

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

**SURFACE USE
CONDITIONS OF APPROVAL**

POD Name: West Gas Draw Beta

Operator: Lance Oil & Gas Co. Inc.

List of Wells:

	Well Name	Well #	Qtr/Qtr	Sec	TWP	RNG	Lease #
1	W GAS DRAW BETA CARSON TRUST	43-2	NESE	2	54N	74W	WYW132246
2	W GAS DRAW BETA RULE TRUST	12-4	SWNW	4	54N	74W	WYW161252
3	W GAS DRAW BETA RULE TRUST	14-4	SWSW	4	54N	74W	WYW161252
4	W GAS DRAW BETA RULE TRUST	23-4	NESW	4	54N	74W	WYW161252
5	W GAS DRAW BETA RULE TRUST	32-4	SWNE	4	54N	74W	WYW161252
6	W GAS DRAW BETA RULE TRUST	41-4	NENE	4	54N	74W	WYW161252
7	W GAS DRAW BETA RULE TRUST	43-4	NESE	4	54N	74W	WYW161252
8	W GAS DRAW BETA RULE TRUST	31-4	NWNE	4	54N	74W	WYW161252
9	W GAS DRAW BETA D SPELLMAN	43-8	NESE	8	54N	74W	WYW161252
10	W GAS DRAW BETA SPELLMAN	41-8	NENE	8	54N	74W	WYW161252
11	W GAS DRAW BETA D SPELLMAN	23-9	NESW	9	54N	74W	WYW161252
12	W GAS DRAW BETA D SPELLMAN	34-9	SWSE	9	54N	74W	WYW161252
13	W GAS DRAW BETA RULE TRUST	21-9	NENW	9	54N	74W	WYW161252
14	W GAS DRAW BETA RULE TRUST	41-9	NENE	9	54N	74W	WYW161252
15	W GAS DRAW BETA D SPELLMAN	43-9	NESE	9	54N	74W	WYW161252
16	W GAS DRAW BETA D SPELLMAN	12-9	SWNW	9	54N	74W	WYW161252
17	W GAS DRAW BETA SPELLMAN	14-9	SWSW	9	54N	74W	WYW161252
18	W GAS DRAW BETA CARSON TRUST	21-10	NENW	10	54N	74W	WYW132246
20	W GAS DRAW BETA C&F RANCH	14-15W	SWSW	15	54N	74W	WYW143957
21	W GAS DRAW BETA C&F RANCH	21-15W	NENW	15	54N	74W	WYW143957
22	W GAS DRAW BETA C&F RANCH	12-15W	SWNW	15	54N	74W	WYW143957
23	W GAS DRAW BETA SPELLMAN	34-17	SWSE	17	54N	74W	WYW143958
24	W GAS DRAW BETA D SPELLMAN	12-17	SWNW	17	54N	74W	WYW143958
25	W GAS DRAW BETA D SPELLMAN	14-17	SWSW	17	54N	74W	WYW143958
26	W GAS DRAW BETA D SPELLMAN	23-17	NESW	17	54N	74W	WYW143958
27	W GAS DRAW BETA D SPELLMAN	21-18	NENW	18	54N	74W	WYW143958
28	W GAS DRAW BETA D SPELLMAN	23-18	NESW	18	54N	74W	WYW143958
29	W GAS DRAW BETA D SPELLMAN	32-18	SWNE	18	54N	74W	WYW144517
30	W GAS DRAW BETA D SPELLMAN	34-18	SWSE	18	54N	74W	WYW143958
31	W GAS DRAW BETA D SPELLMAN	43-18	NESE	18	54N	74W	WYW143958
19	W GAS DRAW BETA FEDERAL	13-19	NWSW	19	54N	74W	WYW137635
32	W GAS DRAW BETA FEDERAL	24-19	SESW	19	54N	74W	WYW137635
33	W GAS DRAW BETA FEDERAL	34-19	SWSE	19	54N	74W	WYW137635
34	W GAS DRAW BETA FEDERAL	43-19	NESE	19	54N	74W	WYW137635
37	W GAS DRAW BETA SORENSON RANCH	32-19	SWNE	19	54N	74W	WYW143958
38	W GAS DRAW BETA SORENSON RANCH	12-19	SWNW	19	54N	74W	WYW137635

	Well Name	Well #	Qtr/Qtr	Sec	TWP	RNG	Lease #
39	W GAS DRAW BETA SORENSON RANCH	21-19	NENW	19	54N	74W	WYW137635
40	W GAS DRAW BETA SORENSON RANCH	31-19	NWNE	19	54N	74W	WYW143958
41	W GAS DRAW BETA SORENSON RANCH	32-20	SWNE	20	54N	74W	WYW143958
42	W GAS DRAW BETA SORENSON RANCH	34-20	SWSE	20	54N	74W	WYW143958
43	W GAS DRAW BETA SORENSON RANCH	43-20	NESE	20	54N	74W	WYW143958
44	W GAS DRAW BETA SORENSON RANCH	12-20	SWNW	20	54N	74W	WYW143958
45	W GAS DRAW BETA FEDERAL	14-21	SWSW	21	54N	74W	WYW143959
46	W GAS DRAW BETA FEDERAL	23-21	NESW	21	54N	74W	WYW143959
47	W GAS DRAW BETA FEDERAL	13-21	NWSW	21	54N	74W	WYW143959
48	W GAS DRAW BETA SORENSON	21-21	NENW	21	54N	74W	WYW143959
49	W GAS DRAW BETA SORENSON	41-21	NENE	21	54N	74W	WYW143959
50	W GAS DRAW BETA SORENSON RANCH	34-21	SWSE	21	54N	74W	WYW143959
51	W GAS DRAW BETA SORENSON RANCH	32-21	SWNE	21	54N	74W	WYW143959
52	W GAS DRAW BETA SORENSON RANCH	43-21	NESE	21	54N	74W	WYW143959
53	W GAS DRAW BETA SORENSON RANCH	12-22	SWNW	22	54N	74W	WYW143957
54	W GAS DRAW BETA SORENSON RANCH	14-22	SWSW	22	54N	74W	WYW143957
55	W GAS DRAW BETA SORENSON RANCH	21-22	NENW	22	54N	74W	WYW143957
56	W GAS DRAW BETA SORENSON RANCH	23-22	NESW	22	54N	74W	WYW143957
57	W GAS DRAW BETA TARVER	23-23	NESW	23	54N	74W	WYW132917
58	W GAS DRAW BETA TARVER	34-23	SWSE	23	54N	74W	WYW132917
59	W GAS DRAW BETA FEDERAL	43-24	NESE	24	54N	75W	WYW159215
35	W GAS DRAW BETA SORENSON	23-19	NESW	19	55N	74W	WYW129532
36	W GAS DRAW BETA SORENSON	43-19	NESE	19	55N	74W	WYW129532
60	W GAS DRAW BETA RULE TRUST	23-31	NESW	31	55N	74W	WYW143960
61	W GAS DRAW BETA RULE TRUST	23-32	NESW	32	55N	74W	WYW143960

The following impoundment locations were inspected and approved for use in association with the water management strategy for the POD.

	IMPOUNDMENT Name / Number	Qtr/Qtr	Sec	TWP	RNG	Capacity (Acre Feet)	Surface Disturbance (Acres)	Lease #
1	Jalene	NENW	28	54	74	5.1	2.2	WYW130079
2	Carson	SESW	13	54	74	66.5	44.36	Fee
3	P 43-20-5474	NESW	20	54	74	10.9	3.8	WYW143958
4	Pit 13-22-5474	NWSW	22	54	74	45.0	7.05	WYW143957
5	Cox 23-12-5474 (Existing Pit)	SESW	12	54	74	45	4.5	Fee
6	TD Stock Reservoir	NWSE	15	54	74	1.7	0.8	Fee
7	Pit 21-13-5474	NENW	13	54	74	35	5.4	Fee
8	Jim #1	SWSW	21	54	74	0.7	0.44	WYW143959
9	Pit 31-4-5474	NWNE	4	54	74	35.0	5.55	WYW161252
10	Pit 21-23-5474	NENW	23	54	74	50	7.2	Fee
11	Pit 31-23-5474	NWNE	23	54	74	45	6.6	Fee
12	P 24-4-5474	SESW	4	54	74	17	6.0	WYW161252
13	P 41-29-5474	NENE	29	54	74	14.7	2.0	WYW130079
14	Pit 41-29-5474	NENE	29	54	74	50	7.95	WYW130079
15	P 42-22-5474	SENE	22	54	74	15	4.5	WYW143957

	IMPOUNDMENT Name / Number	Qtr/Qtr	Sec	TWP	RNG	Capacity (Acre Feet)	Surface Disturbance (Acres)	Lease #
16	Jan Stock Reservoir	NWSE	21	54	74	6.3	3.2	WYW143959
17	P 44-20-5474	SESE	20	54	74	14.7	2.0	WYW143958
18	Pit 22-9-5474	SENE	9	54	74	50	8.1	WYW161252
19	Rick Stock Reservoir	NENE	15	54	74	1.0	0.4	Fee
20	RC Stock Reservoir	NWSE	10	54	74	6.5	2.6	WYW132246
21	BW Stock Reservoir	SWSE	10	54	74	2.7	2.0	WYW132246
22	BW#2 Stock Reservoir	NWNE	15	54	74	5.3	3.2	Fee
23	Pit 13-31-5474	NWSW	31	54	74	40.0	6.45	WYW143960
24	Pit 24-32-5474	NWNW SESW	5 32	55 54	74 74	35.0	5.55	WYW129033 WYW143960
25	Pit 11-19-5474	NWNW	19	54	74	50	8.4	WYW137635
26	Pit 44-35-5574	SESE	35	55	74	50	7.5	Fee
27	Sorenson 43-23-5474B	NESE	23	54	74	5.6	1.0	Fee
28	Sorenson 43-23-5474	NESE	23	54	74	3.6	1.42	Fee
29	Pit 43-23-5474	NESE	23	54	74	45	4.5	Fee
30	34-21-5474	SWSE	21	54	74	30	2.1	WYW143959
31	Power Line Reservoir	NESE	31	54	74	2.5	1.6	Fee
32	Pit 34-18-5474	SWSE	18	54	74	40	6.45	WYW143958
33	Enlg. Of Flat Stock Res	SWSE	21	54	74	19.8	6.45	WYW143959
34	Pit 33-9-5474	NWSE	9	54	74	40	7.2	WYW161252
35	Pit 24-10-5474	SESW	10	54	74	45	7.0	Fee
36	23-10-5474	NESW	10	54	74	19.9	7.0	Fee
37	24-17-5474	SESW	17	54	74	6.8	2.4	WYW143958
38	23-18-5474	NESW	18	54	74	15	3.0	WYW143958
39	Mickinna Stock Res	NESW	28	54	74	3.3	1.4	Fee
40	Enlg of Ford Stock Res	NESE	29	54	74	15.0	3.5	WYW130079
41	Tarver #1 (Previous POD)	SENE	23	54	74	1.7	1.76	WYW143958
42	Tarver #2 (Previous POD)	NWSE	23	54	74	8.1	4.42	WYW143958

The following impoundment locations were inspected and analyzed but require Right-of-Way approval prior to use in association with the water management strategy for the POD.

	IMPOUNDMENT Name / Number	Qtr/Qtr	Sec	TWP	RNG	Capacity (Acre Feet)	Surface Disturbance (Acres)	Lease #
1	P 24-21-5474	SESW	21	54	74	4.1	1.6	WYW143959
2	P 44-15-5474S	SESE	15	54	74	15	2.0	WYW132246

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. 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.
2. 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.
3. Channel crossings by pipelines will be constructed so that the pipe is buried at least four feet below the channel bottom.
4. 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.
5. 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.
6. The operator will supply copies of the WYPDES permits for this POD to the BLM as soon as they are available from 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.

Wildlife

1. 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.

Noise

1. 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.

Air Quality

1. During construction, emissions of particulate matter from well pad and resource road construction will be minimized by application of water, or other dust suppressants, with at least 50 percent control efficiency. Roads and well locations constructed on soils susceptible to wind erosion could be appropriately surfaced or otherwise stabilized to reduce the amount of fugitive dust generated by traffic or other activities, and dust inhibitors (surfacing materials, non-saline dust suppressants, and water) could be used as necessary on unpaved collector, local and resource roads that present a fugitive dust problem. The use of chemical dust suppressants on BLM surface will require prior approval from the BLM authorized officer.

II Site specific mitigation measures

1. All changes made at the onsite will be followed. They have all been incorporated into the operator's POD.
2. The approval of this project does not grant authority to use off lease Federal lands. No access or surface activity is allowed on or off the affected leases on Federal lands until right-of-way grants become authorized.
3. The following impoundments are located on BLM surface and are not allowed to be constructed until a ROW application and bond has been authorized by the Buffalo Field Office.

	IMPOUNDMENT Name / Number	Qtr/Qtr	Sec	TWP	RNG	Capacity (Acre Feet)	Surface Disturbance (Acres)	Lease #
1	P 24-21-5474	SESW	21	54	74	4.1	1.6	WYW143959
2	P 44-15-5474S	SESE	15	54	74	15	2.0	WYW132246

4. Per landowner request, the access road through the ballpark to the Carson Trust Fed 43-2 must be graveled.
5. The total width of disturbance must be kept to <35' for the following access/utility corridors; Rule Trust Fed 14-4, Rule Trust Fed 43-4, C&F Ranch Fed 14-15, and Rule Trust Fed 23-32.
6. The following locations will need lined pits; Spellman Fed 43-8, Spellman Fed 32-18, and the Federal 24-19.
7. All slotted locations and constructed pads must follow approved designs.
8. Access to the Spellman Feds 32-18 and 34-18 will be a graveled two track/utility corridor. Road maintenance will be performed per Don Spellman approval.
9. All culvert cross drains must have ditch blocks where applicable.
10. The engineered access to the 32-19 must be slope staked for field review at the preconstruction field onsite. Placement for the extra 822 cubic yards of material will determined during the preconstruction field onsite.
11. 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 West Gas Draw Beta POD is Covert Green

12. Provide 4” of aggregate where grades exceed 8% for stability and erosion prevention.
13. The operator is responsible for having a licensed professional engineer certify that the actual construction of the road meets the design criteria and is constructed to Bureau standards.
14. 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:

<u>Grade</u>	<u>Drainage Spacing</u>
2-4%	310 ft
5-8%	260 ft
9-12%	200 ft
13-15%	150 ft.

15. “Roughed-in” or “Pioneer” roads shall be constructed according to the line and grade shown in the approved engineering designs. Non-engineered roads shall be constructed to a line and grade established to meet the BLM Gold Book and 9113 guidelines as approved in the SUP, and shaped according to an approved design template for that road.
16. Adequate drainage control must be in place at all stages of construction and culverts installed as soon as feasible.
17. 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.
18. The seed mix provided in the Surface Use Plan is to be used. The operator is responsible to

determine whether to use the Loamy or Sandy mix on the disturbed sites.

19. Please contact Casey Freise Natural Resource Specialist, @ (307) 684-1189 Bureau of Land Management, Buffalo, if there are any questions concerning these surface use COAs.

Wildlife

1. The Record of Decision for the Powder River Basin EIS 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" (M32). 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 November 1, 2008, Lance will coordinate with the BLM to determine if additional resurvey will be required.
2. No surface disturbing activity shall occur within ½ 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 condition will be implemented on an annual basis for the duration of surface disturbing activities. This timing limitation will affect the following proposed wells and their associated infrastructure:

Township/Range	Section	Affected Wells and Infrastructure
5574	20	43-19-5574 well road and utility corridor
5574	31	West ½ of road and utility corridor to the Rule Trust Fed 23-32 & off channel pit 13-31
5474	16	34-9 and 12-15 wells and access roads and util. corridor
5474	18	32-18 and 34-18 well, 34-18 pit, access road and util. corr.

- a. 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 disturbance 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 disturbance activities within ½ mile of occupied raptor nests from February 1 to July 31.
 - b. Nest productivity checks shall be completed for the first five years following project completion. 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. Nests to be checked are within a ½ mile or less of the proposed development.
 - c. 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.
3. The following conditions will reduce impacts to sage grouse:
 - a. No surface disturbing activities are permitted within 2 miles of the following leks; Wildcat, Case I, Case II, Case III, Spotted Horse, Box Draw, Fitch Prong Road, Kretschman, Ridgetop 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 **The entire project area.**
If an active sage grouse lek is identified during the survey, the 2 mile timing restriction (March 1-June 15) will be applied and disturbance activities will not be permitted until

after the nesting season. If surveys indicate that the identified lek is inactive during the current breeding season, disturbance 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.

Cultural

1. Site 48 CA 6290, a stone circle site adjacent to the infrastructure corridor in the SW ¼ of Section 21, T54N R74W, shall have a protective fence barrier at the junction of the road from Dry Gulch with the north-south service road, to discourage vehicles from parking off road in this area. Infrastructure will be installed in or west of the north-south service road.

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 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 6 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. 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 West Gas Beta 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 Anadarko Petroleum Corp. 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 (WY07F0075) 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 Casey Freise @ 307-684-1189 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 sown 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 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 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 with 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	200
2 - 4	100
4 - 5	75
> 5	50

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.