

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

**SURFACE USE
CONDITIONS OF APPROVAL**

POD Name: Pine Tree North and South PODs

Operator: Bill Barrett Corporation

List of Wells:

	Well Name	Well #	Qtr/Qtr	Section	TWP	RNG	Lease #
1	BBC PINE TREE N IBERLIN	43-19	NESE	19	42N	75W	WYW0311966
2	BBC PINE TREE N IBERLIN	14-19	SWSW	19	42N	75W	WYW0311966
3	BBC PINE TREE N IBERLIN	23-19	NESW	19	42N	75W	WYW0311966
4	BBC PINE TREE N IBERLIN	34-19	SWSE	19	42N	75W	WYW0311966
5	BBC PINE TREE N IBERLIN	12-28	SWNW	28	42N	75W	WYW52503
6	BBC PINE TREE N IBERLIN	32-28	SWNE	28	42N	75W	WYW52503
7	BBC PINE TREE N IBERLIN	41-28	NENE	28	42N	75W	WYW52503
8	BBC PINE TREE N IBERLIN	21-28	NENW	28	42N	75W	WYW52503
9	BBC PINE TREE N IBERLIN	12-29	SWNW	29	42N	75W	WYW0258523
10	BBC PINE TREE N IBERLIN	14-29	SWSW	29	42N	75W	WYW0258523
11	BBC PINE TREE N IBERLIN	23-29	NESW	29	42N	75W	WYW0258523
12	BBC PINE TREE N IBERLIN	32-29	SWNE	29	42N	75W	WYW0258523
13	BBC PINE TREE N IBERLIN	34-29	SWSE	29	42N	75W	WYW0258523
14	BBC PINE TREE N IBERLIN	43-29	NESE	29	42N	75W	WYW0258523
15	BBC PINE TREE N IBERLIN	21-30	NENW	30	42N	75W	WYW0311966
16	BBC PINE TREE N IBERLIN	23-30	NESW	30	42N	75W	WYW0311966
17	BBC PINE TREE N IBERLIN	32-30	SWNE	30	42N	75W	WYW0297109
18	BBC PINE TREE N IBERLIN	41-30	NENE	30	42N	75W	WYW0297109
19	BBC PINE TREE N IBERLIN	12-30	SWNW	30	42N	75W	WYW0311966
20	BBC PINE TREE N IBERLIN	14-30	SWSW	30	42N	75W	WYW0311966
21	BBC PINE TREE N IBERLIN	34-30	SWSE	30	42N	75W	WYW0311966
22	BBC PINE TREE N IBERLIN	43-30	NESE	30	42N	75W	WYW0311966
23	BBC PINE TREE N IBERLIN	21-31	NENW	31	42N	75W	WYW0311966
24	BBC PINE TREE N IBERLIN	23-31	NESW	31	42N	75W	WYW0311966
25	BBC PINE TREE N IBERLIN	32-31	SWNE	31	42N	75W	WYW0311966
26	BBC PINE TREE N IBERLIN	34-31	SWSE	31	42N	75W	WYW0311966
27	BBC PINE TREE N IBERLIN	43-31	NESE	31	42N	75W	WYW0311966
28	BBC PINE TREE N IBERLIN	12-31	SWNW	31	42N	75W	WYW0311966
29	BBC PINE TREE N IBERLIN	14-31	SWSW	31	42N	75W	WYW0311966
30	BBC PINE TREE N IBERLIN	41-31	NENE	31	42N	75W	WYW0311966
31	BBC PINE TREE N IBERLIN	12-32	SWNW	32	42N	75W	WYW0258523
32	BBC PINE TREE N IBERLIN	21-32	NENW	32	42N	75W	WYW0258523
33	BBC PINE TREE N IBERLIN	23-32	NESW	32	42N	75W	WYW0258523
34	BBC PINE TREE N IBERLIN	21-33	NENW	33	42N	75W	WYW0311966

	Well Name	Well #	Qtr/Qtr	Section	TWP	RNG	Lease #
35	BBC PINE TREE N SOUTH BUTTE	34-31BG	SWSE	31	43N	75W	WYW59613
36	BBC PINE TREE N SOUTH BUTTE	43-31BG	NESE	31	43N	75W	WYW145163
37	BBC PINE TREE N SOUTH BUTTE	14-32BG	SWSW	32	43N	75W	WYW145163
38	BBC PINE TREE N SOUTH BUTTE	23-32BG	NESW	32	43N	75W	WYW145163
39	BBC PINE TREE N SOUTH BUTTE	34-32BG	SWSE	32	43N	75W	WYW59613
40	BBC PINE TREE N SOUTH BUTTE	23-33BG	NESW	33	43N	75W	WYW50755
41	BBC PINE TREE N T-CHAIR	12-2*	SWNW	2	42N	75W	WYW145149
42	BBC PINE TREE N T-CHAIR	14-2	SWSW	2	42N	75W	WYW145149
43	BBC PINE TREE N T-CHAIR	23-2	NESW	2	42N	75W	WYW145149
44	BBC PINE TREE N T-CHAIR	21-2	NENW	2	42N	75W	WYW145149
45	BBC PINE TREE N T-CHAIR	12-3	SWNW	3	42N	75W	WYW147289
46	BBC PINE TREE N T-CHAIR	34-3	SWSE	3	42N	75W	WYW145149
47	BBC PINE TREE N T-CHAIR	21-3	NENW	3	42N	75W	WYW145149
48	BBC PINE TREE N T-CHAIR	41-3	NENE	3	42N	75W	WYW147289
49	BBC PINE TREE N T-CHAIR	12-4	SWNW	4	42N	75W	WYW147290
50	BBC PINE TREE N T-CHAIR	41-4	NENE	4	42N	75W	WYW147289
51	BBC PINE TREE N T-CHAIR	14-4	SWSW	4	42N	75W	WYW147290
52	BBC PINE TREE N T-CHAIR	12-5	SWNW	5	42N	75W	WYW47437
53	BBC PINE TREE N T-CHAIR	14-5	SWSW	5	42N	75W	WYW47437
54	BBC PINE TREE N T-CHAIR	32-5	SWNE	5	42N	75W	WYW47437
55	BBC PINE TREE N T-CHAIR	34-5	SWSE	5	42N	75W	WYW47437
56	BBC PINE TREE N T-CHAIR	43-5	NESE	5	42N	75W	WYW47437
57	BBC PINE TREE N T-CHAIR	21-5	NENW	5	42N	75W	WYW47437
58	BBC PINE TREE N T-CHAIR	23-5	NESW	5	42N	75W	WYW47437
59	BBC PINE TREE N T-CHAIR	41-5	NENE	5	42N	75W	WYW47437
60	BBC PINE TREE N T-CHAIR	23-6	NESW	6	42N	75W	WYW51199
61	BBC PINE TREE N T-CHAIR	14-6	SWSW	6	42N	75W	WYW51199
62	BBC PINE TREE N T-CHAIR	21-7	NENW	7	42N	75W	WYW47437
63	BBC PINE TREE N T-CHAIR	23-7	NESW	7	42N	75W	WYW47437
64	BBC PINE TREE N T-CHAIR	12-7	SWNW	7	42N	75W	WYW47437
65	BBC PINE TREE N T-CHAIR	14-7	SWSW	7	42N	75W	WYW47437
66	BBC PINE TREE N T-CHAIR	12-8	SWNW	8	42N	75W	WYW135616
67	BBC PINE TREE N T-CHAIR	14-8	SWSW	8	42N	75W	WYW135616
68	BBC PINE TREE N T-CHAIR	23-9	NESW	9	42N	75W	WYW135616
69	BBC PINE TREE N T-CHAIR	32-9	SWNE	9	42N	75W	WYW145149
70	BBC PINE TREE N T-CHAIR	41-9	NENE	9	42N	75W	WYW145149
71	BBC PINE TREE N T-CHAIR	14-10	SWSW	10	42N	75W	WYW145149
72	BBC PINE TREE N T-CHAIR	23-10	NESW	10	42N	75W	WYW145149
73	BBC PINE TREE N T-CHAIR	32-10	SWNE	10	42N	75W	WYW145149
74	BBC PINE TREE N T-CHAIR	43-10	NESE	10	42N	75W	WYW145149
75	BBC PINE TREE N T-CHAIR	12-10	SWNW	10	42N	75W	WYW145149
76	BBC PINE TREE N T-CHAIR	34-10	SWSE	10	42N	75W	WYW145149
77	BBC PINE TREE N T-CHAIR	12-15	SWNW	15	42N	75W	WYW145150
78	BBC PINE TREE N T-CHAIR	14-15	SWSW	15	42N	75W	WYW145150
79	BBC PINE TREE N T-CHAIR	23-15	NESW	15	42N	75W	WYW145150
80	BBC PINE TREE N T-CHAIR	32-15	SWNE	15	42N	75W	WYW145150
81	BBC PINE TREE N T-CHAIR	41-15	NENE	15	42N	75W	WYW145150

	Well Name	Well #	Qtr/Qtr	Section	TWP	RNG	Lease #
82	BBC PINE TREE N T-CHAIR	43-15	NESE	15	42N	75W	WYW145150
83	BBC PINE TREE N T-CHAIR	21-15	NENW	15	42N	75W	WYW145150
84	BBC PINE TREE N T-CHAIR	34-15	SWSE	15	42N	75W	WYW145150
85	BBC PINE TREE N T-CHAIR	12-17	SWNW	17	42N	75W	WYW49881
86	BBC PINE TREE N T-CHAIR	14-17	SWSW	17	42N	75W	WYW49881
87	BBC PINE TREE N T-CHAIR	21-17	NENW	17	42N	75W	WYW0314351A
88	BBC PINE TREE N T-CHAIR	34-17	SWSE	17	42N	75W	WYW0314351A
89	BBC PINE TREE N T-CHAIR	32-18	SWNE	18	42N	75W	WYW43683
90	BBC PINE TREE N T-CHAIR	34-18	SWSE	18	42N	75W	WYW47437
91	BBC PINE TREE N T-CHAIR	41-18	NENE	18	42N	75W	WYW43683
92	BBC PINE TREE N T-CHAIR	43-18	NESE	18	42N	75W	WYW47437
93	BBC PINE TREE N T-CHAIR	14-18	SWSW	18	42N	75W	WYW47437
94	BBC PINE TREE N T-CHAIR	12-20	SWNW	20	42N	75W	WYW0258523
95	BBC PINE TREE N T-CHAIR	14-20	SWSW	20	42N	75W	WYW0258523
96	BBC PINE TREE N T-CHAIR	21-20	NENW	20	42N	75W	WYW0311966
97	BBC PINE TREE N T-CHAIR	41-20	NENE	20	42N	75W	WYW0263740
98	BBC PINE TREE N T-CHAIR	43-20	NESE	20	42N	75W	WYW0258523
99	BBC PINE TREE N T-CHAIR	32-20	SWNE	20	42N	75W	WYW0263740
100	BBC PINE TREE N T-CHAIR	12-21	SWNW	21	42N	75W	WYW0266627
101	BBC PINE TREE N T-CHAIR	14-21	SWSW	21	42N	75W	WYW0266627
102	BBC PINE TREE N T-CHAIR	21-21	NENW	21	42N	75W	WYW0266627
103	BBC PINE TREE N T-CHAIR	23-21	NESW	21	42N	75W	WYW0266627
104	BBC PINE TREE N T-CHAIR	32-21	SWNE	21	42N	75W	WYW0266627
105	BBC PINE TREE N T-CHAIR	34-21	SWSE	21	42N	75W	WYW0266627
106	BBC PINE TREE N T-CHAIR	41-21	NENE	21	42N	75W	WYW0266627
107	BBC PINE TREE N T-CHAIR	43-21	NESE	21	42N	75W	WYW0266627
108	BBC PINE TREE N T-CHAIR	21-22	NENW	22	42N	75W	WYW145150
109	BBC PINE TREE N T-CHAIR	41-22	NENE	22	42N	75W	WYW145150
110	BBC PINE TREE N T-CHAIR	12-22	SWNW	22	42N	75W	WYW145150
111	BBC PINE TREE N T-CHAIR	32-22	SWNE	22	42N	75W	WYW145150
112	BBC PINE TREE N T-CHAIR	21-29	NENW	29	42N	75W	WYW0258523
113	BBC PINE TREE N T-CHAIR	41-29	NENE	29	42N	75W	WYW0258523
114	BBC PINE TREE N T-CHAIR	43-13	NESE	13	42N	76W	WYW158420
115	BBC PINE TREE N T-CHAIR	23-13	NESW	13	42N	76W	WYW128616
116	BBC PINE TREE N T-CHAIR	34-33	SWSE	33	43N	75W	WYW135911
117	BBC PINE TREE N T-CHAIR	43-33	NESE	33	43N	75W	WYW135911
118	BBC PINE TREE N T-CHAIR	14-34	SWSW	34	43N	75W	WYW135911
119	BBC PINE TREE N T-CHAIR	43-34	NESE	34	43N	75W	WYW135911
120	BBC PINE TREE N T-CHAIR	23-34	NESW	34	43N	75W	WYW135911
121	BBC PINE TREE N T-CHAIR	34-34	SWSE	34	43N	75W	WYW135911
122	BBC PINE TREE N T-CHAIR	14-35	SWSW	35	43N	75W	WYW135911
123	BBC PINE TREE N T-CHAIR	23-35	NESW	35	43N	75W	WYW135911
124	BBC PINE TREE S IBERLIN	41-3	NENE	3	41N	75W	WYW0271122
125	BBC PINE TREE S IBERLIN	12-5	SWNW	5	41N	75W	WYW0314361
126	BBC PINE TREE S IBERLIN	32-5	SWNE	5	41N	75W	WYW0314361
127	BBC PINE TREE S IBERLIN	41-5	NENE	5	41N	75W	WYW0314361
128	BBC PINE TREE S IBERLIN	43-5	NESE	5	41N	75W	WYW0314361

	Well Name	Well #	Qtr/Qtr	Section	TWP	RNG	Lease #
129	BBC PINE TREE S IBERLIN	21-5	NENW	5	41N	75W	WYW0314361
130	BBC PINE TREE S IBERLIN	23-5	NESW	5	41N	75W	WYW0314361
131	BBC PINE TREE S IBERLIN	41-8	NENE	8	41N	75W	WYW0275169
132	BBC PINE TREE S IBERLIN	43-8	NESE	8	41N	75W	WYW0275169
133	BBC PINE TREE S IBERLIN	14-32	SWSW	32	42N	75W	WYW0258523
134	BBC PINE TREE S IBERLIN	12-34	SWNW	34	42N	75W	WYW135616
135	BBC PINE TREE S IBERLIN	21-34	NENW	34	42N	75W	WYW135616
136	BBC PINE TREE S OGALALLA	12-21	SWNW	21	41N	75W	WYW31705
137	BBC PINE TREE S OGALALLA	14-21	SWSW	21	41N	75W	WYW31705
138	BBC PINE TREE S OGALALLA	21-21	NENW	21	41N	75W	WYW31705
139	BBC PINE TREE S OGALALLA	23-21	NESW	21	41N	75W	WYW31705
140	BBC PINE TREE S OGALALLA	32-28	SWNE	28	41N	75W	WYW0271124
141	BBC PINE TREE S OGALALLA	41-28	NENE	28	41N	75W	WYW0271124
142	BBC PINE TREE S OGALALLA	21-28	NENW	28	41N	75W	WYW0271124
143	BBC PINE TREE S WALKER CR	21-3	NENW	3	41N	75W	WYW0271122
144	BBC PINE TREE S WALKER CR	32-3	SWNE	3	41N	75W	WYW0271122
145	BBC PINE TREE S WALKER CR	34-3	SWSE	3	41N	75W	WYW0271122
146	BBC PINE TREE S WALKER CR	43-3	NESE	3	41N	75W	WYW0271122
147	BBC PINE TREE S WALKER CR	12-3*	SWNW	3	41N	75W	WYW0271122
148	BBC PINE TREE S WALKER CR	14-4	SWSW	4	41N	75W	WYW0271122
149	BBC PINE TREE S WALKER CR	23-4	NESW	4	41N	75W	WYW0271122
150	BBC PINE TREE S WALKER CR	32-4	SWNE	4	41N	75W	WYW0271122
151	BBC PINE TREE S WALKER CR	34-4	SWSE	4	41N	75W	WYW0271122
152	BBC PINE TREE S WALKER CR	43-4	NESE	4	41N	75W	WYW0271122
153	BBC PINE TREE S WALKER CR	12-4	SWNW	4	41N	75W	WYW0271122
154	BBC PINE TREE S WALKER CR	21-4	NENW	4	41N	75W	WYW0271122
155	BBC PINE TREE S WALKER CR	41-4	NENE	4	41N	75W	WYW0271122
156	BBC PINE TREE S WALKER CR	21-9	NENW	9	41N	75W	WYW0271122
157	BBC PINE TREE S WALKER CR	12-9	SWNW	9	41N	75W	WYW0271123
158	BBC PINE TREE S WALKER CR	12-11	SWNW	11	41N	75W	WYW145571
159	BBC PINE TREE S WALKER CR	14-11	SWSW	11	41N	75W	WYW145571
160	BBC PINE TREE S WALKER CR	12-33	SWNW	33	42N	75W	WYW0311966
161	BBC PINE TREE S WALKER CR	14-33	SWSW	33	42N	75W	WYW0311966
162	BBC PINE TREE S WALKER CR	23-33	NESW	33	42N	75W	WYW0311966
163	BBC PINE TREE S WALKER CR	32-33	SWNE	33	42N	75W	WYW0311966
164	BBC PINE TREE S WALKER CR	41-33	NENE	33	42N	75W	WYW0311966
165	BBC PINE TREE S WALKER CR	43-33	NESE	33	42N	75W	WYW0311966
166	BBC PINE TREE S WALKER CR	34-33	SWSE	33	42N	75W	WYW0311966
167	BBC PINE TREE S WI MOORE	21-14	NENW	14	41N	75W	WYW145571
168	BBC PINE TREE S WI MOORE	14-9	SWSW	9	41N	75W	WYW0271123
169	BBC PINE TREE S WI MOORE	23-9	NESW	9	41N	75W	WYW0271123
170	BBC PINE TREE S WI MOORE	43-9	NESE	9	41N	75W	WYW0271123
171	BBC PINE TREE S WI MOORE	12-14	SWNW	14	41N	75W	WYW145571
172	BBC PINE TREE S WI MOORE	32-15	SWNE	15	41N	75W	WYW145571
173	BBC PINE TREE S WI MOORE	21-15	NENW	15	41N	75W	WYW145572
174	BBC PINE TREE S WI MOORE	41-15	NENE	15	41N	75W	WYW145571
175	BBC PINE TREE S WI. MOORE	12-15	SWNW	15	41N	75W	WYW145572

The following wells are not approved pending the results of the 2007/2008 bald eagle winter roost survey:

1	BBC PINE TREE S IBERLIN	14-5	SWSW	5	41N	75W	WYW0314361
2	BBC PINE TREE S IBERLIN	34-5	SWSE	5	41N	75W	WYW0314361
3	BBC PINE TREE S IBERLIN	32-8	SWNE	8	41N	75W	WYW0275169

List of Impoundments:

	IMPOUNDMENT Name / Number	Qtr/Qtr	Sec	TWP	RNG	Capacity (Acre Feet)	Surface Disturbance (Acres)	Lease #
1	ED'S (already built for fee)	NESE	18	42	75	19.6	6.5	WYW47347
2	BIG JACK	NWSW	15	42	75	6.1	5.5	WYW145150
3	EX 3-1-42-75	SESE	3	42	75	20	6	WYW145149
4	EX 21-1-42-75 SENE (already built for fee)	SENE	21	42	75	10	3	WYW266627
5	EX 9-1-42-75	NENW	9	42	75	20	6	FEE
6	EX 29-1-42-75	SWNE	29	42	75	10.2	3	FEE
7	EX 31-1-42-75 (Antelope Ck Watershed)	SWSE	31	42	75	13	3.5	FEE
8	EX 32-1-42-75	NWNW	32	42	75	8.5	2.5	WYW258523
9	P2-1-42-75	SWNE	2	42	75	11.3	3	FEE
10	P4-2-42-75 (already built for fee)	NWSW	4	42	75	19.8	5.5	WYW147290
11	P7-1-42-75	SESW	7	42	75	5.7	1.5	WYW47347
12	P8-1-42-75	NWNW	8	42	75	13	3.5	WYW135616
13	P9-2-42-75	SENE	9	42	75	17.1	5	FEE
14	P10-2-42-75	SWSE	10	42	75	13.5	4	WYW145149
15	P17-1-42-75	SWNE	17	42	75	15.5	4.5	FEE
16	P20-1-42-75	SESW	20	42	75	10	3	WYW258523
17	P22-1-42-75	NENE	22	42	75	15.5	4.5	WYW145150
18	P32-3-43-75	SWSW	32	43	75	14.2	4	WYW145163
19	P32-2-43-75	SWNW	32	43	75	15.3	4	WYW145163
20	P4-1-42-75	NWNE	4	42	75	12.5	3.5	FEE
21	P5-1-42-75	NENE	5	42	75	13.6	4	WYW47347
22	P5-2-42-75	NESW	5	42	75	7.4	2	WYW47347
23	P10-1-42-75	NESW	10	42	75	19.5	6	WYW145149
24	P21-1-42-75 NESW	NESW	21	42	75	9.4	3	WYW266627
25	BROWN'S	SWNE	19	42	75	12.1	4	FEE

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

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

Surface Water

1. Channel Crossings:
 - a) Minimize channel disturbance as much as possible by limiting pipeline and road crossings.
 - b) Avoid running pipelines and access roads within floodplains or parallel to a stream channel.
 - c) Channel crossings by road and pipelines will be constructed perpendicular to flow. Culverts will be installed at appropriate locations for streams and channels crossed by roads as specified in the BLM Manual 9112-Bridges and Major Culverts and Manual 9113-Roads. Streams will be crossed perpendicular to flow, where possible, and all stream crossing structures will be designed to carry the 25-year discharge event or other capacities as directed by the BLM.
 - d) Channel crossings by pipelines will be constructed so that the pipe is buried at least four feet below the channel bottom.
2. Low water crossings will be constructed at original streambed elevation in a manner that will prevent any blockage or restriction of the existing channel. Material removed will be stockpiled for use in reclamation of the crossings.
3. 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.
5. The operator will supply a copy of the complete approved WYPDES permits to BLM as they are issued by WDEQ.

Soils

1. The Companies, on a case by case basis depending upon water and soil characteristics, will test sediments deposited in impoundments before reclaiming the impoundments. Tests will include the standard suite of cations, ions, and nutrients that will be monitored in surface water testing and any trace metals found in the CBNG discharges at concentrations exceeding detectable limits.

Wetland/Riparian

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

Threatened, Endangered, or Sensitive Species

Bald Eagle

1. Special habitats for raptors, including wintering bald eagles, will be identified and considered during the review of the Sundry Notices.
2. Surveys for active bald eagle nests and winter roost sites will be conducted within suitable habitat by a BLM approved biologist. Surface disturbing activities will not be permitted within one mile of suitable habitat prior to survey completion.
3. A disturbance-free buffer zone of 0.5 mile (i.e., no surface occupancy) will be established year-round for all bald eagle nest sites. A seasonal minimal disturbance buffer zone of one mile will be established for all bald eagle nest sites (February 15 – August 15).
4. A disturbance-free buffer zone of 0.5 mile (i.e., no surface occupancy) will be established year-round for all bald eagle winter roost sites. A seasonal minimal disturbance buffer zone of 1 mile will be established for all bald eagle winter roost sites (November 1 – April 1). See site-specific COAs. These buffer zones and timing may be adjusted based on site-specific information through coordination with, and written approval from, the USFWS.
5. Within ½ mile of bald eagle winter roost sites additional measures such as remote monitoring and restricting maintenance visitation to between 9:00 and 3:00 may be necessary to prevent disturbance (November 1 – April 1).
6. Additional mitigation measures may be necessary if the site-specific project is determined by a BLM biologist to have adverse effects to bald eagles or their habitat.

Ute Ladies'-tresses Orchid

1. Suitable habitat will be avoided wherever possible.
2. If suitable habitat for Ute ladies'-tresses cannot be avoided, surveys will be conducted in compliance

with USFWS standards (USFWS 1995) by a BLM approved biologist or botanist. Surveys can only be conducted between July 20 and August 31. See sight-specific COAs.

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

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 from the BLM authorized officer.

II Site specific mitigation measures

Surface

1. All changes made at the onsite will be followed. They have all been incorporated into the operator's plan of development.
2. All permanent above-ground structures (e.g., production equipment, tanks, etc.) not subject to safety requirements will be painted to blend with the natural color of the landscape. The paint used will be a color which simulates "Standard Environmental Colors." The color selected for the Pine Tree PODs is Desert Brown 10YR 6/3.
3. 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:

Loamy Ecological Site Seed Mix		
Species	% in Mix	Lbs PLS*
Western Wheatgrass (Pascopyrum smithii)/or Thickspike Wheatgrass (Elymus lanceolatus ssp. lanceolatus)	30	3.6
Bluebunch Wheatgrass (Pseudoroegneria spicata ssp. Spicata)	10	1.2
Green needlegrass (Nassella viridula)	25	3.0
Slender Wheatgrass (Elymus trachycaulus ssp. trachycaulus)	20	2.4
Prairie coneflower (Ratibida columnifera)	5	0.6
White or purple prairie clover (Dalea candidum, purpureum)	5	0.6
Rocky Mountain beeplant (Cleome serrulata) /or American vetch (Vicia americana)	5	0.6
Totals	100%	12 lbs/acre

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.

- Please contact Melanie Hunter Natural Resource Specialist, @ (307) 684-1138 Bureau of Land Management, Buffalo, if there are any questions concerning these surface use COAs.

Wildlife

- If the ferruginous hawk population (active nests) is reduced by more than 30 percent of the pre-POD population (2007) at any time in the five year monitoring term, then BBC shall coordinate with the BLM and USFWS to discuss actions that may be needed to restore the population.
- To protect potential Ute ladies'-tresses habitat, no water produced as a part of this Federal action shall reach the springs in Red Rock Draw (Section 29). Water discharged into Ninemile Creek as a result of this project shall not cross the Campbell/Converse County line.
- 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". 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, Bill Barrett Corporation will coordinate with the BLM to determine if additional surveys will be required.
- The following conditions will minimize impacts to roosting and nesting bald eagles;
 - Surveys for bald eagle winter roosts and nest sites are required annually until project completion throughout the project boundaries.
 - If a roost is identified a year round disturbance-free buffer zone of 0.5 mile will be established for all bald eagle winter roost sites. A seasonal limited activity zone of 1mile

will be established for all bald eagle roost sites (November 1 - April 1). Wells 14-5, 34-5, 32-8 will not be permitted within 0.5 miles of the potential bald eagle roost in section 8, T41R75 until the 2007-2008 survey season is completed and results reviewed by BLM. In addition, pending BLM review of survey results, those wells between 0.5 and 1.0 miles (41-8, 43-8, 43-5, 32-5, 12-5, 23-5) may not be drilled, completed, fractured, or worked over, and may be visited 9AM to 3PM if and only if no eagles are present from November 1- April 1.

- c. If a bald eagle nest is identified a disturbance-free buffer zone of 0.5 mile (i.e., no surface occupancy) would be established year round for all bald eagle nests. A seasonal minimum disturbance buffer zone of 1-mile will be established for all bald eagle nest sites (February 1 - August 15).
- d. Additional mitigation measures may be necessary if the site-specific project is determined by a Bureau biologist to have an adverse affect to bald eagles or their habitat.

5. The following conditions will minimize impacts to raptors;

- a. No surface disturbance shall occur within ½ mile of all identified nests from February 1 through July 31, annually, prior to a raptor nest occupancy survey for the current breeding season. This affects the following wells and **associated infrastructure, pipelines, low water crossings, culverts, temporary access roads, discharge points, and overhead power and drops will be affected;**

Township/Range	Section	Wells and Infrastructure
43/75	31	43-31, 34-31
	32	14-32, 23-32, 34-32
	33 & 34	23-33, 34-33, 34-34, 23-34, 43-34
42/75	6	23-6, 14-6
	5	23-5, 34-5, 12-5, 21-5, 41-5, 14-5
	4	14-4, 41-4
	3	34-3, 12-3
	7	12-7, 23-7, 14-7, 21-7
	8	14-8, 12-8
	9	23-9, 41-9
	10	12-10, 32-10
	18	32-18, 41-18, 43-18, 34-18
	17	12-17, 21-17, 14-17, 34-17
	15	14-15, 23-15, 43-15, 34-15,
	19	23-19, 34-19, 43-19, 14-19
	20	21-20, 41-20, 12-20, 32-20, 43-20, 14-20
	21	12-21, 21-21, 23-21, 14-21, 41-21, 43-21
	22	12-22, 21-22, 41-22, 32-22
	29	21-29, 41-29, 32-29, 23-29, 34-29, 43-29
	30	34-30
31	41-31, 32-31, 21-31, 14-31, 23-31, 12-31	
32	21-32, 12-32	
33	23-33, 14-33, 34-33	
41/75	5	14-5*, 34-5*, 23-5 (*if approved after 2007-8 bald eagle roost survey)
	4	21-4, 41-4, 32-4, 12-4, 43-4,
	3	21-3, 41-3, 12-3, 32-3, 43-3, 34-3
	8	32-8* (*if approved after 2007-8 bald eagle roost survey)
	11	12-11, 14-11

Township/Range	Section	Wells and Infrastructure
	15	12-15, 21-15, 41-15, 32-15
	14	12-14, 21-14
IMPOUNDMENTS : 8-1, 4-2, 5-2, 9-1, 9-2, 10-1, 7-1, 12-1, Ed's, 17-1, Browns, 20-1, 21-2		

- 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. Surveys outside this window may not depict nesting activity. If a survey identifies active raptor nests, a ½ mile timing buffer will be implemented. The timing buffer restricts surface disturbing activities within ½ mile of occupied raptor nests from February 1 to July 31.
- c. Nest productivity checks shall be completed for all raptor nests within the Pine Tree North and South PODs listed in the table below. The 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/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.

<u>SPECIES</u>	<u>BLM I.D.</u>	<u>TWN</u>	<u>RNG</u>	<u>SECT, qq/q</u>	<u>East UTM NAD 83</u>	<u>North</u>	<u>2007</u>	<u>Cond</u>	<u>Sub/Ht.</u>
RTHA	4618	42	75	04 SESE	429855	4831839	ACTI	GOOD	CTL STICKS
GOEA	4619	42	75	10 NENW	430442	4831440	ACTI	GOOD	CTL STICKS
FEHA	4620	43	75	35 SENE	433207	4834170	INAC	GOOD	GHS
GOEA	3102	43	75	32, NW/SE	427797	4834050	ACTI	Good	CTL/55'
GHOW	3103	43	75	32, NW/SW	427594	4833893	INAC	Good	CTL/55'
FEHA	4621	42	75	6, SE/NE	426592	4832637	INAC	Good	GHS
GHOW	4622	42	75	4, SE/NE	429652	4832569	INDE	Gone	WIL/22'
FEHA	4623	42	75	11, nene	433211	4831400	INAC	Good	GHS
SWHA	4624	42	75	1, nwnw	433850	4833275	ACTI	Good	CTL Sticks
RTHA	3130	43	75	31, SE/NE	426544	4834341	INAC	Good	CTL/50'
GHOW	3652	43	75	31, SW/NE	426352	4834165	INAC	Good	CTL/45'
FEHA	4612	42	75	29, sw se	427827	4825498	ACTI	Excellent	GHS
FEHA	4625	42	75	19, nw se	426096	4827495	ACTI	Excellent	GHS
FEHA	4646	42	75	31, ne ne	426610	4824765	INAC	Excellent	GHS
FEHA	2415	42	75	22, ne nw	430505	4827359	INAC	Excellent	GHS
FEHA	4627	42	75	22, nw nw	430226	4827874	INAC	Excellent	GHS

<u>SPECIES</u>	<u>BLM I.D.</u>	<u>TWN</u>	<u>RNG</u>	<u>SECT, qq/q</u>	<u>East UTM NAD 83</u>	<u>North</u>	<u>2007</u>	<u>Cond</u>	<u>Sub/Ht.</u>
GHOW	4628	42	76	36, nw ne	424350	4824936	INAC	Excellent	CTL/40'
RTHA	4629	42	75	13, ne ne	424870	4829810	INAC	Excellent	CTL/50'
FEHA	4630	42	75	18, ne ne	426496	4829870	OCCU	Excellent	GHS
FEHA	4631	42	75	20, se ne	428144	4827827	OCCU	Excellent	GHS
FEHA	4632	42	75	21, sw nw	428540	4827730	ACTI	Excellent	GHS
FEHA	4633	42	75	31, nw sw	425307	4824056	INAC	Poor	GHS
FEHA	4634	42	76	36, ne sw	424708	4824190	INAC	Poor	GHS
FEHA	4635	42	76	25, se nw	424254	4826152	INAC	Poor	GHS
FEHA	4636	42	76	25, sw ne	424402	4826285	INAC	Poor	GHS
FEHA	4637	42	76	24, se se	424894	4827233	INAC	Poor	GHS
FEHA	4638	42	76	24, ne se	424895	4827409	INAC	Poor	GHS
FEHA	4639	42	75	31, ne ne	426595	4824775	INDI	Rem	GHS
FEHA	4640	42	75	31, ne ne	426555	4824800	INAC	fair	GHS
FEHA	4641	42	75	31, ne ne	426440	4824985	INAC	Fair	GHS
FEHA	4642	42	75	22, nw sw	430246	4827451	INAC	Poor	GHS
FEHA	4643	42	75	15, sw sw	430071	4828579	INAC	Rem	GHS
FEHA	4644	42	75	29, nw ne	427790	4826635	OCCU	Poor	GHS
FEHA	4645	42	75	20, sw sw	427150	4827190	INDI	Rem	GHS
FEHA	4646	42	75	19, nw ne	426148	4828087	OCCU	fair	GHS
FEHA	4647	42	75	19, ne ne	426316	4828377	INAC	Poor	GHS
RTHA	4648	42	75	18, sw nw	425265	4829475	ACTI	good	CTL/50'
UNK	4675	42	76	24, ne nw	424225	4828270	INAC	good	CTL/55'
UNK	4649	42	76	24, ne nw	424140	4828145	INAC	Good	CTL/65'
RTHA	4650	42	76	24, ne nw	424145	4828150	ACTI	Good	CTL/65'
UNK	4651	42	76	24, ne nw	424135	4828140	INAC	Fair	CTL/60'
UNK	4652	42	76	12, sw sw	423570	4830620	INAC	Good	CTD/55'
RTHA	4653	42	76	11, se se	423360	4830550	ACTI	Good	CTL/50'
FEHA	4654	42	76	12, ne nw	424185	4831663	INAC	Fair	GHS
UNK	4655	42	75	7, nw se	425361	4830850	INAC	Fair	CTL/45'
UNK	4656	42	75	17, nw sw	427055	4829189	INAC	Good	CTL/35'
FEHA	4657	42	75	20, sw ne	427694	4827940	INDI	Rem	GHS
FEHA	4658	42	75	20, ne ne	427967	4828025	INAC	Fair	GHS
FEHA	4659	42	75	20, se ne	428320	4827825	OCCU	Fair	GHS
FEHA	4660	42	75	9, sw sw	428962	4830056	INAC	Good	GHS
FEHA	4661	42	75	9, sw sw	428922	4830239	INAC	Poor	GHS
FEHA	4662	42	75	9, nw nw	428905	4831213	INAC	Fair	GHS
FEHA	4663	42	75	5, se sw	427502	4832021	INAC	Poor	GHS

<u>SPECIES</u>	<u>BLM I.D.</u>	<u>TWN</u>	<u>RNG</u>	<u>SECT, qq/q</u>	<u>East UTM NAD 83</u>	<u>North</u>	<u>2007</u>	<u>Cond</u>	<u>Sub/Ht.</u>
FEHA	4664	42	75	6, sw ne	426016	4832502	OCCU	Good	GHS
GHOW	4665	42	75	9, ne ne	426670	4831548	ACTI	Good	CTL/65'
FEHA	4666	42	75	8, se sw	427504	4830528	INAC	Good	GHS
FEHA	4667	42	75	8, se sw	427568	4830344	INAC	Fair	GHS
UNK	4668	42	75	7, ne se	426769	4830823	INAC	Good	CTL/45'
FEHA	2413	42	75	15, se se	431245	4828741	INAC	Fair	GHS
FEHA	4669	42	75	2 SWNE	432674	4832732	INAC	GOOD	GHS
UNK	4670	43	75	33, SE/SW	428977	4833305	INDI	Poor	WIL/17'
UNK	4671	43	75	33, SW/SW	428618	4833412	INDI	Poor	CTL/25'
UNK	4674	43	75	32, NW/SE	427746	4834032	INDI	Poor	CTL/50'
UNK	4672	43	75	32, NW/NW	426866	4834525	INDE	Poor	CTL/35'
UNK	3110	43	75	31, NW/NW	425482	4834789	INDI	Poor	CTL/25'
UNK	4673	43	75	31, SE/NE	426488	4834029	INDI	Poor	CTL/45'
UNK	3651	43	75	31, NE/SE	426471	4833958	INAC	Fair	CTL/35'
UNK	3100	43	75	33, sw nw	428914	4834271	INDE	Rem	CTL 50'
FEHA	4676	42	75	20, NE/NW	427445	4827970	ACTI	Good	GHS
FEHA	4677	42	75	20, NW/NW	426830	4828075	OCCU	Good	GHS
FEHA	4678	42	75	20, NW/NW	426800	4828130	OCCU	Good	GHS
FEHA	4679	42	75	20, NW/NW	426853	4828240	OCCU	Good	GHS
FEHA	4680	42	76	1, NE/NE	424875	4833055	ACTI	Excellent	GHS
FEHA	4681	42	75	18, SW/SE	426318	4828587	ACTI	Good	GHS
RTHA	4682	42	75	4,sw,se	429312	4831934	ACTI	Good	CTL/30'
FEHA	4683	42	75	19,nw,se	425993	4827478	ACTI	good	Ground/Pedistal
GHOW	4684	43	75	31, NW SE	426370	4834091	ACTI	good	CTL/50'
GHOW	4685	43	75	32, NW SW	427112	4834102	ACTI	Good	CTL/60'
FEHA	4686	42	75	19, NE/NE	426710	4828170	INAC	Fair	GHS
UNK	4687	42	76	12, NW/NE	424824	4831686	INAC	Fair	CTL/35'
FEHA	4688	42	75	18, SW/SE	426266	4828481	INAC	Good	GHS
FEHA	4689	42	75	19, NW/NE	426174	4828302	INAC	Fair	GHS
FEHA	4690	42	75	17, NW/SW	427088	4829123	INAC	Fair	GHS
FEHA	4691	42	75	17, SE/NW	427312	4829235	INAC	Fair	GHS
FEHA	4692	42	75	17, SW/NE	427810	4829269	INDE	Rem	GHS
FEHA	4693	42	75	17, SW/NE	427868	4829250	INAC	Fair	GHS
UNK	4694	43	75	31, SE NE	426533	4834316	INAC	Fair	CTL/50'

SPECIES	BLM I.D.	TWN	RNG	SECT, qq/q	East UTM NAD 83	North	2007	Cond	Sub/Ht.
UNK	4695	42	75	9,ne,nw	428968	4831443	INAC	fair	CTL/30'
FEHA	I37-07/4696	43	75	34, NW SE	431110	4833880	INDI	Rem	ROC
RTHA	667	43	75	32, se se	428245	4833338	INDI	Poor	CTL/35'
UNK	3100	43	75	33, sw nw	428914	4834271	INDE	Rem	CTL 50'
FEHA	2111	41	75	2 SESW	432101	4821879	INAC	GOOD	GHS
GHOW	2112	41	75	11 NENW	432170	4821686	ACTI	GOOD	CTL
UNRA	2113	41	75	11 NESW	432495	4821027	INAC	GOOD	ELM L
UNRA	2114	41	75	11 SWNE	432419	4821228	ACT-F	EXCE	ELM L
UNRA	2116	41	75	13 NWNW	433759	4820103	INAC	POOR	ELM L
FEHA	3382	41	75	13 SWSW	433424	4818622	INAC	GOOD	GHS
FEHA	3855	42	75	34 NESW	430550	4824194	INAC	REMN	GHS
SWHA	3857	41	75	3 SWNE	430892	4822774	ACTI	GOOD	WIL
FEHA	3858	41	75	2 NWSW	431864	4822655	INAC	REMN	GHS
FEHA	3859	41	75	3 NWSE	431081	4822559	INAC	REMN	GHS
FEHA	3860	41	75	2 SESW	432359	4821854	INAC	REMN	CBK
FEHA	3862	41	75	10 NWNW	430926	4821452	INAC	GOOD	GHS
FEHA	3863	41	75	10 NESE	431487	4820645	INAC	POOR	ERR
FEHA	3864	41	75	10 NESE	431476	4820640	INAC	POOR	ERR
FEHA	3865	41	75	14 SWNW	432043	4819726	INAC	REMN	GHS
FEHA	4434	41	75	24 NWNW	433408	4818346	ACTI	GOOD	GHS
GHOW	4437	41	75	8 NENW	427208	4821725	ACTI	GOOD	CTL
RTHA	4433	42	75	33 SESW	429034	4823488	ACTI	GOOD	CTL
GHOW	4432	41	75	4 NENW	429156	4823461	ACTI	GOOD	CTL
UNRA	4425	41	75	13 NENW	434007	4819881	INAL	FAIR	CTL
FEHA	4437	41	75	29 SENE	428180	4816215	ACTI-F	GOOD	ERR
RTHA	4434	41	75	13 NWNW	434078	4819893	ACTI	GOOD	CTL
RTHA	4422	41	75	8 NENW	427286	4821727	ACTI	EXCE	CTL
RTHA	4423	41	75	15 NWNW	430227	4820092	ACTI-F	FAIR	MMS
SWHA	4428	41	75	13 NENW	433674	4820088	ACTI	EXCE	ELM
GOEA	4424	41	75	33 NESW	428746	4814356	ACTI	GOOD	CTL
FEHA	4430	41	75	15 NWNW	431163	4820025	ACTI	GOOD	GHS

- d. Routine maintenance should be scheduled outside the nesting season (Feb 1-July 31) for all active nests.
- e. Between February 1 and the completion of raptor nest productivity checks, drilling, completion, and maintenance activities requiring more than checking the well must be approved by the BLM for the following wells: 32-3, 41-4, 12-3, 41-20, 34-34, 12-22, 12-

10, 41-18. If nests are active then these restrictions will remain in place.

- f. Where the operator ties into existing power poles, the existing pole shall be constructed to meet or exceed 2007 APLIC standards.

6. The following conditions will minimize impacts to sage-grouse:

- a. Sage-grouse surveys are required throughout the project area for the current breeding season and results reviewed by a BLM biologist. This condition will be implemented on an annual basis for the duration of surface disturbing activities.

- 1) If an active lek is identified during the survey, the 2 mile timing restriction (March 1-June 15) will be applied and surface disturbing activities will not be permitted until after the nesting season.
- 2) All reservoirs (except 29-1, 31-1, and 32-1) and the following wells and associated infrastructure, pipelines, low water crossings, culverts, pits and and their associated monitoring wells, temporary access roads, discharge points and water discharge lines, and overhead power and drops will be affected:

Well Name	Number	Well Name	Number
BBC PINE TREE N IBERLIN	43-19	BBC PINE TREE N T-CHAIR	12-10
BBC PINE TREE N IBERLIN	14-19	BBC PINE TREE N T-CHAIR	34-10
BBC PINE TREE N IBERLIN	23-19	BBC PINE TREE N T-CHAIR	12-15
BBC PINE TREE N IBERLIN	34-19	BBC PINE TREE N T-CHAIR	14-15
BBC PINE TREE N IBERLIN	41-30	BBC PINE TREE N T-CHAIR	23-15
BBC PINE TREE N IBERLIN	12-30	BBC PINE TREE N T-CHAIR	32-15
BBC PINE TREE N IBERLIN	21-30	BBC PINE TREE N T-CHAIR	21-15
BBC PINE TREE N IBERLIN	32-30	BBC PINE TREE N T-CHAIR	12-17
BBC PINE TREE N SOUTH BUTTE	34-31BG	BBC PINE TREE N T-CHAIR	14-17
BBC PINE TREE N SOUTH BUTTE	43-31BG	BBC PINE TREE N T-CHAIR	21-17
BBC PINE TREE N SOUTH BUTTE	14-32BG	BBC PINE TREE N T-CHAIR	34-17
BBC PINE TREE N SOUTH BUTTE	23-32BG	BBC PINE TREE N T-CHAIR	32-18
BBC PINE TREE N SOUTH BUTTE	34-32BG	BBC PINE TREE N T-CHAIR	34-18
BBC PINE TREE N SOUTH BUTTE	23-33BG	BBC PINE TREE N T-CHAIR	41-18
BBC PINE TREE N T-CHAIR	12-2*	BBC PINE TREE N T-CHAIR	43-18
BBC PINE TREE N T-CHAIR	14-2	BBC PINE TREE N T-CHAIR	14-18
BBC PINE TREE N T-CHAIR	21-2	BBC PINE TREE N T-CHAIR	12-20
BBC PINE TREE N T-CHAIR	12-3	BBC PINE TREE N T-CHAIR	14-20
BBC PINE TREE N T-CHAIR	34-3	BBC PINE TREE N T-CHAIR	21-20
BBC PINE TREE N T-CHAIR	21-3	BBC PINE TREE N T-CHAIR	41-20
BBC PINE TREE N T-CHAIR	41-3	BBC PINE TREE N T-CHAIR	43-20
BBC PINE TREE N T-CHAIR	12-4	BBC PINE TREE N T-CHAIR	32-20
BBC PINE TREE N T-CHAIR	41-4	BBC PINE TREE N T-CHAIR	12-21
BBC PINE TREE N T-CHAIR	14-4	BBC PINE TREE N T-CHAIR	21-21
BBC PINE TREE N T-CHAIR	12-5	BBC PINE TREE N T-CHAIR	32-21
BBC PINE TREE N T-CHAIR	14-5	BBC PINE TREE N T-CHAIR	41-21
BBC PINE TREE N T-CHAIR	32-5	BBC PINE TREE N T-CHAIR	43-21
BBC PINE TREE N T-CHAIR	34-5	BBC PINE TREE N T-CHAIR	43-13
BBC PINE TREE N T-CHAIR	43-5	BBC PINE TREE N T-CHAIR	23-13
BBC PINE TREE N T-CHAIR	21-5	BBC PINE TREE N T-CHAIR	34-33
BBC PINE TREE N T-CHAIR	23-5	BBC PINE TREE N T-CHAIR	43-33
BBC PINE TREE N T-CHAIR	41-5	BBC PINE TREE N T-CHAIR	14-34
BBC PINE TREE N T-CHAIR	23-6	BBC PINE TREE N T-CHAIR	43-34

Well Name	Number	Well Name	Number
BBC PINE TREE N T-CHAIR	14-6	BBC PINE TREE N T-CHAIR	23-34
BBC PINE TREE N T-CHAIR	21-7	BBC PINE TREE N T-CHAIR	34-34
BBC PINE TREE N T-CHAIR	23-7	BBC PINE TREE N T-CHAIR	14-35
BBC PINE TREE N T-CHAIR	12-7	BBC PINE TREE N T-CHAIR	23-35
BBC PINE TREE N T-CHAIR	14-7	BBC PINE TREE S OGALALLA	14-21
BBC PINE TREE N T-CHAIR	12-8	BBC PINE TREE S OGALALLA	23-21
BBC PINE TREE N T-CHAIR	14-8	BBC PINE TREE S OGALALLA	32-28
BBC PINE TREE N T-CHAIR	23-9	BBC PINE TREE S OGALALLA	41-28
BBC PINE TREE N T-CHAIR	32-9	BBC PINE TREE S OGALALLA	21-28
BBC PINE TREE N T-CHAIR	41-9	BBC PINE TREE S OGALALLA	14-21
BBC PINE TREE N T-CHAIR	14-10		
BBC PINE TREE N T-CHAIR	23-10		
BBC PINE TREE N T-CHAIR	32-10		
BBC PINE TREE N T-CHAIR	43-10		

Pine Tree North

1. Mowing to width in sage brush on access roads to the 12-15, 14-19, 34-19, 23-21, 34-15 wells will be kept to 30’.
2. Well housing door must open to the south on the 34-19, 41-9, 34-34, 41-9, 32-20; East on 41-31, 41-18, 12-22, 43-15, 21-21; West on 23-19, 12-17.
3. Use silt fencing or other erosion control measure to keep spoils out of drainage on the 34-29 well.
4. Erosion control should be used on the access road to the 43-21 well.
5. Due to the presence of sandstone and weathered shale outcrops and other factors which could compromise a structure’s integrity, the following dams will require construction oversight while they are being built. This will allow potential problems to be identified and mitigated during construction. 7-1; 8-1; 5-1 (pipeline crossing and headcut downstream); 33-2; and 20-1.
6. Each raptor ground nest that is lost as a result of reservoir construction or use shall be replaced with an artificial nest structure within one year. The BLM and USFWS shall be contacted for technical expertise regarding height and placement of the structure.
7. Any tree that is lost from reservoir construction or use shall be replaced by a tree of like species and size. Replacement trees shall be placed in appropriate soils, appropriate soil moisture content, and as close as possible to lost trees. Replacement trees shall remain vigorous for the life of the project.

Pine Tree South

1. Mowing width in sage brush on access roads to the 21-21, 12-21, 32-8 (if approved), 14-9, 23-9 will be kept to 30’.
2. Well housing door must open to the south on the 12-3, 21-4; North on 32-3; and West on 41-4.

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 Pine Tree PODs 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 Bill Barrett 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 (WY6633) shall be complied with.
9. If an undocumented raptor nest is located during project construction or operation, the Buffalo Field Office (307-684-1100) shall be notified within 24 hours.
10. All contractors will have a copy of the pod map and conditions of approval with them at all times.

B. Construction

1. A pre-construction field meeting shall be conducted prior to beginning any dirt work approved under this POD. The operator shall contact the BLM Authorized Officer Melanie Hunter @ 307-684-1138 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 roads and areas 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, pests to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary by the authorized officer to such use.
7. Sewage shall be placed in a self-contained, chemically treated porta-potty on location.
8. The operator and their contractors shall ensure that all use, production, storage, transport and disposal of hazardous and extremely hazardous materials associated with the drilling, completion and production of these wells will be in accordance with all applicable existing or hereafter promulgated federal, state and local government rules, regulations and guidelines. All project-related activities involving hazardous materials will be conducted in a manner to minimize potential environmental impacts. In accordance with OSHA requirements, a file will be maintained onsite containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds and/or substances which are used in the course of construction, drilling, completion and production operations.
9. Produced fluids shall be put in test tanks on location during completion work. Produced water will be put in the reserve pit during completion work per Onshore Order #7.
10. The only fluids/waste materials which are authorized to go into the reserve pit are RCRA exempt exploration and production wastes. These include:
 - drilling muds & cuttings
 - rigwash
 - excess cement and certain completion & stimulation fluids defined by EPA as exemptIt does not include drilling rig waste, such as:
 - spent hydraulic fluids
 - used engine oil
 - used oil filter
 - empty cement, drilling mud, or other product sacks
 - empty paint, pipe dope, chemical or other product containers
 - excess chemicals or chemical rinsateAny evidence of non-exempt wastes being put into the reserve pit may result in the BLM Authorized Officer requiring specific testing and closure requirements.
11. Reserve pits will be closed as soon as possible, but no later than 90 days from time of drilling/well completion, unless the BLM Authorized Officer gives an extension. Squeezing

of pit fluids and cuttings is prohibited. Pits must be dry of fluids or they must be removed via vac-truck or other environmentally acceptable method prior to backfilling, re-contouring and replacement of topsoil. Mud and cuttings left in pit must be buried at least 3-feet below re-contoured grade. The operator will be responsible for re-contouring any subsidence areas that develop from closing a pit before it is sufficiently dry.

12. Operators are advised that prior to installation of any oil and gas well production equipment which has the potential to emit air contaminants, the owner or operator of the equipment must notify the Wyoming Department of Environmental Quality, Air Quality Division (phone 307-777-7391) to determine permit requirements. Examples of pertinent well production equipment include fuel-fired equipment (e.g., diesel generators), separators, storage tanks, engines and dehydrators.
13. If this well is drilled during the fire season (June-October), the operator shall institute all necessary precautions to ensure that fire hazard is minimized, including but not limited to mowing vegetation on the access routes and well locations, 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 - 4	310
5 - 8	260
9 - 12	200

E. Producing Well

1. Landscape those areas not required for production to the surrounding topography as soon as possible. The fluids and mud must be dry in the reserve pit before re-contouring pit area. The operator will be responsible for re-contouring and reseeded 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 ditches, 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.