

Appendix 1
BLM RECOMMENDED CONDITIONS OF APPROVAL FOR CONVENTIONAL
APPLICATION
FOR PERMIT TO DRILL

EOG is under no obligation to abide by the following recommended measures.
Project 808, supported by Environmental Assessment (EA), WY-070-EA11-284

Operator: EOG Resources, Inc.

Field Office: Buffalo Field Office
Address: 1425 Fort Street
Buffalo, Wyoming 82834

Office Telephone Number: 307-684-1100

SITE SPECIFIC

1. The operator must provide the BLM a true and complete copy of a document in which the owner of the surface or that owner's representative authorizes the operator to drill a Federal well from non-Federal lands, and in which the surface owner or representative guarantees the Department of the Interior (Department), including BLM, access to the non-Federal lands to perform all necessary surveys and inspections. (justification, Instruction Memorandum No. 2009-078, p-2, paragraph 6)

Vegetation and Soils

1. All fill material is to be placed in shallow lifts (6" to 12"), moisture applied, and compacted to a 95% maximum standard density as determined by AASHTO T-99. (justification, see EOG Arbalest Project 808 EA# WY-070-11-284, p-45 through p-46)
2. Initiate interim reclamation measures within 30 days following well drilling and completion activities. Interim reclamation will be completed within six months of the completion of well pad and location development, per Onshore Order 1. (justification, see EOG Arbalest Project 808 EA# WY-070-11-284, p-45 through p-46)
3. Surface disturbing activities will not occur for the Arbalest 20-18H and Arbalest 20-18H wells (PAD 18) wells and associated infrastructure until EOG must acquires a USFS road use permit for the proposed access road that crosses USFS land located in T41N R72W NENW Section 18 prior to construction. (justification, see EOG Arbalest Project 808 EA# WY-070-11-284, p-1)

Wildlife

1. Heater/treater units on well pads will have bird perch deterrents installed. (justification, see EOG Arbalest Project 808 EA# WY-070-11-284, p-47 through p-50).
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 timing stipulation will affect those nests and wells reference4d in table 6. Below (justification, see EOG Arbalest Project 808 EA, WY-070-11-284, p-47 through p-50):

Table 4.2. (retaining numbering from EA WY-070-EA11-284) Active Raptor Nests within 0.5 mile of Proposed Well Pads

HWA Nest ID	BLM Nest ID	Species	2011 Status	Nest Condition	Wells within 0.5 mile	Distance (miles)	Direction from Well
162	3723	Red-tailed Hawk	Active	Excellent	Arbalest 19-18H	0.36	E
					Arbalest 20-18H	0.35	E
					Arbalest 223-18H	0.33	E
					Arbalest 224-18H	0.32	E
					Arbalest 225-07H	0.21	SW
					Arbalest 226-07H	0.22	SW
					Arbalest 36-07H	0.23	SW
					Arbalest 37-07H	0.24	SW
164	4586	Red-tailed Hawk	Active	Excellent	Arbalest 22-15H	0.27	E
					Arbalest 229-15H	0.26	E
					Arbalest 230-15H	0.26	E
					Arbalest 23-15H	0.25	E
					Arbalest 231-15H	0.15	NW
					Arbalest 232-15H	0.16	NW
					Arbalest 39-15H	0.13	NW
					Arbalest 40-15H	0.14	NW
150	2890	Ferruginous Hawk	Active	Excellent	Arbalest 214-22H	0.32	N
					Arbalest 216-22H	0.32	N
					Arbalest 45-22H	0.31	N
					Arbalest 46-22H	0.32	N
89	2014	Great Horned Owl	Active	Good	Arbalest 220-24H	0.43	N
					Arbalest 221-24H	0.44	N
					Arbalest 49-24H	0.39	N
					Arbalest 50-24H	0.41	N

3. 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.). (Justification, see EOG Arbalest Project 808 EA, WY-070-11-284, p-47 through p-50)
4. 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.
5. Pre-construction surveys would be conducted for mountain plover at well pads with potential habitat between May 1 and June 15. If plovers are found, a disturbance-free buffer zone of 0.25 mile will be

established around all mountain plover nesting locations (Arbalest 49-24H) between March 15 and July 31. (Justification, see EOG Arbalest Project 808 EA, WY-070-11-284, p-47 through p-50)

STANDARD

General

1. Temporarily fence reseeded areas, as requested, for at least two complete growing seasons to insure reclamation success on problematic sites (e.g. close to livestock watering source, erosive soils etc.).

Construction

1. Construction and drilling activity will not be conducted using frozen or saturated soil material during periods when excessive rutting is likely to occur.
2. 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.
3. 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.
4. Construct the backslope no steeper than ½:1, and construct the foreslope no steeper than 2:1, unless otherwise directed by the BLM Authorized Officer.
5. 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.
6. To minimize electrocution potential to birds of prey, all overhead electrical power lines will be constructed to standards identified by the Avian Power Line Interaction Committee (1996).
7. 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.
8. Reserve pits will be adequately fenced during and after drilling operations until pit reclaimed so as to effectively keep out wildlife and livestock. This requires that it be fenced on the three nonworking sides prior to drilling and on the remaining side immediately following rig release. Fencing will be constructed in accordance with BLM specifications. (Plastic snow fence is not acceptable fencing for conventional wells.)
9. The minimum diameter for culverts will be 18 inches. However, all culverts will be appropriately sized in accordance with standards in BLM Manual 9113.
10. Construction and other project-related traffic will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
11. Maximum design speed on all operator constructed and maintained roads will not exceed 25 miles per hour.

12. 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.
13. Pipeline trenches shall be compacted during backfilling. Pipeline trenches shall be routinely inspected and maintained to ensure proper settling, stabilization and reclamation.
14. 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.
15. 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.
16. 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.

Operations/Maintenance

1. Confine all equipment and vehicles to the access road(s), pad(s), and area(s) specified in the approved APD or POD.
2. 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.
3. 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.
4. 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.
5. 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 this project, is Covert Green (18-0617 TPX).

6. Sewage shall be placed in a self-contained, chemically treated porta-potty on location.
7. 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 this well 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.
8. 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.

DryHole/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 recontoured 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 recontouring pit area. The operator will be responsible for recontouring 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 recontour 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 following the contour.
6. 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

7. 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:

**10-14" Precipitation Zone
Sandy Ecological Site
Seed Mix**

Species		% in Mix	Lbs PLS*
<i>Thickspike Wheatgrass</i> (<i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>)		20	2.4
<i>Prairie sandreed</i> (<i>Calamovilfa longifolia</i>)		30	3.6
<i>Indian ricegrass</i> (<i>Achnatherum hymenoides</i>)		20	2.4
<i>Needleandthread</i> (<i>Hesperostipa comata</i> ssp. <i>comata</i>)		15	1.8
<i>Prairie coneflower</i> (<i>Ratibida columnifera</i>)		5	0.6
<i>White or purple prairie clover</i> (<i>Dalea candidum</i> , <i>purpureum</i>)		5	0.6
<i>Scarlet Globemallow</i> (<i>Sphaeralcea coccinea</i>) / or <i>Blue flax</i> (<i>Linum lewisii</i>)		5	0.6
Totals		100%	12 lbs/acre

*PLS = pure live seed

*Northern Plains adapted species

*Double this rate if broadcast seeding

This is a recommended seed mix based on the native plant species listed in the NRCS Ecological Site descriptions, U.W. College of Ag., and seed market availability. A site-specific inventory will allow the resource specialist to suggest the most appropriate species, percent composition, and seeding rate for reclamation purposes.

Slopes too steep for machinery may be hand broadcast and raked with twice the specified amount of seed.

8. BLM will not release the performance bond until the area has 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.

9. A Notice of Intent to Abandon and a Subsequent Report of Abandonment must be submitted for abandonment approval.
10. 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.
11. Soil fertility testing and the addition of soil amendments may be required to stabilize some disturbed lands.
12. Any mulch utilized for reclamation needs to be certified weed free.