Roca Honda Resources Response to Agency 02-24-2012 Comments Of Roca Honda Project Reclamation Plan, Revision 1, August 2011, MK025RN

May 29, 2012

Reviewer: David L. Clark Agency: NM MMD			Review Date: February 24, 2012
ltem #	Section/Page (or general)	Topic	Comment
1.	Sections 2.3 & 5.1	Roads to be included in Permit Area	19.10.6.602.D(2), (3), (4) and (13)(i) Section 2.3 reports that 13 acres of haul road outside the permit area will be disturbed by surface activities and will require reclamation. Section 5.1 discusses haul road disturbance and reclamation, as well. New road disturbances need to be included in the permit area. Private o public roads that existed prior to the RHR mining operation, and that will not require reclamation after the mining operation, need not be permitted.
	RHR Response		The road disturbances described in Section 2.3, and the haul road disturbance described in Section 5.1 not currently described as being in the permit area will be included in the Permit Area. Additionally, Sections 1.0, 2.3 and 5.1 have been revised to describe the most recent additions to the permit area and the estimate of the disturbed acres, including the pipeline corridor. Replacement pages 1, 15 and 55 containing these changes have been provided for insertion into your copy of the Reclamation Plan.
2.	Sections 2.2.1, 2.6, 3.2.4, 3.4.4	Off-site disposal location	19.10.6.602.D(13)(f) There are several statements in the Reclamation Plan Revision 1 proposing that non-ore material will be hauled off-site: Sections 2.2.1 (3 times), 2.6, 3.2.4 (2 times), 3.4.4 (2 times in the last paragraph). Please clarify RHR's intentions with respect to the off-site location.

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	RHR Response	that if the material they must be disposed they must be disposed to the non-ore materic contain uranium by transported to the economically. How characterized as be mine. If, upon charactery, RHR will do	RHR's intentions with respect to the "off-site location" question posed by the reviewer are that if the materials, upon being characterized as committed to by RHR, demonstrate that they must be disposed of at a facility permitted or licensed to receive such materials, then RHR will make arrangements to dispose of them in such a manner, off-site. With respect to the non-ore material, that is, material that has been removed from the ore body and may contain uranium but does meet the cut-off grade for processing, that material may be transported to the mill and blended with mine ore and processed if it can be so done economically. However, if the material is not trucked to the mill and is otherwise characterized as being benign, based on analytical results, it may be placed back into the mine. If, upon characterization, it is determined that it requires disposal in a permitted facility, RHR will do so. The location has not been identified at this time as its disposition will depend on results.
3.	Section 3.7, Table 3-3, p 49	Seed mix	19.10.6.602.D(15)(g) In Table 3.3, the Proposed Reclamation Seed Mix, the scientific names for blue grama and sideoats grama are transposed. Also, the scientific name for alkali sacaton is <i>Sporobolus airoides</i> . Please correct. MMD recommends the addition of Indian ricegrass, <i>Achnatherum</i> (aka <i>Oryzopsis</i>) <i>hymenoides</i> , to the seed mixture, at 1 lb/ac PLS, because this cool season grass establishes very well on sandy soils and is highly palatable to all classes of livestock.
	RHR Response		The scientific names for Blue Grama and Sideoats Grama have been corrected, and Indian ricegrass, Achnatherum hymenoides, has been added to Table 3.3. The amended Table 3.3 on page 49 has been provided.
4.	General	Weed Control Plan	19.10.6.603.C(2)(b) In response to a Department of Game and Fish ("NMDGF") Comment #15, dated April 20, 2010, RHR stated that a Weed Control Plan had been prepared and would be included in the revised reclamation plan. A commitment to use weed-free seed and mulch, and to implement weed control are present in the Reclamation Plan Revision 1. A plan for implementing seed control was not found. Please provide the Weed Control Plan.

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	RHR Response		A Weed Control Plan has been developed and is included as new Appendix C, and a replacement reference page citing that the Weed Control Plan is included as Appendix C is provided.
5.	Section 2.2.5	Broken concrete used for riprap	19.10.6.603.F(6) The last sentence in Section 2.2.5 mentions the possibility of using broken concrete from the water treatment plant slab as riprap. Broken concrete would present a safety hazard if any rebar remains in the material, it would be unlikely to meet the D50 size or size distribution for properly installed riprap, and it is unsightly. It would be better to bury the broken concrete in a backfilled pond, the other proposed disposal alternative. MMD notes that the use of concrete rubble as an energy dissipater is proposed in Section 5.1.3 in the Mine Operations Plan Revision 1, applied over a filter or mat at pipe or channel outlets. That may be a better use for rebarfree broken concrete, but it may also be objectionable to the land owners and managers.
	RHR Response		RHR has amended the language in Section 2.2.5 to address the commenter's concerns. Concrete from demolition of facilities will be placed in pond areas prior to backfilling and covered with at least 24 inches of fill prior to placement of topdressing and reclamation. Replacement pages 10 and 10a have been provided. Please replace page 10 of your Reclamation Plan document with pages 10 and 10a to maintain the current pagination of the remainder of the section.
6.	Section 3.7	Vegetation reference area	19.10.6.603.G The proposed vegetation reference area needs to be visited by agency staff during the next growing season, prior to approval. The piñon-juniper community is distinct, and it is likely that reference sampling should only be conducted in the juniper-savanna and shrub-grassland communities, for which cover was shown to be statistically equivalent in Appendix B of the Reclamation Plan Revision 1.

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	RHR Response		RHR welcomes MMD staff to visit the site during the next growing season to inspect proposed reference area. Section 3.7.1, page 51 at NMAC 19.10.6.603.G(1)(b) and the Introduction and Conclusion sections of Appendix B (pages 1 and 5) have been revise address commenter's concerns regarding the piñon-juniper community to only including from the juniper-savanna and shrub-grassland communities. Replacement pages 51 and 5 have been provided. Figure 3-3 showing the Reference Area and the vegetative communities will not be modified, but the area shown as Piñon-Juniper will not be as a component of the Reference Area for the purpose of determining reclamation surthis comment is further addressed in RHR's Response to Comment 11.	
7.	General	Seed mix	It is unlikely that the proposed seed mix will result in a favorable comparison with the full diversity for the juniper-savanna and shrub-grassland communities in the reference area. MMD recommends that a diversity standard that is based on the physical environment of the reclaimed area and the seed mix be proposed. For perspective, at the Lee Ranch Mine, warm season grasses (especially galleta and alkali sacaton) and shrubs (especially four-wing saltbush and winterfat) have been readily established on the reclamation at more than 10% relative vegetation cover for both warm season grasses and shrubs. Total cool season grass establishment has been more challenging, and comprises between 0.5 and 1% relative vegetation cover. Forbs generally contribute very low cover, probably too low to reasonably have more than a presence standard.	

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	RHR Response		any reclamation seed mix. In a to include species that general the approved post-mining land on the reclaimed lands and probased on experience in New M community will generally refleseldom have all species in the established within sub-areas or parameters such as precipitati mentioned, at the Lee Ranch M season grasses, galleta and alk While the Roca Honda Mine is even precipitation patterns making up reclamation vegeta. We agree that the full diversity the reference area may not be mining and reclamation. We are on the ability of the reclaimed minimize the potential for excepost-mining land use of grazing a robust assemblage of species Mine, and are appropriate for "Reclamation Success" should	representation of mined lands seldom reflects the full diversity or ratios of general, it is our belief that a reclamation seed mix is developed by occur in the area or region, are consistent and supportive of a use of grazing, and are likely to have success in reestablishing ovide soil stabilization and vegetative cover. It is our belief, lexico and other areas, that a reestablished vegetative ct the species making up a reclamation seed mix, but will ratios represented in the mix. Some species will become if the reclaimed lands based on soils, aspect and other on patterns in years closely after reclamation efforts. As Mine there has been a predominant establishment of the warm all sacaton; and the shrubs four-wing saltbush and winterfat. In the region of the Lee Ranch Mine, soils, aspect and possibly my vary enough to result in different assemblages of species tive communities. If or the juniper-savanna and shrub-grassland communities in fully reflected in the reestablished vegetative community after lands and vegetative communities to stabilize the soils to essive erosion and to meet the requirements of the approved as that are native and adaptive to the region of the Roca Honda reclamation of the area. We also agree that the measure of be based more upon the ability of the post-mining reclaimed out grazing. Therefore, "Reclamation Success" should be

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			measured with less emphasis on diversity and more on the approved post-mining land use objectives of grazing, which would favor cover and productivity over diversity. In addition, the approval of the seed mix as submitted does not prevent the mix from being amended in the future based on future data, research and experiences gained from early efforts of any concurrent reclamation that may be able to be conducted during construction and operations of the Roca Honda Mine.
8.	Section 2.2.11, p 15	Wildlife fencing	Wildlife Protection 19.10.6.603.C(2) The Reclamation Plan, in section 2.2.11 on page 15, describes the removal of 8-foot exclusion fences around buildings and other facilities, and the establishment of barbed wire fencing around reclaimed areas to exclude livestock during bonding periods. The Department recommends that livestock fencing be constructed in accordance with specifications for minimizing injury to big game animals as described in the NMGF Habitat Handbook at http://wildlife.state.nm.us/conservation/habitat handbook/documents/FencingGuidelines.pdf
	RHR Response		RHR has amended Section 2.2.11 to reflect that livestock fencing will be constructed in accordance with specifications for minimizing injury to big game animals as described in the cited NMGF Habitat handbook. Replacement page 15 has been provided.

	: Kenneth Cunning NMDGF	ham		Review Date: November 30, 2011
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9.	Section 3.3.2, p 36	Wildlife habitat reclamation	The Reclamation Plan, in section 3.3.2 on page 36, describes measures to reclaim wildlife habitat if not in conflict with the approved post-mining land use. Many of the measures described (topographic variability, use of native plant seed, use of weed-free seed and mulch) are specified elsewhere in the Plan. Other measures described for wildlife habitat reclamation (clumps or rows of trees, brush or rock piles, weed control) are not mentioned. If the applicant intends to implement these measures, we recommend MMD request them to submit more detailed descriptions regarding these measures. If the applicant is not committed to implement these measures, reference to them should be removed from the Reclamation Plan. A weed control plan should be implemented, starting with pre-construction surveys and continuing through the duration of mining operations and the reclamation and monitoring period.	
	RHR Response		trees as part of the Reclamation brush piles may result as part of certified weed-free seed and mimportant components of the F	2 to remove the language listing planting of clumps or rows of in Plan. We believe that topographic variability, rock piles and of reclamation of the area. Use of native plant species, use of hulch and weed control are retained as what we believe are Reclamation Plan. Replacement page 36 has been provided uded as Appendix C in response to Comment No. 4.
10.	Section 2.4, Figure 2-4, pp 20-23	Revegetation Reference area	Plan. Proposed success standar reference area productivity, and calculating ground cover and prothe previously submitted Baselii explicitly stated in the Reclamat	evegetation success is depicted in Figure 2-4 of the Reclamation ds stated are "90% of reference area ground cover, 90% of diversity." We assume the methods and metrics used for oductivity on reclaimed areas will be identical to those used in the Data Report (BDR) for this project. However, this should be sion Plan. No vegetation diversity parameter was reported in the culated from the available data. A diversity metric and success the Reclamation Plan.
	RHR Response		See RHR's response to NM MM	D Comments 6 and 7 above.

Reviewer: Kenneth Cunningham Review Date: November 30, 2011

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11.	General	Revegetation reference area	The BDR, part of which is included as Appendix B of the Reclamation Plan, established that the vegetation types mapped as Juniper Savannah and Shrub-Grassland are statistically similar in terms of total vegetative cover. On that basis and because the post-mining land use is grazing and reclamation will not include replacement of trees, the Department has concurred with the proposed merger of these cover types for the purpose of reclamation planning and monitoring. The inference is made in the BDR that productivity would also be statistically similar. This inference should be tested using the statistical methods shown in Appendix B. The Pinon-Juniper Woodland vegetation mapping unit is statistically distinct from the other two types. The proposed reference area includes a portion mapped as Pinon-Juniper. Two of the existing vegetation transects within the reference area are in the Pinon-Juniper vegetation type. This portion of the reference area should be excluded from use as a success standard. If needed, additional transects should be added to improve statistical robustness. We recommend MMD defer approval of the proposed reference area, pending a site inspection by state agency staff, to take place during the growing season.
RHR Response			RHR believes that the existing data for the Juniper Savanna and Shrub-Grassland communities is sufficient to characterize these vegetative communities. As discussed in RHR's response to comments no. 6 and 7, revegetation of the reclaimed areas will be accomplished with an approved seed mix for the land use of grazing. The success of this revegetation will be compared to the grasses and shrubs in the reference area. The Piñon-juniper portion of the reference area will not be used for comparison of the revegetation. No further statistical testing of the reference area or addition of new transects is necessary before the revegetation takes place. RHR will use the same methodology and metrics utilized for calculating ground cover and productivity for the Baseline Data Report (BDR) for determining reclamation success.

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12.	General	Post-mining/ reclamation sampling	As has been stated in past correspondence, the reclamation plan must meet the requirements of the WQCC Regulations and insure that no impacts to water quality occur. In general, it is noted that all impacted material brought to the surface during mining will be removed. Following removal of all structures, stockpiles and equipment from the site, the footprint of the facility must be surveyed to insure that no remaining contamination exists. At a minimum, the areas around shafts, beneath impoundments, the pipeline corridor, and the haul road corridor must be surveyed to insure no contaminants remain at levels in excess of background concentrations. No sampling proposal is included in the reclamation plan to insure proper clear up criteria are met following cessation of mining and reclamation.	
	RHR Response		with the requirements of the WQ monitoring plans specific to ground has committed to sampling and a and appropriate disposition of the commitment.	clamation Plan, while specifying that the plan be consistent ICC Regulations, do not require detailed sampling and induster quality to be included in the Reclamation Plan. RHR nalyses of materials brought to the surface from the mine, at material as may be necessary. RHR will comply with this
			RHR does not agree that the MMD requirements for a Reclamation Plan include a requirement to survey areas for parameters that may affect groundwater as a part of the Plan. This requirement may be included as part of a Closure Plan required by the NMED GWQB Discharge Permit. This Closure Plan will be developed and submitted prior to mine closure, as required by WQCC Regulations.	
13.	General	Reclamation cost estimate	review and revision of the reclama	does not include any cost estimates. Following completion of ation plan, RHR must provide a complete cost estimate ine and an associated financial assurance proposal.

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	RHR Response		the project until after the Reclama Act Regulations, PERMIT APPROV proposal for financial assurance a application is approvable. Section REQUIREMENTS, provides that the the Director following the Directo but prior to the permit issuance.	rements do not require submittal of financial assurance for ation Plan is approved. Section 19.10.6.605.F. of the Mining AL REQUIREMENTS, provides that the applicant submit a fter receipt of written notice from the Director that the n 19.10.12.1201 of Part 12, FINANCIAL ASSURANCE e applicant shall provide a financial assurance proposal to or's determination that the permit application is approvable, Once the Reclamation Plan is approved, RHR will submit the on approved Permit Conditions in order to provide the me mine permit.
14.	Page vi	WQCC Regulations	RHR indicates that the reclamation plan has been prepared in accordance with Section 19.10.6.602D(15) NMAC to meet the requirements of the New Mexico Mining Act, and the U.S. Forest Service requirements for submittal of a reclamation plan for operation on Forest Service lands. Section 20.6.2.3107.A(11) NMAC of the Water Quality Control Commission (WQCC) Regulations requires submittal of a closure plan. The proposed reclamation plan has been submitted to NMED and will be incorporated, along with the comments, in the administrative record for DP-1717 for the Roca Honda Mine.	
			RHR will comply with the WQCC R	Regulations and develop and submit a Closure Plan pursuant
	RHR Response		to the requirements of Section 20 Commission.	.6.2.3107.A(11) NMAC of the Water Quality Control
15.	Section 2.2.1	Excavation material characterization	Disposition of non-ore and shaft ex lined stockpile areas will be excava returned to the mine". Any mater will not impact ground water quali	excavation material – RHR indicates that material beneath ated to a depth of 12" and either "removed off site or ial returned to the mine must be characterized to insure it ty prior to placement underground. In addition, any off-site r that insures protection of water quality.
	RHR Response		The removal of an additional twel	ve inches of material below lined stockpiles is to ensure that oved. RHR has committed to characterize any material

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			returned to the mine, the material	f, based on the results of characterization, it cannot be will be disposed of in a manner protective of water quality in which it is disposed of cannot be determined at this time till be the determinative factor.
16.	Section 2.2.3	Shaft plugging method	Plugging shafts, wells and drill holes – The reclamation plan for shafts includes an engineered concrete plug approximately 10' below the shaft collar, and backfill to within 1' of the ground surface. It is unclear at what depth below ground surface the "shaft collar" is located, and whether the entire depth of the shafts will be filled. The shaft (and air vent and escape rises) penetrate several water bearing units prior to reaching the final depth of the ore bearing formation. It is unclear how the plugging method for shafts, vent hole and escape raises will	
	RHR Response		insure no communication between aquifers would result in the long term. The Mine Operations Plan (Revision 1, Section 3.4, page 23. January 2012) describes that the shafts, vents and air raises will be constructed following traditional methods, which includes excavation of the shaft and lining with concrete. The specific depth of the shaft collar has not yet been determined as design of shaft is ongoing. However, the shaft collar is anticipated to extend approximately 80 ft. below the surface of the ground. Therefore, the plug will be set approximately 90 ft. below the surface and the shaft will be backfilled to 1 ft. below the surface of the ground. RHR does not intend to backfill the entire depth of the shaft. Communication between aquifers will be prevented by the installation of a grout curtain at each aquifer as described in the Mine Operations Plan, Revision 1, shaft construction. The purpose of the grout curtain method is to control inflow of groundwater into the shaft annulus and the shaft itself. The grout curtain will also prevent movement of groundwater between aquifers, as described in the Mine Operations Plan. A grout curtain will also be utilized in construction of the vent holes and escape raises.	
17.	Section 2.2.5	Water treatment facility decommissioning	rinsed, and disassembled, if necessa	ent plant – It is stated that treatment units will cleaned and any for sale and reuse at another facility. It is unclear how and managed. In addition, the reclamation plan does not

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	RHR Response		The water utilized for cleaning and rinsing the treatment plant units will be contained in the water treatment plant ponds and the water will be disposed of through evaporation. As stated in the Reclamation Plan, the treatment plant will remain in operation until it is no longer needed to treat water generated from the rest of the facility. At that point the amount of water needed to clean and rinse various components as the water treatment facility is being dismantled is anticipated to be fully contained in the ponds. RHR considers the water pipelines and associated features to be either part of the water treatment plant facilities or part of the mine surface facilities to be removed. To the extent that any such pipelines and features require cleaning and rinsing prior to disposal, it will be done.	
18.	Figures 2-1, 2-2, & 2-3	Schedule	The schedule indicates that wells and well access roads will be among the first features clos NMED may require ground water monitoring pursuant to DP-1717 for a period of time follo cessation of mining activities and reclamation efforts and some wells may be required to re in place following closure. There is a line item on the Section 10 schedule for closure of a w treatment facility. It is NMED's understanding that all water will be treated at the Section 1 facility.	
	RHR Response		RHR recognizes that there may be a need and/or a requirement to maintain some of the wells and access roads in place for a period of time following cessation of mining and closure. To the extent such is required, the Reclamation Plan will be modified to accommodate those needs in the future. The reclamation plan as currently written is meant to capture all of the activities anticipated for reclamation in order to obtain approval from MMD and subsequently establish a surety reflective of all anticipated costs. Your comment regarding the water treatment plant is correct. All water will be treated at the Water Treatment Facility located in Section 16. Figure 2-2, the Reclamation Schedule for Section 10, has been revised and the item, "Water Treatment Facility, line 30", has been	
19.	Section 2.5	Excavation material	deleted and a replacement page 17 provided. Acid and other toxic drainage – On page 24 (and again on page 45) RHR indicates it has committed to characterization of excavated material "as a condition of the NMED approved	

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		characterization	review and is not yet approved. Cha	that discharge plan, DP-1717 is still undergoing technical aracterization of potential shaft material is being conducted during the technical review process.
	RHR Response		RHR recognizes that DP-1717 has no material characterization results w	ot yet been approved. RHR will provide the results of its hen the report is available.
20.	Performance and Reclamation Standards and Requirements – As previous reclamation plan does not provide any discussion regarding a sampling insure background levels for contaminants of concern are achieved follow site. All storm water management and collection systems should remain it time as the site is demonstrated to be free of impacted material that may water quality.		any discussion regarding a sampling and removal plan to ninants of concern are achieved following reclamation of the and collection systems should remain in place until such	
	RHR Response		Please see RHR's response to your	Comment 14 above.
21.	Section 3.3.4, p 45	Excavation material characterization	regarding the potential to generate unclear if the intent of the statemer meant to indicate that all pyrite that altered to hematite and/or limonite clarified. Materials characterization whether or not material has the pot	
	RHR Response		to conduct Acid/Base Accounting (A any potential for generation of low that will be excavated during const	ection by RHR was developed prior to RHR's commitment ABA) sampling and analyses to determine whether there is pH solutions from the oxidation of any non-ore materials ruction of the shafts, vent and air raises. RHR has aterial and will provide a report when it is available to
22.	General	Natural channel surveys	1	a Resources survey and document natural channel data collection. This information should inform

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			courses. This approach should striv	ridth, depth, slope, and meander pattern of surface water ve for natural channel stability, to minimize the potential for clamation. Section 3.3.5 approaches this topic, but with	
	RHR Response		otherwise reroute as part of its mi Operations Plan and design drawin design and construction of the re-e	of the portions of the arroyos that it proposes to modify or ning operations and include the information in its Minengs. The information will be utilized to approximate the established channel segments at reclamation. The language and a replacement page 39 provided.	
23.	Section 4.0	Regulatory	Section 4.0 should list the anticipated "Other Applicable Laws".		
	RHR Response		and State Permits required for the	t of Other Applicable Laws in the form of a List of Federal project in its Permit Application submitted in October 2009 has been reproduced and is included as a new Table 4-1 in n.	
24.	General	Surface water discharges	waters. These discharges might sig floodplain functioning (perhaps ass (such as selective transport and dep physical destabilization of downstre	oncerned about the location(s) of the discharges of pumped nificantly alter the shape of the channel and floodplains, the ociated with vegetation changes), and sediment transport position of fine-grained soils). Such changes might cause eam reaches. SWQB notes that although the project site etlands, the proposed pumped-water discharge may create	

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			The comment is noted. However, RHR believes Reclamation Plan of the mine permit area requirappropriate comment for the NMED's review of permit application and/or the Environmental Imforest Service for RHR's project proposal.	red by the Mining Act. This may be a more the Discharge Plan application, its NPDES
	RHR Response		Our response notwithstanding, please note that Operations Plan, Revision 1 describes how and water. Briefly, RHR will construct a 20 inch pipe northeast of the mine site, to private property in normal circumstances, a local rancher will then for irrigation. In the event that water is discharged San Lucas Arroyo near this same location. RHR is possibility.	where RHR proposes to discharge the mine cline to a location approximately eight miles the vicinity of Laguna Polvadera. Under pick up the water and re-use all of the water ged to the arroyo, it may be discharged into

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25.	Section 3.3.6, p 42	impoundments mentioned previous number 10. Letter livestock water impon NMOSE web site http://www.c	The Plan mentions retaining impoundments as stock ponds for livestock grazing. As was mentioned previously in NMOSE comments (NMOSE letter dated February 23, 2010, comment number 10. Letter from John Romero, OSE to James Hollen, MMD) and under NMSA 72-9-3, livestock water impoundments may require approval from NMOSE. Links to forms are available on NMOSE web site.
	RHR Response		RHR recognizes the requirements for possible approval of livestock impoundments. Nothing contained in the reclamation plan presumes that required approvals will not be obtained. Should such structures be included in the reclamation of the project site, RHR and the ranche will work with the appropriate regulatory agencies to obtain those approvals.
26.	Section 2.2.3, p 9	Plugging plan	The Plan provides some details of sealant and methodology for plugging wells, yet 19.27.31.K NMAC requires a plugging plan of operations be submitted for NMOSE review and approval prior to implementation. As a clarification, Plan does not substitute for submittal and review of plugging plan of operations closer to the time of the actual plugging.
	RHR Response		RHR is aware and knowledgeable of OSE requirements to obtain permits prior to drilling and abandonment of wells and will comply with these requirements. Nowhere in its Reclamation Plan does RHR represent that it does not intend to submit a well plugging plan as required by the OSE. To the contrary, RHR specifically commits in Section 4.0 of the Reclamation Plan to comply with all other applicable laws.

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