

Berry Petroleum Company
Proposed Chevron J-29-596 Well Pad Wildlife Mitigation Measures

Berry would like to propose the implementation of the following BMPs/mitigation measures to reduce impacts to sage grouse associated with the proposed Chevron J-29-596 well pad. These measures will require surface owner consent/agreement with respect to consistency with our Surface Use Agreement and associated Sage Grouse Mitigation Plan.

- Ground disturbing activities at the J-29 location, including pad construction, drilling, and completions would occur outside of the period from March 1 to June 30. Berry will make a good faith effort to complete all activity on the J-29 location during a single, uninterrupted time period.
- Well site visitations to the J-29 pad would be restricted to the period of 9:00 AM to 4:00 PM during the lekking season (March 1 to May 15).
- Company guidelines would be established to minimize wildlife mortality from vehicle collisions (posted speed limits, plus notification of all employees and contractors to drive cautiously and within those speed limits).
- Since well pad density has/will exceed one pad per square mile/section, Berry will initiate and complete a Wildlife Mitigation Plan in close coordination with the CDOW (subject to surface owner approval).
- Activities at the other two Berry well pads located within the Section 29 RSO area would be completed and thorough interim reclamation carried out (all site re-grading and appropriate seeding) prior to initiation of activity at the J-29 location. Remaining activities and interim reclamation at the other two Berry locations within the RSO would be carried out between July 1 and February 28.
- Berry is researching and will make a good faith effort to design tanks, fences, and other facilities to prevent raptor/raven/crow perching and nesting, where feasible.
- Design wastewater pits to minimize retention of stagnant water. Immediately after drilling and completions are finished, the pit will be emptied and reclaimed.
- While the pit is in use (it contains water) and the potential exists for mosquito breeding, the pit will be treated with Bti to prevent the potential spread of West Nile Virus.
- Berry will use early and effective reclamation techniques, including an aggressive interim reclamation program, to return habitat to use by sage grouse as quickly as possible.
- Berry will reclaim/restore sage grouse habitat with native grasses, forbs, and shrubs, conducive to optimal sage grouse habitat.
- Berry will use a high diversity reclamation seed mix/approved CP-4D seed mix, approved by the CDOW and the surface owner.
- Avoid aggressive non-native grasses in sage grouse habitat reclamation.
- Restore disturbed sagebrush using locally collected seed, where possible.
- Berry is also willing to agree to participate in the CDOW off-site mitigation program. Berry will coordinate with the CDOW regarding how the off-site mitigation program works and what costs are involved. If the program is similar to wetlands mitigation banking, and the costs are reasonable, Berry will participate in this program to offset project impacts.

- Additional relevant BMPs that would be implemented, as described in Section II B, “Infrastructure Layout Wildlife Protection Measures”, of the CDOW “Actions to Minimize Adverse Impacts to Wildlife Resources” document include:
 - Combining utility infrastructure (gas and water pipelines) alongside the access road to avoid the use of a separate utility corridor.
 - Implement fugitive dust control measures (watering).
 - To reduce vehicle-animal collisions, Berry will either house the drilling crew on the location to minimize commuting, or strongly recommend car pooling to the pad site to reduce traffic.
 - Access by unauthorized parties will be restricted at the guard station on the Garden Gulch Road.
 - Vehicle parking will be restricted to disturbed areas.
 - Man camps are being considered for this site to reduce vehicle traffic.
 - The pipeline corridor within the vicinity of the RSO area has been consolidated and is shared by Berry and Marathon/Enterprise.
- Additional BMPs that would be implemented, as described in Section II D, “Drilling and Production Operations Wildlife Protection Measures” include:
 - Water will be transported to the J-29 pad by pipeline, as opposed to trucking.
 - Berry is presently evaluating using closed loop drilling and completions techniques. It is unclear at this time if we can commit to that, however.
 - If closed loop drilling and completion techniques cannot be implemented, proper fencing and netting of the reserve pit will be carried out as discussed in our recent meeting with the CDOW to exclude wildlife, including grouse.
 - Exclusionary devices will be installed to prevent entry by birds and wildlife into stacks, vents, and openings.
 - During pipeline installations, trench plugs or escape ramps will be installed to prevent the entrapment of wildlife, or restriction of wildlife movement.
- Additional BMPs described in Section II G, “Restoration, Reclamation, and Abandonment” will be followed, provided Berry receives surface-owner approval.
- Berry will establish policies to protect wildlife in general at the J-29 well pad, including prohibitions on possession of firearms, exclusion of dogs, and prohibition of wildlife feeding. Bear-proof dumpsters will be used and site sweeps to verify all food-related trash is properly disposed of will also be carried out.