

# **POWDER WASH PLUGGED AND ABANDONED RECLAMATION PLAN**

**Prepared for:  
Bureau of Land Management**

**Prepared by:  
Wexpro Company  
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## **Surface Restoration**

Wexpro Company will not allow any construction or routine maintenance activities during periods when soil is too wet to adequately support construction equipment. If such equipment creates surface ruts in excess of 4 inches deep, Wexpro Company will deem that soil conditions are too wet to adequately support construction equipment. In this case, construction activities will not be allowed until soil conditions improve or prior approval has been obtained from the BLM.

## **Well Pad**

Available topsoil in areas to be re-contoured will be stripped and stockpiled. Gravel will be removed from location and turnaround, and will be reapplied on designated lease roads. Location and access road will be re-contoured to match the surrounding terrain. All areas of disturbance will be ripped to 18" centers. Topsoil will be spread evenly over the equipment areas and areas previously stripped. After topsoil is re-spread, the area will be cross ripped to 3' (or depth of the topsoil layer) in preparation for seeding.

## **Access Road**

Culverts will be removed and disposed of at an approved landfill. Gravel will be removed from the access road and reapplied on designated lease roads. Access road disturbance will be re-contoured to match the surrounding terrain. Topsoil will be pulled on back side of the borrow area across the access road. After the topsoil has been evenly spread, the disturbance will be cross ripped to 3" (or depth of the topsoil layer) in preparation for seeding.

## **Pit Closures**

Pits on location will be closed in accordance with COGCC Rules Table 910-1, and reclaimed according to COGCC 1000 series rules. BLM will be provided copies of pit closure documentation.

## **Pipeline**

All above ground Wexpro Company production and gathering facilities

will be removed and all unsalvageable materials will be disposed of at authorized sites. The existing on-location production lines and the associated gathering line will be cut and abandoned in place at a minimum of 3 feet below surface or to the depth of the gathering line, whichever is shallower. Wexpro Company will immediately apply OOSLAT to the risers and OOSLAT will stay in place during the entire abandonment process until the riser is removed. The on-location production lines and gathering line will be physically separated from all sources of fluids and purged with Nitrogen to ensure evacuation of any hydrocarbon or produced water, and capped below grade at each end; within 3 months of plugging the well, in accordance with COGCC rule 1104.a. Shallow production lines will be removed. Re-grading and revegetation of disturbed land area, if applicable, will be completed as necessary. Gathering lines are owned and operated by Wexpro Company and are authorized under ROW Grant COC44228; this abandonment plan is also being submitted to the ROW Specialist. Any above ground cathodic protection and associated equipment with the riser will be removed.

A Form 42 will be filed with COGCC no less than 30 days prior to commencement of abandonment of all on-location flowlines. The surface is subject to the jurisdiction of the federal government and the gathering line is authorized by the BLM under ROW Grant COC44228. Approval to abandon in place has been requested. The COGCC Form 12 will be updated after completion of gathering line abandonment.

### **Seedbed Preparation**

In situations where topsoil quantity is low, soil amendments may be used. Soil amendments will be submitted in a subsequent seed tag sundry, if used.

### **Seeding**

Seeding will be completed before the frost level is too deep for successful seed placement, allowing optimal conditions for seed germination.

A seed drill equipped with a regulator will be required and seed will be drilled  $\frac{1}{4}$  -  $\frac{1}{2}$  inch deep. Where drilling is not possible, a broadcast/rake method will be used, doubling the seed mixture. Other seeding practices may include: broadcast seeding, drop seeding, drill seeding and hydro-seeding.

Seed mixes will be based on BLM recommendations, seed availability

and price, and input from other influences. Seed mixes will be sundried before seeding is completed.

**Seed Mix for Powder Wash area:**

INDIAN RICEGRASS	3 LBS/ACRE LIVE SEED
THICKSPIKE WHEATGRASS	3 LBS/ACRE LIVE SEED
ROSANNA WESTERN WHEATGRASS	½ LB/ACRE LIVE SEED
SQUIRRELTAIL BOTTLEBRUSH	½ LB/ACRE LIVE SEED
SCARLET GLOBEMALLOW	½ LB/ACRE LIVE SEED
WINTERFAT	2 LBS/ACRE LIVE SEED
SHADSCALE SALTBUUSH	1 LB/ACRE LIVE SEED
GARDNER SALTBUUSH	3 LBS/ACRE LIVE SEED
WYOMING BIG SAGEBRUSH	1 LB/ACRE LIVE SEED

**Weed Management:**

Our reclamation goal in regards to weed management; to have the native grasses, shrubs and forbs outcompete invasive/noxious species. Where required, Wexpro Company will monitor bareground and noxious treatments. Weed monitoring may include: weed inventory, pesticide application (GPS) and weed management success. All Pesticide Use Proposals (PUP's), Pesticide Use Reports (PUR's) and Pesticide Application Reports (PAR's) will be submitted complete and on time.

**Monitoring**

Wexpro Company believes reclamation monitoring to be one of the most important aspects of successful reclamation. Where required, "Annual Reclamation Monitoring Reports", or "Disturbance Monitoring", will be submitted to the appropriate Bureau of Land Management office. Monitoring may include: time and date of reclamation projects, seed mixes, seeding method, seeding success, reclamation in respect to reference areas, weed inventory, wildlife and livestock impacts, location erosion, and other data. Based on monitoring information, plans will be made to increase future reclamation success.

**Education**

Wexpro Company will conduct annual training with field personnel to increase knowledge, awareness and success of our reclamation and weed management plans.

## **Contact Information**

For comments or questions regarding reclamation, please contact April Stegall at Wexpro Company, contact information listed below.

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