

## Additional Floodplain Permitting Provisions for Oil & Gas Development

In addition to the requirements of the regular Floodplain Development Application, some or all of the follow will apply depending on the nature of your proposed development. Initial each item below to indicate your understanding & acceptance of the following provisions:

\_\_\_\_\_ Occupied Structures & Facilities – Lowest floor must be elevated to at least 1 foot above BFE. Engineer must certify no impact as required by application.

### Tanks, Equipment & Other Non-Occupied Structures

\_\_\_\_\_ For any development remaining below BFE – All tanks, equipment & non-occupied structures must be flood-proofed: watertight, resistant to hydrostatic, hydrodynamic & buoyancy loads, and anchored. Tank batteries and other equipment installed at the site in the floodplain must be tied down to prevent flotation and lateral movement. 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.

\_\_\_\_\_ For any development to be elevated by fill above BFE – The flood-proofing criteria are recommended but not required. Engineer must certify no impact as required by application.

\_\_\_\_\_ Electrical, Plumbing & HVAC – Must be designed or located to prevent floodwaters from entering or accumulating.

\_\_\_\_\_ Water Supply Systems – Must be designed to minimize or eliminate infiltration of floodwaters into the system.

\_\_\_\_\_ Sanitary Sewer Systems – Must be designed to minimize or eliminate both infiltration of floodwaters and discharge from the systems into floodwaters.

\_\_\_\_\_ Waste Disposal Systems – Must be located to avoid impairment to them or contamination from them during flooding.

\_\_\_\_\_ Closed Mud Pit System – A closed mud pit system must be used.

\_\_\_\_\_ Pipelines – Must be buried at least 48 inches, 72 inches under rivers, creeks, streams & other drainage channels.

\_\_\_\_\_ Highly Volatile, Flammable, Explosive, Toxic, or Water-Reactive Materials – Any of these materials stored on-site should be protected to at least the level of the 500-year flood.

\_\_\_\_\_ Drill Site & Road to Well – Do not need to be elevated but also should not obstruct the natural flow of water (i.e., install culverts & flood-control devices as needed). A culvert must be installed in the barrow ditch where the lease road meets the public road.

\_\_\_\_\_ Tree & Brush Debris – These must be removed from the floodplain or burned. After drilling is complete and site is built, a second set of post-construction EC's & FC's for all elevated and flood-proofed equipment & structures, sealed by your licensed engineer, must be submitted. We will inspect the site again at this time.

\_\_\_\_\_ The developer shall provide a list of equipment installed at the site after completion. The City must be notified if equipment is added after construction. The City must be notified if the site is sold or assigned. A recompletable will only need a permit if new production equipment is added to an existing site.

\_\_\_\_\_ As per ordinances, City staff may inspect any oil & gas site at any time before, during & after construction without prior notification.

### CERTIFICATION & ACCEPTANCE

I have read or had explained to me, understand, and accept the above provisions for oil & gas floodplain development within the City of Tuttle.

Applicant Signature \_\_\_\_\_ Date \_\_\_\_\_