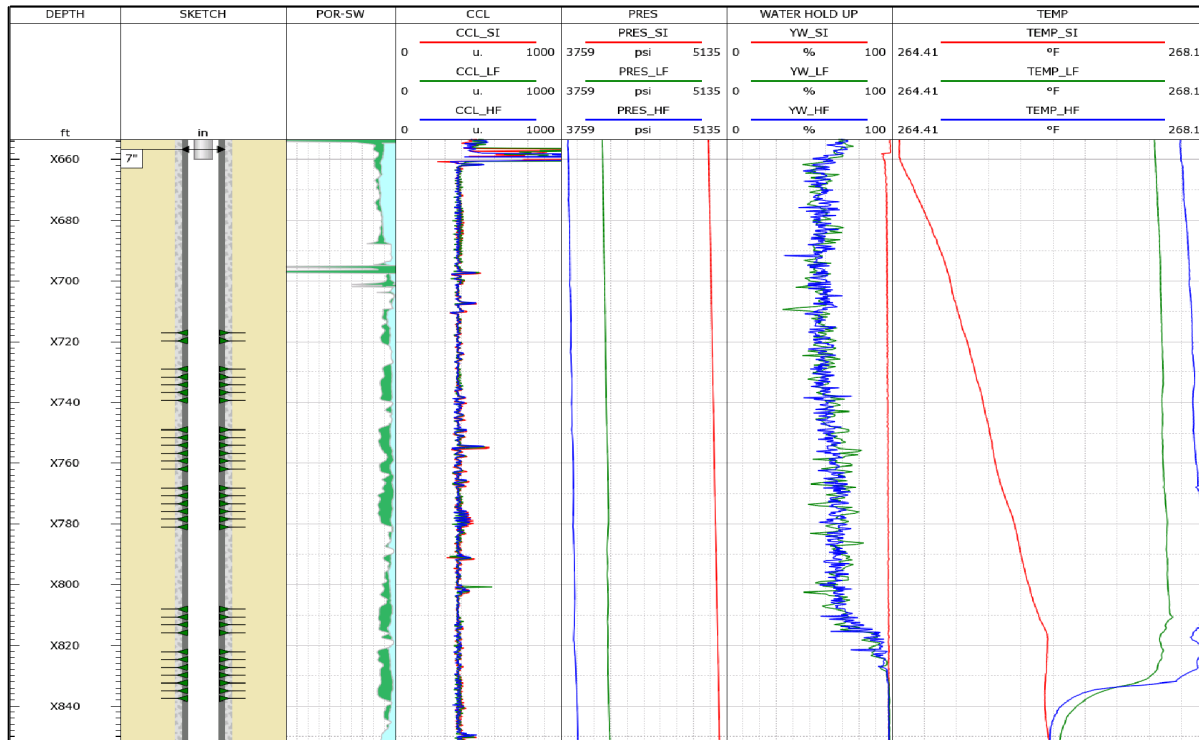
The PTCC is a memory tool combining four sensors into a single compact module. The instrument measures pressure, temperature, capacitance water hold-up and it has a casing collar locator. Memory acquisition of PTCC can be triggered not only by time and by exceeding pre-determined specific pressure.

APPLICATIONS

- Correlation of cased hole logs between runs and wells
- Leak detection with the high-resolution production temperature Log
- Identification of production and injection zones
- Location of top cement
- Low flow rate profiling when coupled with temperature simulation analysis
- Water hold-up measures the dielectric constant of the surrounding borehole fluid to determine the water holdup



Log Example



## Auxiliary Sensors and Accessories

### Flex Joint Tool

The GOWell Flex Joint Tool (FJT) provides flexibility up to 15 degrees. It is used to decouple one part of the tool string from another as well as to run centralized and eccentric tools together. Multiple FJT's can be run in the same tool string to achieve optimum tool string configuration for a specific job.

#### APPLICATIONS

- Proper tool positioning for deviated wells
- Tractor operations
- Decouple weight bars from the logging string
- Allow centralized and eccentric tools to be run together

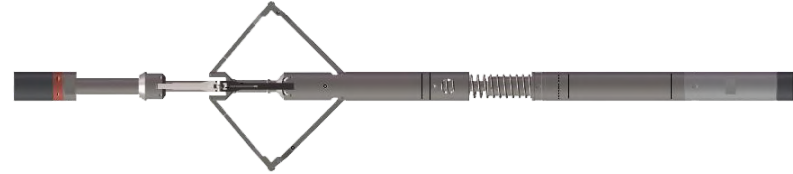


### XY caliper

The GOWell XY Caliper Tool provides caliper measurement of the borehole in X and Y axis from 2 in. to 9.7 in. Oriented at 90° to each other, the caliper arms provide an accurate assessment of pipe geometry for identifying serious deformation/corrosion or scale build-up. The caliper data is also used to correct spinner-derived fluid volumes for varying tubular sizes.

#### APPLICATIONS

- Measuring of casing deformation and major corrosion
- Detection of scale build-up in casing or tubing
- Correction of spinner-derived fluid velocity for the varying tubular sizes



### Tension Compression Sub

The Tension Compression Sub (TCS) is a device designed to accurately measure the downhole load on any Pegasus tool string. This module gives real-time surface readout providing the engineer with an invaluable tool to detect and prevent tool string hang up. This new unit has pressure compensation capability with the load measurement achieved by means of a precise strain gauge situated within the housing. TCS can be mounted directly below the telemetry module (WTS) or anywhere in the tool string and is fully digital measurement.





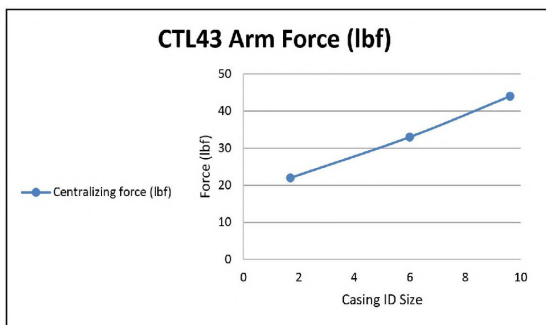
## Centralizers

Most Well Integrity and Production Logging Tools require centralization. GOWell provides three types of centralizers with 43mm (CTL43), 70 mm (CTL70) and 90 mm (CTL90) OD. The CTL43 is designed with four arms for lighter tools, and the CTL70 and CTL90 have six strong arms to deliver heavier tool strings to the target depth. Depending on tool string diameter, one of these options can be used with the required number of centralizers for optimal tool string configuration. GOWell centralizers are equipped with rollers to minimize contact area and friction within the wellbore.

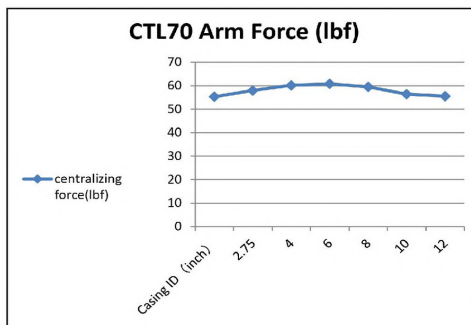
### FEATURES

- Low friction rollers
- Arm force suitable for high-angle and horizontal wells
- Available in standard or sour service options
- Available in monopin and Pegasus 13-pin options
- Custom connections available upon request

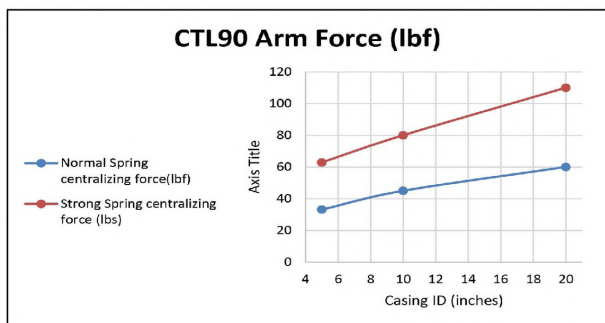
Centralizing Force Chart for CTL43-F/K Centralizers



Centralizing Force Chart for CTL70-G/H Centralizers



Centralizing Force Chart for CTL90 Centralizers



CTL43C-K

CTL70J-A

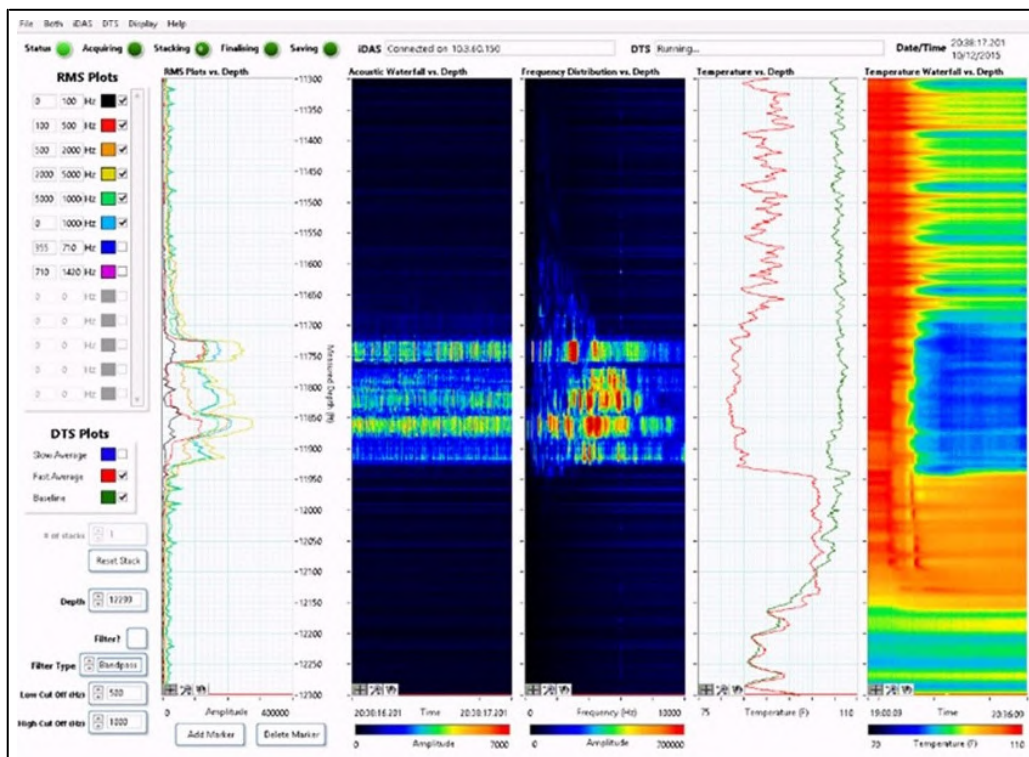
CTL90D-B

## Distributed Fiber Optics

Distributed Fiber Optics (DFO) technology makes it possible to continuously monitor the entire wellbore continuously over extended periods of time. Unlike logging tools that can survey only a limited interval of the well at one specific time, DFO captures data several times per second, providing a complete wellbore profile. As a result, dynamic events moving along the wellbore can be tracked, which provides a better insight into the wellbore dynamics and added confidence to well integrity decisions. For example, a gas leak migrating upwards can be followed and its speed measured, and intermittent events that would otherwise escape detection by traditional point measurement logging tools can be observed and diagnosed.

### FEATURES

- Reliable, stable temperature measurements
- Rugged DTS unit built for well site operations
- Easy-to-use acquisition software
- Compatible with leading downhole temperature analysis software
- Built-in battery for four hours of self-contained operation



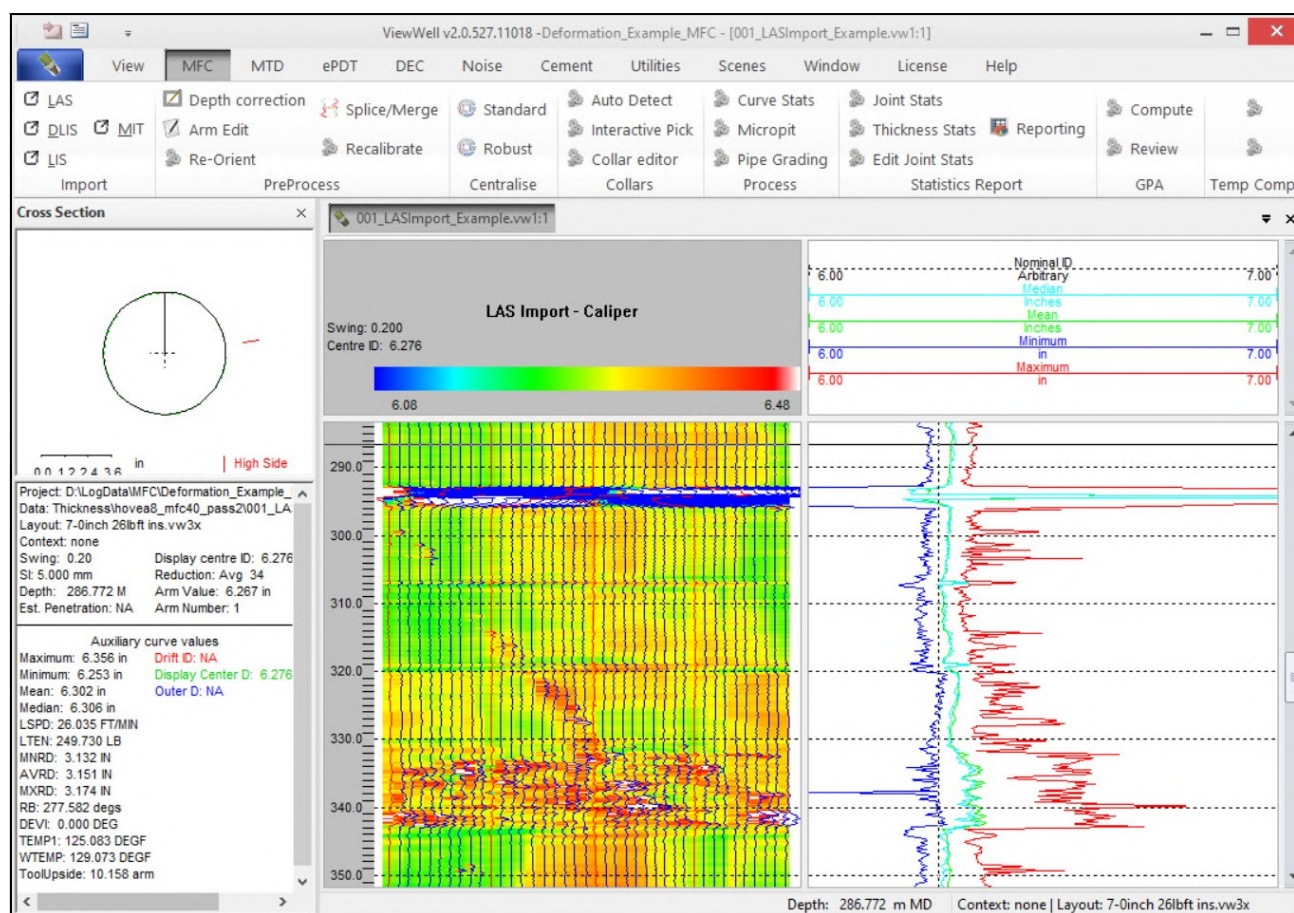
## ViewWell - Well Integrity (WI) Processing and visualization software

The GOWell ViewWell™ Well Integrity Platform offers a comprehensive view of well integrity data through a consolidated analysis and visualization of cement, casing and tubing conditions. The platform includes a range of statistical methods to analyze wall loss, penetrations and restrictions for quantitative interpretation. We incorporate forward modeling of our tools to allow for job planning, data quality control, feature analysis and inversion processing.

ViewWell is a modular platform, designed to include tailored plugins, with the intention to capture our ever-expanding modules as well as to integrate additional customer modules.

Along with the ViewWell Platform, GOWell provides a Monitoring Module at no cost. The Module allows customers to visualize QC-ed data and interpretation results across multiple users for quick turnaround and ultimate decision making.

### Multi-track viewer showing an example of Caliper, MTD and RBL Data



## Third Party Interface - Pegasus Protocol Adapter (XPA43J-A)

GOWell has developed an adapter module (XPA43J-A) that allows GOWell's Pegasus Series tools to be fully compatible with the industry-standard tool bus. One or more Pegasus series tools can be connected below an XPA43J-A. When the adaptor is in place, any combination of third-party tools, either Surfcar readout or Memory, can be connected above the adapter.

**Protocol Conversion:** Converts the GOWell Pegasus tools' CAN protocol to the leading industry-standard tool bus

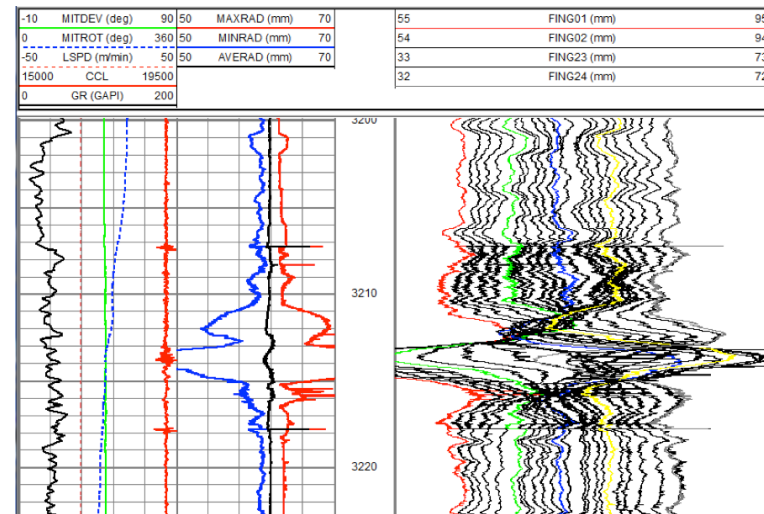
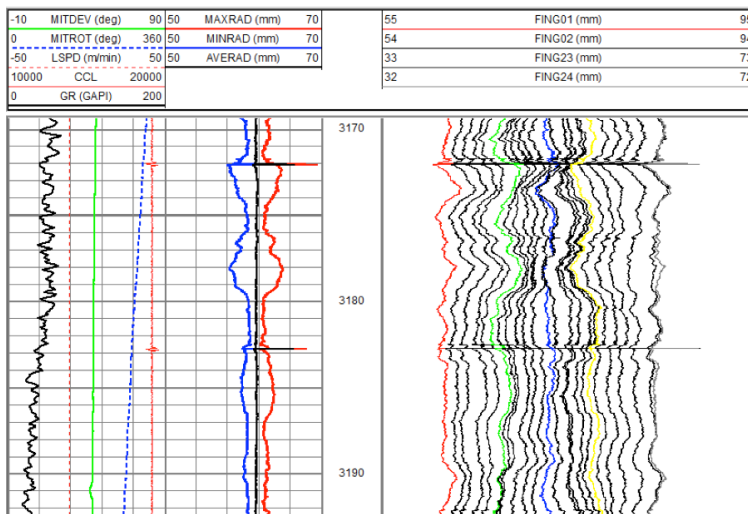
**Mechanical Conversion:** Adapts the GOWell Pegasus tools' 13-pin connection to third-party tools' mono conductor connection.

### APPLICATIONS

- Enables flexibility to use the GOWell's Pegasus Series tools while retaining your existing downhole tool investment.
- Provides a transition pathway to use the GOWell Pegasus Series tools.



Log examples showing the GOWell Pegasus MFC24 and GTC tools connected below a third-party telemetry tool and their acquisition system



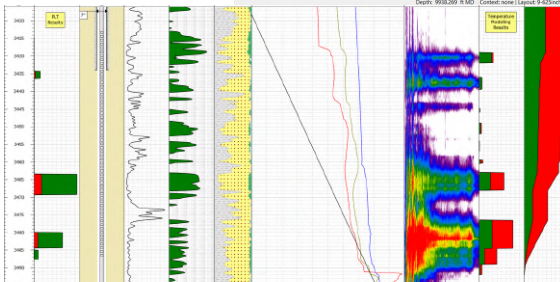
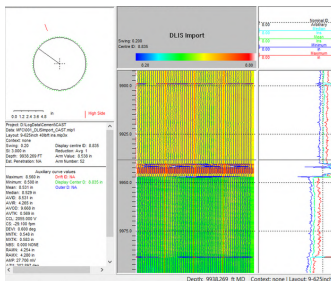
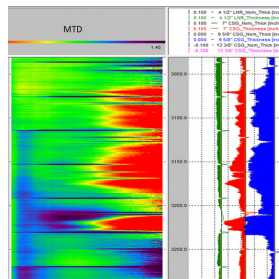
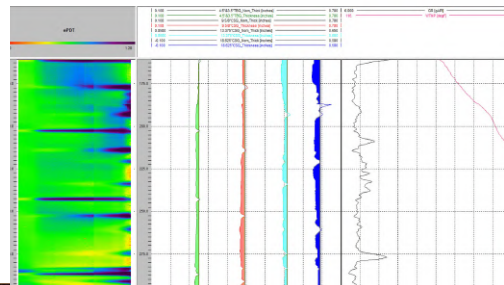
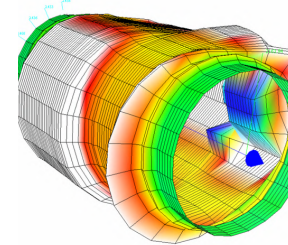
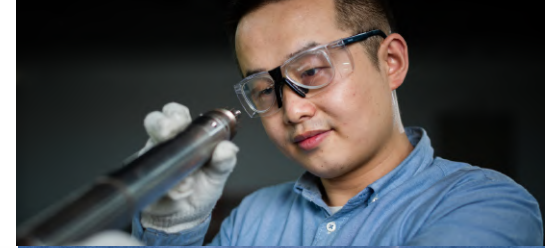
# NOTES

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# Local Support Global Reach



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