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

SURFACE USE
CONDITIONS OF APPROVAL

POD Name: East Badger POD

Operator: Nance Petroleum Corporation

List of Wells:
***NOTE: These APD's will be held pending the 30 day Public posting period ending October 6, 2007.**

	Well Name	Well #	QTR	Sec	TWP	RNG	Lease
1	East Badger Federal	04-01CK	NENE	4	57N	80W	WYW146964
2	East Badger Federal	04-01KB	NENE	4	57N	80W	WYW146964
3	East Badger Federal	04-03CK	NENW	4	57N	80W	WYW146964
4	East Badger Federal	04-03KB	NENW	4	57N	80W	WYW146964
5	East Badger Federal	04-09CK	NESE	4	57N	80W	WYW146964
6	East Badger Federal	04-09KB	NESE	4	57N	80W	WYW146964
7	East Badger Federal	*04-09WIW	NESE	4	57N	80W	WYW146964
8	East Badger Federal	04-11CK	NESW	4	57N	80W	WYW146964
9	East Badger Federal	04-11KB	NESW	4	57N	80W	WYW146964
10	East Badger Federal	05-01CK	NENE	5	57N	80W	WYW146964
11	East Badger Federal	05-01KB	NENE	5	57N	80W	WYW146964
12	East Badger Federal	*05-02CK	NWNE	5	57N	80W	WYW146964
13	East Badger Federal	*05-02KB	NWNE	5	57N	80W	WYW146964
14	East Badger Federal	06-01CK	NENE	6	57N	80W	WYW146964
15	East Badger Federal	06-01KB	NENE	6	57N	80W	WYW146964
16	East Badger Federal	06-03KB	NENW	6	57N	80W	WYW146964
17	East Badger Federal	06-03CK	NENW	6	57N	80W	WYW146964
18	East Badger Federal	06-09CK	NESE	6	57N	80W	WYW146964
19	East Badger Federal	06-09KB	NESE	6	57N	80W	WYW146964
20	East Badger Federal	*06-09WIW	NESE	6	57N	80W	WYW146964
21	East Badger Federal	07-01CK	NENE	7	57N	80W	WYW146964
22	East Badger Federal	07-01KB	NENE	7	57N	80W	WYW146964
23	East Badger Federal	07-04CK	NWNW	7	57N	80W	WYW146964
24	East Badger Federal	07-04KB	NWNW	7	57N	80W	WYW146964
25	East Badger Federal	07-09CK	NESE	7	57N	80W	WYW146964
26	East Badger Federal	07-09KB	NESE	7	57N	80W	WYW146964

	Well Name	Well #	QTR	Sec	TWP	RNG	Lease
27	East Badger Federal	*07-09WIW	NESE	7	57N	80W	WYW146964
28	East Badger Federal	07-14CK	SESW	7	57N	80W	WYW146964
29	East Badger Federal	07-14KB	SESW	7	57N	80W	WYW146964
30	East Badger Federal	08-01CK	NENE	8	57N	80W	WYW146965
31	East Badger Federal	08-01KB	NENE	8	57N	80W	WYW146965
32	East Badger Federal	08-03CK	NENW	8	57N	80W	WYW146965
33	East Badger Federal	08-03KB	NENW	8	57N	80W	WYW146965
34	East Badger Federal	08-09CK	NESE	8	57N	80W	WYW146965
35	East Badger Federal	08-09KB	NESE	8	57N	80W	WYW146965
36	East Badger Federal	08-11CK	NESW	8	57N	80W	WYW146965
37	East Badger Federal	08-11KB	NESW	8	57N	80W	WYW146965
38	East Badger Federal	09-01CK	NENE	9	57N	80W	WYW146965
39	East Badger Federal	09-01KB	NENE	9	57N	80W	WYW146965
40	East Badger Federal	09-03KB	NENW	9	57N	80W	WYW146965
41	East Badger Federal	09-03CK	NENW	9	57N	80W	WYW146965
42	East Badger Federal	*09-03WIW	NENW	9	57N	80W	WYW146965
43	East Badger Federal	09-09CK	NESE	9	57N	80W	WYW146965
44	East Badger Federal	09-09KB	NESE	9	57N	80W	WYW146965
45	East Badger Federal	09-11CK	NESW	9	57N	80W	WYW146965
46	East Badger Federal	09-11KB	NESW	9	57N	80W	WYW146965
47	East Badger Federal	15-01CK	NENE	15	57N	80W	WYW146965
48	East Badger Federal	15-01KB	NENE	15	57N	80W	WYW146965
49	East Badger Federal	15-03CK	NENW	15	57N	80W	WYW160916
50	East Badger Federal	15-03KB	NENW	15	57N	80W	WYW160916
51	East Badger Federal	*15-03WIW	NENW	15	57N	80W	WYW160916
52	East Badger Federal	15-11CK	NESW	15	57N	80W	WYW160916
53	East Badger Federal	15-11KB	NESW	15	57N	80W	WYW160916
54	East Badger Federal	17-01CK	NENE	17	57N	80W	WYW146965
55	East Badger Federal	17-01KB	NENE	17	57N	80W	WYW146965
56	East Badger Federal	*17-01WIW	NENE	17	57N	80W	WYW146965
57	East Badger Federal	17-03CK	NENW	17	57N	80W	WYW146965
58	East Badger Federal	17-03KB	NENW	17	57N	80W	WYW146965
59	East Badger Federal	17-09CK	NESE	17	57N	80W	WYW146965
60	East Badger Federal	17-09KB	NESE	17	57N	80W	WYW146965
61	East Badger Federal	17-11CK	NESW	17	57N	80W	WYW146965
62	East Badger Federal	17-11KB	NESW	17	57N	80W	WYW146965
63	REMU East Badger Federal	30-19CK	NWSW	30	58N	80W	WYW146969

	Well Name	Well #	QTR	Sec	TWP	RNG	Lease
64	REMU East Badger Federal	30-19KB	NWSW	30	58N	80W	WYW146969
65	REMU East Badger Federal	33-01CK	NENE	33	58N	80W	WYW142849
66	REMU East Badger Federal	33-01KB	NENE	33	58N	80W	WYW142849
67	REMU East Badger Federal	33-11CK	NESW	33	58N	80W	WYW142849
68	REMU East Badger Federal	33-11KB	NESW	33	58N	80W	WYW142849
69	REMU East Badger Federal	*33-10CK	NWSE	33	58N	80W	WYW142849
70	REMU East Badger Federal	*33-10KB	NWSE	33	58N	80W	WYW142849
71	REMU East Badger Federal	34-01CK	NENE	34	58N	80W	WYW142849
72	REMU East Badger Federal	34-01KB	NENE	34	58N	80W	WYW142849
73	REMU East Badger Federal	35-01CK	NENE	35	58N	80W	WYW142849
74	REMU East Badger Federal	35-01KB	NENE	35	58N	80W	WYW142849
75	REMU East Badger Federal	*35-01WIW	NENE	35	58N	80W	WYW142849
76	REMU East Badger Federal	35-03CK	NENW	35	58N	80W	WYW142849
77	REMU East Badger Federal	35-03KB	NENW	35	58N	80W	WYW142849
78	REMU East Badger Federal	35-09CK	NESE	35	58N	80W	WYW142849
79	REMU East Badger Federal	35-09KB	NESE	35	58N	80W	WYW142849
80	REMU East Badger Federal	*35-12CK	NWSW	35	58N	80W	WYW142849
81	REMU East Badger Federal	*35-12KB	NWSW	35	58N	80W	WYW142849

List of Impoundments:
***NOTE: These are secondary impoundments and may not be constructed prior to submittal of the appropriate bond to BLM.**

	IMPOUNDMENT Name / Number	Qtr/Qtr	Section	TWP	RNG	Capacity (Acre Feet)	Surface Disturbance (Acres)	Lease Number
1	*Upper Antelope	NWNE	35	58	80	2.63	1	WYW142849
2	P57-80-04-04	NWNW	4	57	79	18.6	3	WYW146964
3	*P57-80-17-10	NWSE	17	57	80	14.1	2.4	WYW146965
4	P58-80-34-11	NESW	34	58	80	29.08	3.3	WYW144813
5	P57-80-10-11	NESW	10	57	80	12.86	2.1	WYW142848
6	57-80-03-03 Reservoir	NENW	3	57	80	44.94	6.5	NA
7	57-80-03-05 Reservoir	SWNW	3	57	80	25.43	4.6	NA
8	57-80-20-01 Reservoir	NENE	20	57	80	14.34	2.8	NA

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:
   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. Concerns regarding the quality of the discharged CBNG water on downstream irrigation use may require operators to increase the amount of storage of CBNG water during the irrigation months and allow more surface discharge during the non-irrigation months.

4. 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.

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.

Vegetation

1. Temporarily fence reseeded areas, if not already fenced, for at least two complete growing seasons to insure reclamation success on problematic sites (e.g. close to livestock watering source, erosive soils etc.).

Wetland/Riparian

1. Power line corridors will avoid wetlands, to the extent possible, in order to reduce the chance of waterfowl hitting the lines. Where avoidance can't occur, the minimum number of poles necessary to cross the area will be used.

2. Wetland areas will be disturbed only during dry conditions (that is, during late summer or fall), or when the ground is frozen during the winter.

3. No waste material will be deposited below high water lines in riparian areas, flood plains, or in natural drainage ways.

4. The lower edge of soil or other material stockpiles will be located outside the active floodplain.

5. Disturbed channels will be re-shaped to their approximate original configuration or stable geomorphological configuration and properly stabilized.

6. 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 locate facilities so that noise from the facilities at any nearby sage grouse or sharp-tailed grouse display grounds does not exceed 49 decibels (10 dBA above background noise) at the display ground.

3. 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.

4. All stock tanks shall include a ramp to enable trapped small birds and mammals to escape. See Idaho BLM Technical Bulletin 89-4 entitled Wildlife Watering and Escape Ramps on Livestock Water Developments: Suggestions and Recommendations.

Threatened, Endangered, or Sensitive Species

Bald Eagle

1. Special habitats for raptors, including wintering bald eagles, will be identified and considered during the review of Sundry Notices.

2. Additional mitigation measures may be necessary if the site-specific project is determined by a BLM biologist to have adverse effects to bald eagles or their habitat.

Black-footed Ferret

1. Prairie dog colonies will be avoided wherever possible.

Ute Ladies'-tresses Orchid

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

Visual Resources

1. The Companies will mount lights at compressor stations and other facilities 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.

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 form 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 plan of development. Refer to section 2.3.1 "Changes as a result of the onsite" on pages 11-15 of EA#WY-070-07-189. See Attachment 1.
2. All Nance Petrolium Corporation representatives and contractors will have a copy of the approved POD map and conditions of approval with them at all times while conducting activities within the East Badger POD project area.

3. The operator will follow the guidance provided in the Wyoming Policy on Reclamation (IM WY-90-231) specifically the following:
   Reclamation Standards:
   1. 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.
   2. 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.
   3. 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.
   4. 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. Provide 4" of aggregate where grades exceed 8%. Surfacing material must meet requirements set forth in Wyoming Supplement to BLM Road Manual 9113.

5. 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 waterbars shall be placed according to the following spacing:

Grade	Drainage Spacing
2-4%	310 ft
5-8%	260 ft
9-12%	200 ft
12-16%	150 ft

6. Top soil will be segregated for all excavation including the entire disturbance area for constructed pads and excavated areas for rig leveling, reserve pits, constructed roads, spot upgrades, reservoir upgrades, outfalls and utility trenches. This requirement will be waved for trenches installed with wheel trenchers.

7. 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 East Badger POD is Covert Green.

8. If produced water is to be applied to road surfaces as dust abatement, the operator needs an approved Wyoming Oil & Gas Commission Facility Information for Road Application of Waste and Waste Water (Form 20) along with the proposed action describing locations, application rates, etc. Form 20 is available at http://wogcc.state.wy.us.

9. The following road description forms corresponding to the appropriate road design will be submitted to BLM prior to road construction: 09-01, 09-06, 26-11, 28-12, 30-06, 32-15 and 33-01.

10. "Roughed-in" or "Pioneer" roads shall be constructed according to the line and grade shown in the approved engineering design. 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.
    a. Improved roads with utility corridor will not exceed 45 feet with clearing and blading not to exceed 35 feet unless specific design is included in the plan and profile section of the master surface use plan.
    b. Primitive roads (2-tracks) with utility corridor will not exceed a disturbance width of 30 feet with clearing and blading not to exceed 20 feet. Construction of primitive roads access/utility corridor within the POD will minimize impact to sagebrush by minimizing road width, mowing and wheel trenching

11. Adequate drainage control must be in place at all stages of construction and culverts installed as soon as feasible.

12. Final grading and surfacing shall occur immediately after utility installation is complete. All rills, gullies, and other surface defects shall be ripped to the full depth of erosion across the entire width of the roadway prior to final grading and surfacing.

13. Horizontal curves with radius less than 220 feet require curve widening as follows:

Turning Radius (ft)	Min. Curve Widening (ft)	Widened Lane Width (ft)
220 +	0	12
120 to 219	2	14
90 to 119	4	16
50 to 89	8	20

14. All roads, well pads, rig slot, culverts, spot upgrades and locations where engineered construction will occur will be completely slope staked for the pre-construction meeting.

15. Disturbance for pipelines and utility corridors adjacent to access roads will be contained within the disturbance allowed for road construction.

16. Pipeline installation and/or corridors without road access will not exceed a disturbance width of 30 feet with clearing and blading not to exceed 20 feet.

17. Utility corridors will be expediently reclaimed following construction and maintained in a professional and workmanship manner avoiding tire rutting, settling and erosion.

18. A minimum 20 foot undisturbed vegetative buffer will be maintained for erosion features and drainages along the access roads to the following well locations: 15-01CK/KB, 33-01CK/KB, 34-01CK/KB and 30-19CK/KB.

19. Mowing at the well site where a constructed pad is not approved as designed will be minimized to a 75 foot radius of the well stake.

20. The operator will maintain well drilling, completion and associated construction operations within a 100 foot by 200 foot work area for those locations where a constructed pad is not approved as designed.

21. The following impoundments are considered secondary and may not be constructed prior to submittal of the appropriate bond to BLM under sundry notice Form 3160-5 for change of status: Upper Antelope reservoir and Pit 57-80-17-10.

22. This decision does not approve water disposal from federal wells in the East Badger POD to be discharged into any impoundments until the operator supplies a copy of the complete approved SW-4, SW-3, or SW-CBNG WSEO permits with a description of facilities as required in Onshore Oil and Gas Order No. 7 (59 FR 47365) to BLM authorized officer, and approval is obtained.

23. This decision does not approve water disposal from federal wells within the East Badger POD into impoundments. Prior to discharging water from the approved wells the to impoundments the operator is required to submit a copy of the State of Wyoming approved WYPDES permit, including a current water quality analysis and description of facilities as required in Onshore Oil and Gas Order No. 7 (59 FR 47365).

24. An impoundment will be non-compliant if the proposed mitigation, or approved action, is not successful, i.e. leaking if permitted under full-containment. Disposal of federally produced water will cease into the non-compliant impoundment until successful mitigation is achieved. If produced water resurfaces below the mitigation site, or in adjacent drainages, the mitigation will be deemed unsuccessful and the impoundment will be lined or reclaimed.

25. Segregated top soil will be redistributed once the instillation of gas, water and electrical utilities is complete at the well head.

26. Reserve pits containing frozen fluids will not be closed. See “Operations/Maintenance”, COA #10 of the Conditions of Approval document for further clarification.

27. Top soil will be segregated for all excavation including the entire disturbance area for constructed pads and excavated areas for rig slots, reserve pits, constructed roads, spot upgrades, reservoir upgrades, outfalls and utility trenches. Segregation will not be required for trenches installed with wheel trenchers.

28. Reserve pit will be lined at the following locations: 09-11CK/KB

29. Disturbance areas mentioned below have fragile soils and erosive conditions that shall be stabilized in a manner which eliminates erosion until a self-perpetuating non-weed native plant community has stabilized the site. Stabilization efforts shall be finished within 30 days of the completion of construction activities.

- Well site(s): 05-02, 06-01, 06-03, 06-09, 07-01, 07-04, 07-09, 07-14, 08-09, 09-01, 09-11, 15-11 and 33-10
- Road / Pipeline segments associated with well(s): 06-01, 06-03, 06-09, 07-01, 07-04, 07-09, 07-14, 08-09, 09-11, 15-11, 17-01 and 17-03
- Roads and Pipeline segment(s): 06-01 and 08-01 to LVS20

30. 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:

Seed Mix

Shallow Loamy Ecological Site Seed Mix, 15-19" Precipitation Zone		
Species	**% in Mix**	**Lbs PLS***
Western Wheatgrass - *Rosana*	20	2.4
Idaho fescue – *Joseph*	30	3.6
Bluebunch wheatgrass – *Secar or P-7*	30	3.6
Rocky Mountain beeplant (Cleome serrulata)	10	1.2
Lewis - *Appar*, Blue, or Scarlet flax	5	0.6
White – *Antelope* or Purple Prairie Clover - *Bismarck*	5	0.6
Total	**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.

Wildlife

1. The following conditions will alleviate impacts to raptors:
   a. 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*
58/80	33	**Wells: 33-01CK & KB, 33-11CK & KB, and 33-10CK & KB** **ALL** project related activities within this **ENTIRE** section.
58/80	34	**Impoundment: Pit 34-11** **ALL** project related activities within this **ENTIRE** section, **south of the VS 30**.
57/80	3	**Impoundment: Res. 03-03** **ALL** project related activities within the **NENW ¼ ¼** of this section.
57/80	4	**Wells: Fed 04-01CK & KB and Fed 04-03CK & KB** **Impoundment: Pit 04-04** **ALL** project related activities within the **NE ¼ and NENW ¼ ¼** of this section.
57/80	6	**ALL** project related activities within the **SESE ¼ ¼** of this section.
57/80	7	**Wells: 07-01CK & KB** **ALL** project related activities within the **NENE and SENE ¼ ¼s** of this section.
57/80	8	**Wells: 08-03CK & KB** **ALL** project related activities within the **NW ¼** of this section.
57/80	15	**Wells: 15-03CK & KB and 15-11CK & KB** **ALL** project related activities within the **west ½ and NWNE ¼ ¼** of this section.

   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 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 surface disturbance activities within ½ mile of occupied raptor nests from February 1 to July 31.
   c. 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.
   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.

2. No surface disturbing activity shall occur within 0.25 miles of all identified burrowing owl nests from April 15 through August 31, annually, prior to a burrowing owl nest occupancy survey for the current breeding season. A 0.25 mile buffer will be applied if a burrowing owl nest is identified. This condition will be implemented on an annual basis for the duration of surface disturbing activities within the prairie dog town(s). This **timing limitation will affect the following proposed wells and their associated infrastructure:**

Township/Range	*Section*	*Affected Wells and Infrastructure*
57/80	3	**Impoundments: Res. 03-03 and Res 03-05** **ALL** project related activities within the **NW ¼** of this section.

3. The following conditions will alleviate impacts to sage grouse:
   a. No surface disturbing activities are permitted within 2 miles of any greater sage-grouse leks between March 1 and June 15, prior to completion of a greater sage-grouse lek survey. **This condition will be implemented on an annual basis for the duration of surface disturbing activities.** This timing limitation will affect the following wells and infrastructure:

Township/Range	*Section*	*Affected Wells and Infrastructure*
58/80	26	**ALL** proposed project related activities within this **ENTIRE** section.
58/80	27	**ALL** proposed project related activities within the **east ½** of this section.
58/80	34	**Wells: Fed 34-01CK & KB** **ALL** project related activities within the **east ½** of this section.
58/80	35	**Wells: 35-01 CK & KB, 35-03 CK & KB, 35-09 CK & KB, and 35-12 CK & KB** **Impoundment: Upper Antelope** **ALL** proposed project related activities within this **ENTIRE** section.

   b. 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.
   c. Creation of raptor hunting perches will be avoided within 0.5 mile of documented sage grouse lek sites. Perch inhibitors will be installed to deter avian predators from preying on sage grouse.

4. The following conditions will alleviate impacts to sharp-tailed grouse:
   a. Sharp-tailed grouse surveys are required throughout the project area for the current breeding season and results reviewed by a BLM biologist. If an active lek is identified during the survey, the 0.64 mile timing restriction (March 1-June 15) will be applied and surface disturbing activities will not be permitted until after the nesting season. If surveys indicate that the identified lek is inactive during the current breeding season, surface disturbing activities may be permitted within the 0.5 mile buffer until the following breeding season (April 1). The required sharp-tailed grouse survey will be

conducted by a biologist following WGFD protocol. All survey results shall be submitted in writing to a Buffalo BLM biologist.

b. Creation of raptor hunting perches will be avoided within 0.64 miles of documented sharp-tailed grouse lek sites. Perch inhibitors will be installed to deter avian predators from preying on sharp-tailed grouse.

Cultural:

1. The cultural inventory was field checked on 6/19/07. Due to unusually heavy vegetation cover and later access concerns by a landowner (hunting season), the Bureau did not have the opportunity to perform compliance checks for the majority of cultural inventory. The compliance checks will be performed during the pre-construction onsite. If any cultural resources are discovered during the compliance checks, they will be treated a discovery as outlined in Standard Condition of Approval #1 of the EA.

2. A site form update must be completed for site 48SH1389 before the construction of the utility corridor through the site boundaries. The Wyoming Cultural Properties Form site form update must include an updated cover page (Section 1-5), narrative description (section 7), and updated linear description pages (section 8G) including site condition photos.

Please contact Jim Verplancke, Natural Resource Specialist, @ (307) 684-1057, Bureau of Land Management, Buffalo, if there are any questions concerning these surface use COAs.

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 East Badger 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 Nance Petroleum Corporation 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 Jim

Verplancke, NRS @ 307-684-1057 at least 4-days prior to beginning operations so that the meeting can be scheduled. The operator is responsible for having all contractors present (dirt contractors, drilling contractor, pipeline contractor, project oversight personnel, etc.) including the overall field operations superintendent, and for providing all contractors copies of the approved POD, project map and BLM Conditions of Approval pertinent to the work that each will be doing.

2. The operator will limit vegetation removal and the degree of surface disturbance wherever possible. Where surface disturbance cannot be avoided, all practicable measures will be utilized to minimize erosion and stabilize disturbed soils.
3. Construction and drilling activity will not be conducted using frozen or saturated soil material during periods when watershed damage or excessive rutting is likely to occur.
4. Remove all available topsoil (depths vary from 4 inches on ridges to 12+ inches in bottoms) from constructed well locations including areas of cut and fill, and stockpile at the site. Topsoil will also be salvaged for use in reclamation on all other areas of surface disturbance (roads, pipelines, etc.). Clearly segregate topsoil from excess spoil material. Any topsoil stockpiled for one year or longer will be signed and stabilized with annual ryegrass or other suitable cover crop.
5. The operator will not push soil material and overburden over side slopes or into drainages. All soil material disturbed will be placed in an area where it can be retrieved without creating additional undue surface disturbance and where it does not impede watershed and drainage flows.
6. Construct the backslope no steeper than 1½:1, and construct the foreslope no steeper than 2:1, unless otherwise directed by the BLM Authorized Officer.
7. Maintain a minimum 20-foot undisturbed vegetative border between toe-of-fill of pad and/or pit areas and the edge of adjacent drainages, unless otherwise directed by the BLM Authorized Officer.
8. With the overall objective of minimizing surface disturbance and retaining land stability and productivity, the operator shall utilize equipment that is appropriate to the scope and scale of work being done for roads and well pads (utilize equipment no larger than needed for the job).
9. To minimize electrocution potential to raptors, all overhead electrical power lines will be constructed to Avian Power Line Interaction Committee (1996) standards and additional standards identified in the PRB FEIS Biological Opinion (Volume 3, Appendix K, page 43).
10. The operator shall utilize wheel trenchers or ditchers to construct all pipeline trenches, except where extreme topography or other environmental factors preclude their use.

11. Reserve pits will be adequately fenced during and after drilling operations until pit is reclaimed so as to effectively keep out wildlife and livestock. Adequate fencing, in lieu of more stringent requirements by the surface owner, is defined as follows:
    - Construction materials will consist of steel or wood posts. Three or four strand wire (smooth or barbed) fence or hog panel (16-foot length by 50-inch height) or plastic snow fence must be used with connectors such as fence staples, quick-connect clips, hog rings, hose clamps, twisted wire, etc. Electric fences will not be allowed.
    - Construction standards: Posts shall be firmly set in ground. If wire is used, it must be taut and evenly spaced, from ground level to top wire, to effectively keep out animals. Hog panels must be tied securely into posts and one another using fence staples, clamps, etc. Plastic snow fencing must be taut and sturdy. Fence must be at least 2-feet from edge of pit. 3 sides fenced before beginning drilling, the fourth side fenced immediately upon completion of drilling and prior to rig release. Fence must be left up and maintained in adequate condition until pit is closed.
12. The reserve pit will be oriented to prevent collection of surface runoff. After the drilling rig is removed, the operator may need to construct a trench on the uphill side of the reserve pit to divert surface drainage around it. If constructed, the trench will be left intact until the pit is closed.
13. The reserve pit will be lined with an impermeable liner if permeable subsurface material is encountered. An impermeable liner is any liner having a permeability less than 10 ¯7 cm/sec. The liner will be installed so that it will not leak and will be chemically compatible with all substances that may be put in the pit. Liners made of any man-made synthetic material will be of sufficient strength and thickness to withstand normal installation and pit use. In gravelly or rocky soils, a suitable bedding material such as sand will be used prior to installing the liner.
14. The reserve pit will be constructed so that at least half of its total volume is in solid cut material (below natural ground level).
15. Culverts will be placed on channel bottoms on firm, uniform beds, which have been shaped to accept them, and aligned parallel to the channel to minimize erosion. Backfill will be thoroughly compacted.
16. The minimum diameter for culverts will be 18 inches. However, all culverts will be appropriately sized in accordance with standards in BLM Manual 9113.
17. Construction and other project-related traffic will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
18. Maximum design speed on all operator-constructed and maintained roads will not exceed 25 miles per hour.
19. Pipeline construction shall not block nor change the natural course of any drainage. Pipelines shall cross perpendicular to drainages. Pipelines shall not be run parallel in drainage bottoms. Suspended pipelines shall provide adequate clearance for maximum runoff.
20. Pipeline trenches shall be compacted during backfilling. Pipeline trenches shall be routinely inspected and maintained to ensure proper settling, stabilization and reclamation.
21. During construction, emissions of particulate matter from well pad and road construction would be minimized by application of water or other non-saline dust suppressants with at least 50 percent control efficiency. Dust inhibitors (surfacing materials, non-saline dust suppressants, and water) will be used as necessary on unpaved roads that present a fugitive

dust problem. The use of chemical dust suppressants on public surface will require prior approval from the BLM Authorized Officer.

22. Operators are required to obtain a National Pollution Discharge Elimination System (NPDES) Storm Water Permit from the Wyoming DEQ for any projects that disturb five or more acres (changing to one acre in March 2005). This general construction storm water permit must be obtained from WDEQ prior to any surface disturbing activities and can be obtained by following directions on the WDEQ website at http://deq.state.wy.us. Further information can be obtained by contacting Barb Sahl at (307) 777-7570.
23. The operator shall submit a Sundry Notice (Form 3160-5) to BLM for approval prior to construction of any new surface disturbing activities that are not specifically addressed in the approved APD or POD Surface Use Plan.
24. Weed educational material will be reviewed with operators during pre-construction on-site meetings with operators, subcontractors, and landowners and will also be attached to approved APDs and PODs.
25. Companies will contact the counties to pursue development of maintenance agreements to ensure county roads are adequately maintained for the projected increase in use.

C. Operations/Maintenance

1. The operator shall complete coal bed natural gas wells (case, cement and under ream) as soon as possible, but no later than 30 days after drilling operations, unless an extension is given by the BLM Authorized Officer.
2. If in the process of air drilling the wells there is a need to utilize mud, all circulating fluids will be contained either in an approved pit or in an aboveground containment tank. The pit or containment tank will be large enough to safely contain the capacity of all expected fluids without danger of overflow. Fluid and cuttings will not be squeezed out of the pit, and the pit will be reclaimed in an expedient manner.
3. Confine all equipment and vehicles to the access road(s), pad(s), and area(s) specified in the approved APD or POD.
4. All waste, other than human waste and drilling fluids, will be contained in a portable trash cage. This waste will be transported to a State approved waste disposal site immediately upon completion of drilling operations. No trash or empty barrels will be placed in the reserve pit or buried on location. All state and local laws and regulations pertaining to disposal of human and solid waste will be complied with.
5. Rat and mouse holes shall be filled and compacted from the bottom to the top immediately upon release of the drilling rig from the location.
6. The operator will be responsible for prevention and control of noxious weeds and weeds of concern on all areas of surface disturbance associated with this project (well locations, roads, water management facilities, etc.) Use of pesticides shall comply with the applicable Federal and State laws. Pesticides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of Interior. Prior to the use of pesticides on public land, the holder shall obtain from the BLM authorized officer written approval of a plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary by the authorized officer to such use.

7. Sewage shall be placed in a self-contained, chemically treated porta-potty on location.
8. The operator and their contractors shall ensure that all use, production, storage, transport and disposal of hazardous and extremely hazardous materials associated with the drilling, completion and production of these wells will be in accordance with all applicable existing or hereafter promulgated federal, state and local government rules, regulations and guidelines. All project-related activities involving hazardous materials will be conducted in a manner to minimize potential environmental impacts. In accordance with OSHA requirements, a file will be maintained onsite containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds and/or substances which are used in the course of construction, drilling, completion and production operations.
9. Produced fluids shall be put in test tanks on location during completion work. Produced water will be put in the reserve pit during completion work per Onshore Order #7.
10. The only fluids/waste materials which are authorized to go into the reserve pit are RCRA exempt exploration and production wastes. These include:

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

It does not include drilling rig waste, such as:

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

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

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

D. Dry Hole/Reclamation

1. All disturbed lands associated with this project, including the pipelines, access roads, water management facilities, etc will be expediently reclaimed and reseeded in accordance with the surface use plan and any pertinent site-specific COAs.
2. Disturbed lands will be re-contoured back to conform 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:

Grade	Drainage Spacing
2-4%	310 ft
5-8%	260 ft
9-12%	200 ft
12-16%	150 ft

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.

See Attachment 1:

Attachment 1
Changes as a result of the onsite.

Well #'s	QTR	Sec	TWP	RNG	Comments
04-01CK/KB	NENE	4	57N	80W	This location is a hill top requiring a steep vertical pull to access. BLM recommended an alternate location approximately 200 feet SW to an area below the steepest slopes and authorize a designed pad if requested. This avoids both steep slopes and highly erosive soils. Operator agreed.
04-11CK/KB	NENW	4	57N	80W	There is a small drainage crossing to reach the proposed location; BLM recommended moving the location approximately 300' north to avoid the drainage; the operator agreed. MD7 will be moved to the VS16 location as the proposed access road to the north was withdrawn and the existing primitive will be utilized instead.
05-01CK/KB	NENE	5	57N	80W	The proposed location is on a hill top with a designed pad that was not staked. There are high erosion concerns for the pad and access due to slopes and soils. There is an existing primitive road to the east that would facilitate the access & corridor if improved. BLM recommended an alternate well location at the existing road approximately 500 feet NE. Operator agreed to the alternate location.
05-03CK/KB	NENW	5	57N	80W	BLM recommends an alternate location approximately 400 feet east that avoid a drainage crossing with steep ingress/egress; a constructed pad was added. BLM recommended shifting the proposed primitive segment of the access down slope to the edge of and avoiding sage brush. The operator declined the recommendations. New location is in the 5-2 well spot.
06-01CK/KB	NENE	6	57N	80W	The proposed location and access is within an active drainage with a huge watershed above it. The Padlock Ranch is opposed to the access coming up from their surface. The operator staked an alternate location approximately 500' SW on the Chase Farm side of the fence with a constructed pad. The utility corridor will still follow the drainage to the NE but was realigned to cross the drainage avoiding steep cut banks and following a natural bench to the existing Oil & Gas road below. Expedient reclamation will be required for the corridor.
06-03CK/KB	NESE	6	57N	80W	Shallow sandy site warrants expedient reclamation. The access is an existing primitive road with slope>16% and shallow sandy soil; BLM recommends improvements as needed to meet BLM standards in accordance with a centerline profile for the entire road length.
06-09CK/KB & 06-09WIW	NENW	6	57N	80W	The location was moved approximately 300' east to the existing access road for an eyebrow location; 3-6% side slope at this location. Expedient reclamation is warranted due to the shallow sandy soils at this site.

Well #'s	QTR	Sec	TWP	RNG	Comments
06-11CK/KB	NESW	6	57N	80W	Access is designed on >25% slopes with very shallow sandy soil dropping around 280 vertical feet. The design shows the width of disturbance as up to 200'. The landowner representative stressed that it is the ranch's wish to minimize disturbance. There is no need for the road after abandonment and reclamation potential is poor. BLM recommends that the operator withdraw the proposed access and APD's from the POD. The operator agreed.
07-01CK/KB	NENE	7	57N	80W	BLM recommended shifting the start of the proposed start 200' down slope to facilitate a pullout area and avoid steeper side slopes. The road will be rerouted to avoid as much sage brush as possible. Shallow sandy soil warrants expedient reclamation.
07-04CK/KB	NWNW	7	57N	80W	Flat location with shallow sandy soil; expedient reclamation applies for the location and access with corridor.
07-09CK/KB & 07-09WIW	NESE	7	57N	80W	Shallow Sandy site that warrants the expedient reclamation.
07-14CK/KB	SESW	7	57N	80W	Flat location with shallow sandy soil; expedient reclamation applies for the location and access with corridor.
08-01CK/KB	NENE	8	57N	80W	The access to the north is existing to be improved with no issues. The road proposed to the SW is by design through Shallow sandy soils with side slopes and rock outcroppings; this is a loop road that is not necessary; BLM recommends that the SW road be withdrawn; the operator agreed.
08-09CK/KB	NESE	8	57N	80W	This is a tight location at the end of a ridge. BLM recommend that an alternate location be pursued as this is not a suitable location for a pad to be constructed as there is not sufficient building material available as well as highly erosive soil. The operator declined the recommendation on the grounds of spacing/drainage concerns. No pad will be granted here. This location will be inspected with the drilling supervisor during the preconstruction inspection. Expedient reclamation will apply.
09-03CK/KB & 09-03WIW	NENW	9	57N	80W	The designed segment of the access road is through highly erosive soil and sage brush habitat. BLM recommended utilizing an existing road/fire break that follows the drainage and withdrawing the north half of the design segment. The operator agreed.
09-09CK/KB	NESE	9	57N	80W	BLM recommended shifting the road to follow the topography and the operator has agreed to minimize the access roads. The road to the south will be reduced to primitive with spot upgrades. The access to the north will be reduced to an improved road and the 90 degree corner in the design plans will be shifted east to avoid sage brush and steep slopes. This location will be inspected with the drilling supervisor during the preconstruction inspection.

Well #'s	QTR	Sec	TWP	RNG	Comments
09-11CK/KB	NESW	9	57N	80W	There is a 10% vertical grade downhill to the location. BLM recommended pit liners be used due to sandy soil and rock outcrops at the edge of the slope below the location. The access will require design to negotiate a 16% slope with corner with rock outcroppings; Expedient reclamation will apply.
15-01CK/KB	NENW	15	57N	80W	Access realigned to provide a 20' vegetative buffer for erosion feature/outcrop along access road.
15-03CK/KB & 15-03WIW	NESE	15	57N	80W	BLM recommended shifting the access/corridor to follow the existing primitive road; operator agreed.
15-09CK/KB	NESW	15	57N	80W	The access road proposed through highly erosive, shallow sandy soil, rock out crops and >25% slopes with poor reclamation potential. The Team recommended that the operator withdraw the wells from the proposed action. The operator agreed.
15-11CK/KB	NENE	15	57N	80W	Expedient reclamation applies due to shallow sandy soils.
17-01CK/KB & 17-01WIW	NENE	17	57N	80W	BLM recommended moving the location approximately 220 feet south to avoid sage brush habitat; operator agreed. Access road goes through shallow sandy sites – Expedient reclamation applies.
17-03CK/KB	NENW	17	57N	80W	Erosion concern with the vertical slope of the designed access through shallow sandy soil; Expedient reclamation applies.
17-09CK/KB	NESW	17	57N	80W	The utility corridor proposed to the south does not follow the access road. BLM recommended that it be rerouted to follow the proposed/existing access roads and the operator agreed.
17-11CK/KB	NESE	17	57N	80W	This is a tight location and BLM recommended either utilizing a constructed pad or an alternate location. The operator declined. This location will be inspected with the drilling supervisor during the preconstruction inspection.
19-17CK/KB	NWNW	19	58N	80W	APD's withdrawn by the operator prior to the onsite due to access issues.
19-19CK/KB	NWSW	19	58N	80W	This location is inside the Hanging Woman Sage Grouse habitat polygon. The operator has agreed to withdraw these APD's from the proposed action at this time.
33-01CK/KB	NENE	33	58N	80W	There is a blowout area next to the location that will be avoided with a 20' vegetative buffer. Sage grouse brood sign found along the access route. BLM recommended that an alternate location that avoids the sage brush be pursued; operator declined the recommendation. BLM recommended the access be realigned to follow the topography reducing cut & fill; landowner supported and operator agree.

Well #'s	QTR	Sec	TWP	RNG	Comments
33-09CK/KB	NESE	33	58N	80W	BLM recommended an alternate location with larger work space area. The operator agreed to a new location approximately 850' NW. The access is proposed over rough ground including a segment with slopes >25%. The landowner recommended an alternate route along an existing primitive road that follows a fence, dropping down to the abandoned well pad and though a saddle with slopes <16%. The operator agreed to the landowner's recommendation. The new location is in the 33-10 well spot.
33-11CK/KB	NESW	33	58N	80W	The location is a shallow sandy site warranting expedient reclamation. The landowner recommended the proposed access to follow the existing primitive and to cross the fence approximately 400' from the well location. The operator agreed.
34-01CK/KB	NENE	34	58N	80W	BLM recommended that the utility corridor from VS30 north be shifted to the west and follow the main access road; the landowner supports the recommendation. The access encroaches on headcuts and the drainage below; a 20 foot vegetative buffer for headcuts and drainage is required. The operator agreed.
34-09CK/KB	NESE	34	58N	80W	The proposed location is a hill top with a blowout area providing a tight work space. BLM recommended an alternate location to avoid erosive soils; the operator agreed to a location approximately 400' west.
35-01CK/KB & 35-01WIW	NENE	35	58N	80W	The operator recommended an alternate location next to the Upper Antelope reservoir and withdrawing the proposed access to avoid a raptor nest. BLM agreed and the proposed designed access withdrawn. The landowner recommended a new access that will come around the east side of the Upper Antelope reservoir and cross the dam. Temporary access will be allowed through the existing, dry reservoir where a crossing will be developed by laying the slopes back to meet BLM Guildlines this will also facilitate the utility corridor.
35-03CK/KB	NENW	35	58N	80W	The utility corridor between the 35-03 and the 35-11 locations re-routed to follow the access road.
35-09CK/KB	NESE	35	58N	80W	The access was re-routed and the new access will be from the Upper Antelope reservoir. BLM agreed with the alternate access route and proposed utility corridor alignment to follow the topography and avoid excessive cut and fill. New access will be improved from the Upper Antelope reservoir following the contour.
35-11CK/KB	NESW	35	58N	80W	The proposed location is on 6% slopes over rough ground in good sage brush. BLM recommended moving the location approximately 200 feet west to avoid sage brush habitat; the operator agreed. New location is in the 35-12 well spot. The utilities between the 35-03 and the 35-11 will be kept tight with the access road.
30-17CK/KB	NWNW	30	58N	80W	This location is inside the Hanging Woman Sage Grouse habitat polygon. The operator has agreed to withdraw these APD's from the proposed action at this time.

Well #'s	QTR	Sec	TWP	RNG	Comments
30-19CK/KB	NWSW	30	58N	80W	The proposed access is designed through blowouts; the landowner recommended an alternate route to avoid erosive soil and steep slopes as well as provide a minimum 20' vegetative buffer for the drainage below. The operator agreed.
08-11KB	NESW	8	57N	79W	This location is within the Otter Cr. Sage grouse polygon. The operator has agreed to withdraw this APD from the proposed action at this time.
09-09KB	NESE	9	57N	79W	This location is within the Otter Cr. Sage grouse polygon. The operator has agreed to withdraw this APD from the proposed action at this time.
17-01KB	NENE	17	57N	79W	This location is within the Otter Cr. Sage grouse polygon and a prairie dog town. The operator has agreed to withdraw this APD from the proposed action at this time.
17-03KB	NENW	17	57N	79W	This location is within the Otter Cr. Sage grouse polygon and a prairie dog town. The operator has agreed to withdraw this APD from the proposed action at this time.
17-09KB	NESE	17	57N	79W	This location is within the Otter Cr. Sage grouse polygon and a prairie dog town. The operator has agreed to withdraw this APD from the proposed action at this time.
17-11KB	NESW	17	57N	79W	This location is within the Otter Cr. Sage grouse polygon and a prairie dog town. The operator has agreed to withdraw this APD from the proposed action at this time.
WMP - Project Wide					Eight proposed CBNG-produced water storage impoundment locations were withdrawn by the operator as these impoundments were proposed within the Otter Cr. Sage grouse polygon and prairie dog towns.