MicroSeismic
Passive Monitoring, *Active Listening*

October 19, 2026

San Augustine County, Texas

Re: Temporary surface placement of monitoring cable on County Road R.O.W.

Attention: Commissioner's Assistant.

Dear Ms. Wells,

MicroSeismic, Inc. has been contracted by BP Exploration to monitor the treatment of wells it is going to drill in San Augustine County, Texas.

MicroSeismic, Inc. is in the business of real time, passive monitoring of wells during the treatment process, this real time recording allows for a safe operation and provides optimum production of the wells being treated.

The procedure involves the deployment of thousands of sensors connected to monitoring cable spread over several miles radiating from the well in a star shaped pattern. These sensors record the noise created by the well treatment and the monitoring cable transfers the signals from the sensors to the recording truck.

The information computed in this monitoring process tells the operator in real time the direction and intensity of how the rock is being broken during the treatment process. With this real time information, the operator has the ability to make adjustments to the treatment process allowing for optimum control of the procedure.

The equipment (sensors and cable) are deployed to the locations by ATV's and placed on the ground by hand and foot.

The monitoring cables must be connected together at all times in order to send signals back to the recording truck. There can not be any breaks in the cable. Therefor we are asking for permission to temporarily place these sensors and monitoring cables where necessary, along the non-travelled parts of the County Road Right of Ways. Cables are placed up alongside private property fence lines far away as possible from the travelled parts of the right of way. When crossing the County Roads, we will use culverts to pass the cable under the roads where culverts are available.

The programs are scheduled for early March, of 2027 and the cable would remain on the ground for approximately 30 days for each program. In the event some maintenance is required along the right of way, our crew is available 24/7 to remove and replace the cable when necessary.

Our operation does not leave a footprint, the operation does not require any heavy equipment, there is no drilling, no trenching and we do not move any earth.

Please find attached a map of the programs and a company brochure. Please feel free to contact me at any time if you should require any further information.
We have been granted permission and worked with many Texas Counties and Louisiana Parishes over the years with respect to this procedure.

Regards,

Jake Fadeley
Permit Agent for MicroSeismic, Inc.
Hjfad@aol.com
713-304-3044

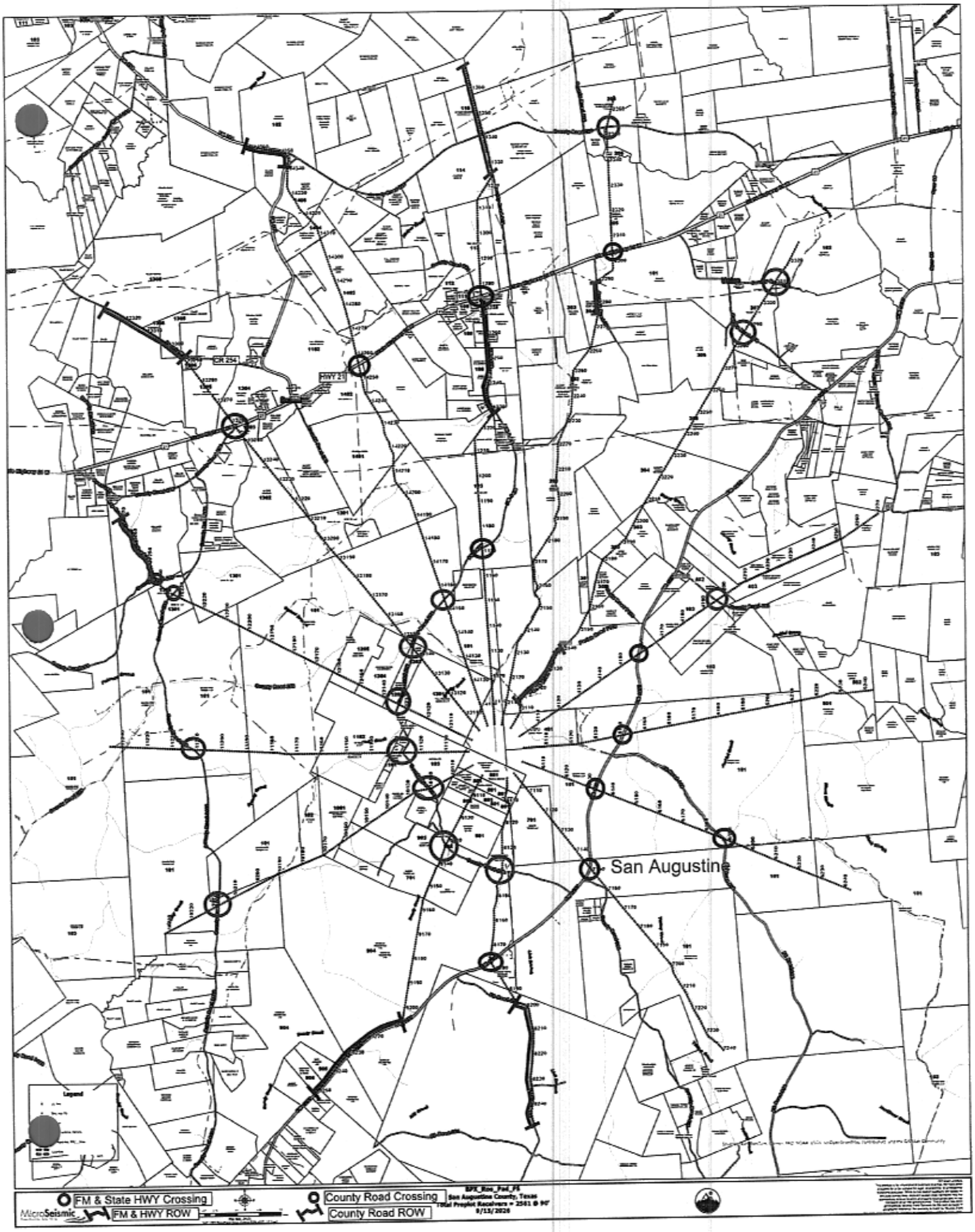
MicroSeismic Inc, & BPx Roo Well Monitoring program:

San Augustine County Road crossings.

CR, 219, 220, 255, 257, 258, 272, 274, 278, 279, 333, 336,

354, 3100.

Parish Rd. 71120


CR 254
HWY 21
San Augustine
Legend
FM & State HWY Crossing
FM & HWY ROW
County Road Crossing
County Road ROW
MicroSeismic
BPX_Rec_Pad_F5
San Augustine County, Texas
Total Project Receivers = 2561 @ 90°
9/13/2024

MONITORING WITH MICROSEISMIC, INC.



Temporary FracStar® array design depicting sensor placement.

MICROSEISMIC DOES:

- Professionally design surface arrays and distribute sensors
- Rapidly deploy temporary cables (about the same diameter as an extension cord) with sensors
- Listen for vibrations caused by well stimulation
- Produce professional images of how rocks break in a reservoir
- Monitor well stimulation in order to help clients make informed decisions

MICROSEISMIC DOES NOT:

- Utilize traditional, active monitoring with heavy vibrator trucks
- Use heavy machinery or explosives
- Drill additional wells
- Record reservoir data used to interpret reservoir structures or properties
- Permanently install sensors for FracStar® designs
- Create unnecessary noise - our recording equipment works best in quiet settings

OUR CREWS IMPACT ON PROPERTIES



Dedicated crews of highly skilled professionals laying cables and sensors in a star-like pattern.

Surface-based, passive monitoring is the environmentally conscious method to monitor well treatments. Unlike other monitoring techniques, passive monitoring does not require the drilling of additional wells or the use of heavy recording equipment.

- Data not recorded for use to identify hydrocarbons or depositional structures under properties
- Our employee's top priority is protecting the land and ensuring environmental sustainability
- Monitoring well stimulations results in a safer, more efficient extraction process
- MicroSeismic's process is designed specifically to monitor activity in and around the wellbore during stimulation

CREWS AND EQUIPMENT



The temporary deployment of cables and sensors leaves minimal disturbance to property and the environment.

MicroSeismic's surface-based monitoring equipment is installed by professional field operations crews who strive to "leave no trace."

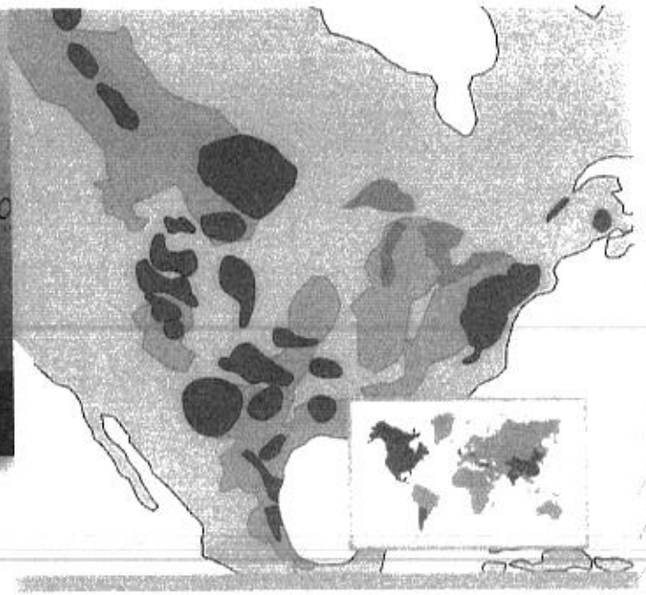
- Dedicated crews of 12-15 highly skilled professionals rapidly deploy and retrieve cabled sensors
- Only requires surface permitting
- Professional surface arrays designed to distribute sensors with minimal intrusion on property
- Monitoring equipment requires little interference with existing structures on property

HOW OUR EQUIPMENT WORKS

- Sensors are attached to cables that run several thousand feet per line
- Cables and sensors are laid out in approximately 10-12 lines (varies by design)
- Sensors are similar to stethoscopes; they are placed on the surface to listen to the rock breaking during well stimulations



WHO IS MICROSEISMIC, INC.?



MicroSeismic, Inc. is an oilfield services company providing real-time monitoring and mapping of well stimulation operations in unconventional oil and gas plays.

- Pioneer in passive monitoring activity with surface and near-surface arrays
- 10 years of experience
- Neutral, third-party vendor providing non-invasive monitoring
- Monitored over 15,000 stages since 2010 in every major shale play in North America
- Over 300 customers in 9 countries
- Remains a trailblazer in industry consistently introducing new microseismic monitoring technology

Our Purpose: Provide analysis to oil and gas companies on how their reservoir is responding to stimulation and its impact on the environment.

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Informational Guide for Passive Well Stimulation Monitoring Permits

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