



## Performance Monitoring & Optimization: Improved Availability

### BACKGROUND

Axip provided five compression and dehydration units to a station in the Rockies. This station conducted pigging operations every two to three days, which caused a spike in upstream pressure at the filter separator each time.

Operating conditions indicated that pigging operations were generating even more significant pressure spikes during well workover operations, suggesting a more frequent pigging schedule was needed.

### CHALLENGES

During one well workover operation, the amount of liquid brought in by the pig exceeded the capacity of the slug catcher, overwhelming it and both station separators, as well as blowing out the two inlet filter separators in the Axip station, and flooding the first and second stage scrubbers of each unit.

With equipment damaged and production interrupted, the incident caused 32 hours of downtime plus the cost of parts and labor to clear water from cylinders and pistons, then the cost of repairs or replacements. Identifying the cause and preventing another incident was imperative.

Armed with data from the Axip COMMAND™ performance monitoring system and technician analysis, Axip was able to verify that during well workovers, unsustainable spikes in pressure were generated when pigging operations were conducted only every two or three days. This led to a discussion of whether the existing pigging schedule was adequate. Solutions included unloading more water at the wellhead, especially while reworking wells and potentially shutting down the station during pigging.

### ADVANTAGE

Performance monitoring provided actionable information to the customer for improving efficiency and throughput during routine operations, and has led to enhanced performance at the station. Communication between Axip and the customer has improved through weekly operational meetings to review runtime reports, pressure and flow data, and to discuss the impact of planned operations so actions can be coordinated to minimize downtime — leading to improved performance and operational reliability.

**Axip Energy Services** 919 Milam, Ste 850 Houston, TX 77002 / 832.294.6500 / Toll-free: 855.545.8100 / info@axip.com



### LOCATION

Colorado, USA

### PRODUCT LINES

Contract Compression,  
Dehydration,  
Performance Monitoring

### SCOPE OF WORK

Response to onsite incident,  
ongoing follow-up

### CONTRACT TYPE

Contract Services

### DELIVERY TIMELINE

Immediate, ongoing

### COMPLETION DATE

2013

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