

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

**SURFACE USE CONDITIONS OF APPROVAL
EA# WY-070-EA07-143**

POD Name: Kingwood II

Operator: Williams Production RMT Company

List of Wells:

	Well Name	Well #	QTR	Sec	TWP	RNG	Lease
1	KINGWOOD II BRUBAKER	12-19	SWNW	19	46N	76W	WYW89856
2	KINGWOOD II BRUBAKER	12-19L	SWNW	19	46N	76W	WYW89856
3	KINGWOOD II BRUBAKER	14-19	SWSW	19	46N	76W	WYW89856
4	KINGWOOD II BRUBAKER	14-19L	SWSW	19	46N	76W	WYW89856
5	KINGWOOD II BRUBAKER	21-19	NENW	19	46N	76W	WYW89856
6	KINGWOOD II BRUBAKER	21-19L	NENW	19	46N	76W	WYW89856
7	KINGWOOD II BRUBAKER	23-19	NESW	19	46N	76W	WYW89856
8	KINGWOOD II BRUBAKER	23-19L	NESW	19	46N	76W	WYW89856
9	KINGWOOD II BRUBAKER	34-19	SWSE	19	46N	76W	WYW89856
10	KINGWOOD II BRUBAKER	43-19	NESE	19	46N	76W	WYW89856
11	KINGWOOD II BRUBAKER	43-19L	NESE	19	46N	76W	WYW89856
12	KINGWOOD II BRUBAKER	34-19L	SWSE	19	46N	76W	WYW89856
13	KINGWOOD II BRUBAKER	12-30	SWNW	30	46N	76W	WYW89856
14	KINGWOOD II BRUBAKER	12-30L	SWNW	30	46N	76W	WYW89856
15	KINGWOOD II BRUBAKER	14-30	SWSW	30	46N	76W	WYW21221
16	KINGWOOD II BRUBAKER	21-30	NENW	30	46N	76W	WYW89856
17	KINGWOOD II BRUBAKER	21-30L	NENW	30	46N	76W	WYW89856
18	KINGWOOD II BRUBAKER	23-30	NESW	30	46N	76W	WYW21221
19	KINGWOOD II BRUBAKER	32-30	SWNE	30	46N	76W	WYW89856
20	KINGWOOD II BRUBAKER	32-30L	SWNE	30	46N	76W	WYW89856
21	KINGWOOD II BRUBAKER	34-30	SWSE	30	46N	76W	WYW89856
22	KINGWOOD II BRUBAKER	34-30L	SWSE	30	46N	76W	WYW89856
23	KINGWOOD II BRUBAKER	41-30	NENE	30	46N	76W	WYW89856
24	KINGWOOD II BRUBAKER	41-30L	NENE	30	46N	76W	WYW89856
25	KINGWOOD II BRUBAKER	43-30	NESE	30	46N	76W	WYW89856
26	KINGWOOD II BRUBAKER	43-30L	NESE	30	46N	76W	WYW89856
27	KINGWOOD II BRUBAKER	12-31	SWNW	31	46N	76W	WYW72471

	Well Name	Well #	QTR	Sec	TWP	RNG	Lease
28	KINGWOOD II BRUBAKER	21-31	NENW	31	46N	76W	WYW72471
29	KINGWOOD II BRUBAKER	41-31	NENE	31	46N	76W	WYW72471
30	KINGWOOD II BRUBAKER	43-31	NESE	31	46N	76W	WYW72471
31	KINGWOOD II FEDERAL	32-23	SWNE	23	46N	77W	WYW85360
32	KINGWOOD II FEDERAL	32-23L	SWNE	23	46N	77W	WYW85360
33	KINGWOOD II FEDERAL	41-23	NENE	23	46N	77W	WYW85360
34	KINGWOOD II FEDERAL	41-23L	NENE	23	46N	77W	WYW85360
35	KINGWOOD II FEDERAL	43-23L	NESE	23	46N	77W	WYW85360
36	KINGWOOD II FEDERAL	43-23	NESE	23	46N	77W	WYW85360
37	KINGWOOD II BRUBAKER	12-24	SWNW	24	46N	77W	WYW0266643
38	KINGWOOD II BRUBAKER	12-24L	SWNW	24	46N	77W	WYW0266643
39	KINGWOOD II BRUBAKER	14-24	SWSW	24	46N	77W	WYW0266643
40	KINGWOOD II BRUBAKER	14-24L	SWSW	24	46N	77W	WYW0266643
41	KINGWOOD II BRUBAKER	21-24	NENW	24	46N	77W	WYW0266643
42	KINGWOOD II BRUBAKER	21-24L	NENW	24	46N	77W	WYW0266643
43	KINGWOOD II BRUBAKER	23-24	NESW	24	46N	77W	WYW0266643
44	KINGWOOD II BRUBAKER	23-24L	NESW	24	46N	77W	WYW0266643
45	KINGWOOD II BRUBAKER	32-24	SWNE	24	46N	77W	WYW112380
46	KINGWOOD II BRUBAKER	32-24L	SWNE	24	46N	77W	WYW112380
47	KINGWOOD II BRUBAKER	34-24	SWSE	24	46N	77W	WYW112380
48	KINGWOOD II BRUBAKER	34-24L	SWSE	24	46N	77W	WYW112380
49	KINGWOOD II BRUBAKER	41-24	NENE	24	46N	77W	WYW112380
50	KINGWOOD II BRUBAKER	41-24L	NENE	24	46N	77W	WYW112380
51	KINGWOOD II BRUBAKER	43-24	NESE	24	46N	77W	WYW112380
52	KINGWOOD II BRUBAKER	43-24L	NESE	24	46N	77W	WYW112380
53	KINGWOOD II BRUBAKER	12-25	SWNW	25	46N	77W	WYW85361
54	KINGWOOD II BRUBAKER	12-25L	SWNW	25	46N	77W	WYW85361
55	KINGWOOD II BRUBAKER	14-25	SWSW	25	46N	77W	WYW16066
56	KINGWOOD II BRUBAKER	21-25	NENW	25	46N	77W	WYW85361
57	KINGWOOD II BRUBAKER	21-25L	NENW	25	46N	77W	WYW85361
58	KINGWOOD II BRUBAKER	23-25	NESW	25	46N	77W	WYW16066
59	KINGWOOD II BRUBAKER	23-25L	NESW	25	46N	77W	WYW16066
60	KINGWOOD II BRUBAKER	32-25	SWNE	25	46N	77W	WYW85361
61	KINGWOOD II BRUBAKER	32-25L	SWNE	25	46N	77W	WYW85361
62	KINGWOOD II BRUBAKER	34-25	SWSE	25	46N	77W	WYW85361
63	KINGWOOD II BRUBAKER	34-25L	SWSE	25	46N	77W	WYW85361
64	KINGWOOD II BRUBAKER	41-25	NENE	25	46N	77W	WYW85361
65	KINGWOOD II BRUBAKER	41-25L	NENE	25	46N	77W	WYW85361

	Well Name	Well #	QTR	Sec	TWP	RNG	Lease
66	KINGWOOD II BRUBAKER	43-25	NESE	25	46N	77W	WYW85361
67	KINGWOOD II BRUBAKER	43-25L	NESE	25	46N	77W	WYW85361

Kingwood II POD Conditions of Approval also apply to the following Rights of Way, and a staging area:

ROW Grant	Type	Section	TWP/RNG
WYW-169653	Access road, water pipeline and buried power line	23	46N/77W
WYW-169652	6" Gas pipeline	23	46N/77W
WYW-169553-01	Construct, operate, maintain and terminate one staging area.	23	46N/77W

I. Programmatic mitigation measures identified in the PRB FEIS ROD

Groundwater

In order to address the potential impacts from infiltration on shallow ground water, the Wyoming DEQ has developed a guidance document, "Compliance Monitoring and Siting Requirements for Unlined Coalbed Methane Produced Water Impoundments" which was approved September, 2006. For WYPDES permits received by DEQ after the August 1st effective date, the BLM requires that operators comply with the current approved DEQ compliance monitoring guidance document prior to discharge of federally-produced water into newly constructed or upgraded impoundments.

Surface Water

1. Channel Crossings:
 - a) Minimize channel disturbance as much as possible by limiting pipeline and road crossings.
 - b) Avoid running pipelines and access roads within floodplains or parallel to a stream channel.
 - c) Channel crossings by road and pipelines will be constructed perpendicular to flow. Culverts will be installed at appropriate locations for streams and channels crossed by roads as specified in the BLM Manual 9112-Bridges and Major Culverts and Manual 9113-Roads. Streams will be crossed perpendicular to flow, where possible, and all stream crossing structures will be designed to carry the 25-year discharge event or other capacities as directed by the BLM.
 - d) Channel crossings by pipelines will be constructed so that the pipe is buried at least four feet below the channel bottom.
2. 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.
3. The operator will supply a copy of the complete approved SW-4, SW-3, or SW-CBNG permits for these impoundments to BLM when they are issued by WSEO.
4. The operator will supply copies of the WYPDES permits to the BLM for this POD as soon as they are issued by WDEQ.

Soils

1. The Companies, on a case by case basis depending upon water and soil characteristics, will test sediments deposited in impoundments before reclaiming the impoundments. Tests will include the standard suite of cations, ions, and nutrients that will be monitored in surface water testing and any

trace metals found in the CBNG discharges at concentrations exceeding detectable limits.

Wetland/Riparian

1. No waste material will be in riparian areas, flood plains, or in natural drainage ways.
2. Soil or other material stockpiles will be placed outside floodplains.
3. Disturbed channels will be re-shaped to their approximate original configuration or stable geomorphological configuration and properly stabilized.
4. Reclamation of disturbed wetland/riparian areas will begin immediately after project activities are complete.

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 construct power lines to minimize the potential for raptor collisions with the lines. Potential modifications include burying the lines, avoiding areas of high avian use (for example, wetlands, prairie dog towns, and grouse leks), and increasing the visibility of the individual conductors.
3. The Companies will locate aboveground power lines, where practical, at least 0.5 mile from any sage grouse breeding or nesting grounds to prevent raptor predation and sage grouse collision with the conductors. Power poles within 0.5 mile of any sage grouse breeding ground will be raptor-proofed to prevent raptors from perching on the poles.
4. Containment impoundments will be fenced to exclude wildlife and livestock. If they are not fenced, they will be designed and constructed to prevent entrapment and drowning.
5. The Companies will limit the construction of aboveground power lines near streams, water bodies, and wetlands to minimize the potential for waterfowl colliding with power lines.
6. 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. Surveys for active bald eagle nests and winter roost sites will be conducted within suitable habitat by a BLM approved biologist. Surface disturbing activities will not be permitted within one mile of suitable habitat prior to survey completion.
2. A disturbance-free buffer zone of 0.5 mile (i.e., no surface occupancy) will be established year-round for all bald eagle nest sites. A seasonal minimum disturbance buffer zone of one mile will be

established for all bald eagle nest sites (February 15 – August 15).

3. A disturbance-free buffer zone of 0.5 mile (i.e., no surface occupancy) will be established year-round for all bald eagle roost sites. A seasonal minimum disturbance buffer zone of 1 mile will be established for all bald eagle winter roost sites (November 1 – April 1). These buffer zones and timing may be adjusted based on site-specific information through coordination with, and written approval from, the USFWS.

Black-footed Ferret

1. Prairie dog colonies will be avoided wherever possible.

Ute Ladies'-tresses Orchid

1. Suitable habitat will be avoided wherever possible.
2. If suitable habitat for Ute ladies'-tresses cannot be avoided, surveys will be conducted in compliance with USFWS standards (USFWS 1995) by a BLM approved biologist or botanist. Surveys can only be conducted between July 20 and August 31.
3. 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.
4. Companies operating in areas identified with weed infestations or suitable Ute ladies'-tresses orchid habitat will be required to submit an integrated pest management plan prior to APD approval. The components of the integrated pest management plans are outlined in the CBM APD and POD Preparation Guide. Mitigation will be determined on a site-specific basis and may include such measures as spraying herbicides prior to entering areas and washing vehicles before leaving infested areas. Infestation areas of noxious weeds have been identified through the county Weed and Pest Districts and are available at the Buffalo BLM office.

Visual Resources

1. The Companies will mount lights at compressor stations on a pole or building and direct them downward to illuminate key areas within the facility while minimizing the amount of light projected outside the facility.

Noise

1. Noise mufflers will be installed on the exhaust of compressor engines to reduce the exhaust noise.
2. Where noise impacts to existing sensitive receptors are an issue, noise levels will be required to be no greater than 55 decibels measured at a distance of one-quarter mile from the appropriate booster (field) compressor. When background noise exceeds 55dBA, noise levels will be no greater than 5dBA above background. This may require the installation of electrical compressor motors at these locations.

Site specific mitigation measures

1. 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 Kingwood II POD is Carlsbad Canyon (2.5 y 6/2).

2. Ensure any and all damages to existing stock-related waterlines during POD related operations are both reported to the landowner and repaired immediately.
3. 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.
4. 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 a different specific mix desired by the surface owner, use the following:

Species - <i>Cultivar</i>	Full Seeding (lbs/ac PLS*)	% in Mix	Lbs PLS*
Western Wheatgrass - <i>Rosana</i>	6	20	2.6
Bluebunch Wheatgrass – <i>Secar or P-7</i>	7	15	2.0
Green Needlegrass	6	15	2.0
Needleandthread grass	6	15	2.0
Indian Ricegrass – <i>Paloma or Rimrock</i>	6	5	0.65
American vetch	7	10	1.5
Lewis - <i>Appar</i> , Blue, or Scarlet flax	4	7	1.0
White – <i>Antelope</i> or Purple Prairie Clover – <i>Bismark</i>	3	8	1.0
Fourwing Saltbush - <i>Wytana</i>	3	5	0.65
Totals		100 %	13.4 lbs/acre

5. Slopes too steep for machinery may be hand broadcast and raked with twice the specified amount of seed. Complete fall seeding after September 15 and prior to prolonged ground frost. To be effective,

complete spring seeding after the frost has left the ground and prior to May 15.

6. The operator will provide the seed stock labels for any seed applied on Federal surface to the Authorized Officer in the BFO.
7. Provide 4” of aggregate where grades exceed 8%.
8. Where the operator proposes to use existing roads with no improvements, regular inspection of the road condition is needed during operations. Degradation of the road surface, including increased rutting, potholing, corrugation (“wash boarding”), or excessive loss of surface gravel, will require maintenance. Likewise, operator is responsible for repairing damage to drainage structures, and mitigating increased erosion related to proposed operations.
9. Areas that are mulched shall first be recontoured, reseeded, and then mulched using a technique that will prohibit the mulch from blowing or washing away.
10. Extraordinary reclamation measures (mulched straw, blankets, hydro-mulch) shall be applied to cut or fill slopes over 8% and in areas with sandy soils or blow-outs.

Wildlife

1. The following conditions will minimize the impacts to raptors:
 - a. No surface disturbing activity will be allowed within ½ mile of the documented nest sites from February 1 through July 31, annually, prior to a raptor nest occupancy survey for the current breeding season. This timing limitation affects the following wells as well as nearby reservoirs and infrastructure:

Nest	Township/Range	Section	Proposed Wells and Infrastructure Affected (Listed wells include associated infrastructure)
6*	46/76	19	23-19-4677 BG/LBG, 14-19-4677 BG/LBG, 41-25-4677 BG/LBG, 43-24-4677 BG/LBG, 12-19-4676 BG/LBG, 34-19-4677BG/LBG, 21-30-4676 BG/LBG, proposed overhead power,
8*	46/76	19	43-19-4677 BG/LBG, access for 21-19-4676 BG/LBG,
10*	46/76	20	43-19-4677 BG/LBG,
11*	46/76	31	41-31-4676 BG, 43-31-4676 BG/LBG, access for 34-30-4676 BG/LBG, staging area, discharge point, stock tank,
3063	46/77	23	12-24-4677 BG/LBG, 41-23-4677 BG/LBG, 12-24-4677 BG/LBG, 32-23-4677 BG/LBG, staging area
3590	46/77	23	14-24-4677 BG/LBG, 43-23-4677 BG/LBG, 2 staging areas
15*	46/77	24	41-24-4677 BG/LBG, 32-24-4677 BG/LBG, 43-24-4677 BG/LBG, 21-24-4677 BG/LBG, 23-24-4677 BG/LBG, 12-19-4676 BG/LBG, discharge point, stock tank, and overhead power
3608	46/77	25	14-25-4677 BG, 32-25-4677 BG/LBG, access for 34-25-4677,
16*	46/77	25	32-25-4677 BG/LBG, 14-25-4677 BG, 23-25-4677 BG/LBG, access for 21-25-4677 BG/LBG, staging area, pipeline between 14-25 and 23-25-4677 BG/LBG

Nest	Township/Range	Section	Proposed Wells and Infrastructure Affected (Listed wells include associated infrastructure)
17*	46/77	36	12-31-4676 BG, staging area, discharge point
18*	46/76	20	43-19-4677 BG/LBG

- b. 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 ½ mile timing buffer will be implemented. The timing buffer restricts surface disturbing activities within ½ mile of occupied raptor nests from February 1 to July 31.
- c. Nest productivity checks shall be completed for all raptor nests within the Kingwood II POD listed in the table below. The productivity checks shall be completed for the first five years following project completion. The occupancy checks shall be conducted no earlier than June 1 or later than June 30 and any evidence of nesting success/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.

BLM ID	UTM E	UTM N	Species	Activity	Legals
6*	416128	4865910	Unknown	Inactive 2006 & 2007	T.46N. R.76 W., Sec. 19 SWSW
8*	417268	4866846	Red-tailed Hawk	Inactive 2006 & 2007	T.46N. R.76 W., Sec. 19 NENE
10*	417834	4866153	Red-tailed Hawk	Active 2006 & 2007	T.46N. R.76 W., Sec. 20 NESW
11*	417135	4863184	Red-tailed Hawk	Inactive 2006 & 2007	T.46N. R.76 W., Sec. 31 SENW
3063	413763	4866687	Red-tailed Hawk	Active 2006 & 2007	T.46N. R.77 W., Sec. 23 SWNE
3590	413492	4865650	Unknown	Inactive 2006 & 2007	T.46N. R.77 W., Sec. 23 SWSE
15*	415329	4866660	Great-horned Owl	Inactive 2006 & 2007	T.46N, R.77 W., Sec. 24 SWNE
3608	414386	4864060	Unknown	Inactive 2006 & 2007	T.46N. R.77 W., Sec. 25 SWSW
16*	414520	4864502	Red-tailed Hawk	Active 2006, Inactive 2007	T.46N. R.77 W., Sec. 25 NWSW
17*	415518	4862714	Great-horned Owl	Active 2006, Gone 2007	T.46N. R.77 W., Sec. 36 SESE
18*	417958	4866439	Great-horned Owl	No data 2006, Active 2007	T.46N. R.76 W., Sec. 20 SENW

- d. 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.
 - e. 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), and restricted to between 0900 and 1500 hours.
 - f. Surveys for burrowing owls shall be conducted prior to start of any activities within 0.25 miles of active or inactive prairie dog colonies between February 1 and July 31.
4. No surface disturbing activity shall occur within one mile of bald eagle habitat (Pumpkin Creek) annually from November 1 through April 1, prior to a winter roost survey. Williams RMT will submit a sundry request if blowers are proposed on wells.

Water Management

1. The operator will inform the BLM approximately one week prior to reservoir releases for each reservoir within this POD to allow BLM personnel to observe the effectiveness of “pulsed releases”. Notifications should continue until at least two release events from each reservoir have been observed. Water will be periodically drained or pulse released from reservoirs to somewhat mimic natural storm runoff events to avoid perennialization of the affected stream reaches.
2. Ensure any and all damages to existing stock-related waterlines during POD related operations are both reported to the landowner and repaired immediately.

Cultural

All earth moving activity in the following areas will be monitored by an archeologist who meets or exceed the qualification standards recommended by the Secretary of the Interior. The Bureau has identified these areas as containing the potential for buried cultural deposits (areas containing alluvial and or aeolian deposits). The Bureau will require the submission of two copies of a monitoring report within 30 days of the completion of all monitoring work.

All earth moving activities associated with construction of electric, gas, and water pipelines in T46N R77W Section 24, SW¼ and T46N R77W Section 25 NE¼ as recommended by ARCADIS. Construction monitoring locations and dates in these sections shall be coordinated with ARCADIS. These segments in Section 24 and Section 25 total approximately 4400’ in length.

All earth moving activities associated with construction of electric, gas, and water pipelines in T46N R76W Section 30, W½ W½ NE¼ as recommended by ARCADIS. Construction monitoring locations and dates in this section shall be coordinated with ARCADIS. This segment in Section 30 totals approximately 900’ in length.

II. 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 producing well drilled to each targeted coal zone will be designated as the POD "Reference Well". Reference wells will not be required for PODs within a six mile radius of the first reference well designated by the operator, nor for co-mingled coal zones. The designated reference well must be equipped to be sampled at the well head. A reference well sample will be collected from the wellhead and submitted for analysis; using the list of analytes identified in WDEQ WYPDES Application for Permit to Surface Discharge Produced Water from CBM New Discharges, Renewals, or Major Modifications, within 30 to 60 days of initial water production. Results of the analysis will be submitted to the BFO-BLM authorized Officer as they become available.
 5. The 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 upon completion of POD construction and development.
 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 (307-746-1100) shall be notified within 24 hours. If any dead or injured sensitive species is located during construction or operation, the BLM Buffalo Field Office (307-756-1100) shall be notified within 24 hours.
 7. Wildlife species are dynamic and new individuals may have moved into the Kingwood II 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 Williams RMT representative will coordinate with the BLM to discuss required surveys.

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 in the Newcastle Field Office @ 307-746-6600 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 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 exemptIt 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 rinsateAny 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 the 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 supersede 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.