

Instructions for Permit Application for
Proposed Oil and Gas Development on Lands Located Within
Designated Floodplain Areas

To comply with the Canadian County Floodplain Regulations and to minimize potential flood damage, if you are building within an identified flood hazard area, you must agree to construct your proposed development in accordance with the following provisions:

1. For **ALL STRUCTURES**, the foundation and the materials used must be constructed to withstand the pressures, velocities, impact, and uplift forces associated with the 1% Chance flood.
2. All **UTILITY** supply lines, outlets switches, and equipment must be installed so as to minimize damage from potential flooding.
3. You must submit **CERTIFICATION FROM A LICENSED ENGINEER** that the flood protection requirements have been met. Failure to provide the required certification is a violation of this permit.
4. **Other provisions** – See the attached list Instructions for Oil/Gas Floodplain Development

AUTHORIZATION:

I have read or had explained to me and understand the above special provisions for floodplain development. Authorization is hereby granted the permitting authority and their agents or designees, singularly or jointly, to enter upon the property described on the application during daylight hours for the purpose of making inspections or for any reason consistent with the issuing authority's floodplain management regulation. I further verify that the information provided by me on the application is true and accurate to the best of my knowledge and belief.

Signature of Applicant

OIL AND GAS FLOODPLAIN PERMIT APPLICATION

For Proposed Development on Lands Located within the Floodplains of Unincorporated Canadian County

Date _____ Phone Number _____ Fax _____

Applicant _____

Mailing Address _____

Address/Location/Legal Description of permit site: _____

Applicant Requests To:

- Construct Construct Addition Remodel Elevate Demolish
 Place Manufactured Housing Burial, Pipeline or Cable Drill Mine
 Add Fill Storage (Equipment or Supplies) Excavate Other

List Type and Purpose of Development _____

Is site to be located in an identified Special Flood Hazard Area (Regulatory Floodplain)?

Yes No

If yes, complete the following:

Engineer _____ Contractor _____

Base Flood Elevation _____ Natural Elevation of Site _____

Proposed Built Pad Elevation _____

Name of Community _____ NFIP Community Number _____

Flood Map Effective Date _____

Flood Zone Type: AE A B C X Other

Community Panel Number _____

Is site to be located in an identified floodway? Yes No

If yes, you must demonstrate through an engineering study that there will be no increase in flood heights during the discharge of the 1% Chance flood caused by your development.

Plans, specifications, and application for permit filed by the applicant shall constitute by reference a part of this permit.

Signature of Applicant Date

Office Use Only:

Permit Fee _____ Has permit fee been collected? Yes No

Approved By _____ Permit Number _____

INSTRUCTIONS FOR OIL AND GAS FLOODPLAIN DEVELOPMENT

No development shall occur in the floodplain until a floodplain permit is issued or you have received a letter from the Floodplain Administrator giving you permission to begin work prior to issuance of the permit.

Fill out and sign the permit application form (both pages).

Include with permit application:

- Detailed set of plans and specifications, including flood protection measures designed by a licensed engineer.
- Elevation Certificate signed and sealed by Certified Engineer.
- Copies of other required permits including those from the Corporation Commission (permit to drill when it becomes available) and 404 permit from US Army Corps of Engineers (if needed.)
- Copy of Spill Prevention and Counter Measure Plan (optional).
- Emergency Evacuation Plan (optional).

All structures and pieces of equipment in the 1% chance/100-year floodplain must be designed in a manner to reduce or eliminate flood damage, e.g. anchoring, or elevated.

A base flood elevation (BFE) must be established and elevation and/or flood-proofing of equipment must be to the BFE.

If the drilling and/or production site is in the floodway, you must demonstrate through an engineering study that there will be no increase in flood heights during the discharge of the 1% Chance flood caused by development.

Flood protection measures must include the following: 1. Tank batteries and other equipment installed at the site in the floodplain shall be tied down to prevent flotation and lateral movement. 2. Protection around any vulnerable equipment such as the well head must be installed to keep flood debris from damaging equipment which could release product into floodwaters or send equipment floating downstream (may be required in high velocity flood areas only, at the discretion of the floodplain administrator).

Pipelines must be buried and maintained at least 48 inches, 72 inches under rivers and creeks. A Statement of Burial Depth Compliance is required. Above ground valves and meter runs may require a flood debris protection fence.

A closed pit system is required.

Any material stored on the site that is highly volatile, flammable, explosive, toxic, or water reactive should be protected to at least the level of the 500-year flood.

Drill site pad and road to well do not need to be elevated but should not obstruct the natural flow of water (i.e. install culverts and flood control devices as needed). A culvert must be installed in the barrow ditch where the lease road meets the county road.

Tree and brush debris may need to be removed from the floodplain or burned.

After drilling and production site are completed, the Compliance Certification Form, filled out by a registered professional engineer, must be submitted, including a list of all production equipment on site. Submit Elevation Certificate if anything was elevated above the BFE. The floodplain administrator will inspect the site again at this time.

This office must be notified if equipment is added after completion. If site is sold or assigned this office must be notified. A recomplete will only need a permit if new production equipment is added to an existing site.