

Unmanned but not unwatched Remote but not out of reach

When cost control is a concern but good geological data a necessity, **Diversified Well Logging** delivers that data with its unmanned, remote services.

For gas, DWL offers the **Bloodhound®**. Popular and portable, this gas instrument measures C₁-C₅ with remote data transmission.



For cuttings there is the **ARM™**. Diversified's fully automated cuttings catcher and storage device that allows hi-resolution sample collection at any rate of penetration.

AND ... our remote **Wellbore Surveillance Services** provide realtime well monitoring along with pre and post-well model building and analysis. With DWL *not* at the rigsite you can be assured that we still deliver excellent service.



BLOODHOUND

The Bloodhound® gas detection and logging system is based on patented next generation infrared sensors that are light years ahead of the older hotwire, FID or Pellister based gas sensors. No other mud logging gas detection system uses this technology that makes it possible to create a system without peer in sensitivity, precision chromatography, reliability, portability, ruggedness, accuracy, and ease of use.

View real-time logging data via the Internet anytime, anywhere. The Bloodhound connects via Ethernet, satellite or Cellular wireless for instant access world-wide to the Bloodhound System. The Bloodhound can also connect your computer to the Internet with the Integrated Wireless System.

Data is stored locally in the Bloodhound, at the server system, and in the connected computer. The Data is stored in an industry standard comma-delimited form for compatibility with Well Sight Systems, MainLog and all other mud logging software via LAS and XLS files.



ARM

With the Automated Remote Mudlogger - ARM™ technology, we can offer the luxury of high-resolution sample collection and cost efficiency. It has been deployed on over 30 onshore wells in the USA and has collected cuttings with a greater than 300% improvement over manual collection.

The ARM collects 20-30 grams of cuttings up to once a minute. The sample is washed, bar-coded, wrapped and stored on a 300-sample reel. This reel is easily replaced by one of DWL's technicians.

For geologists, the benefits of the ARM are clear.

- More samples than traditional mud logging
- Better data definition on every well
- Ease of shipment for geochemical analysis
- Geochem performed in lab conditions
- Formation evaluation at an economical price
- Save on coring and LWD costs
- Exact correlation from well to well, pad to pad



SURVEILLANCE

Our remote Wellbore Surveillance Services provide measurable cost benefits for every client and well.

Our methodologies rely on good, constant communication with the client at each step

- Pre-well planning
- Real-time surveillance and analysis
- Post-well evaluation

The success of the service begins by creating a static model of the well from reliable, geopressure and geomechanical data from offset wells.

In realtime, constant input of new information allows for better understanding of downhole well conditions and changes. Ongoing realtime interpretation and analysis allows for the opportunity to mitigate predicted NPT events – many times 'ahead of the bit'.



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