

# Pre-Drilling Geophysical Exploration Submittal Package

Items to include for the Oil and Gas Commission's consideration:

- Lessee or operator contact information.
- Geophysical exploration company (include contact information for company and the Party Chief).

- Location Description (with map(s) attachment(s))

*Give the general land description of the lands involved. You should also submit an electronic map (in PDF) with a minimum scale of one inch per two miles showing the general area and project location. We recommend a PDF version of 7-1/2 minute USGS quadrangles. Map(s) data should include clearly attributed locations of operations and facilities, including staging areas, access routes to and within the project area, source and receiver point locations and lines, shot point locations, surface ownership, and any Federal lands under lease. You should identify separately the number of Federal surface, state surface, and other surface acres within the project area, and the estimated acreage of surface disturbance.*

- If you are proposing seismic exploration, how many miles of source line (2-D), or acres (3-D) (to the nearest 10 acres) of survey do you anticipate?

- When do you anticipate starting exploration? How long do you anticipate the project to last?
  
- Describe any of your critical timeframes associated with the proposed project (such as equipment or contractor availability).
  
- Type(s) of survey (i.e., seismic 2-D, seismic 3-D, gravity/magnetic, other) and description.
  
- Survey method (i.e., explosives, seismic vibrator, other).
  
- For explosive shot holes:
  - What type and amount of explosives per source will you use?
  
  - What shot point pattern and spacing will you use?
  
  - What will be the shot hole depth?

- What type of receivers (wired/wireless) will you use and how will they be transported and placed?
- What will be the receiver and source spacing and spacing between the source and receiver?
- If applicable, what will be the seismic source and transport method(s) (i.e., seismic vibrator trucks, pick-up truck, drill buggy, ATV/UTV, helicopter, backpack)? Also, describe your seismic source and transportation plans, including types of vehicles, numbers of vehicles for each aspect of the project, routes, and methods you will use to access the project area.
- Describe your operating procedures, including how you will minimize surface impacts. Describe staging areas and support facilities you need, such as helispots, temporary camps, equipment storage; fuel storage; powder magazines; construction of roads or trails; proposed plugging procedures for shot holes; waste management and spill prevention; reclamation; and general clean-up procedures.

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Return document package to:

NC DEMLR/Oil and Gas Program

1612 Mail Service Center

Raleigh, NC 27699-1612

- Or, as email attachment(s) to –

oilandgas@deq.nc.gov