



M3 Noise Solution™

Measure, model and mitigate noise.

- Our M3 Noise Solution™ process identifies potential problems and helps evaluate cost-effective solutions:



Measure, model, mitigate noise

In the oilfield, we help you be a good neighbor by first measuring and modeling the potential for noise pollution and then engineering solutions that mitigate noise from a level of agitation to a level of comfort.

- **Measure:** Ambient sound levels are recorded prior to site construction.
- **Model:** Rig and equipment sound signatures from a proprietary noise library are used to build a predictive sound model before the wellsite is built or equipment is deployed. The model is used to optimize site and equipment layout to minimize noise.
- **Mitigate:** If needed, sound suppression technologies are designed and implemented. About 75% of the time noise can be suppressed without barriers.

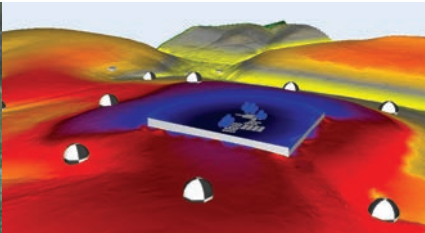
- We conduct an ambient survey before operations begin.
- Our library of proprietary sound signatures and software accurately maps noise levels around your location.
- Engineering professionals advise the most cost-effective solution to mitigate noise and visual impacts in problematic areas.
- We determine the appropriate sound suppression technologies to implement. About 75% of the time noise can be suppressed without barriers.
- We monitor your operations when they are near private or public structures to prevent complaints, be legally compliant and forestall civil actions and lawsuits.

You can rely on our acoustical consulting and engineering services, and our rapid-response surveying and implementation teams ensure a quiet neighborhood stays that way.

Features:

Multiple field noise data acquisition platforms

- Frequency analysis
- Advanced sound logging (profiling of equipment)
- Real-time sound recording
- Ability to perform multi functions simultaneously



Features continued:

State-of-the-art 3D noise-predictive software

- Calculate and assess planned operations for permit purposes
- Anticipate and prepare plan of action for problematic areas
- Predict impact of new process and minimize risk
- Adjust models with changing variables

Temporary and permanent sound barriers

- Standard and premium walls
- Modular compressor enclosures

The M3 Noise Solution includes a Sound Impact Assessment that defines site and equipment layout parameters:

- Well and meter locations
- Ambient sound levels
- Predictive sound models
 - Equipment sound signatures
 - Before-and-after noise mitigation plots
- Noise mitigation recommendations
- Site photos
- Noise time series plots



- After mitigation work, decibel levels are below a level of agitation behind the sound barrier.
- Premium sound barrier walls, certified by third-party accredited laboratories, mitigate noise and keep operations out of sight.
- Certified modular compressor enclosures are engineered to suppress the acoustic signature of the equipment.
- Drilling, completion or compressor noise greater than 55 dB at the wall of a residence, commercial or municipal property may create a level of agitation. Oilfield Noise Mitigation™ products and services lower noise from a “level of agitation” to a “level of comfort.”