

CONDITIONS OF APPROVAL FOR PERMANENT WELL ABANDONMENT

**A COPY OF THESE CONDITIONS SHOULD BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO ENSURE COMPLIANCE**

Failure to comply with the following conditions of approval may result in a Notice of Incident of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. All plugging and Abandonment operations shall be conducted per OO#2.III.G. and 43 CFR 3160 and completed by 12/1/2016.
2. Approval for this operation must also be obtained from the Colorado Oil and Gas Conservation Commission.
3. This office should be notified sufficiently in advance, 48 hour minimum of actual plugging work, so that a representative may have an opportunity to witness the operation. Primary point of contact should initially be Bud Thompson.
4. Upon completion of approved plugging, all casing shall be cut-off at least 4 feet below final restored ground level and attach the regulation marker plate (**4-inch pipe above ground will not be allowed**) in accordance with 43 CFR 3162.6 and OO#2.III.G.10. The top of the marker must be closed or capped and have a weep hole. Pits must be fenced unless approved otherwise by the authorized officer.
5. The following minimum information shall be permanently placed on the marker with a plate, cap, or beaded-on by welding:
 - a. Operator Name
 - b. Federal Lease Serial Number
 - c. Well Number
 - d. Location by ¼¼, Section, Township and Range or other Acceptable Surveyed Description.
6. Within 30 days after well bore plugging operations are completed, a Subsequent Report of Abandonment, For 3160-5, must be filed showing the date of the abandonment operation, location of plugs, amount of cement in each plug, the amount of casing left in the hole and the **GPS coordinates for location of wellhead**.
7. Prior to abandonment reclamation work, the operator shall submit a sundry notice describing their proposed reclamation plans. The plan must be approved prior to beginning any reclamation of the well site. If the approved APD contains a reclamation plan, you can reference it in your submission. Do not conduct any well pad or access reclamation without an approved reclamation plan for the subject well.
8. If not previously filed, submit in duplicate, Well Completion or Recompletion Report and Log, Form 3160-4, well history, electric logs, and other surveys, and if taken, core analysis and water analysis. These reports must also be filed within 30 days after completion of plugging operations.
9. All trash, junk, and other waste material shall be contained in trash cages or bins to prevent scattering and shall be removed and deposited in an approved landfill.
10. Port-a-pots will be provided on the well site during operation. All human waste will be hauled offsite and disposed of properly.

11. The procedure will be modified as follows:

- All plugging cement shall be **15.8 ppg class G (1.15 yield)**
- Cement plugs with questionable integrity must be tagged with the work-string
- Pressure test the casing prior to shooting the holes @ 3465'
 - o Holes in Casing must be located and remedied with a plug; consult with this Field Office
- Do **not** use a retainer for the surface casing shoe plug – use balance plug to place cement 50' above and below surface casing shoe (minimum 35 sx)
 - o WOC and tag TOC @ 3365' or higher
- Ensure all casing and annuli are cemented at least 50' to surface (minimum 15 sx in production/surface annulus and minimum 10 sx in production casing)

Per Onshore Order #2, G9. Mud.

*Each of the intervals between plugs shall be filled with mud of sufficient density to exert hydrostatic pressure exceeding the greatest formation pressure encountered while drilling such interval. In the absence of other information at the time plugging is approved, a **minimum mud weight of 9 pounds per gallon** shall be specified.*

12. This approved procedure is based upon the assumption that wellbore conditions are as presented in the Notice of Intent. If unexpected wellbore conditions occur, this procedure may require modification to meet our regulations. This will be done on a case-by-case basis with consultations with the BLM and your personnel.

The Bureau of Land Management, White River Field Office address is:

220 E. Market St.
Meeker, CO 81641
(970) 878-3800

CONTACTS:

Petroleum Engineers:

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Petroleum Engineering Technician:

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