

**APPENDIX A**  
**SITE SPECIFIC MITIGATION MEASURES TO ADDRESS SURFACE RECLAMATION**

A. The operator will follow the guidance provided in the Wyoming Policy on Reclamation (IM WY-90-231) specifically the following:

1. The reclaimed area shall be stable and exhibit none of the following characteristics:
  - a. Large rills or gullies.
  - b. Perceptible soil movement or head cutting in drainages.
  - c. Slope instability on, or adjacent to, the reclaimed area in question.
2. The soil surface must be stable and have adequate surface roughness to reduce runoff and capture rainfall and snow melt. Additional short-term measures, such as the application of mulch, shall be used to reduce surface soil movement.
3. Vegetation canopy cover (on unforested sites), production and species diversity (including shrubs) shall approximate the surrounding undisturbed area. The vegetation shall stabilize the site and support the planned post disturbance land use, provide for natural plant community succession and development, and be capable of renewing itself. This shall be demonstrated by:
  - a. Successful onsite establishment of species included in the planting mixture or other desirable species.
  - b. Evidence of vegetation reproduction, either spreading by rhizomatous species or seed production.
4. The reclaimed landscape shall have characteristics that approximate the visual quality of the adjacent area with regard to location, scale, shape, color and orientation of major landscape features.

B. All disturbed lands associated with this project, including the pipelines, access roads, water management facilities, etc. will be expediently reclaimed and reseeded in accordance with the surface use plan and any pertinent site-specific Conditions of Approval (COAs).

Areas not needed for production operations will be reshaped to approximate original contour of adjacent undisturbed surface. Topsoil will be spread evenly over reclaimed areas and drill seeded.

Disturbed areas will be drill seeded on the contour to a depth of 0.5 inch, followed by cultipaction to compact the seed preventing soil and seed losses. To maintain quality and purity, the current year's tested, certified seed with a minimum germination rate of 80% and a minimum purity of 90% will be used.

Slopes too steep for machinery may be hand broadcast and raked with twice the specified amount of seed. Fall seeding will occur after September 15 and prior to prolonged ground frost. To be effective, spring seeding will occur after the frost has left the ground and prior to May 15, unless prohibited by other stipulations preventing operations during these times, such as stipulations to protect wildlife habitat.

Areas with high erosion potential will have special measures applied, as necessary, to ensure successful reclamation takes place. This may include the installation of erosion fabric/matting, hydro seeding, water barring, mulching or other measures required by the BLM.

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MEMORANDUM OF AGREEMENT AMONG THE BUREAU OF LAND MANAGEMENT, THE WYOMING STATE HISTORIC PRESERVATION OFFICER, AND LANCE OIL AND GAS/ANADARKO PETROLEUM CORPORATION REGARDING MITIGATION OF ADVERSE EFFECTS TO THE PUMPKIN BUTTES TRADITIONAL CULTURAL PROPERTY AND ASSOCIATED HISTORIC PROPERTIES FROM THE SAVAGETON 3 AND SAVAGETON 4 – SEGMENT 2 COALBED METHANE NATURAL GAS PLANS OF DEVELOPMENT, CAMPBELL COUNTY, WYOMING

All topsoil material to be stockpiled for ten (10) months or longer will be windrowed, signed and stabilized with vegetation.

During reclamation, the fill material will be pushed back into the cuts and up over the back slope. No depressions will be left to trap water or form ponds. Topsoil will be distributed evenly over the entire area, and the seedbed will be prepared by disking to a depth of four to six inches. No reclamation work will be completed when soils are frozen or overly wet.

Site-specific, phased, final reclamation plans will be submitted to BLM for approval for all of the facilities associated with this POD, including water management control structures, at the time of their abandonment. These plans will be formulated and submitted to BLM for approval via individual Notice of Intent (NOI) Sundry Notice, as each facility is no longer needed for operational purposes. Reservoirs, land application areas, and off-channel pits will have soil testing completed to determine site-specific need for soil amendments or other treatments in order to ensure long-term reclamation success.

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