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October 19, 2017

Susan Elliott
Program Manager
Mountain City, Ruby Mountains,
and Jarbidge Ranger District
660 South 2th St., Suite 108
Elko, NV 89801

RE: Ruby Oil and Gas

Dear Mrs. Elliott,

The Nevada Department of Wildlife (NDOW) has reviewed the, "Ruby Oil and Gas Lease Locations by Section" map provided in the solicitation for comments contained in the United States Forest Service's (USFS), *Ruby Oil and Gas Lease Analysis*. NDOW assessed each Township, Range and Section of the identified parcels for fish and wildlife values. From a fish and wildlife perspective, the Department has great concern about the majority of these parcels being made available for leasing. The parcels in consideration for leasing encompass some of the richest fish and wildlife resources the State of Nevada has to offer, not the least of which include greater sage-grouse (GRSG), Lahontan cutthroat trout (LCT), and mule deer.

Greater Sage-Grouse

From a GRSG perspective, the following recommended stipulations are contained within Appendix G, *Fluid Mineral Stipulations, Waivers, Modifications and Exceptions,* of the Nevada and Northeastern California Approved Resource Management Plan Amendment (ARMPA). Table 1 depicts GRSG habitat values and recommended stipulations for the Ruby Oil and Gas Lease parcels.

For parcels contained within a 4-mile buffer of "active" or "pending" leks (Figure 1), NDOW recommends adherence to ARMPA stipulation SG-03-TL, which identifies timing restrictions of March 1 to May 15, annually.

Within the parcels the USFS is considering to make available for leasing, 30,169 acres were identified as GRSG Priority Habitat Management Areas (PHMA) and 15,875 acres were identified as General Habitat Management Areas (GHMA), as depicted in Figure 2. Within the parcels designated as PHMA, NDOW agrees with the USFS recommended stipulations for No Surface Occupancy (NSO), which are also consistent with ARMPA Stipulation SG-02-NV-OG-NSO.

For parcels which contain GRSG winter habitat (Figure 3) within GHMA, NDOW recommends the USFS employ timing restrictions of November 1 – February 28, which are consistent with ARMPA Stipulation SG-04-TL.

For parcels within GHMA and which encompass brood-rearing habitat (Figure 4) for GRSG, NDOW recommends the USFS employ Stipulation SG-06-TL of the ARMPA which identifies a timing restriction of June 15 to September 15, annually. Individual recommendations for parcel stipulations for GRSG can be found in the attached table and are identified on a Township, Range and Section, basis.

Lahontan Cutthroat Trout

As these proposed leasing parcels pertain to Lahontan Cutthroat Trout (LCT), a federally listed Threatened species, NDOW is concerned with any impacts, direct or otherwise, to the drainages currently occupied by LCT or drainages which are currently under active recovery management. Currently occupied drainages within the proposed lease areas include Lee, Welch, Seitz, McCutcheon, Carville, North and South Forks of Green Mountain, and Pearl Creek. NDOW supports the USFS recommendation for NSO within parcels which intersect these occupied streams. Additionally, NDOW requests that the USFS consider that in order to achieve a potential delisting of LCT from its current Threatened status, substantial recovery within historically occupied habitat must occur. Subsequently, any degradation of historically occupied LCT streams or streams with ongoing recovery actions would only prolong LCT recovery, and potentially delay any potential for delisting the species. As part of the recovery process, NDOW is actively engaged in recovery management of LCT within the following drainages: Toyn, Brown and Corral Creeks. Considerable financial and time resources from Federal and State agencies, Non-Governmental Organizations and private entities have been spent in these drainages to promote LCT recovery and any impacts to these drainages could set back years of recovery efforts. The NDOW recommends that NSO stipulations also be considered and analyzed for these recovery drainages, in addition to occupied habitat. Individual recommendations for parcel stipulations for LCT can be found in the attached Table 2 and are identified on a Township, Range and Section basis. Figure 5 depicts Occupied and Recovery Management waters for LCT.

Mule Deer

All of the parcels being considered for leasing are within occupied mule deer habitat within Hunt Units 102 and 103 of NDOWs Area 10 management herd. The Area 10 deer herd is the largest deer herd in the State of Nevada and provides more recreational opportunity to residents and non-residents than any other herd in the state. The parcels identified for leasing could potentially compromise this invaluable deer population. Approximately 15,000 deer migrate annually in Area 10 from their summer ranges along critical transition ranges (migration corridors) and then on to critical winter ranges. Within the Ruby Oil and Gas Lease Parcels, 36,743 acres have been designated as crucial winter range for mule deer. The NDOW appreciates the USFS recognition of these critical habitats and suggest a a seasonal timing stipulation of November 15 to March 15, for crucial winter and transition ranges. Individual

recommendations for parcel stipulations for mule deer can be found in the attached Table 3 and are identified on a Township, Range and Section basis. Figure 6 depicts crucial winter and transition range, while Figure 7 illustrates radio-telemetry data from over 330 radio-collared mule deer within the area showing the movements of deer through these habitats.

We sincerely appreciate the opportunity to provide the USFS with these comments during the infancy of Oil and Gas leasing options and allowing concerns pertaining to fish and wildlife to be voiced, and thus ultimately providing a more robust analysis in any future NEPA actions. The NDOW acknowledges the difficult task the USFS has of managing for multiple uses, but we feel that there are more appropriate locations on USFS lands within the Mountain City, Ruby Mountains, and Jarbidge Ranger district for Oil and Gas leasing opportunities, which would meet multiple use objectives, while attempting to avoid clearly defined critical wildlife habitats such as those within this current leasing proposal.

As mentioned above, the attached comment table reflects our specific concerns and recommended stipulations to address the reasonably foreseeable impacts associated with Oil and Gas leasing within the proposed parcels on wildlife and fisheries resources.

Again, we thank you for the opportunity to provide comments and express wildlife impact considerations while balancing multiple-use doctrine. NDOW is reliant upon the United States Forest Service to make well informed decisions regarding land uses which have the potential to drastically impact the critical habitats upon which the fish and wildlife species of Nevada rely.

Thank you for your consideration,

Caleb McAdoo, Supervising Habitat Biologist
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Cc: Jasmine Kleiber, NDOW
Alan Jenne, NDOW
John Elliott, NDOW
Tom Donham, NDOW

Table 1 Greater Sage-Grouse Habitat Values and Reccomended Stipulations for the Ruby Oil and Gas Lease.

FID	OBJECTID	Township	Range	Section	TRS	Justification	Sage-grouse Reccomended Stipulations	GRSG Values Justification	GRSG Reccomended Stipulations
0	3	T27N	R56E	1	T27NR56E1	Within 4-mile buffer, PHMA, Winter (high, moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
1	5	T28N	R57E	1	T28NR57E1	4 mile PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, and Brood Rearing Habitat	NSO
2	6	T26N	R56E	10	T26NR56E10	4 mile GHMA Winter (high, moderate) Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, GHMA, Winter Habitat and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
3	8	T28N	R57E	10	T28NR57E10	4 mile PHMA Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA and Brood Rearing Habitat	NSO
4	10	T26N	R56E	11	T26NR56E11	GHMA Winter (high, moderate) Brood (high)		GHMA, Winter Habitat, and Brood rearing Habitat	May 15 to September 15; November 1 to February 28
5	14	T28N	R57E	11	T28NR57E11	4 mile PHMA Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA and Brood Rearing Habitat	NSO
6	15	T26N	R56E	12	T26NR56E12	GHMA Winter (moderate, low) Brood (high, moderate)		GHMA, Winter Habitat, and Brood Rearing Habitat	May 15 to September 15; November 1 to February 28
7	17	T27N	R56E	12	T27NR56E12	4 mile PHMA Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA and Brood Rearing Habitat	NSO
8	19	T28N	R57E	12	T28NR57E12	4 mile PHMA Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA and Brood Rearing Habitat	NSO
9	20	T32N	R57E	12	T32NR57E12	Brood (high, moderate)		Within Brood Rearing Habitat	May 15 to September 15
10	21	T26N	R56E	13	T26NR56E13	Brood (high, moderate)		Within Brood Rearing Habitat	May 15 to September 15
11	23	T27N	R56E	13	T27NR56E13	4 mile PHMA Winter (high, moderate) Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood rearing Habitat	NSO
12	25	T28N	R57E	13	T28NR57E13	4 mile PHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA and Brood Rearing Habitat	NSO
13	26	T32N	R57E	13	T32NR57E13	-		-	-
14	27	T26N	R56E	14	T26NR56E14	GHMA Winter (moderate, low) Brood (high, moderate)		GHMA, Winter Habitat, and Brood Rearing Habitat	May 15 to September 15; November 1 to February 28
15	31	T28N	R57E	14	T28NR57E14	4 mile PHMA Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA and Brood Rearing Habitat	NSO
16	32	T26N	R56E	15	T26NR56E15	4 mile	March 1 to May 15	Within 4-mile Buffer	March 1 to May 15
17	34	T28N	R57E	15	T28NR57E15	4 mile PHMA Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA and Brood Rearing Habitat	NSO
18	36	T26N	R56E	16	T26NR56E16	4 mile PHMA Winter (Moderate, low) Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
19	37	T28N	R57E	16	T28NR57E16	4 mile PHMA Winter (high, moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
20	38	T29N	R57E	16	T29NR57E16	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer	March 1 to May 15
21	39	T26N	R56E	17	T26NR56E17	4 mile PHMA Winter (High, Moderate) Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
22	40	T28N	R57E	17	T28NR57E17	4 mile PHMA Winter (high, moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
23	41	T28N	R57E	18	T28NR57E18	4 mile PHMA Winter (high, moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
24	42	T29N	R57E	18	T29NR57E18	4 mile PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA and Brood Rearing Habitat	NSO
25	43	T28N	R57E	19	T28NR57E19	4 mile PHMA Winter (high, moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
26	44	T29N	R57E	19	T29NR57E19	4 mile PHMA Winter(moderate) brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
27	49	T28N	R57E	2	T28NR57E2	4 mile PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA and Brood Rearing Habitat	NSO
28	50	T28N	R57E	20	T28NR57E20	4 mile PHMA Winter (moderate) brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
29	51	T29N	R57E	20	T29NR57E20	4 mile PHMA GHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA,Winter Habitat and Brood Rearing Habitat	NSO
30	52	T28N	R57E	21	T28NR57E21	4 mile PHMA GHMA Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA,Winter Habitat and Brood Rearing Habitat	NSO
31	53	T29N	R57E	21	T29NR57E21	4 mile PHMA GHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA,Winter Habitat and Brood Rearing Habitat	NSO
32	55	T28N	R57E	22	T28NR57E22	PHMA GHMA Brood (high, moderate)		PHMA, GHMA,Winter Habitat and Brood Rearing Habitat	NSO
33	58	T27N	R56E	23	T27NR56E23	4 mile PHMA GHMA Winter (high) Brood (high)	March 1 to May 15	PHMA, GHMA, and Brood Rearing Habitat	NSO
34	59	T28N	R57E	23	T28NR57E23	4 mile PHMA GHMA Brood (high, moderate)	March 1 to May 15	PHMA, GHMA,Winter Habitat and Brood Rearing Habitat	NSO
35	62	T27N	R56E	24	T27NR56E24	PHMA GHMA Winter (high, moderate) Brood (high)		Within 4-mile Buffer, PHMA, GHMA,Winter Habitat and Brood Rearing Habitat	NSO
36	63	T28N	R57E	24	T28NR57E24	4 mile PHMA GHMA Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA, and Brood Rearing Habitat	NSO
37	64	T32N	R57E	24	T32NR57E24	Brood (moderate)		Brood Rearing Habitat	May 15 to September 15
38	66	T27N	R56E	25	T27NR56E25	GHMA Winter (high, moderate) Brood (high)		GHMA, Winter Habitat, and Brood rearing Habitat	May 15 to September 15; November 1 to February 28
39	68	T28N	R57E	25	T28NR57E25	4 mile PHMA	March 1 to May 15	Within 4-mile Buffer and PHMA	NSO
40	69	T32N	R57E	25	T32NR57E25	4 mile Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15
41	71	T27N	R56E	26	T27NR56E26	GHMA Winter (high) Brood (high)		GHMA, Winter Habitat, and Brood rearing Habitat	May 15 to September 15; November 1 to February 28
42	73	T28N	R57E	26	T28NR57E26	4 mile PHMA GHMA brood (moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA, and Brood Rearing Habitat	NSO
43	74	T32N	R57E	26	T32NR57E26	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
44	75	T28N	R57E	27	T28NR57E27	4 mile GHMA brood (moderate)	March 1 to May 15	Within 4-mile Buffer, GHMA, and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15
45	76	T32N	R57E	27	T32NR57E27	4 mile PHMA, GHMA Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA, and Brood Rearing Habitat	NSO
46	77	T29N	R57E	28	T29NR57E28	4 mile PHMA, GHMA brood (high,moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA, and Brood Rearing Habitat	NSO
47	78	T29N	R57E	29	T29NR57E29	4 mile PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, and Brood Rearing Habitat	NSO
48	81	T28N	R57E	3	T28NR57E3	4 mile PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, and Brood Rearing Habitat	NSO
49	82	T29N	R57E	3	T29NR57E3	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
50	83	T29N	R57E	30	T29NR57E30	4 mile PHMA Winter (high) brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
51	84	T28N	R57E	31	T28NR57E31	4 mile GHMA brood (moderate)	March 1 to May 15	Within 4-mile Buffer,GHMA, and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15
52	85	T29N	R57E	31	T29NR57E31	4 mile PHMA Winter (high, moderate) brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter Habitat and Brood Rearing Habitat	NSO
53	86	T28N	R57E	32	T28NR57E32	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
54	87	T29N	R57E	32	T29NR57E32	4 mile PHMA Winter (moderate) brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA,Winter Habitat and Brood Rearing Habitat	NSO
55	88	T28N	R57E	33	T28NR57E33	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
56	89	T29N	R57E	33	T29NR57E33	4 mile PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, and Brood Rearing Habitat	NSO
57	90	T28N	R57E	34	T28NR57E34	4 mile PHMA GHMA brood (moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA,GHMA, and Brood Rearing Habitat	NSO
58	91	T29N	R57E	34	T29NR57E34	4 mile PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, and Brood Rearing Habitat	NSO
59	92	T32N	R57E	34	T32NR57E34	4 mile GHMA Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer,GHMA, and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15
60	95	T28N	R57E	35	T28NR57E35	4 mile PHMA GHMA brood (moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA, and Brood Rearing Habitat	NSO
61	96	T29N	R57E	35	T29NR57E35	4 mile GHMA PHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, and Brood Rearing Habitat	NSO
62	97	T32N	R57E	35	T32NR57E35	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
63	100	T28N	R57E	36	T28NR57E36	4 mile PHMA	March 1 to May 15	Within 4-mile Buffer and PHMA	NSO
64	101	T29N	R57E	36	T29NR57E36	4 mile GHMA PHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA, and Brood Rearing Habitat	NSO
65	104	T28N	R57E	4	T28NR57E4	4 mile PHMA Winter (moderate) brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
66	106	T26N	R56E	5	T26NR56E5	4 mile PHMA Winter (high) Brood (moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
67	107	T28N	R57E	5	T28NR57E5	4 mile PHMA Winter (high, moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
68	108	T29N	R57E	5	T29NR57E5	4 mile PHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, and Brood Rearing Habitat	NSO
69	109	T28N	R57E	6	T28NR57E6	4 mile PHMA Winter (high,moderate) brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
70	110	T28N	R57E	7	T28NR57E7	4 mile PHMA Winter (high,moderate) brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
71	111	T26N	R56E	8	T26NR56E8	4 mile PHMA Winter (high) Brood (moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
72	112	T28N	R57E	8	T28NR57E8	4 mile PHMA Winter (high,moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
73	113	T29N	R57E	8	T29NR57E8	4 mile PHMA GHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA, and Brood Rearing Habitat	NSO

74	114	T26N	R56E	9	T26NR56E9	4 mile PHMA Winter (high) Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
75	115	T28N	R57E	9	T28NR57E9	4 mile PHMA Winter (moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
76	116	T29N	R57E	9	T29NR57E9	4 mile PHMA GHMA brood (moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA, and Brood Rearing Habitat	NSO
77	1	T26N	R56E	1	T26NR56E1	GHMA Winter (high, moderate, low) Brood (high)		GHMA, Winter Habitat, and Brood rearing Habitat	May 15 to September 15; November 1 to February 28
78	45	T26N	R56E	2	T26NR56E2	GHMA Winter (high) Brood (high)		GHMA, Winter Habitat, and Brood rearing Habitat	May 15 to September 15; November 1 to February 28
79	79	T26N	R56E	3	T26NR56E3	GHMA Winter (high) Brood (high)		GHMA, Winter Habitat, and Brood rearing Habitat	May 15 to September 15; November 1 to February 28
80	0			2	2	GHMA Winter (high, moderate) Brood (high)		GHMA, Winter Habitat, and Brood rearing Habitat	May 15 to September 15; November 1 to February 28
81	0			1	1	GHMA Winter (moderate, low) Brood (high)		GHMA, Winter Habitat, and Brood rearing Habitat	May 15 to September 15; November 1 to February 28
82	79	T26N	R56E	3	T26NR56E3	GHMA Winter (high) Brood (high)		GHMA, Winter Habitat, and Brood rearing Habitat	May 15 to September 15; November 1 to February 28
83	103	T26N	R56E	4	T26NR56E4	4 mile PHMA Winter (high) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
84	103	T26N	R56E	4	T26NR56E4	4 mile PHMA, GHMA Winter (high) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA,GHMA, Winter, and Brood Rearing Habitat	NSO
85	103	T26N	R56E	4	T26NR56E4	4 milePHMA Winter (high) Brood (high,moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
86	103	T26N	R56E	4	T26NR56E4	4 mile PHMA GHMA Winter (high) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA,GHMA, Winter, and Brood Rearing Habitat	NSO
87	106	T26N	R56E	5	T26NR56E5	4 mile PHMA Winter (high) Brood (high,moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
88	106	T26N	R56E	5	T26NR56E5	4 mile PHMA Winter (high) Brood (high,moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
89	106	T26N	R56E	5	T26NR56E5	4 mile PHMA Winter (high) Brood (moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
90	114	T26N	R56E	9	T26NR56E9	4 mile PHMA Winter (high) Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
91	114	T26N	R56E	9	T26NR56E9	4 mile PHMA Winter (high) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
92	114	T26N	R56E	9	T26NR56E9	4 mile PHMA Winter (high) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
93	36	T26N	R56E	16	T26NR56E16	4 mile PHMA Winter (moderate) Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
94	36	T26N	R56E	16	T26NR56E16	4 mile PHMA Winter (moderate) Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
95	36	T26N	R56E	16	T26NR56E16	4 mile PHMA Winter (moderate, low) Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
96	32	T26N	R56E	15	T26NR56E15	4 mile Winter (low) Brood (high,moderate)	March 1 to May 15	Within 4-mile Buffer, Winter, and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
97	32	T26N	R56E	15	T26NR56E15	4 mile GHMA Winter (moderate, low) Brood (moderate)	March 1 to May 15	Within 4-mile Buffer, GHMA, Winter, and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
98	32	T26N	R56E	15	T26NR56E15			-	-
99	32	T26N	R56E	15	T26NR56E15	Brood (moderate)		Brood Rearing Habitat	May 15 to September 15
100	32	T26N	R56E	15	T26NR56E15	Brood (moderate)		Brood Rearing Habitat	May 15 to September 15
101	32	T26N	R56E	15	T26NR56E15	4 mile	March 1 to May 15	Within 4-mile Buffer	March 1 to May 15
102	32	T26N	R56E	15	T26NR56E15	Brood (moderate)		Brood Rearing Habitat	May 15 to September 15
103	32	T26N	R56E	15	T26NR56E15	Brood (moderate)		Brood Rearing Habitat	May 15 to September 15
104	3	T27N	R56E	1	T27NR56E1	4 mile PHMA Winter (moderate) brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
105	3	T27N	R56E	1	T27NR56E1	4 mile PHMA GHMA Winter (moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, GHMA and Winter Habitat	NSO
106	3	T27N	R56E	1	T27NR56E1	4 mile PHMA Winter (high, moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
107	47	T27N	R56E	2	T27NR56E2	4 mile PHMA Winter (high) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
108	47	T27N	R56E	2	T27NR56E2	4 mile PHMA Winter (high) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
109	12	T27N	R56E	11	T27NR56E11	4 mile PHMA Winter (moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
110	12	T27N	R56E	11	T27NR56E11	4 mile PHMA Winter (high) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
111	12	T27N	R56E	11	T27NR56E11	4 mile PHMA Winter (high, moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
112	17	T27N	R56E	12	T27NR56E12	4 mile PHMA Winter (High, Moderate) Brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
113	17	T27N	R56E	12	T27NR56E12	4 mile PHMA Winter (moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
114	29	T27N	R56E	14	T27NR56E14	4 mile PHMA Winter (high) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
115	29	T27N	R56E	14	T27NR56E14	4 mile PHMA Winter (high) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
116	29	T27N	R56E	14	T27NR56E14	4 mile PHMA Winter (high, moderate) Brood (high)	March 1 to May 15	Within 4-mile Buffer, PHMA, Winter, and Brood Rearing Habitat	NSO
117	93	T27N	R56E	35	T27NR56E35	GHMA Winter (high) Brood (high)		Within 4-mile Buffer,GHMA, Winter and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
118	93	T27N	R56E	35	T27NR56E35	GHMA Winter (high) Brood (high)		Within 4-mile Buffer,GHMA, Winter and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
119	93	T27N	R56E	35	T27NR56E35	GHMA Winter (high) Brood (high)		Within 4-mile Buffer,GHMA, Winter and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
120	93	T27N	R56E	35	T27NR56E35	GHMA Winter (high) Brood (high)		Within 4-mile Buffer,GHMA, Winter and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
121	98	T27N	R56E	36	T27NR56E36	GHMA Winter (high, moderate)Brood (high)		Within 4-mile Buffer,GHMA, Winter and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
122	98	T27N	R56E	36	T27NR56E36	GHMA Winter (moderate) Brood (high)		Within 4-mile Buffer,GHMA, Winter and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
123	98	T27N	R56E	36	T27NR56E36	GHMA Winter (high, moderate) Brood (high)		Within 4-mile Buffer,GHMA, Winter and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
124	98	T27N	R56E	36	T27NR56E36	GHMA Winter (moderate) Brood (high)		Within 4-mile Buffer,GHMA, Winter and Brood Rearing Habitat	March 1 to May 15; May 15 to September 15; November 1 to February 28
125	49	T28N	R57E	2	T28NR57E2	PHMA brood (high)		PHMA and Brood Rearing Habitat	NSO
126	105	T29N	R57E	4	T29NR57E4	4 mile PHMA GHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer,PHMA, GHMA, Winter and Brood Rearing Habitat	NSO
127	105	T29N	R57E	4	T29NR57E4	4 mile PHMA GHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer,PHMA, GHMA, Winter and Brood Rearing Habitat	NSO
128	108	T29N	R57E	5	T29NR57E5	4 mile PHMA Brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, Winter and Brood Rearing Habitat	NSO
129	108	T29N	R57E	5	T29NR57E5	4 mile PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, Winter and Brood Rearing Habitat	NSO
130	9	T29N	R57E	10	T29NR57E10	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
131	35	T29N	R57E	15	T29NR57E15	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
132	42	T29N	R57E	18	T29NR57E18	4 mile PHMA GHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer,PHMA, GHMA, Winter and Brood Rearing Habitat	NSO
133	42	T29N	R57E	18	T29NR57E18	4 mile PHMA GHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer,PHMA, GHMA, Winter and Brood Rearing Habitat	NSO
134	42	T29N	R57E	18	T29NR57E18	4 mile PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, and Brood Rearing Habitat	NSO
135	42	T29N	R57E	18	T29NR57E18	4 mile PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, and Brood Rearing Habitat	NSO
136	44	T29N	R57E	19	T29NR57E19	4 mile PHMA brood (high, moderate)	March 1 to May 15	Within 4-mile Buffer,PHMA, and Brood Rearing Habitat	NSO
137	44	T29N	R57E	19	T29NR57E19	4 mile PHMA brood (high)	March 1 to May 15	PHMA, and Brood Rearing Habitat	NSO
138	44	T29N	R57E	19	T29NR57E19	PHMA brood (high)		Within 4-mile Buffer,PHMA, and Brood Rearing Habitat	NSO
139	44	T29N	R57E	19	T29NR57E19	4 mile, PHMA brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, Winter and Brood Rearing Habitat	NSO
140	83	T29N	R57E	30	T29NR57E30	4 mile PHMA Winter (moderate) brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, Winter and Brood Rearing Habitat	NSO
141	83	T29N	R57E	30	T29NR57E30	4 mile PHMA Winter (high,moderate) brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, Winter and Brood Rearing Habitat	NSO
142	83	T29N	R57E	30	T29NR57E30	4 mile PHMA Winter (high, moderate) brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, Winter and Brood Rearing Habitat	NSO
143	85	T29N	R57E	31	T29NR57E31	4 mile PHMA Winter (high) brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, Winter and Brood Rearing Habitat	NSO
144	85	T29N	R57E	31	T29NR57E31	4 mile PHMA Winter (high) brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, Winter and Brood Rearing Habitat	NSO
145	85	T29N	R57E	31	T29NR57E31	4 mile PHMA Winter (high) brood (high)	March 1 to May 15	Within 4-mile Buffer,PHMA, Winter and Brood Rearing Habitat	NSO
146	20	T32N	R57E	12	T32NR57E12	Brood (high, moderate)		Brood Rearing Habitat	May 15 to September 15
147	20	T32N	R57E	12	T32NR57E12	Brood (high, moderate)		Brood Rearing Habitat	May 15 to September 15
148	20	T32N	R57E	12	T32NR57E12	GHMA Winter (moderate) Brood (high)		GHMA, Winter Habitat, and Brood rearing Habitat	May 15 to September 15; November 1 to February 28
149	26	T32N	R57E	13	T32NR57E13			-	-

150	26	T32N	R57E	13	T32NR57E13			-	-
151	26	T32N	R57E	13	T32NR57E13	Brood (moderate)		Brood Rearing Habitat	May 15 to September 15
152	92	T32N	R57E	34	T32NR57E34	4 mile PHMA, GHMA Brood (high,moderate)	March 1 to May 15	Within 4-mile Buffer,PHMA, GHMA, and Brood Rearing Habitat	NSO
153	97	T32N	R57E	35	T32NR57E35	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
154	97	T32N	R57E	35	T32NR57E35	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
155	97	T32N	R57E	35	T32NR57E35	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
156	102	T32N	R57E	36	T32NR57E36	Brood (moderate)	March 1 to May 15	Brood Rearing Habitat	May 15 to September 15
157	102	T32N	R57E	36	T32NR57E36	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15
158	102	T32N	R57E	36	T32NR57E36	4 mile GHMA	March 1 to May 15	Within 4-mile Buffer and GHMA	March 1 to May 15

Table 2 Lahontan Cutthroat Trout Occupied/Recovery Waters for the Ruby Oil and Gas Lease.

FID	OBJECTID	Township	Range	Section	TRS	LCT Drainage Status	LCT Reccomended Stipulations
0	3	T27N	R56E	1	T27NR56E1	-	-
1	5	T28N	R57E	1	T28NR57E1	NSO	Occupied Stream
2	6	T26N	R56E	10	T26NR56E10	-	-
3	8	T28N	R57E	10	T28NR57E10	NSO	Recovery Stream
4	10	T26N	R56E	11	T26NR56E11	-	-
5	14	T28N	R57E	11	T28NR57E11	NSO	Recovery Stream
6	15	T26N	R56E	12	T26NR56E12	-	-
7	17	T27N	R56E	12	T27NR56E12	-	-
8	19	T28N	R57E	12	T28NR57E12	-	-
9	20	T32N	R57E	12	T32NR57E12	-	-
10	21	T26N	R56E	13	T26NR56E13	-	-
11	23	T27N	R56E	13	T27NR56E13	-	-
12	25	T28N	R57E	13	T28NR57E13	-	-
13	26	T32N	R57E	13	T32NR57E13	-	-
14	27	T26N	R56E	14	T26NR56E14	-	-
15	31	T28N	R57E	14	T28NR57E14	-	-
16	32	T26N	R56E	15	T26NR56E15	-	-
17	34	T28N	R57E	15	T28NR57E15	-	-
18	36	T26N	R56E	16	T26NR56E16	-	-
19	37	T28N	R57E	16	T28NR57E16	-	-
20	38	T29N	R57E	16	T29NR57E16	-	-
21	39	T26N	R56E	17	T26NR56E17	-	-
22	40	T28N	R57E	17	T28NR57E17	-	-
23	41	T28N	R57E	18	T28NR57E18	NSO	Recovery Stream
24	42	T29N	R57E	18	T29NR57E18	-	-
25	43	T28N	R57E	19	T28NR57E19	NSO	Occupied Stream/Recovery Stream
26	44	T29N	R57E	19	T29NR57E19	NSO	Occupied Stream
27	49	T28N	R57E	2	T28NR57E2	NSO	Occupied Stream
28	50	T28N	R57E	20	T28NR57E20	NSO	Recovery Stream
29	51	T29N	R57E	20	T29NR57E20	NSO	Occupied Stream
30	52	T28N	R57E	21	T28NR57E21	NSO	Recovery Stream
31	53	T29N	R57E	21	T29NR57E21	NSO	Occupied Stream
32	55	T28N	R57E	22	T28NR57E22	-	Recovery Stream
33	58	T27N	R56E	23	T27NR56E23	-	-
34	59	T28N	R57E	23	T28NR57E23	NSO	Recovery Stream
35	62	T27N	R56E	24	T27NR56E24	-	-
36	63	T28N	R57E	24	T28NR57E24	-	-
37	64	T32N	R57E	24	T32NR57E24	-	-
38	66	T27N	R56E	25	T27NR56E25	-	-
39	68	T28N	R57E	25	T28NR57E25	-	-
40	69	T32N	R57E	25	T32NR57E25	-	-
41	71	T27N	R56E	26	T27NR56E26	-	-
42	73	T28N	R57E	26	T28NR57E26	-	-
43	74	T32N	R57E	26	T32NR57E26	NSO	Occupied Stream
44	75	T28N	R57E	27	T28NR57E27	-	-
45	76	T32N	R57E	27	T32NR57E27	-	-
46	77	T29N	R57E	28	T29NR57E28	NSO	Occupied Stream
47	78	T29N	R57E	29	T29NR57E29	NSO	Occupied Stream
48	81	T28N	R57E	3	T28NR57E3	NSO	Occupied Stream
49	82	T29N	R57E	3	T29NR57E3	NSO	Occupied Stream
50	83	T29N	R57E	30	T29NR57E30	-	-
51	84	T28N	R57E	31	T28NR57E31	NSO	Recovery Stream
52	85	T29N	R57E	31	T29NR57E31	NSO	Occupied Stream
53	86	T28N	R57E	32	T28NR57E32	NSO	Recovery Stream
54	87	T29N	R57E	32	T29NR57E32	NSO	Occupied Stream

55	88	T28N	R57E	33	T28NR57E33	NSO	Occupied Stream
56	89	T29N	R57E	33	T29NR57E33	NSO	Occupied Stream
57	90	T28N	R57E	34	T28NR57E34	NSO	Occupied Stream
58	91	T29N	R57E	34	T29NR57E34	NSO	Occupied Stream
59	92	T32N	R57E	34	T32NR57E34	NSO	Occupied Stream
60	95	T28N	R57E	35	T28NR57E35	-	-
61	96	T29N	R57E	35	T29NR57E35	-	-
62	97	T32N	R57E	35	T32NR57E35	-	-
63	100	T28N	R57E	36	T28NR57E36	-	-
64	101	T29N	R57E	36	T29NR57E36	NSO	Occupied Stream
65	104	T28N	R57E	4	T28NR57E4	-	-
66	106	T26N	R56E	5	T26NR56E5	-	-
67	107	T28N	R57E	5	T28NR57E5	NSO	Recovery Stream
68	108	T29N	R57E	5	T29NR57E5	NSO	Occupied Stream
69	109	T28N	R57E	6	T28NR57E6	NSO	Recovery Stream
70	110	T28N	R57E	7	T28NR57E7	-	-
71	111	T26N	R56E	8	T26NR56E8	-	-
72	112	T28N	R57E	8	T28NR57E8	NSO	Recovery Stream
73	113	T29N	R57E	8	T29NR57E8	-	-
74	114	T26N	R56E	9	T26NR56E9	-	-
75	115	T28N	R57E	9	T28NR57E9	NSO	Recovery Stream
76	116	T29N	R57E	9	T29NR57E9	-	-
77	1	T26N	R56E	1	T26NR56E1	-	-
78	45	T26N	R56E	2	T26NR56E2	-	-
79	79	T26N	R56E	3	T26NR56E3	-	-
80	0			2	2	-	-
81	0			1	1	-	-
82	79	T26N	R56E	3	T26NR56E3	-	-
83	103	T26N	R56E	4	T26NR56E4	-	-
84	103	T26N	R56E	4	T26NR56E4	-	-
85	103	T26N	R56E	4	T26NR56E4	-	-
86	103	T26N	R56E	4	T26NR56E4	-	-
87	106	T26N	R56E	5	T26NR56E5	-	-
88	106	T26N	R56E	5	T26NR56E5	-	-
89	106	T26N	R56E	5	T26NR56E5	-	-
90	114	T26N	R56E	9	T26NR56E9	-	-
91	114	T26N	R56E	9	T26NR56E9	-	-
92	114	T26N	R56E	9	T26NR56E9	-	-
93	36	T26N	R56E	16	T26NR56E16	-	-
94	36	T26N	R56E	16	T26NR56E16	-	-
95	36	T26N	R56E	16	T26NR56E16	-	-
96	32	T26N	R56E	15	T26NR56E15	-	-
97	32	T26N	R56E	15	T26NR56E15	-	-
98	32	T26N	R56E	15	T26NR56E15	-	-
99	32	T26N	R56E	15	T26NR56E15	-	-
100	32	T26N	R56E	15	T26NR56E15	-	-
101	32	T26N	R56E	15	T26NR56E15	-	-
102	32	T26N	R56E	15	T26NR56E15	-	-
103	32	T26N	R56E	15	T26NR56E15	-	-
104	3	T27N	R56E	1	T27NR56E1	-	-
105	3	T27N	R56E	1	T27NR56E1	-	-
106	3	T27N	R56E	1	T27NR56E1	-	-
107	47	T27N	R56E	2	T27NR56E2	-	-
108	47	T27N	R56E	2	T27NR56E2	-	-
109	12	T27N	R56E	11	T27NR56E11	-	-
110	12	T27N	R56E	11	T27NR56E11	-	-
111	12	T27N	R56E	11	T27NR56E11	-	-

112	17	T27N	R56E	12	T27NR56E12	-	-
113	17	T27N	R56E	12	T27NR56E12	-	-
114	29	T27N	R56E	14	T27NR56E14	-	-
115	29	T27N	R56E	14	T27NR56E14	-	-
116	29	T27N	R56E	14	T27NR56E14	-	-
117	93	T27N	R56E	35	T27NR56E35	-	-
118	93	T27N	R56E	35	T27NR56E35	-	-
119	93	T27N	R56E	35	T27NR56E35	-	-
120	93	T27N	R56E	35	T27NR56E35	-	-
121	98	T27N	R56E	36	T27NR56E36	-	-
122	98	T27N	R56E	36	T27NR56E36	-	-
123	98	T27N	R56E	36	T27NR56E36	-	-
124	98	T27N	R56E	36	T27NR56E36	-	-
125	49	T28N	R57E	2	T28NR57E2	NSO	Recovery Stream
126	105	T29N	R57E	4	T29NR57E4	NSO	Occupied Stream
127	105	T29N	R57E	4	T29NR57E4	-	-
128	108	T29N	R57E	5	T29NR57E5	-	-
129	108	T29N	R57E	5	T29NR57E5	-	-
130	9	T29N	R57E	10	T29NR57E10	NSO	Occupied Stream
131	35	T29N	R57E	15	T29NR57E15	-	-
132	42	T29N	R57E	18	T29NR57E18	-	-
133	42	T29N	R57E	18	T29NR57E18	-	-
134	42	T29N	R57E	18	T29NR57E18	-	-
135	42	T29N	R57E	18	T29NR57E18	-	-
136	44	T29N	R57E	19	T29NR57E19	-	-
137	44	T29N	R57E	19	T29NR57E19	NSO	Occupied Stream
138	44	T29N	R57E	19	T29NR57E19	-	-
139	44	T29N	R57E	19	T29NR57E19	-	-
140	83	T29N	R57E	30	T29NR57E30	-	-
141	83	T29N	R57E	30	T29NR57E30	-	-
142	83	T29N	R57E	30	T29NR57E30	-	-
143	85	T29N	R57E	31	T29NR57E31	-	-
144	85	T29N	R57E	31	T29NR57E31	-	-
145	85	T29N	R57E	31	T29NR57E31	-	-
146	20	T32N	R57E	12	T32NR57E12	-	-
147	20	T32N	R57E	12	T32NR57E12	-	-
148	20	T32N	R57E	12	T32NR57E12	-	-
149	26	T32N	R57E	13	T32NR57E13	-	-
150	26	T32N	R57E	13	T32NR57E13	-	-
151	26	T32N	R57E	13	T32NR57E13	-	-
152	92	T32N	R57E	34	T32NR57E34	NSO	Occupied Stream
153	97	T32N	R57E	35	T32NR57E35	NSO	Occupied Stream
154	97	T32N	R57E	35	T32NR57E35	-	-
155	97	T32N	R57E	35	T32NR57E35	-	-
156	102	T32N	R57E	36	T32NR57E36	NSO	Occupied Stream
157	102	T32N	R57E	36	T32NR57E36	-	-
158	102	T32N	R57E	36	T32NR57E36	-	-

Table 3 Mule Deer Seasonal Range Values and Reccomended Stipulations.

FID	OBJECTID	Township	Range	Section	TRS	Mule Deer Seasonal Range	Mule Deer Reccomended Stipulations
0	3	T27N	R56E	1	T27NR56E1	Crucial Winter Range	November 15 to March 15
1	5	T28N	R57E	1	T28NR57E1	Crucial Winter Range	November 15 to March 15
2	6	T26N	R56E	10	T26NR56E10	Crucial Winter Range	November 15 to March 15
3	8	T28N	R57E	10	T28NR57E10	Crucial Winter Range	November 15 to March 15
4	10	T26N	R56E	11	T26NR56E11	Crucial Winter Range	November 15 to March 15
5	14	T28N	R57E	11	T28NR57E11	Crucial Winter Range	November 15 to March 15
6	15	T26N	R56E	12	T26NR56E12	Crucial Winter Range	November 15 to March 15
7	17	T27N	R56E	12	T27NR56E12	Crucial Winter Range	November 15 to March 15
8	19	T28N	R57E	12	T28NR57E12	Crucial Winter Range	November 15 to March 15
9	20	T32N	R57E	12	T32NR57E12	-	No restrictions
10	21	T26N	R56E	13	T26NR56E13	Crucial Winter Range	November 15 to March 15
11	23	T27N	R56E	13	T27NR56E13	Crucial Winter Range	November 15 to March 15
12	25	T28N	R57E	13	T28NR57E13	Crucial Winter Range	November 15 to March 15
13	26	T32N	R57E	13	T32NR57E13	-	No restrictions
14	27	T26N	R56E	14	T26NR56E14	Crucial Winter Range	November 15 to March 15
15	31	T28N	R57E	14	T28NR57E14	Crucial Winter Range	November 15 to March 15
16	32	T26N	R56E	15	T26NR56E15	Transition Range	November 15 to March 15
17	34	T28N	R57E	15	T28NR57E15	Crucial Winter Range	November 15 to March 15
18	36	T26N	R56E	16	T26NR56E16	Transition Range	November 15 to March 15
19	37	T28N	R57E	16	T28NR57E16	Crucial Winter Range	November 15 to March 15
20	38	T29N	R57E	16	T29NR57E16	-	No restrictions
21	39	T26N	R56E	17	T26NR56E17	Transition Range	November 15 to March 15
22	40	T28N	R57E	17	T28NR57E17	Crucial Winter Range	November 15 to March 15
23	41	T28N	R57E	18	T28NR57E18	Crucial Winter Range	November 15 to March 15
24	42	T29N	R57E	18	T29NR57E18	Crucial Winter Range	November 15 to March 15
25	43	T28N	R57E	19	T28NR57E19	Crucial Winter Range	November 15 to March 15
26	44	T29N	R57E	19	T29NR57E19	Crucial Winter Range	November 15 to March 15
27	49	T28N	R57E	2	T28NR57E2	Crucial Winter Range	November 15 to March 15
28	50	T28N	R57E	20	T28NR57E20	Crucial Winter Range	November 15 to March 15
29	51	T29N	R57E	20	T29NR57E20	Crucial Winter Range	November 15 to March 15
30	52	T28N	R57E	21	T28NR57E21	Crucial Winter Range	November 15 to March 15
31	53	T29N	R57E	21	T29NR57E21	Crucial Winter Range	November 15 to March 15
32	55	T28N	R57E	22	T28NR57E22	Crucial Winter Range	November 15 to March 15
33	58	T27N	R56E	23	T27NR56E23	Crucial Winter Range	November 15 to March 15
34	59	T28N	R57E	23	T28NR57E23	Crucial Winter Range	November 15 to March 15
35	62	T27N	R56E	24	T27NR56E24	Crucial Winter Range	November 15 to March 15
36	63	T28N	R57E	24	T28NR57E24	Crucial Winter Range	November 15 to March 15
37	64	T32N	R57E	24	T32NR57E24	-	No restrictions
38	66	T27N	R56E	25	T27NR56E25	Crucial Winter Range	November 15 to March 15
39	68	T28N	R57E	25	T28NR57E25	Crucial Winter Range	November 15 to March 15
40	69	T32N	R57E	25	T32NR57E25	-	No restrictions
41	71	T27N	R56E	26	T27NR56E26	Crucial Winter Range	November 15 to March 15
42	73	T28N	R57E	26	T28NR57E26	Crucial Winter Range	November 15 to March 15

43	74	T32N	R57E	26	T32NR57E26	-	No restrictions
44	75	T28N	R57E	27	T28NR57E27	Crucial Winter Range	November 15 to March 15
45	76	T32N	R57E	27	T32NR57E27	-	No restrictions
46	77	T29N	R57E	28	T29NR57E28	Crucial Winter Range	November 15 to March 15
47	78	T29N	R57E	29	T29NR57E29	Crucial Winter Range	November 15 to March 15
48	81	T28N	R57E	3	T28NR57E3	Crucial Winter Range	November 15 to March 15
49	82	T29N	R57E	3	T29NR57E3	-	No restrictions
50	83	T29N	R57E	30	T29NR57E30	Crucial Winter Range	November 15 to March 15
51	84	T28N	R57E	31	T28NR57E31	Crucial Winter Range	November 15 to March 15
52	85	T29N	R57E	31	T29NR57E31	Crucial Winter Range	November 15 to March 15
53	86	T28N	R57E	32	T28NR57E32	Crucial Winter Range	November 15 to March 15
54	87	T29N	R57E	32	T29NR57E32	Crucial Winter Range	November 15 to March 15
55	88	T28N	R57E	33	T28NR57E33	Crucial Winter Range	November 15 to March 15
56	89	T29N	R57E	33	T29NR57E33	Crucial Winter Range	November 15 to March 15
57	90	T28N	R57E	34	T28NR57E34	Crucial Winter Range	November 15 to March 15
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59	92	T32N	R57E	34	T32NR57E34	Transition Range	November 15 to March 15
60	95	T28N	R57E	35	T28NR57E35	Crucial Winter Range	November 15 to March 15
61	96	T29N	R57E	35	T29NR57E35	Crucial Winter Range	November 15 to March 15
62	97	T32N	R57E	35	T32NR57E35	-	No restrictions
63	100	T28N	R57E	36	T28NR57E36	Crucial Winter Range	November 15 to March 15
64	101	T29N	R57E	36	T29NR57E36	Crucial Winter Range	November 15 to March 15
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66	106	T26N	R56E	5	T26NR56E5	Transition Range	November 15 to March 15
67	107	T28N	R57E	5	T28NR57E5	Crucial Winter Range	November 15 to March 15
68	108	T29N	R57E	5	T29NR57E5	Crucial Winter Range	November 15 to March 15
69	109	T28N	R57E	6	T28NR57E6	Crucial Winter Range	November 15 to March 15
70	110	T28N	R57E	7	T28NR57E7	Crucial Winter Range	November 15 to March 15
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72	112	T28N	R57E	8	T28NR57E8	Crucial Winter Range	November 15 to March 15
73	113	T29N	R57E	8	T29NR57E8	Crucial Winter Range	November 15 to March 15
74	114	T26N	R56E	9	T26NR56E9	Transition Range	November 15 to March 15
75	115	T28N	R57E	9	T28NR57E9	Crucial Winter Range	November 15 to March 15
76	116	T29N	R57E	9	T29NR57E9	Crucial Winter Range	November 15 to March 15
77	1	T26N	R56E	1	T26NR56E1	Crucial Winter Range	November 15 to March 15
78	45	T26N	R56E	2	T26NR56E2	Crucial Winter Range	November 15 to March 15
79	79	T26N	R56E	3	T26NR56E3	Crucial Winter Range	November 15 to March 15
80	0			2	2	Crucial Winter Range	November 15 to March 15
81	0			1	1	Crucial Winter Range	November 15 to March 15
82	79	T26N	R56E	3	T26NR56E3	Crucial Winter Range	November 15 to March 15
83	103	T26N	R56E	4	T26NR56E4	Transition Range	November 15 to March 15
84	103	T26N	R56E	4	T26NR56E4	Transition Range	November 15 to March 15
85	103	T26N	R56E	4	T26NR56E4	Transition Range	November 15 to March 15
86	103	T26N	R56E	4	T26NR56E4	Transition Range	November 15 to March 15
87	106	T26N	R56E	5	T26NR56E5	Transition Range	November 15 to March 15
88	106	T26N	R56E	5	T26NR56E5	Transition Range	November 15 to March 15

89	106	T26N	R56E	5	T26NR56E5	Transition Range	November 15 to March 15
90	114	T26N	R56E	9	T26NR56E9	Transition Range	November 15 to March 15
91	114	T26N	R56E	9	T26NR56E9	Transition Range	November 15 to March 15
92	114	T26N	R56E	9	T26NR56E9	Transition Range	November 15 to March 15
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94	36	T26N	R56E	16	T26NR56E16	Transition Range	November 15 to March 15
95	36	T26N	R56E	16	T26NR56E16	Transition Range	November 15 to March 15
96	32	T26N	R56E	15	T26NR56E15	Crucial Winter Range	November 15 to March 15
97	32	T26N	R56E	15	T26NR56E15	Transition Range	November 15 to March 15
98	32	T26N	R56E	15	T26NR56E15	Transition Range	November 15 to March 15
99	32	T26N	R56E	15	T26NR56E15	Transition Range	November 15 to March 15
100	32	T26N	R56E	15	T26NR56E15	Crucial Winter Range	November 15 to March 15
101	32	T26N	R56E	15	T26NR56E15	Crucial Winter Range	November 15 to March 15
102	32	T26N	R56E	15	T26NR56E15	Crucial Winter Range	November 15 to March 15
103	32	T26N	R56E	15	T26NR56E15	Crucial Winter Range	November 15 to March 15
104	3	T27N	R56E	1	T27NR56E1	Crucial Winter Range	November 15 to March 15
105	3	T27N	R56E	1	T27NR56E1	Crucial Winter Range	November 15 to March 15
106	3	T27N	R56E	1	T27NR56E1	Crucial Winter Range	November 15 to March 15
107	47	T27N	R56E	2	T27NR56E2	Crucial Winter Range	November 15 to March 15
108	47	T27N	R56E	2	T27NR56E2	Crucial Winter Range	November 15 to March 15
109	12	T27N	R56E	11	T27NR56E11	Crucial Winter Range	November 15 to March 15
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111	12	T27N	R56E	11	T27NR56E11	Crucial Winter Range	November 15 to March 15
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116	29	T27N	R56E	14	T27NR56E14	Crucial Winter Range	November 15 to March 15
117	93	T27N	R56E	35	T27NR56E35	Crucial Winter Range	November 15 to March 15
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119	93	T27N	R56E	35	T27NR56E35	Crucial Winter Range	November 15 to March 15
120	93	T27N	R56E	35	T27NR56E35	Crucial Winter Range	November 15 to March 15
121	98	T27N	R56E	36	T27NR56E36	Crucial Winter Range	November 15 to March 15
122	98	T27N	R56E	36	T27NR56E36	Crucial Winter Range	November 15 to March 15
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125	49	T28N	R57E	2	T28NR57E2	Crucial Winter Range	November 15 to March 15
126	105	T29N	R57E	4	T29NR57E4	Crucial Winter Range	November 15 to March 15
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128	108	T29N	R57E	5	T29NR57E5	Transition Range	November 15 to March 15
129	108	T29N	R57E	5	T29NR57E5	Transition Range	November 15 to March 15
130	9	T29N	R57E	10	T29NR57E10	-	No restrictions
131	35	T29N	R57E	15	T29NR57E15	-	No restrictions
132	42	T29N	R57E	18	T29NR57E18	Crucial Winter Range	November 15 to March 15
133	42	T29N	R57E	18	T29NR57E18	Crucial Winter Range	November 15 to March 15
134	42	T29N	R57E	18	T29NR57E18	Crucial Winter Range	November 15 to March 15

135	42	T29N	R57E	18	T29NR57E18	Crucial Winter Range	November 15 to March 15
136	44	T29N	R57E	19	T29NR57E19	Crucial Winter Range	November 15 to March 15
137	44	T29N	R57E	19	T29NR57E19	Crucial Winter Range	November 15 to March 15
138	44	T29N	R57E	19	T29NR57E19	Crucial Winter Range	November 15 to March 15
139	44	T29N	R57E	19	T29NR57E19	Crucial Winter Range	November 15 to March 15
140	83	T29N	R57E	30	T29NR57E30	Crucial Winter Range	November 15 to March 15
141	83	T29N	R57E	30	T29NR57E30	Crucial Winter Range	November 15 to March 15
142	83	T29N	R57E	30	T29NR57E30	Crucial Winter Range	November 15 to March 15
143	85	T29N	R57E	31	T29NR57E31	Crucial Winter Range	November 15 to March 15
144	85	T29N	R57E	31	T29NR57E31	Crucial Winter Range	November 15 to March 15
145	85	T29N	R57E	31	T29NR57E31	Crucial Winter Range	November 15 to March 15
146	20	T32N	R57E	12	T32NR57E12	-	No restrictions
147	20	T32N	R57E	12	T32NR57E12	-	No restrictions
148	20	T32N	R57E	12	T32NR57E12	-	No restrictions
149	26	T32N	R57E	13	T32NR57E13	-	No restrictions
150	26	T32N	R57E	13	T32NR57E13	-	No restrictions
151	26	T32N	R57E	13	T32NR57E13	-	No restrictions
152	92	T32N	R57E	34	T32NR57E34	Transition Range	November 15 to March 15
153	97	T32N	R57E	35	T32NR57E35	-	No restrictions
154	97	T32N	R57E	35	T32NR57E35	-	No restrictions
155	97	T32N	R57E	35	T32NR57E35	-	No restrictions
156	102	T32N	R57E	36	T32NR57E36	-	No restrictions
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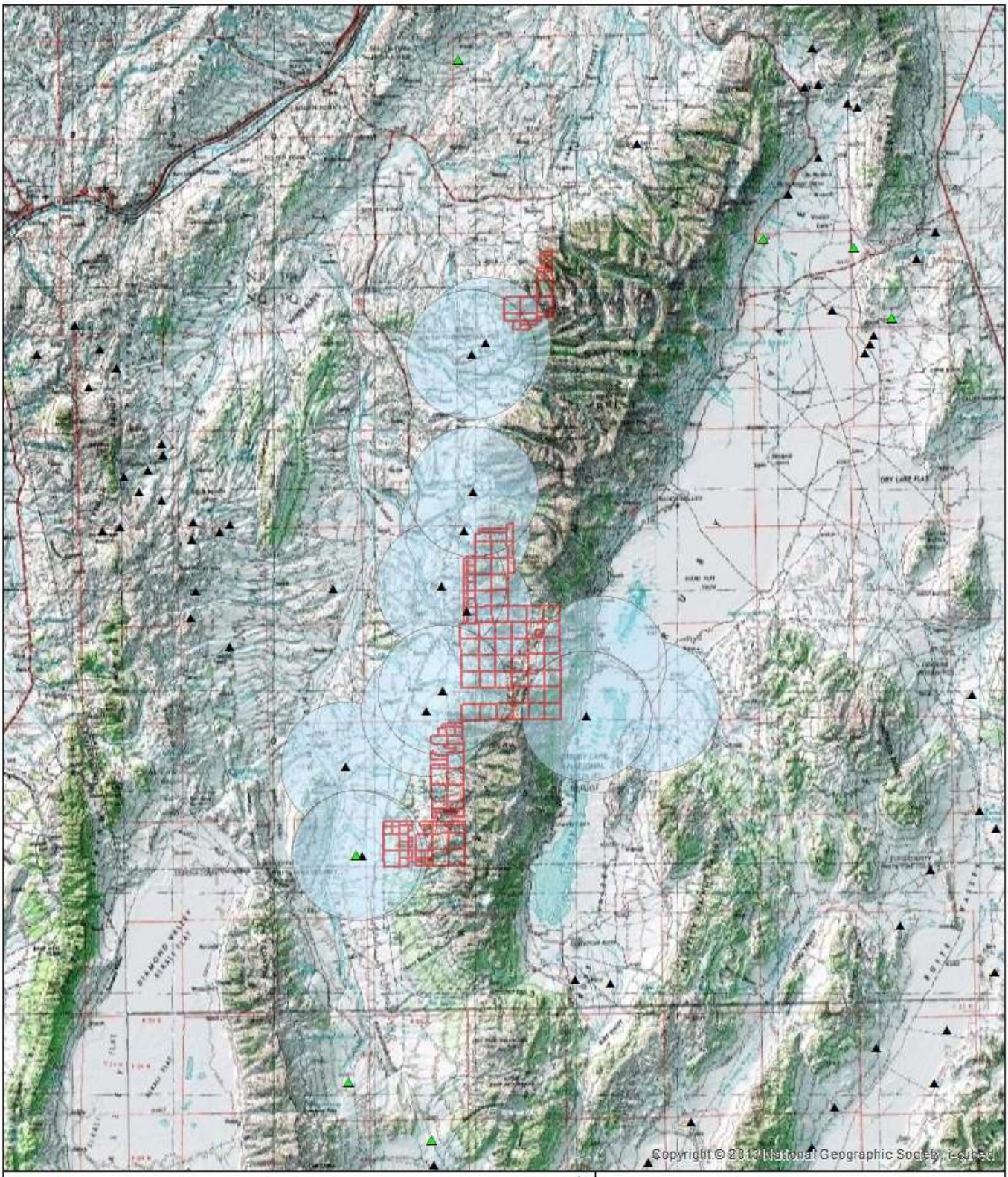
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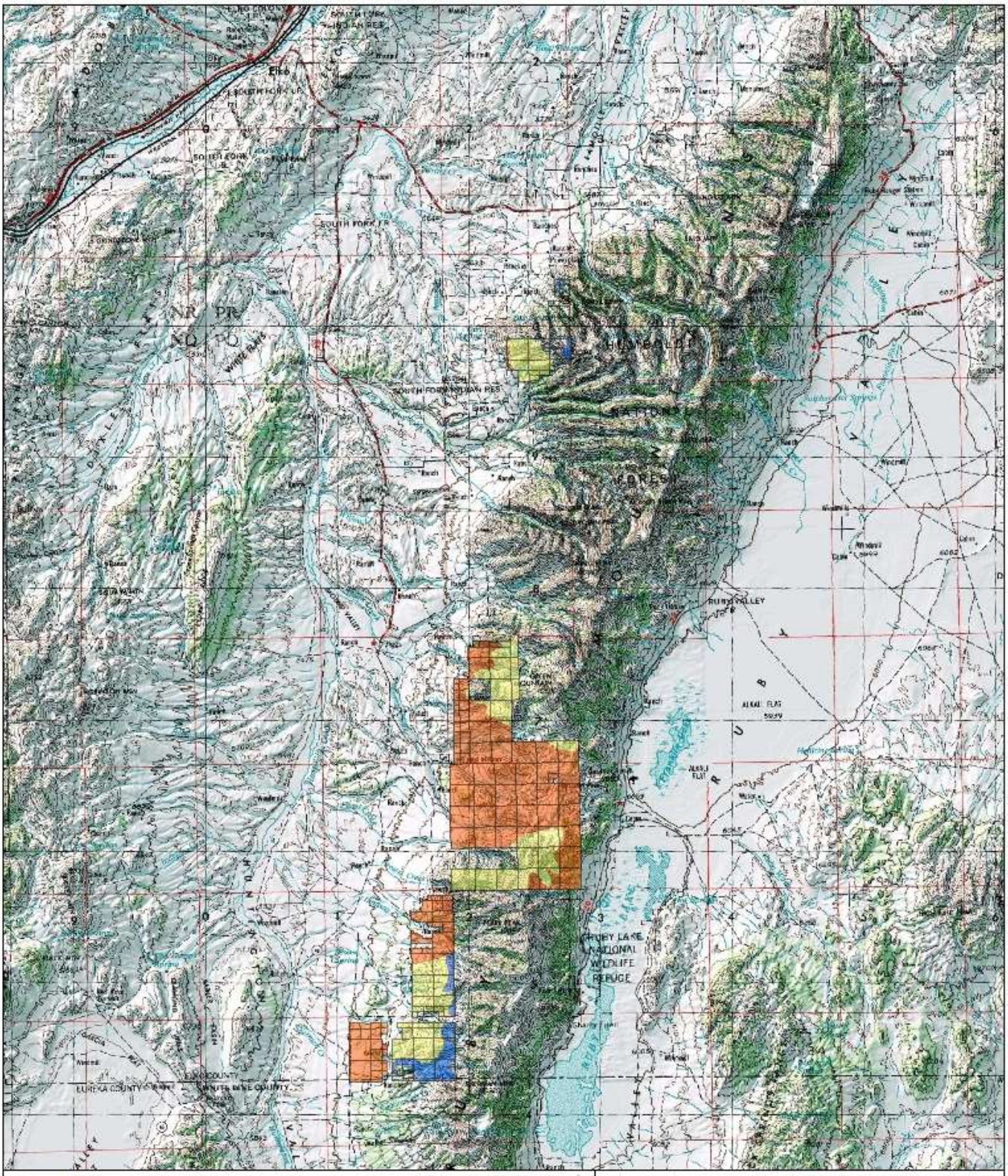
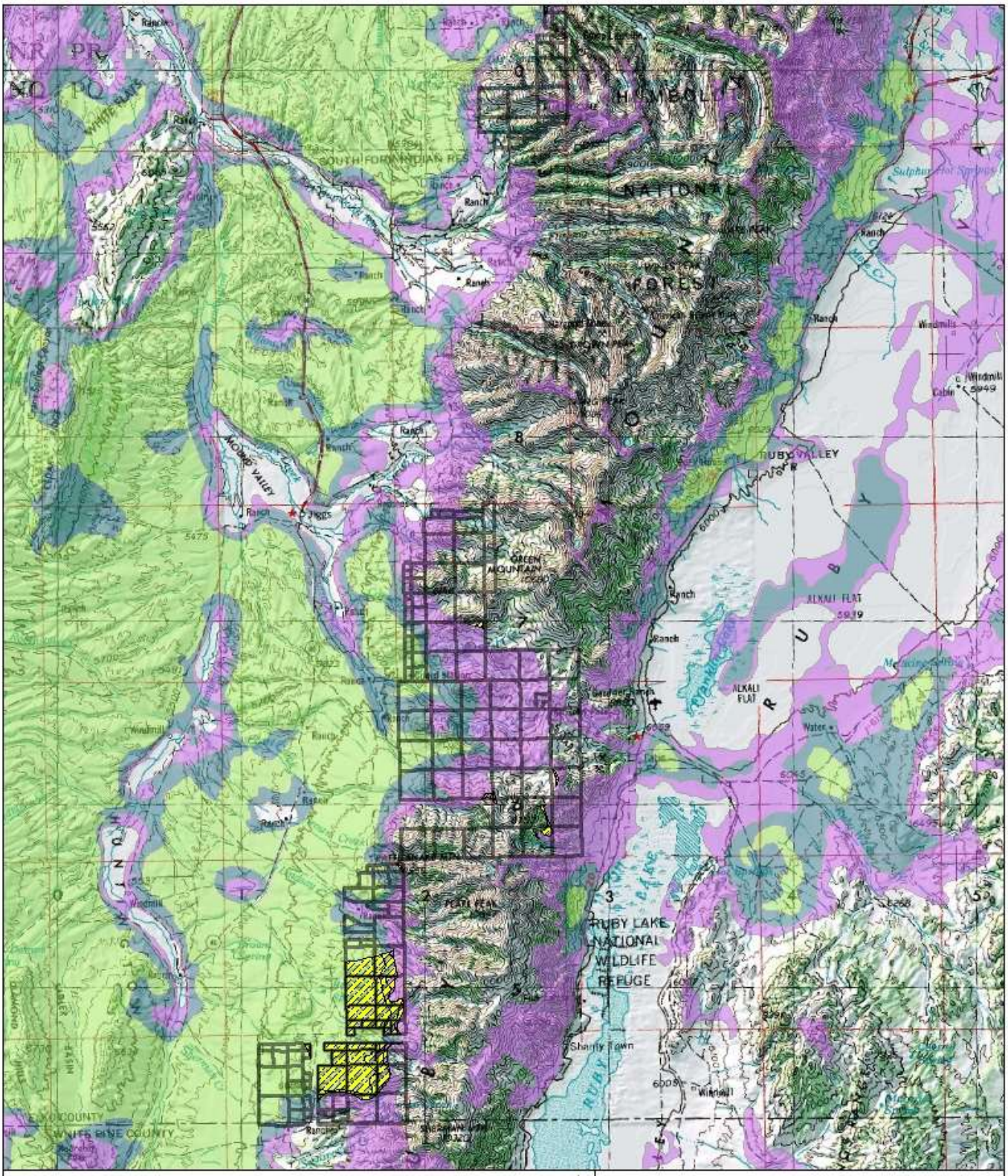
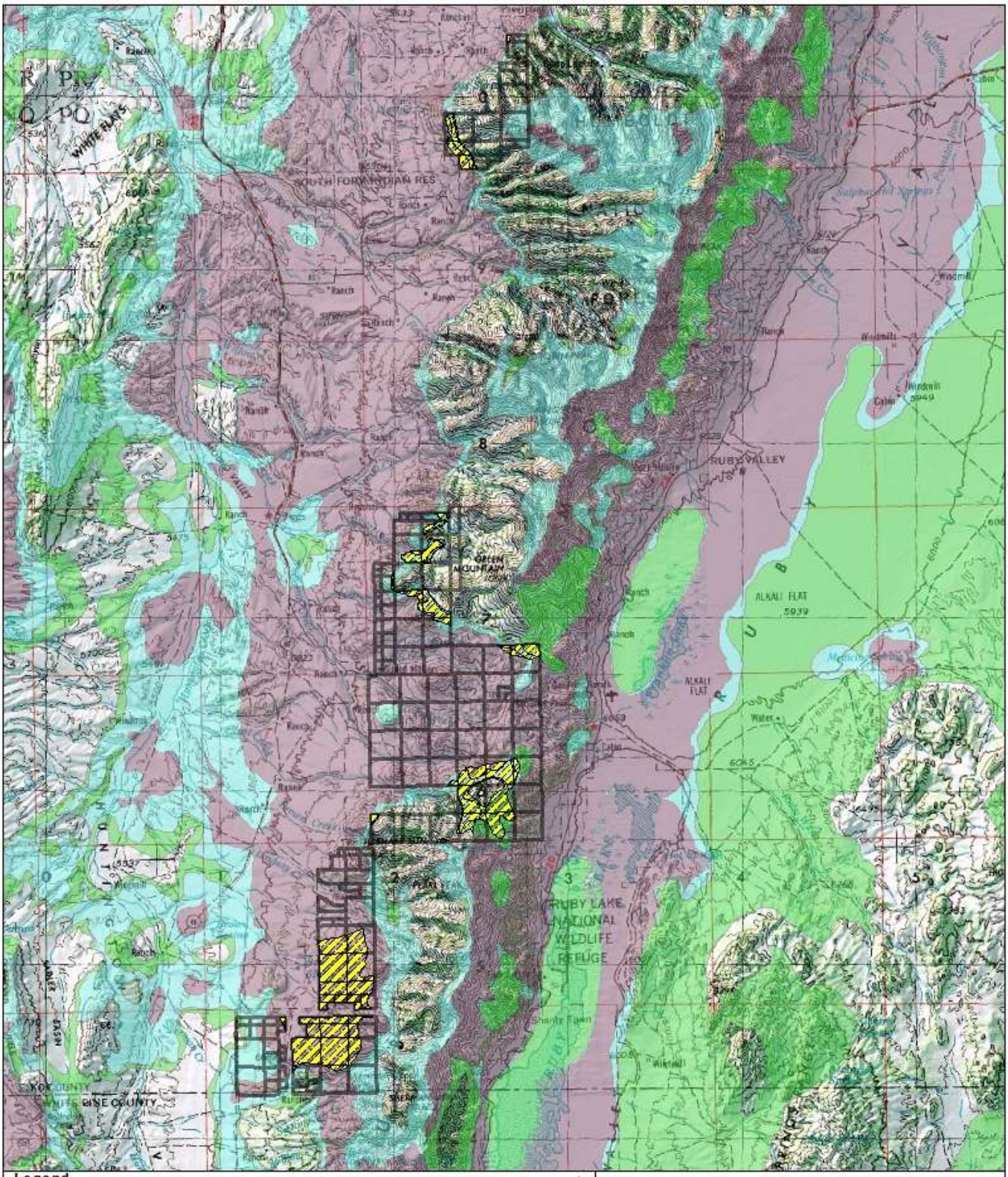
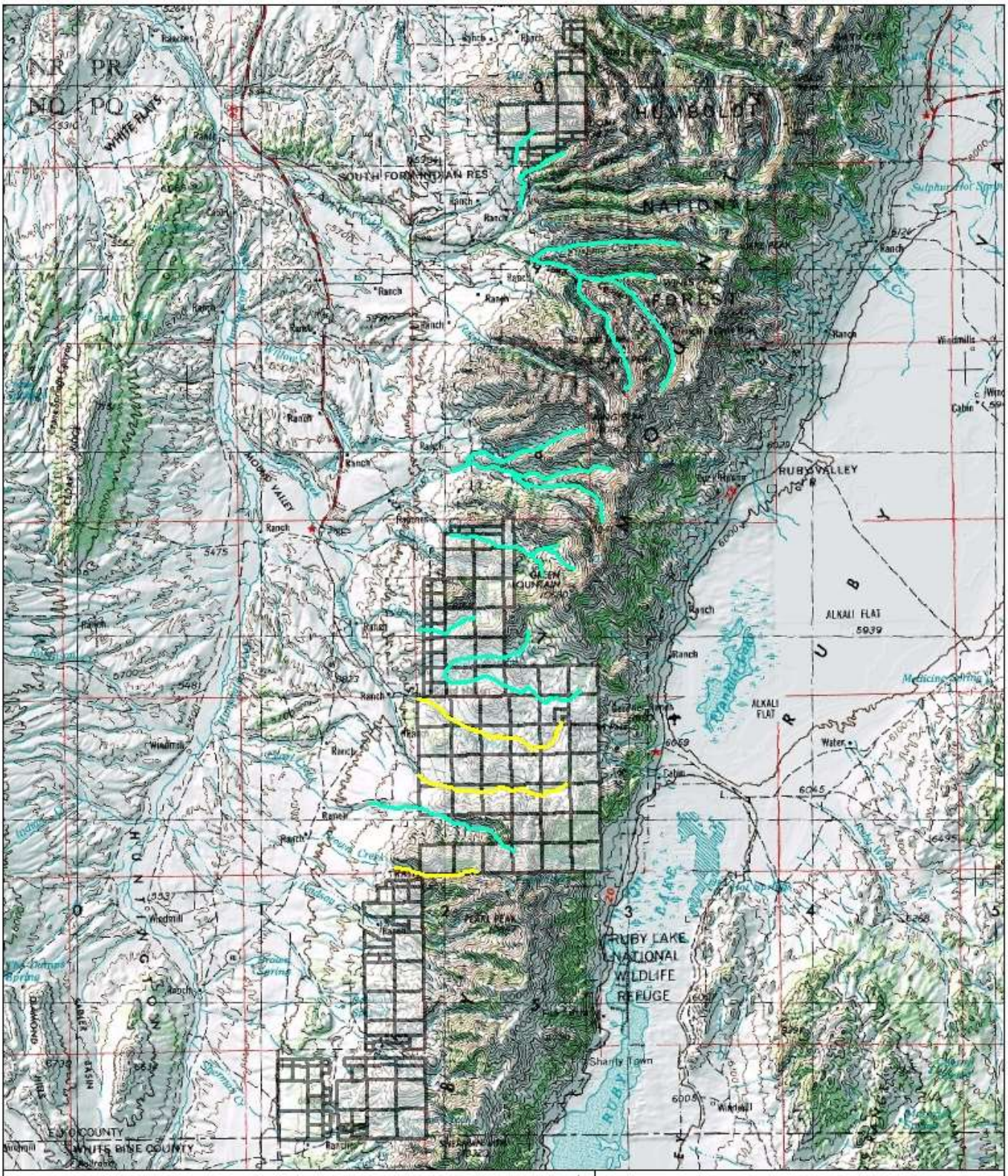
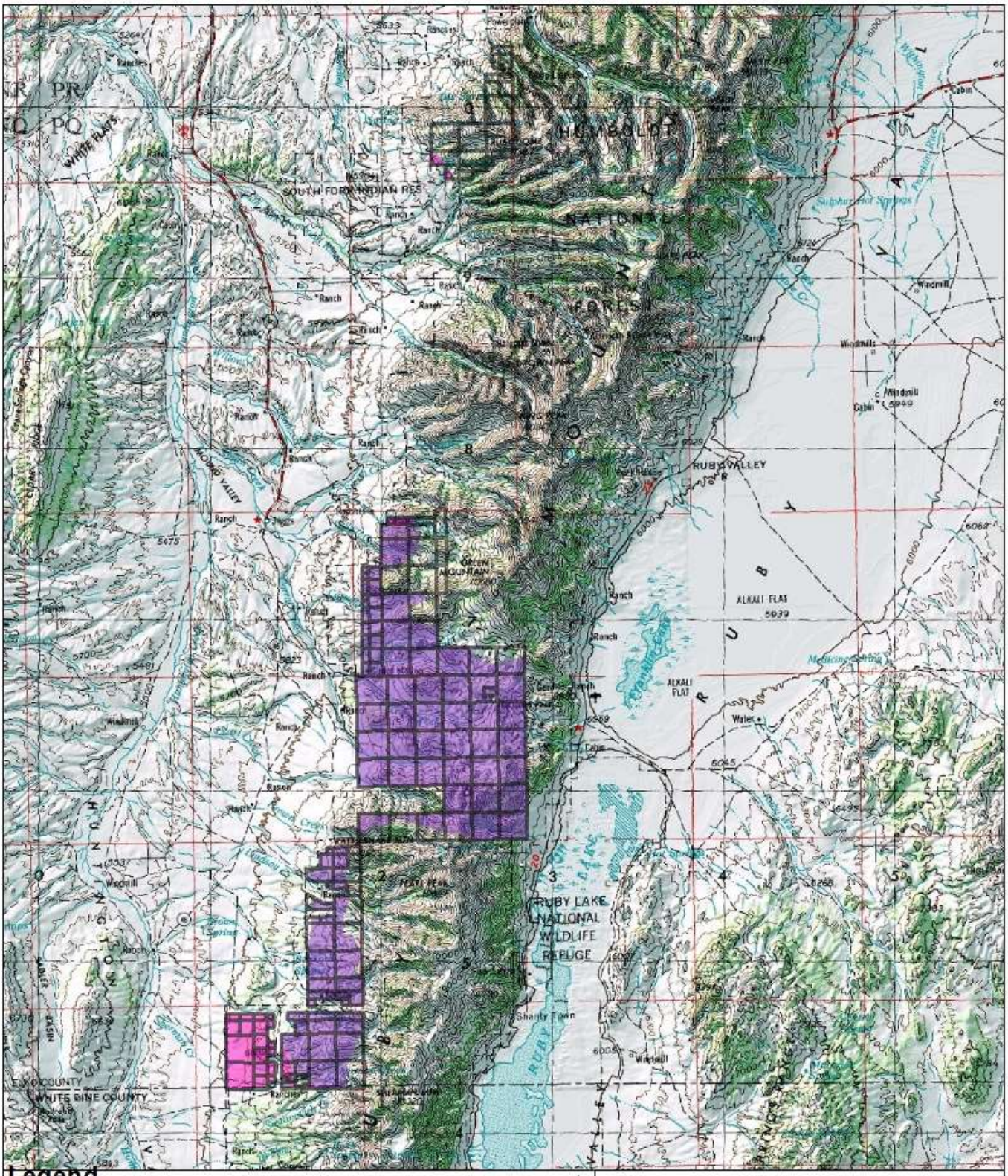
Legend
LEK STATUS
Active
Pending
Ruby Oil & Gas Lease Parcels
4 Mile Lek Buffer
NEVADA
WILDLIFE
Figure 1. 4 Mile Lek Buffer
Ruby Oil & Gas Lease
Miles
0
3.5
7

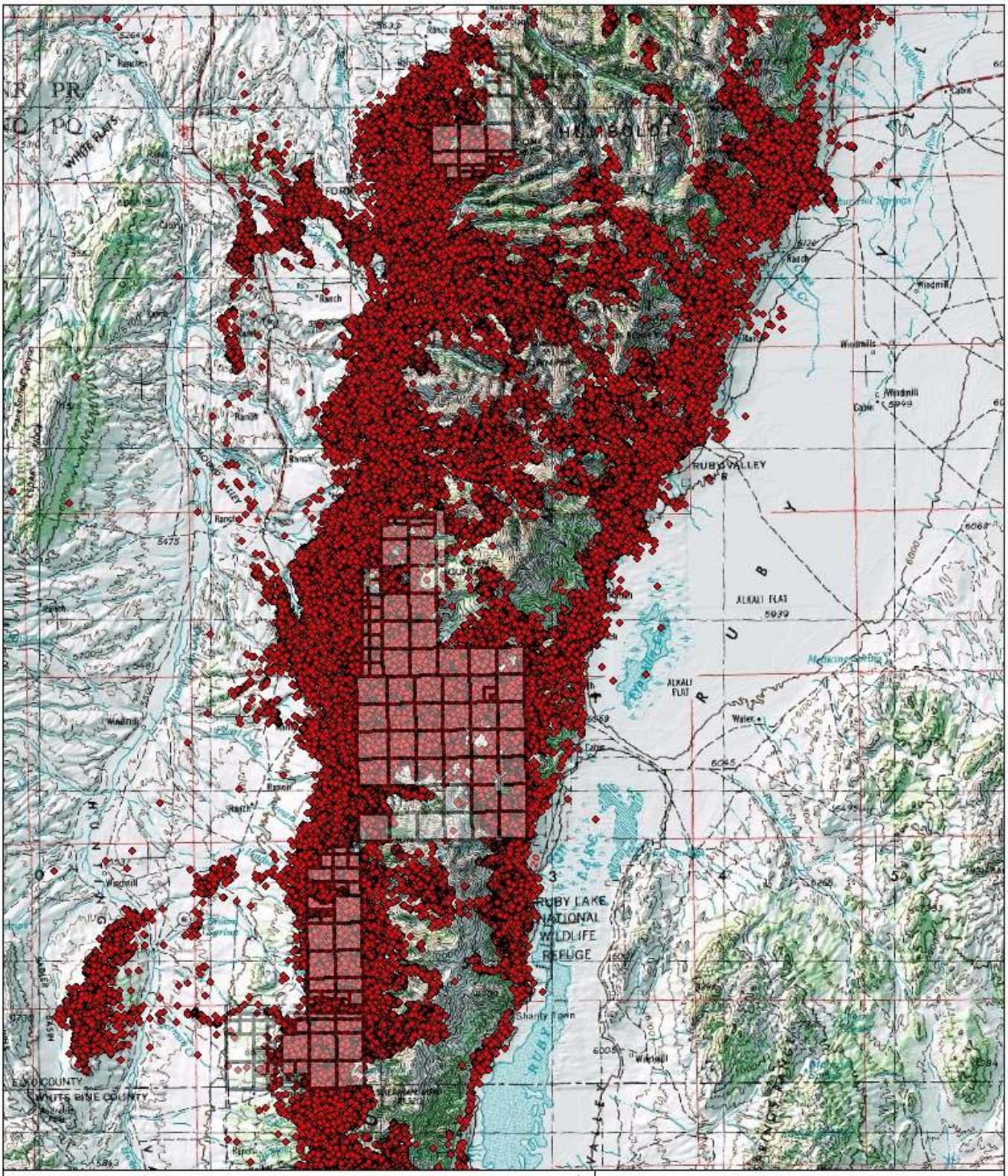

Legend
Ruby Oil & Gas Lease Parcels
GRSG Management Categories_Dec2015
GHMA
OHMA
PHMA
NEVADA
WILDLIFE
Figure 2. GRSG Management Categories
December 2015
Miles
0 2.5 5


Legend
Ruby Oil & Gas Lease Parcels
GHMA intersect Winter
Winter
High
Low
Moderate
NEVADA
WILDLIFE
Figure 3. GHMA intersect with Winter Habitat
Ruby Oil and Gas Lease
Miles
0 1.75 3.5
RUBY LAKE NATIONAL WILDLIFE REFUGE
RUBY VALLEY
ALKALI FLAT
GREEN MOUNTAIN
PEARL PEAK
MOORE VALLEY
SOUTH FORK INDIAN RES
NATIONAL FOREST
WHITE PINE COUNTY


Legend
GHMA intersect with Brood
Ruby Oil & Gas Lease Parcels
Brood Habitat
Brood
High
Low
Moderate
NEVADA
WILDLIFE
Figure 4. GHMA intersect with Brood Habitat
Ruby Oil and Gas Lease
Miles
0 2 4


NR PR
NQ PQ
WHITE PLAINS
SOUTH FORK INDIAN RES
HUMBOLDT
NATIONAL
FOREST
RUBY VALLEY
ALKALI FLAT
5939
ALKALI FLAT
PEARL PEAK
RUBY LAKE
NATIONAL
WILDLIFE
REFUGE
Sharply Town
ELKO COUNTY
WHITE PINE COUNTY
Legend
LCT Recovery Waters
SFHR LCT Occupied Waters
Ruby Oil & Gas Lease Parcels
NEVADA
WILDLIFE
Figure 5. Lahontan Cutthroat Trout Streams
Ruby Oil and Gas Lease
Miles
0 1.75 3.5


HUMBOLDT
NATIONAL
FOREST
RUBY VALLEY
ALKALI FLAT
ALKALI FLAT
RUBY LAKE
NATIONAL
WILDLIFE
REFUGE
SOUTH FORK INDIAN RES
WHITE FLATS
MOORE VALLEY
GREEN MOUNTAIN
ELKO COUNTY
WHITE PINE COUNTY
Legend
Ruby Oil & Gas Lease Parcels
Mule Deer Habitat
Crucial Winter
Transition Range
NEVADA
WILDLIFE
Figure 6. Mule Deer Habitat
Ruby Oil and Gas Lease
Miles
0 2 4


RUBY VALLEY
ALKALI FLAT
ALKALI FLAT
RUBY LAKE NATIONAL WILDLIFE REFUGE
Legend
Ruby Oil & Gas Lease Parcels
Mule Deer telemetry
NEVADA DEPARTMENT OF WILDLIFE
Figure 7. Mule Deer Telemetry Locations
Ruby Oil and Gas Lease
Miles
0 2 4