

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Buffalo Field Office
Buffalo, Wyoming**

**SURFACE USE
CONDITIONS OF APPROVAL**

POD Name: Powder Valley Unit Delta

Operator: Lance Oil & Gas Company, INC

List of Wells:

	Well Name	Well #	QTR	Sec	TWP	RNG	Lease
1	POWDER VALLEY U DELTA FED	13-7	NWSW	7	49N	77W	WYW152613
2	POWDER VALLEY U DELTA FED	14-7*	SWSW	7	49N	77W	WYW152613
3	POWDER VALLEY U DELTA FED	34-7	SWSE	7	49N	77W	WYW152613
4	POWDER VALLEY U DELTA PVU	22-19	SENE	19	50N	77W	WYW134924
5	POWDER VALLEY U DELTA PVU	41-19	NENE	19	50N	77W	WYW134924
6	POWDER VALLEY U DELTA PVU	42-19	SENE	19	50N	77W	WYW134924
7	POWDER VALLEY U DELTA PVU	43-19	NESE	19	50N	77W	WYW134924
8	POWDER VALLEY U DELTA PVU	34-33	SWSE	33	50N	77W	WYW149151
9	POWDER VALLEY U DELTA PVU	42-33	SENE	33	50N	77W	WYW149151
10	POWDER VALLEY U DELTA PVU	44-22	SESE	22	50N	78W	WYW143880
11	POWDER VALLEY U DELTA PVU	12-23	SWNW	23	50N	78W	WYW143880
12	POWDER VALLEY U DELTA PVU	23-23	NESW	23	50N	78W	WYW143880
13	POWDER VALLEY U DELTA FADDIS-K	32-23	SWNE	23	50N	78W	WYW140724
14	POWDER VALLEY U DELTA RUBY	34-23	SWSE	23	50N	78W	WYW140724
15	POWDER VALLEY U DELTA RUBY	43-23	NESE	23	50N	78W	WYW140724
16	POWDER VALLEY U DELTA FED	12-24	SWNW	24	50N	78W	WYW140724
17	POWDER VALLEY U DELTA PVU	31-24	NWNE	24	50N	78W	WYW141418
18	POWDER VALLEY U DELTA PVU	32-24	SWNE	24	50N	78W	WYW141418
19	POWDER VALLEY U DELTA PVU	41-24	NENE	24	50N	78W	WYW141418
20	POWDER VALLEY U DELTA PVU	13-25	NWSW	25	50N	78W	WYW146922
21	POWDER VALLEY U DELTA PVU	11-26	NWNW	26	50N	78W	WYW146921
22	POWDER VALLEY U DELTA PVU	24-26	SESW	26	50N	78W	WYW146923
23	POWDER VALLEY U DELTA PVU	32-26	SWNE	26	50N	78W	WYW146921
24	POWDER VALLEY U DELTA PVU	34-26	SWSE	26	50N	78W	WYW146922
25	POWDER VALLEY U DELTA PVU	41-26	NENE	26	50N	78W	WYW146921
26	POWDER VALLEY U DELTA PVU	44-26	SESE	26	50N	78W	WYW146922
27	POWDER VALLEY U DELTA FED	31-27	NWNE	27	50N	78W	WYW152616
28	POWDER VALLEY U DELTA FED	32-27	SWNE	27	50N	78W	WYW152616
29	POWDER VALLEY U DELTA PVU	12-34	SWNW	34	50N	78W	WYW146923

	Well Name	Well #	QTR	Sec	TWP	RNG	Lease
30	POWDER VALLEY U DELTA PVU	14-34	SWSW	34	50N	78W	WYW142843
31	POWDER VALLEY U DELTA PVU	21-34	NENW	34	50N	78W	WYW146923
32	POWDER VALLEY U DELTA PVU	23-34	NESW	34	50N	78W	WYW142843
33	POWDER VALLEY U DELTA PVU	34-34	SWSE	34	50N	78W	WYW142843
34	POWDER VALLEY U DELTA PVU	41-34	NENE	34	50N	78W	WYW146923
35	POWDER VALLEY U DELTA PVU	42-34	SENE	34	50N	78W	WYW146923
36	POWDER VALLEY U DELTA PVU	43-34	NESE	34	50N	78W	WYW142843
37	POWDER VALLEY U DELTA PVU	12-35	SWNW	35	50N	78W	WYW146925
38	POWDER VALLEY U DELTA PVU	14-35D	NESW	35	50N	78W	WYW146925
39	POWDER VALLEY U DELTA PVU	21-35	NENW	35	50N	78W	WYW146925
40	POWDER VALLEY U DELTA PVU	23-35	NESW	35	50N	78W	WYW146925
41	POWDER VALLEY U DELTA PVU	32-35	SWNE	35	50N	78W	WYW146925
42	POWDER VALLEY U DELTA PVU	34-35	SWSE	35	50N	78W	WYW146925
43	POWDER VALLEY U DELTA PVU	41-35	NENE	35	50N	78W	WYW146925
44	POWDER VALLEY U DELTA PVU	43-35	NESE	35	50N	78W	WYW146925

I Programmatic mitigation measures identified in the PRB FEIS ROD

Programmatic mitigation measures are those, determined through analysis, which may be appropriate to apply at the time of APD approval if site specific conditions warrant. These mitigation measures can be applied by BLM, as determined necessary at the site-specific NEPA APD stage, as COAs and will be in addition to stipulations applied at the time of lease issuance and any standard COA.

Groundwater

1. In order to address the potential impacts from infiltration on shallow ground water, the Wyoming DEQ has developed and revised a guidance document, “Compliance Monitoring and siting Requirements for Unlined Impoundments Containing Coalbed Methane Produced Water” (September, 2006) which can be accessed on their website. For all WYPDES permits the BLM will require that operators comply with the latest DEQ standards and monitoring guidance.

Surface Water

1. Low water crossings will be constructed at original streambed elevation in a manner that will prevent any blockage or restriction of the existing channel. Material removed will be stockpiled for use in reclamation of the crossings.
2. Concerns regarding the quality of the discharged CBNG water on downstream irrigation use may require operators to increase the amount of storage of CBNG water during the irrigation months and allow more surface discharge during the non-irrigation months.
3. The operator will supply a copy of the complete approved SW-4, SW-3, or SW-CBNG permits to BLM as they are issued by WSEO for impoundments.

Wildlife

1. For any surface-disturbing activities proposed in sagebrush shrublands, the Companies will conduct clearance surveys for sage grouse breeding activity during the sage grouse’s breeding season before initiating the activities. The surveys must encompass all sagebrush shrublands within 0.5 mile of the

proposed activities.

2. The Companies will locate facilities so that noise from the facilities at any nearby sage grouse or sharp-tailed grouse display grounds does not exceed 49 decibels (10 dBA above background noise) at the display ground.
3. All stock tanks shall include a ramp to enable trapped small birds and mammals to escape. See Idaho BLM Technical Bulletin 89-4 entitled Wildlife Watering and Escape Ramps on Livestock Water Developments: Suggestions and Recommendations.

Threatened, Endangered, or Sensitive Species

Bald Eagle

1. Special habitats for raptors, including wintering bald eagles, will be identified and considered during the review of Sundry Notices.
2. Additional mitigation measures may be necessary if the site-specific project is determined by a BLM biologist to have adverse effects to bald eagles or their habitat.

Ute Ladies'-tresses Orchid

1. Moist soils near wetlands, streams, lakes, or springs in the project area will be promptly revegetated if construction activities impact the vegetation in these areas. Revegetation will be designed to avoid the establishment of noxious weeds.

II Site specific mitigation measures

All changes made at the onsite will be followed. They have all been incorporated into the operator’s POD.

General

1. Please contact Eric Holborn – Natural Resource Specialist, @ (307) 684-1044, Bureau of Land Management, Buffalo, if there are any questions concerning surface use COAs.

Surface Use

Lease	Well #	Aliquot	Sec	T	R	Site Specific COAs
WYW152613	34-7	SWSE	7	49N	77W	Signs will be placed at either end of utility corridor that states “no oil and gas traffic beyond this point”
WYW146923	24-26	SESW	26	50N	78W	The construction of the access/utility corridor connecting the 24-26 location to 21-35 location: all work will not exceed 35 feet in width.
WYW146923	12-34	SWNW	34	50N	78W	Mowing for the well location will not exceed 35 feet radius from the well stake.

2. All permanent above-ground structures (e.g., production equipment, tanks, etc.) not subject to safety requirements will be painted to blend with the natural color of the landscape. The paint used will be a color which simulates “Standard Environmental Colors.” The color selected for the PVU Delta POD is Carlsbad Canyon, (Munsell Soil Color 2.5Y 6/2).

3. Constructed pad and slot locations will be built to design specifications, component of the PVU Delta Plan of Development, submitted by Grizzly Engineering.
4. The following well locations in the project area have been identified to have limited reclamation potential that will require disturbed areas to be stabilized (stabilization efforts may include mulching, matting, soil amendments, etc.) in a manner which eliminates accelerated erosion until a self-perpetuating native plant community has stabilized the site in accordance with the Wyoming Reclamation Policy. Stabilization efforts shall be finished within 30 days of the initiation of construction activities. If drilling takes place between October 31 to March 1 any liquids in the pits will be vacuumed out to expedite drying of pits to meet the 30 day stabilization requirement.

Lease	Well #	Aliquot	Sec	T	R
WYW152613	14-7	SWSW	7	49N	77W
WYW152613	23-7	NESW	7	49N	77W
WYW152613	34-7	SWSE	7	49N	77W
WYW152616	41-27	NENE	27	50N	78W
WYW142843	14-34	SWSW	34	50N	78W
WYW142843	23-34	NESW	34	50N	78W
WYW146923	32-34	SWNE	34	50N	78W
WYW142843	33-34	NWSE	34	50N	78W
WYW146925	12-35	SWNW	35	50N	78W
WYW146925	32-35	SWNE	35	50N	78W
WYW146925	34-35	SWSE	35	50N	78W

5. The operator will follow the guidance provided in the Wyoming Policy on Reclamation (IM WY-90-231) specifically the following:
 - Reclamation Standards:
 - C. 3 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.
 - C.4. 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.
 - C.5. 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.
 - C.6. 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 and meet the needs of the planned post disturbance land use.
6. The operator will drill seed on the contour to a depth of 0.5 inch, followed by cultipaction to compact the seedbed, preventing soil and seed losses. To maintain quality and purity, the current years tested, certified seed with a minimum germination rate of 80% and a minimum purity of 90% will be used.

ON BLM surface or in lieu of different specific mix desired by the surface owner, use the following:

Shallow Loamy Ecological Site Seed Mix		
Species	% in Mix	Lbs PLS*
Thickspike Wheatgrass <i>(Elymus lanceolatus ssp. lanceolatus)</i>	50	6.0
Bluebunch wheatgrass <i>(Pseudoroegneria spicata ssp. Spicata)</i>	35	4.2
Prairie coneflower <i>(Ratibida columnifera)</i>	5	0.6
White or purple prairie clover <i>(Dalea candidum, purpureum)</i>	5	0.6
Rocky Mountain beeplant <i>(Cleome serrulata)</i>	5	0.6
Totals	100%	12 lbs/acre

7. Provide 4” of aggregate where grades exceed 8% for stability and erosion prevention.
8. The culvert locations will be staked prior to construction. The culvert invert grade and finished road grade will be clearly indicated on the stakes. Culverts will be installed on natural ground, or on a designed flow line of a ditch. The minimum cover over culverts will be 12” or one-half the diameter whichever is greater. Drainage laterals in the form of culverts or water bars shall be placed according to the following spacing:

Grade	Drainage Spacing
2-4%	310 ft
5-8%	260 ft
9-12%	200 ft

9. The operator is responsible for having the licensed professional engineer certify that the actual construction of the road meets the design criteria and is constructed to Bureau standards.

Wildlife

Bald Eagles

- The following conditions will alleviate impacts to bald eagles:
No project related actions shall occur within one mile of bald eagle habitat (Powder River) annually from November 1 through April 1 (CM9), prior to a winter roost survey or from February 1 through August 15 (CM8) prior to a nesting survey. This timing limitation will be in effect unless surveys determine the nest/roost to be inactive. This affects the following wells and infrastructure:

Township/Range	Section	Wells and Infrastructure
50/77	19	Wells: 41-19-5077, 42-19-5077, and 43-19-5077 All proposed access and/or pipeline corridors within the E1/2 of this section. The proposed power drop in the SE of this section and any powerline associated with it.
50/77	20	The proposed access and/or pipeline within the NWNW of this section.
50/77	33	Wells: 34-33-5077 and 42-33-5077 Impoundment: P43-33 and its associated monitoring wells if this becomes a primary impoundment. All proposed access and/or pipeline corridors within this entire section. The proposed power drop in the SE of this section and any powerline associated with it.
49/77	6	The proposed pipeline corridor in the SW of this section.
49/77	7	Well: 34-7-4977 All proposed access and/or pipeline corridors within the E1/2 of this section. The proposed powerline and power drop in the SE of this section.

- a. If a roost is identified and construction has not been completed, a year-round disturbance-free buffer zone of 0.5 mile will be established for all bald eagle winter roost sites. A seasonal minimum disturbance buffer zone of 1 mile will be established for all bald eagle roost sites (November 1 - April 1). Additional measures such as remote monitoring and restricting maintenance visitation to between 9:00 AM and 3:00 PM may be necessary to prevent disturbance.
- b. If a nest is identified and construction has not been completed, a disturbance-free buffer zone of 0.5 mile (i.e., no surface occupancy) would be established year round for all bald eagle nests. A seasonal minimum disturbance buffer zone of 1 mile will be established for all bald eagle nest sites (February 1 - August 15).

Burrowing Owls

1. The following conditions will alleviate impacts to burrowing owls:

No surface disturbing activity shall occur within 0.25 miles of all identified prairie dog colonies from April 15 to August 31, annually, prior to a burrowing owl nest occupancy survey for the current breeding season. A 0.25 mile buffer will be applied if a burrowing owl nest is identified. This condition will be implemented on an annual basis for the duration of surface disturbing activities within the prairie dog town(s). This timing limitation will be in effect unless surveys determine the nest(s) to be inactive. This timing limitation will affect the following

Township/Range	Section	Wells and Infrastructure
50/78	22	The proposed access/pipeline corridor in the SESE of this section.
50/78	23	Wells: 23-23-5078 and 34-28-5078 All proposed access and/or pipeline corridors within the SW, SWSE, and SESE of this section. The proposed power drop in the SW of this section and any powerline associated with it.
50/78	24	Impoundment: P24-24 if this becomes a primary impoundment. The proposed access and/or pipeline corridors in the SESE and SESW of this section.

Township/Range	Section	Wells and Infrastructure
50/78	25	All proposed access and/or pipeline corridors in the NW of this section.
50/78	26	Well: 11-26-5078 All proposed access and/or pipeline corridors within the NENW and NENE of this section.
50/78	35	Well: 43-35-5078 All proposed access and/or pipeline corridors within the SENE and NESE of this section.
49/78	12	The proposed pipeline corridor in the NENE of this section.
49/77	6	The proposed pipeline corridor in the SWSW of this section.
49/77	7	The proposed pipeline corridor in the NWNW of this section.
50/77	33	Well: 34-33-5077 The proposed access/pipeline corridor in the NESW, NESE, and SWSE of this section.

Raptors

1. The following conditions will alleviate impacts to raptors:
 - a. No surface disturbing activity shall occur within 0.5 mile of all identified raptor nests from February 1 through July 31, annually, prior to a raptor nest occupancy survey for the current breeding season. This timing limitation will affect the following:

Township/Range	Section	Wells and Infrastructure
50/78	22	Well: 44-22-5078 All proposed access and/or pipeline corridors within the NWSE, NESE, and SESE of this section.
50/78	23	Wells: 12-23-5078, 23-23-5078, 34-23-5078, and 43-23-5078 All proposed access and/or pipeline corridors within this entire section. The proposed power drop in the SW of this section and any power lines associated with it.
50/78	24	Wells: 12-34-5078, 31-24-5078, and 41-24-5078 Impoundment: P24-24 and its associated monitoring wells if this becomes a primary impoundment. All proposed access and/or pipeline corridors within the NENE, NWNE, SWNE, NESW, SESW, SWSE, and SESE of this section.
50/78	25	All proposed access and/or pipeline corridors in the NWNW, NENW, and NENE of this section.
50/78	26	Wells: 11-26-5078 and 41-26-5078 All proposed access and/or pipeline corridors within the NW and NENE of this section.
50/78	33	All proposed access and/or pipeline corridors within the SE of this section.
50/78	34	Wells: 34-34-5078 and 43-34-5078 All proposed access and/or pipeline corridors within the SE of this section.

Township/Range	Section	Wells and Infrastructure
50/77	33	Well: 42-33-5078 Impoundment: P43-33 and its associated monitoring wells if this becomes a primary impoundment. All proposed access and/or pipeline corridors within this entire section.
49/78	12	All proposed access and/or pipeline corridors within the E1/2 of this section.
4977	7	Wells: 13-7-4977 and 14-7-4977 All proposed access and/or pipeline corridors within the SWSW and NWSW of this section.

- 1) Surveys to document nest occupancy shall be conducted by a biologist following BLM protocol, between April 15 and June 30. All survey results shall be submitted in writing to a Buffalo BLM biologist and approved prior to surface disturbing activities. Surveys outside this window may not depict nesting activity. If a survey identifies active raptor nests, a 0.5 mile timing buffer will be implemented. The timing buffer restricts surface disturbing activities within 0.5 mile of occupied raptor nests from February 1 to July 31.
- 2) Nest occupancy and productivity checks shall be completed for nests within a ½ mile of any surface disturbing activities (e.g., well drilling, pipeline installation, or road improvements) across the entire POD for as long as the POD is under construction. Once construction of the POD has ceased, nest occupancy and productivity checks shall continue for the first five years on all nests that are within a ½ mile of locations where any surface-disturbing activities took place. Productivity checks shall be completed only on those nests that were verified to be occupied during the initial occupancy check for the current year. The productivity checks shall be conducted no earlier than June 1 or later than June 30 and any evidence of nesting success or production shall be recorded. Survey results will be submitted to a Buffalo BLM biologist in writing no later than July 31 of each survey year. This applies to the following nest(s): See Table 3.1 of this EA.
 - b. If an undocumented raptor nest is located during project construction or operation, the Buffalo Field Office (307-684-1100) shall be notified within 24 hours.
 - c. Well metering, maintenance and other site visits within 0.5 miles of raptor nests should be minimized as much as possible during the breeding season (February 1 – July 31).

Sage Grouse

1. The following conditions will alleviate impacts to sage-grouse:
 - a. Perch inhibitors will be installed on the one mile of new overhead powerlines (Section 12, T49N, R78W and Section 7, T49N, R77W).
 - b. No surface disturbing activities are permitted within 2 miles of sage grouse lek(s) between March 1 and June 15, prior to completion of a greater sage grouse lek survey. **This condition will be implemented on an annual basis for the duration of surface disturbing activities.** This timing limitation will affect the following:

Township/Range	Section	Wells and Infrastructure
50/78	22	Well: 44-22-5078 All proposed access and/or pipeline corridors within the SE of this section. The proposed power drop in the center of this section and any powerline associated with it.

Township/Range	Section	Wells and Infrastructure
50/78	23	Wells: 12-23-5078 and 23-23-5078 All proposed access and/or pipeline corridors within the NW and SW of this section. The proposed power drop in the SW of this section and any powerline associated with it.
50/78	26	Well: 11-26-5078 All proposed access and/or pipeline corridors within the NWNW of this section.
50/78	27	Wells: 31-27-5078 and 32-27-5078 All proposed access and/or pipeline corridors within this entire section. The proposed power drops in the SE and SW of this section and any powerline associated with them.
50/78	28	All proposed access and/or pipeline corridors within this entire section.
50/78	33	All proposed access and/or pipeline corridors within this entire section. The proposed power drop in the NE of this section and any powerline associated with it.
50/78	34	Wells: 12-24-5078, 21-34-5078, 23-24-5078, 24-34-5078, 41-34-5078, 42-34-5078, and 43-34-5078 All proposed access and/or pipeline corridors within this entire section. The proposed power drop in the NE of this section and any powerline associated with it.
50/78	35	Wells: 12-35-5078 and 23-35-5078 All proposed access and/or pipeline corridors within the SWNW of this section.
50/77	33	Wells: 34-33-5077 and 42-33-5077 Impoundment: P43-33 and its associated monitoring wells if this becomes a primary impoundment. All proposed access and/or pipeline corridors within this entire section. The proposed power drop in the SE of this section and any powerline associated with it.

- 1) If an active lek is identified during the survey, the 2 mile timing restriction (March 1-June 15) will be applied and surface disturbing activities will not be permitted until after the nesting season. If surveys indicate that the identified lek is inactive during the current breeding season, surface disturbing activities may be permitted within the 2 mile buffer until the following breeding season (March 1). The required sage grouse survey will be conducted by a biologist following the most current WGFD protocol. All survey results shall be submitted in writing to a Buffalo BLM biologist and approved prior to surface disturbing activities.
- c. Well metering, maintenance and other site visits within 2.0 miles of documented sage grouse lek sites should be minimized as much as possible during the breeding season (March 1– June 15).

Sharp-tailed Grouse

1. The following conditions will minimize impacts to sharp-tailed grouse:

- a. A survey is required for sharp-tailed grouse between April 1 and May 7, annually, within the project area for the life of the project and results shall be submitted to a BLM biologist.
- b. If an active lek is identified during the survey, the 0.64 mile timing restriction (March 1-June 15) will be applied and surface disturbing activities will not be permitted until after the nesting season. The required sharp-tailed grouse survey will be conducted by a biologist following WGFD protocol. All survey results shall be submitted in writing to a Buffalo BLM biologist and approved prior to surface disturbing activities.
- c. If surveys indicate that the identified lek is inactive during the current breeding season, surface disturbing activities may be permitted within the 0.5 mile buffer until the following breeding season (April 1).
- d. Creation of raptor hunting perches will be avoided within 0.64 miles of documented sharp-tailed grouse lek sites. Perch inhibitors will be installed to deter avian predators from preying on grouse.

Water Management

1. The operator shall submit a Sundry notice to the BLM for approval prior to the initiation of construction of the secondary impoundments included in this plan.
2. The operator will comply with all the existing conditions of approval associated with the EMITs facilities in the Powder Valley Unit and Merrill Meadows.

Cultural

Oil and gas related activities (pedestrian and mechanical) shall be restricted to approved well pads and infrastructure, particularly in the vicinity of 32-24-5078.

III Standard Conditions of Approval

A. General

1. If any cultural values [sites, artifacts, human remains (Appendix L FEIS)] are observed during operation of this lease/permit/right-of-way, they will be left intact and the Buffalo Field Manager notified. The authorized officer will conduct an evaluation of the cultural values to establish appropriate mitigation, salvage or treatment. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized BLM officer (AO). Within five working days the AO will inform the operator as to:
 - whether the materials appear eligible for the National Register of Historic Places;
 - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,
 - a time-frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction measures.
2. If paleontological resources, either large or conspicuous, and/or a significant scientific value are discovered during construction, the find will be reported to the Authorized Officer

- immediately. Construction will be suspended within 250 feet of said find. An evaluation of the paleontological discovery will be made by a BLM approved professional paleontologist within five (5) working days, weather permitting, to determine the appropriate action(s) to prevent the potential loss of any significant paleontological values. Operations within 250 feet of such a discovery will not be resumed until written authorization to proceed is issued by the Authorized Officer. The applicant will bear the cost of any required paleontological appraisals, surface collection of fossils, or salvage of any large conspicuous fossils of significant scientific interest discovered during the operation.
3. The operator shall restrict travel on unimproved two-track roads during periods of inclement weather or spring thaw when the possibility exists for excessive surface resource damage (e.g., rutting in excess of 4-inches, travel outside two-track roadway, etc.).
 4. The first well drilled to each targeted coal zone will be designated as the POD reference well. Designated reference wells must have the ability to be sampled at the wellhead. Water quality samples will be collected by the operator and submitted for analysis using current WDEQ WYPDES analytical criteria within 30-60 days of initial water production. Results of the analysis will be submitted to the BFO-BLM Authorized Officer as they become available.
 5. By November 1 each year, companies will provide georeferenced spatial data depicting as-built locations of all facilities, wells, roads, pipelines, power lines, reservoirs, discharge points, and other related facilities to the BLM for all PODs where construction and development have been completed.
 6. If any dead or injured threatened, endangered, proposed, or candidate species is located during construction or operation, the U.S. Fish and Wildlife Service's Wyoming Field Office (307-772-2374), their law enforcement office (307-261-6365), and the BLM Buffalo Field Office (307-684-1100) shall be notified within 24 hours. If any dead or injured sensitive species is located during construction or operation, the BLM Buffalo Field Office (307-684-1100) shall be notified within 24 hours.
 7. Wildlife species are dynamic and new individuals may have moved into the PVU Delta POD area after the initial wildlife surveys were completed. The Record of Decision for the PRB FEIS includes a programmatic mitigation measure that states, "The companies will conduct clearance surveys for threatened and endangered or other special-concern species at the optimum time". The measure requires companies to coordinate with the BLM before November 1 annually to review the potential for disturbance and to agree on inventory parameters. Should this project not be completed by January 15, and surface disturbance is planned for that year, a Devon Energy Production Company representative will coordinate with the BLM to discuss required surveys.
 8. All other conservation measures and terms and conditions identified in the Powder River Basin Oil and Gas Project Biological Opinion (WY6633) shall be complied with.
 9. If an undocumented raptor nest is located during project construction or operation, the Buffalo Field Office (307-684-1100) shall be notified within 24 hours.
 10. All contractors will have a copy of the pod map and conditions of approval with them at all times.

B. Construction

1. A pre-construction field meeting shall be conducted prior to beginning any dirt work approved under this POD. The operator shall contact the BLM Authorized Officer Eric Holborn @ 307-684-1044 at least 4-days prior to beginning operations so that the meeting

can be scheduled. The operator is responsible for having all contractors present (dirt contractors, drilling contractor, pipeline contractor, project oversight personnel, etc.) including the overall field operations superintendent, and for providing all contractors copies of the approved POD, project map and BLM Conditions of Approval pertinent to the work that each will be doing.

2. The operator will limit vegetation removal and the degree of surface disturbance wherever possible. Where surface disturbance cannot be avoided, all practicable measures will be utilized to minimize erosion and stabilize disturbed soils.
3. Construction and drilling activity will not be conducted using frozen or saturated soil material during periods when watershed damage or excessive rutting is likely to occur.
4. Remove all available topsoil (depths vary from 4 inches on ridges to 12+ inches in bottoms) from constructed well locations including areas of cut and fill, and stockpile at the site. Topsoil will also be salvaged for use in reclamation on all other areas of surface disturbance (roads, pipelines, etc.). Clearly segregate topsoil from excess spoil material. Any topsoil stockpiled for one year or longer will be signed and stabilized with annual ryegrass or other suitable cover crop.
5. The operator will not push soil material and overburden over side slopes or into drainages. All soil material disturbed will be placed in an area where it can be retrieved without creating additional undue surface disturbance and where it does not impede watershed and drainage flows.
6. Construct the backslope no steeper than 1½:1, and construct the foreslope no steeper than 2:1, unless otherwise directed by the BLM Authorized Officer.
7. Maintain a minimum 20-foot undisturbed vegetative border between toe-of-fill of pad and/or pit areas and the edge of adjacent drainages, unless otherwise directed by the BLM Authorized Officer.
8. With the overall objective of minimizing surface disturbance and retaining land stability and productivity, the operator shall utilize equipment that is appropriate to the scope and scale of work being done for roads and well pads (utilize equipment no larger than needed for the job).
9. To minimize electrocution potential to raptors, all overhead electrical power lines will be constructed to Avian Power Line Interaction Committee (1996) standards and additional standards identified in the PRB FEIS Biological Opinion (Volume 3, Appendix K, page 43).
10. The operator shall utilize wheel trenchers or ditchers to construct all pipeline trenches, except where extreme topography or other environmental factors preclude their use.
11. Reserve pits will be adequately fenced during and after drilling operations until pit is reclaimed so as to effectively keep out wildlife and livestock. Adequate fencing, in lieu of more stringent requirements by the surface owner, is defined as follows:
 - Construction materials will consist of steel or wood posts. Three or four strand wire (smooth or barbed) fence or hog panel (16-foot length by 50-inch height) or plastic snow fence must be used with connectors such as fence staples, quick-connect clips, hog rings, hose clamps, twisted wire, etc. Electric fences will not be allowed.
 - Construction standards: Posts shall be firmly set in ground. If wire is used, it must be taut and evenly spaced, from ground level to top wire, to effectively keep out animals. Hog panels must be tied securely into posts and one another using fence staples, clamps, etc. Plastic snow fencing must be taut and sturdy. Fence must be at least 2-feet from edge of

- pit. 3 sides fenced before beginning drilling, the fourth side fenced immediately upon completion of drilling and prior to rig release. Fence must be left up and maintained in adequate condition until pit is closed.
12. The reserve pit will be oriented to prevent collection of surface runoff. After the drilling rig is removed, the operator may need to construct a trench on the uphill side of the reserve pit to divert surface drainage around it. If constructed, the trench will be left intact until the pit is closed.
 13. The reserve pit will be lined with an impermeable liner if permeable subsurface material is encountered. An impermeable liner is any liner having a permeability less than 10^{-7} cm/sec. The liner will be installed so that it will not leak and will be chemically compatible with all substances that may be put in the pit. Liners made of any man-made synthetic material will be of sufficient strength and thickness to withstand normal installation and pit use. In gravelly or rocky soils, a suitable bedding material such as sand will be used prior to installing the liner.
 14. The reserve pit will be constructed so that at least half of its total volume is in solid cut material (below natural ground level).
 15. Culverts will be placed on channel bottoms on firm, uniform beds, which have been shaped to accept them, and aligned parallel to the channel to minimize erosion. Backfill will be thoroughly compacted.
 16. The minimum diameter for culverts will be 18 inches. However, all culverts will be appropriately sized in accordance with standards in BLM Manual 9113.
 17. Construction and other project-related traffic will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
 18. Maximum design speed on all operator-constructed and maintained roads will not exceed 25 miles per hour.
 19. Pipeline construction shall not block nor change the natural course of any drainage. Pipelines shall cross perpendicular to drainages. Pipelines shall not be run parallel in drainage bottoms. Suspended pipelines shall provide adequate clearance for maximum runoff.
 20. Pipeline trenches shall be compacted during backfilling. Pipeline trenches shall be routinely inspected and maintained to ensure proper settling, stabilization and reclamation.
 21. During construction, emissions of particulate matter from well pad and road construction would be minimized by application of water or other non-saline dust suppressants with at least 50 percent control efficiency. Dust inhibitors (surfacing materials, non-saline dust suppressants, and water) will be used as necessary on unpaved roads that present a fugitive dust problem. The use of chemical dust suppressants on public surface will require prior approval from the BLM Authorized Officer.
 22. Operators are required to obtain a National Pollution Discharge Elimination System (NPDES) Storm Water Permit from the Wyoming DEQ for any projects that disturb five or more acres (changing to one acre in March 2005). This general construction storm water permit must be obtained from WDEQ prior to any surface disturbing activities and can be obtained by following directions on the WDEQ website at <http://deq.state.wy.us>. Further information can be obtained by contacting Barb Sahl at (307) 777-7570.
 23. The operator shall submit a Sundry Notice (Form 3160-5) to BLM for approval prior to construction of any new surface disturbing activities that are not specifically addressed in the approved APD or POD Surface Use Plan.

24. Weed educational material will be reviewed with operators during pre-construction on-site meetings with operators, subcontractors, and landowners and will also be attached to approved APDs and PODs.
25. Companies will contact the counties to pursue development of maintenance agreements to ensure county roads are adequately maintained for the projected increase in use.

C. Operations/Maintenance

1. The operator shall complete coal bed natural gas wells (case, cement and under ream) as soon as possible, but no later than 30 days after drilling operations, unless an extension is given by the BLM Authorized Officer.
2. If in the process of air drilling the wells there is a need to utilize mud, all circulating fluids will be contained either in an approved pit or in an aboveground containment tank. The pit or containment tank will be large enough to safely contain the capacity of all expected fluids without danger of overflow. Fluid and cuttings will not be squeezed out of the pit, and the pit will be reclaimed in an expedient manner.
3. Confine all equipment and vehicles to the access road(s), pad(s), and area(s) specified in the approved APD or POD.
4. All waste, other than human waste and drilling fluids, will be contained in a portable trash cage. This waste will be transported to a State approved waste disposal site immediately upon completion of drilling operations. No trash or empty barrels will be placed in the reserve pit or buried on location. All state and local laws and regulations pertaining to disposal of human and solid waste will be complied with.
5. Rat and mouse holes shall be filled and compacted from the bottom to the top immediately upon release of the drilling rig from the location.
6. The operator will be responsible for prevention and control of noxious weeds and weeds of concern on all areas of surface disturbance associated with this project (well locations, roads, water management facilities, etc.) Use of pesticides shall comply with the applicable Federal and State laws. Pesticides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of Interior. Prior to the use of pesticides on public land, the holder shall obtain from the BLM authorized officer written approval of a plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary by the authorized officer to such use.
7. Sewage shall be placed in a self-contained, chemically treated porta-potty on location.
8. The operator and their contractors shall ensure that all use, production, storage, transport and disposal of hazardous and extremely hazardous materials associated with the drilling, completion and production of these wells will be in accordance with all applicable existing or hereafter promulgated federal, state and local government rules, regulations and guidelines. All project-related activities involving hazardous materials will be conducted in a manner to minimize potential environmental impacts. In accordance with OSHA requirements, a file will be maintained onsite containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds and/or substances which are used in the course of construction, drilling, completion and production operations.
9. Produced fluids shall be put in test tanks on location during completion work. Produced water will be put in the reserve pit during completion work per Onshore Order #7.
10. The only fluids/waste materials which are authorized to go into the reserve pit are RCRA

exempt exploration and production wastes. These include:

- drilling muds & cuttings
- rigwash
- excess cement and certain completion & stimulation fluids defined by EPA as exempt

It does not include drilling rig waste, such as:

- spent hydraulic fluids
- used engine oil
- used oil filter
- empty cement, drilling mud, or other product sacks
- empty paint, pipe dope, chemical or other product containers
- excess chemicals or chemical rinsate

Any evidence of non-exempt wastes being put into the reserve pit may result in the BLM Authorized Officer requiring specific testing and closure requirements.

11. Reserve pits will be closed as soon as possible, but no later than 90 days from time of drilling/well completion, unless the BLM Authorized Officer gives an extension. Squeezing of pit fluids and cuttings is prohibited. Pits must be dry of fluids or they must be removed via vac-truck or other environmentally acceptable method prior to backfilling, re-contouring and replacement of topsoil. Mud and cuttings left in pit must be buried at least 3-feet below re-contoured grade. The operator will be responsible for re-contouring any subsidence areas that develop from closing a pit before it is sufficiently dry.
12. Operators are advised that prior to installation of any oil and gas well production equipment which has the potential to emit air contaminants, the owner or operator of the equipment must notify the Wyoming Department of Environmental Quality, Air Quality Division (phone 307-777-7391) to determine permit requirements. Examples of pertinent well production equipment include fuel-fired equipment (e.g., diesel generators), separators, storage tanks, engines and dehydrators.
13. If this well is drilled during the fire season (June-October), the operator shall institute all necessary precautions to ensure that fire hazard is minimized, including but not limited to mowing vegetation on the access route(s) and well location(s), keeping fire fighting equipment readily available when drilling, etc.

D. Dry Hole/Reclamation

1. 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 COAs.
2. Disturbed lands will be re-contoured back to conform to existing undisturbed topography. No depressions will be left that trap water or form ponds.
3. The fluids and mud must be dry in the reserve pit before re-contouring pit area. The operator will be responsible for re-contouring of any subsidence areas that develop from closing a pit before it is completely dry. The plastic pit liner (if any) will be cut off below grade and properly disposed of at a state authorized landfill before beginning to re-contour the site.
4. Before the location has been reshaped and prior to redistributing the topsoil, the operator will rip or scarify the drilling platform and access road on the contour, to a depth of at least 12 inches. The rippers are to be no farther than 24 inches apart.

5. Distribute the topsoil evenly over the entire location and other disturbed areas. Prepare the seedbed by disking to a depth of 4-to-6 inches following the contour.
6. Phased reclamation plans will be submitted to BLM for approval prior to individual POD facility abandonment via a Notice of Intent (NOI) Sundry Notice. Individual facilities, such as well locations, pipelines, discharge points, impoundments, etc. need to be addressed in these plans as they are no longer needed. Individual items that will need to be addressed in reclamation plans include:
 - Pit closure (Close ASAP after suitably dry, but no later than 90 days from time of drilling unless an extension is given by BLM Authorized Officer.) BLM may require closure prior to 90 days in some cases due to land use or environmental concerns.
 - Configuration of reshaped topography, drainage systems, and other surface manipulations
 - Waste disposal
 - Revegetation methods, including specific seed mix (pounds pure live seed/acre) and soil treatments (seedbed preparation, fertilization, mulching, etc.). On private surface, the landowner should be consulted for the specific seed mix.
 - Other practices that will be used to reclaim and stabilize all disturbed areas, such as water bars, erosion fabric, hydro-mulching, etc.
 - An estimate of the timetables for beginning and completing various reclamation operations relative to weather and local land uses.
 - Methods and measures that will be used to control noxious weeds, addressing both ingress and egress to the individual well or POD.
 - Decommissioning/removal of all surface facilities
 - Closure and reclamation of areas utilized or impacted by produced CBM water, including discharge points, reservoirs, off-channel pits, land application areas, livestock/wildlife watering facilities, surface discharge stream channels, etc
7. BLM will not release the performance bond until all disturbed areas associated with the APD/POD have been successfully revegetated (evaluation will be made after the second complete growing season) and has met all other reclamation goals of the surface owner and surface management agency.
8. A Notice of Intent to Abandon and a Subsequent Report of Abandonment must be submitted for abandonment approval.
9. For performance bond release approval, a Final Abandonment Notice (with a surface owner release letter on split-estate) must be submitted prior to a final abandonment evaluation by BLM.
10. Soil fertility testing and the addition of soil amendments may be required to stabilize some disturbed lands.
11. Any mulch utilized for reclamation needs to be certified weed free.
12. Waterbars are to be constructed at least one (1) foot deep, on the contour with approximately two (2) feet of drop per 100 feet of waterbar to ensure drainage, and extended into established vegetation. All waterbars are to be constructed with the berm on the downhill side to prevent the soft material from silting in the trench. The initial waterbar should be constructed at the top of the backslope. Subsequent waterbars should follow the following general spacing guidelines:

Slope (percent)	Spacing Interval (feet)
≤ 2 - 4	310
5 - 8	260
9 - 12	200

E. Producing Well

1. Landscape those areas not required for production to the surrounding topography as soon as possible. The fluids and mud must be dry in the reserve pit before re-contouring pit area. The operator will be responsible for re-contouring and reseeding of any subsidence areas that develop from closing a pit before it is completely dry.
2. Reduce the backslope to 2:1 and the foreslope to 3:1, unless otherwise directed by the BLM Authorized Officer. Reduce slopes by pulling fill material up from foreslope into the toe of cut slopes.
3. Production facilities (including dikes) must be placed on the cut portion of the location and a minimum of 15 feet from the toe of the back cut unless otherwise approved by the BLM Authorized Officer.
4. Any spilled or leaked oil, produced water or treatment chemicals must be reported in accordance with NTL-3A and immediately cleaned up in accordance with BLM requirements. This includes clean-up and proper disposition of soils contaminated as a result of such spills/leaks.
5. Distribute stockpiled topsoil evenly over those areas not required for production and reseed as recommended.
6. Upgrade and maintain access roads and drainage control (e.g., culverts, drainage dips, ditching, crowning, surfacing, etc.) as necessary and as directed by the BLM Authorized Officer to prevent soil erosion and accommodate safe, environmentally-sound access.
7. Prior to construction of production facilities not specifically addressed in the APD/POD, the operator shall submit a Sundry Notice to the BLM Authorized Officer for approval.
8. If not already required prior to constructing and drilling the well location, the operator shall immediately upgrade the entire access road to BLM standards (including topsoiling, crowning, ditching, drainage culverts, surfacing, etc.) to ensure safe, environmentally-sound, year-round access. This requirement does not supercede or apply where specific road requirements are addressed in the APD/POD surface use plan (e.g., two track road, spot upgrade, etc.)
9. Waterbars shall be installed on all reclaimed pipeline corridors per the guidelines in D #12.