

## **Sensor Data Provides Valuable Evidence of Proper Procedures**

Sensor data that is captured and remotely monitoring on a service rig can provide valuable evidence that proper operating procedures are followed. This case study covers an example of one such event where the data itself easily proved that the operating crew used the correct procedure and that the failure was not due to improper operation of the rig.

### **Situation**

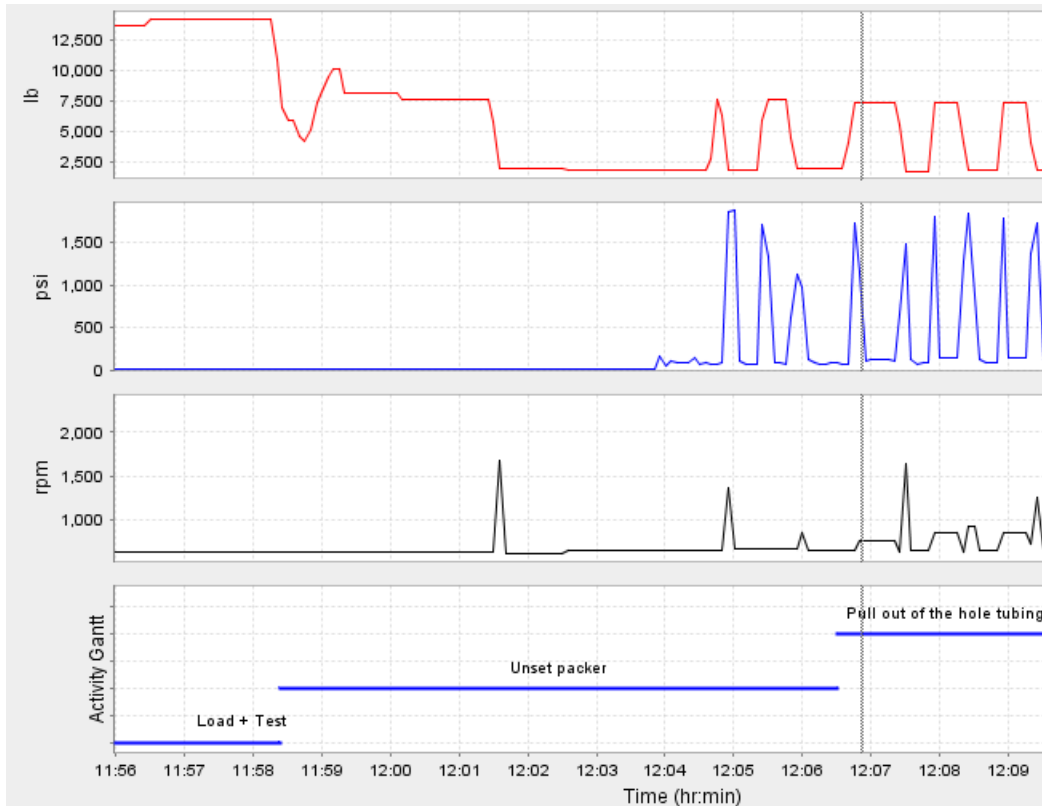
Recently, a rig outfitted with ProphetRMS was questioned if the cement retainer was used in an appropriate manner by the operating crew. Typically, an operational procedure such as this has no direct evidence or proof to indicate if the proper procedure was followed or not and the results is that costs associated with the work are often up for debate as to who is responsible for the work or rework when necessary.

### **Solution**

This particular rig having ProphetRMS installed on it was fortunately logging all of its operating parameters and available remotely on the ProphetRMS web portal. The sensor data was reviewed online at the time of that activity and it was easy to discover that the crew had properly installed the cement retainer according to proper operating procedures and that the cement retainer has failed due to other means, not the fault of improper operations by the crew. This was an immediate relief to the crew and parties involved were then able to explore other reasons that led to this situation.

### **Supporting Sensor Data**

An example of the sensor data used as evidence to determine whether this retainer was done properly is shown below. This is just a small sample of the available sensor data that can be used for investigations and continuous improvements with a ProphetRMS enabled rig.



## Benefits

The benefits in this example were experienced by the producer and service operator as there was no doubt that proper procedures were followed and any doubt in the service crew's claims of following procedure were immediately dismissed. This allowed further investigation to be performed on both the sensor data and operationally to assure parties involved that the failure was due to other reasons, in this case, mechanical failure.

## Cost Savings

No directly measurable cost savings could be attained from this incident but the assurance in trust and communication of proper procedures was easily reinforced and in less than an hour of investigation, operating procedures could be reviewed and confirmed where doubt and review would have otherwise led to hours of wasted effort and discussions.