

## Recommended Information Submittals for Geophysical Exploration Projects\*

- ❖ Geophysical Projects **NOT** including Temperature Gradient (TG) holes
- 1. Completed 3200-9 Notice of Intent to Conduct Geothermal Resource Exploration Operations (NOI form)

Provide the following information, per 43 CFR 3251.11:

2. Start date and end date
3. Legal land description Meridian Township Range Section (MTRS)
4. Surface ownership including other surface management agencies (e.g. USFS, BOR, etc.)
5. Geothermal Lease numbers to be affected if applicable
6. **Detailed** description of equipment to be used including size and weight of vehicles. Also include description of staging, and lay down areas,
7. Length and width of access roads to be developed or maintained, cross country access roads (if cross country, how many trips across the road will be taken)(Use Gold Book standards for roads)
8. If possible, photographs of the equipment to be used and photos of the disturbance created by the equipment
9. Estimate of acres to be disturbed, including dimension of disturbance (e.g. pit sizes)
10. Hard copy and electronic copies of an overview map and a 1:24,000 scale contour map that includes: title, MTRS, scale, legend, land status, lease boundary, location of disturbance, existing and proposed roads, overland travel routes, point data (where receivers, or other equipment will be placed, locations of laydowns and staging areas.
11. Shape files with complete metadata (including data projection, map author, and date of creation)
12. Detailed description of the environmental protection measures and best management practices (BMPs). If referencing BMPs in other documents, sight source (include edition and page number).
13. Describe methods to reclaim the surface.

\* Based upon this information, it may be determined that the project is casual use and does not require an NOI, however this determination is made on a case-by-case basis.

## ❖ TG Holes

1. Completed 3200-9 NOI (*note: One NOI form can be used for multiple temperature gradient holes*)

Provide the following information, per 43 CFR 3251.11:

2. Description of disturbance proposed, which may include:
  - well site layout and design; include dimensions of well pads, grading that will be required for pads, a diagram showing the layout of equipment and supplies on the well pad;
  - sumps; including dimensions and volume of fluid to be contained by sump;
  - staging/ lay down areas; dimensions of these areas, or whether existing well pads will be used to store supplies;
  - worker camps; dimensions of this area or whether existing well pads will be used;
  - roads; length and width of access roads and any road turnouts to be developed or maintained, culvert designs and placement, whether Right of Ways (ROWs) will be required, cross country access roads (if cross country travel, how many trips will be taken)(Use Gold Book standards for roads, but sight page number and Gold Book edition used);
3. Estimate of acres to be disturbed, including dimension of disturbance (e.g. pit sizes)
4. **Detailed** description of equipment to be used including size and weight of vehicles.
5. Start date and end date
6. Legal land description Meridian Township Range Section (MTRS)
7. Surface ownership including other surface management agencies (e.g. USFS, BOR, etc.)
8. If possible, photographs of the equipment to be used and photos of the disturbance created by the equipment
9. Hard copy and electronic copies of an overview map and a 1:24,000 scale contour map that includes: title, MTRS, scale, legend, land status, lease boundary, location of disturbance, existing and proposed roads, overland travel routes, point data (where receivers, or other equipment will be placed, locations of laydowns and staging areas).
10. Hard copy and electronic copies of map that includes: MTRS, scale, legend, land status, lease boundary, location of disturbance, existing and proposed roads, overland travel routes, point data (where receivers, or other equipment will be placed, locations of laydowns and staging areas, contour maps, 1:24,000 scale, overview map, title,
11. Shape files with metadata (including data projection, who created map, and date of creation)
12. Geothermal Lease numbers to be affected if applicable
13. Depth of each well
14. Casing and cementing program (*to be reviewed by PE*)
15. Circulation media (*mud, air, foam, etc.*)(*to be reviewed by PE*)
16. A description and diagram of the blowout prevention equipment to be used during drilling (*to be reviewed by PE*)
17. Description of logs to be run (*discuss whether to be required by PE*)
18. Expected depth of fresh water zones
19. Anticipated loss circulation zones

20. Anticipated TG in the area (*if known*)
21. Diagram/map of well site layout and design
22. Source of drill pad and road material (i.e. construction aggregate source)
23. Water Source documentation
24. Bond coverage information
25. Detailed description of the environmental protection procedures and best management practices (BMPs). If referencing BMPs in other documents, sight source (include edition and page number)
26. Reclamation measures including
  - Recontouring of roads back to original contour, seeding, controlling noxious weeds, and may also include other techniques to improve reclamation success, such as ripping, scarifying, replacing topsoil, constructing waterbars, pitting and barricading, and reseeding measures.

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