Ohio Department of Natural Resources
Division of Oil and Gas Resources Management

# GROUND WATER DISRUPTION INFORMATION

## Decreased Supply and Siltation

A decrease in available water volume from a well or spring can occur as the result of natural or man-generated events. A decreased water volume is usually related to long-term changes within an aquifer that are not related to oil and gas well drilling operations. For example, in shallow aquifers, a drought of several months allows depletion of water supply by lowering that natural water table. With lower water tables, pumping a well will cause greater turbulence and can result in more suspended silt in the produced water. Increased usage of an individual well may also cause a temporary decrease of water volume. On a regional scale, increased usage of an aquifer through suburban or industrial development may cause a permanent decrease in available water volume.

De-watering of an aquifer by an oil and gas well drilling requires very unique circumstances within the aquifer. When this does occur, the area affected is very restricted. The Division is interested in determining the cause of your water supply disruption. Answers to the attached questionnaire will help the Division determine the cause of your water supply problem.

## GROUND WATER DISRUPTION QUESTIONNAIRE

### Diminution and/or Siltation

1. When did you first notice that your water supply had diminished?

   Date: _____ Time: _____

2. What indicated that you were losing your water supply?

   _____

   _____

3. Quantity of water <u>prior</u> to problem:

   a) Have you ever had yield problems before? Yes ☐ No ☐
   If yes, when and how severe?

   _____

   _____

   _____

   b) Do you normally have seasonal or periodic changes in water yield? Yes ☐ No ☐
   If yes, please describe.

   _____

   _____

   c) Have you always had enough water to meet your needs? Yes ☐ No ☐

   d) Has your well been serviced? Yes ☐ No ☐
   If so, who, when? how often? what was the nature of the service?

   _____

_____

_____

4. Describe the quantity of water currently in terms of yield or recovery of supply?

_____

_____

5. Describe your water quality before you had supply problems.

Odor: _____ Color: _____

Iron fixture stain or deposits: _____

Carbonate (white) fixture deposits: _____

Suspended Material: _____

Other:

_____

_____

6. Describe your water quality now.

Odor: _____ Color: _____

Iron fixture stain or deposits: _____

Carbonate (white) fixture deposits: _____

Suspended Material: _____

Other:

_____

_____

7. Has there been an increase in suspended material? Yes ☐ No ☐
If yes, please collect a sample in a glass jar labeled with the date and time of sample collection for our future observation. Samples collected: Yes ☐ No ☐

8. Has the well been serviced since the problem occurred? Yes ☐ No ☐
If so, by whom, when, and what was the nature of the service?

_____

_____

_____

_____

_____

Was the pump pulled? Yes ☐ No ☐ If so, what condition was it in?
Was there sand, carbonate deposits, iron encrustation or corrosion?

_____

_____

Is the pump available for inspection? Yes ☐ No ☐

9. Have any of your neighbors had similar problems? Yes ☐ No ☐

If yes, please describe.

_____

_____

_____

_____

_____

10. Has private or industrial water use in your area increased recently, (e.g. filling a swimming pool, increased number of local water wells in your area, surface mining operation, etc.)? Yes ☐ No ☐ If yes, please explain.

_____

_____

_____

_____

_____

11. Other comments:

_____

_____

_____

_____

_____

_____

_____
Signature

_____
Date