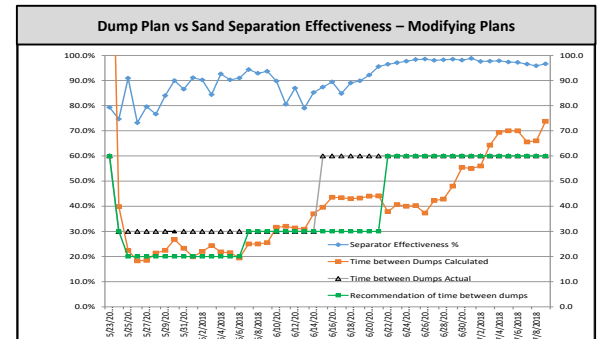
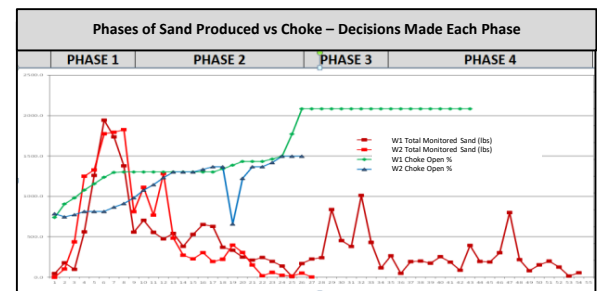
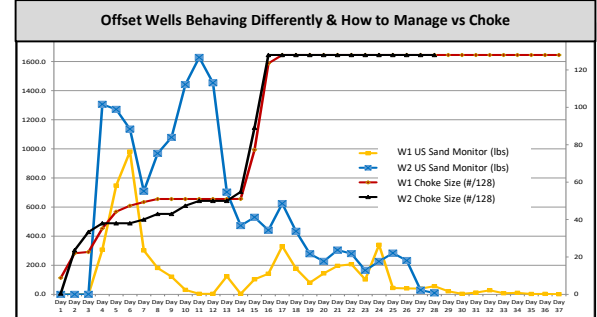
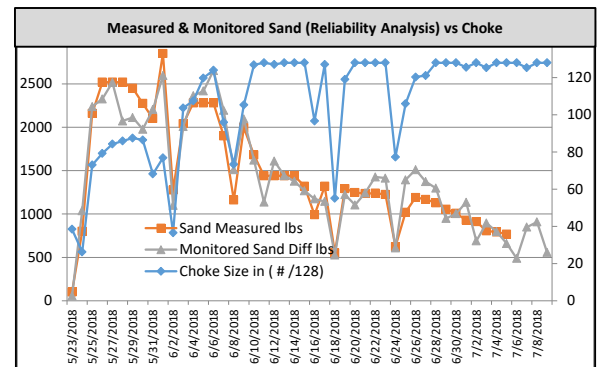
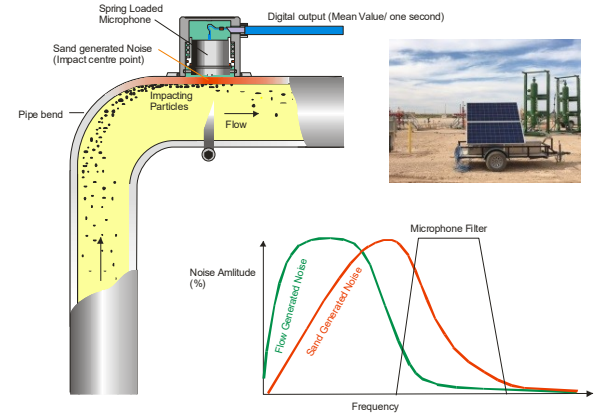


# Well Testing – Sand Production & Management



## Operating Features:

1. Evaluating equipment performance
  - Evaluation of Sand Separators (5k and 10K) to make fit for purpose decisions
  - Evaluation of system performance to help our customers understand and make equipment and personnel decisions
2. Find technology and processes that can help our customers manage better
  - Manpower in field in short supply (pumpers & well testing personnel)
  - Reducing costs by optimization and efficiency of flowback and well testing operations
    - Right equipment for the right period of time
    - Right number of personnel for the right period of time
  - Delivering timely information to keep sand out of their systems
    - Identifying flow regimes & carryover risks
    - Identifying slugs to capture & dump
  - Deliver data that helps our clients manage
    - Sets clear decision points based on agreed to limits
    - Easier decision making with real data
    - Help eliminate and schedule equipment for next job with clear real time data
3. Technology used
  - Acoustic sensors are externally mounted after a bend to monitor noise. The noise is filtered to be predominantly from sand and a function of pipe ID, velocity and sand volume
  - Off the grid power and communication is used to allow data to be viewed real time and downloaded anytime
4. Deliverables
  - Daily sand volumes & recommendations
  - Alarms when sand limits exceeded – especially used in manless monitoring
  - Weekly report with trends
  - Final reports to:
    - Evaluate well sand production
    - Compare to well offsets
    - Set next well plans / procedures.



## You Require. We Respond.

Greene's Energy Group, a completions and production-focused business servicing exploration and production companies, is ready to help with your next project in the Permian Basin, South Texas and other serviceable locations.

Greene's Energy Group values experience, knowledge, responsiveness and attention to safety as the keys to being a successful oil and gas service company.

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