

Table 3-3 Emissions Inventory.

Emission	Estimated Emission (tons/yr)
CO ₂	353.70
HCL	0.017
H ₂ O ₂	0.003
NaOH	0.0003
Fugitive Dust	135.9

3.7 NOISE

Because of the remoteness of the Nichols Ranch ISR Project and the nature of ISR operations, noise from the project will be minimal. Noise that is produced above background levels will be limited to activities such as drilling and plant operation, but those operations will have limited noise addition above background levels.

The nearest residence to the Nichols Ranch ISR Project is the Pfister Ranch. The Pfister Ranch is located approximately 0.6 mi north of the Hank Unit northern boundary. Noise from the Nichols Ranch ISR Project should not have any impact to the ranch since the satellite plant for the Hank Unit will be located approximately 2.0 mi away. Also drilling activity for the Hank Unit will take place approximately 1.0 mi away or greater from the residence. Any noise that is generated by the project will be localized and minimal.

3.8 HISTORIC AND CULTURAL RESOURCES

Reports containing information regarding historic, cultural, and paleontological resources for the Nichols Ranch ISR Project are discussed in detail in Addendums 3A and 3B. Addendum 3A contains the cultural resource report for the Hank Unit. Addendum 3B contains the results of a paleontological survey conducted for the Nichols Ranch ISR Project. Addendum 3C contains the results of an 80-acre block inventory that was completed for a previously uninventoried area in the Hank Unit. All addendums are considered confidential and not for public disclosure under

10 CFR 2.390. Please refer to the affidavit regarding the withholding of this information from public disclosure.

3.8.1 Cultural Resources

Class I Literature Search for Uranerz Energy Corporation's Nichols Ranch ISR Project Permit

File searches (Nos. 20980, 20981, and 22571) were conducted on November 19, 2007 and August 19, 2008, through the Cultural Records Office of the Wyoming State Historic Preservation Office (SHPO) for Sections 7, 8, 17, 18, and 20, T43N, R76W; Sections 30 and 31, T44N, R75W; and Sections 5-8, T43N, R75W. Uranerz Energy Corporation's proposed Nichols Ranch ISR Project occurs within these legal descriptions.

Ten projects have been conducted within the sections for seven block and three block/linear surveys; they were completed for five mine blocks, three well pads and access roads, and two well pads (Table 3-4). A few recent projects have yet to be approved by the BLM and have not been accessioned into the SHPO database; therefore, they are not included in Table 3-4. Fifty two sites, however, have been recorded in the sections. Of these, 45 are prehistoric sites, five are historic sites, and two are multicomponent prehistoric/historic sites. The sites are summarized in Table 3-5 and presented in Exhibit D3-1 (of the attached Appendix D3). Of the prehistoric sites, 17 are eligible for listing on the National Register of Historic Places (NRHP), 20 are not eligible, seven are not eligible with SHPO concurrence, and one is unevaluated with SHPO concurrence. Of the historic sites, one is eligible and four are not eligible. One multicomponent site is eligible for the NRHP and one is not eligible with SHPO concurrence.

Table 3-4 Previous Cultural Resource Inventories Within or near Uranerz Energy Corporation's Nichols Ranch ISR Project Permit Area.

Accession No.	Project Name	Contractor ¹	Type ²	Legal Location
76-352-0	Brown's Ranch Uranium Mine	OWSA	B	Section 6, T43N, R75W
77-1-0	Brown's Ranch Uranium Mine	OWSA	B	Section 30, T44N, R75W
79-680-0	Brown's Ranch Uranium Mine	PE	B/L	Section 6, T43N, R75W
80-1209-0	Fed BZ 1	AS	B/L	Section 7, T43N, R76W
81-2054-0	Fed B-R-1	AC	B	Section 6, T43N, R75W
81-2054-0	Parker Fed 34-6 Testing	AEC	B	Section 17, T48N, R71W
4-2191-0	East Bullwhacker CBM POD	SWCA	B	Section 20, T43N, R76W
6-1350-0	Dry Willow CBM POD #1	SWCA	B	Section 31, T44N, R75W
6-1350-2	Dry Willow POD 1 Supplement	SWCA	B	Section 31, T44N, R75W
6-1465-0	Dry Willow POD Block Survey	Arcadis	B	Section 20, T43N, R76W

¹ AC = Archeo Consultants; Arcadis = Arcadis U.S. Inc.; AEC = Archaeological Energy Consulting; AS = Archaeological Services; OWSA = Office of the Wyoming State Archaeologist; PE = Powers Elevation.

² B = block; B/L = combination block/linear.

Table 3-5 Previously Recorded Sites Within or near Uranerz Energy Corporation's Nichols Ranch ISR Project Permit Area.

Site No.	Legal Location			Site Type	Landowner	NRHP Eligibility Status ¹	Time Period ²	Accession No. ³
	Township	Range	Section					
48CA379	44N	75W	31	Lithic scatter	Private	NE/SHPO	P	6-1350
48CA5386	43N	76W	8	Lithic scatter	Private	NE	P	--
48CA5390	43N	76W	17	Lithic scatter	Private	E	P	--
48CA5391	43N	76W	17	Lithic scatter	Private	E	P	--
48CA5393	43N	76W	20	Inscription	Private	NE	P	--
48CA5406	43N	76W	17	Lithic scatter	Private	NE	P	--
48CA6146	44N	75W	31	Open camp	BLM	NE/SHPO	P	6-1350
48CA6147	44N	75W	31	Open camp/trash scatter	BLM	NE/SHPO	P/H	6-1350
48CA6148	44N	75W	31	Lithic scatter	BLM	NE/SHPO	P	6-1350
48CA6149	44N	75W	31	Lithic scatter	BLM	NE/SHPO	P	6-1350
48CA6150	44N	75W	30	Lithic scatter	Private	NE/SHPO	P	6-1350

Table 3-5 (Continued)

Site No.	Legal Location			Site Type	Landowner	NRHP Eligibility Status ¹	Time Period ²	Accession No. ³
	Township	Range	Section					
48CA6151	44N	75W	30	Lithic scatter	Private	NE/SHPO	P	6-1350
48CA6153	44N	75W	30	Open camp	Private	U/SHPO	P	6-1350
48CA6155	44N	75W	30	Lithic scatter	Private	NE/SHPO	P	6-1350
48CA6342	43N	75W	6	Open camp	BLM	NE	P	--
48CA6343	43N	75W	6	Open camp	BLM	NE	P	--
48CA6344	43N	75W	6	Open camp	BLM	NE	P	--
48CA6345	43N	75W	6	Open camp	BLM	NE	P	--
48CA6474	43N	75W	8	Rockshelter	Private	E	P	--
48CA6475	43N	75W	7	Open camp	Private	E	P	--
48CA6476	43N	75W	8	Open camp	Private	E	P	--
48CA6477	43N	75W	7	Lithic scatter	Private	NE	P	--
48CA6478	43N	75W	8	Open camp	Private	E	P	--
48CA6479	43N	75W	8	Open camp	Private	E	P	--
48CA6480	43N	75W	8	Open camp	Private	E	P	--
48CA6481	43N	75W	8	Open camp	Private	E	P	--
48CA6489	43N	75W	8	Open camp	Private	E	P	--
48CA6490	43N	75W	6, 7	Open camp	Private	E	P	--
48CA6491	43N	75W	7	Lithic scatter	Private	NE	P	--
48CA6498	43N	75W	8	Lithic scatter	Private	NE	P	--
48CA6499	43N	75W	6, 7	Lithic scatter	Private	NE	P	--
48CA6748	43N	75W	6	Open camp	BLM	E	P	--
48CA6749	43N	75W	6	Lithic scatter	Private	NE	P	--
48CA6750	44N	75W	31	Lithic scatter	BLM	NE	P	--
48CA6751	44N	75W	31	Open camp	BLM	E	P	--
48CA6752	44N	75W	31	Open camp	BLM	NE	P	--
48CA6753	44N	75W	31	Open camp	BLM	E	P	--
48CA6754	44N	75W	31	Lithic scatter	BLM	E	P	--
48CA6926	43N	75W	5	Lithic scatter	Private	NE	P	--
48CA6927	43N	75W	5	Open camp	Private	E	P	--
48JO2944	43N	76W	8	Trash scatter	Private	NE	H	--
48JO2945	43N	76W	8	Trash scatter	Private	NE	H	--
48JO2946	43N	76W	7, 8	Open camp	Private	E	P	--

Table 3-5 (Continued)

Site No.	Legal Location			Site Type	Landowner	NRHP Eligibility Status ¹	Time Period ²	Accession No. ³
	Township	Range	Section					
48JO2947	43N	76W	7	Lithic scatter	Private	NE	P	--
48JO2948	43N	76W	17	Lithic scatter	Private	NE	P	--
48JO2949	43N	76W	17	Trash scatter	Private	NE	H	--
48JO2950	43N	76W	17	Trash scatter	Private	NE	H	--
48JO2951	43N	76W	18	Homestead	Private	E	H	--
48JO2953	43N	76W	20	Lithic scatter/ building remains	Private	E	P/H	--
48JO2957	43N	76W	17	Lithic scatter	Private	NE	P	--
48JO2959	43N	76W	18	Lithic scatter	Private	NE	P	--
48JO2960	43N	76W	18	Lithic scatter	Private	NE	P	--

¹ E = eligible; NE = not eligible; NE/SHPO = not eligible with SHPO concurrence; U/SHPO = unevaluated with SHPO concurrence.

² H = historic; P = prehistoric; P/H = multicomponent prehistoric/historic.

³ -- = sites that are not yet accessioned with projects, sites associated with projects that have not yet been accessioned in the cultural records office, and sites with projects that do not extend into this section.

The entire area encompassed by the Nichols Ranch Unit permit boundary (within Sections 7, 8, 17, 18, and 20, T43N, R76W) was inventoried at the Class III level by Western Land Services, Sheridan, Wyoming, for the Tex Draw CBM POD, which has not been analyzed by the BLM (personal communication, November 21, 2007, with Clint Crago, Archaeologist, BLM Buffalo Field Office).

Within the Hank Unit permit boundary, all of Section 30 and all but the SENE, NESE, and SESE of Section 31 were inventoried for the Dry Willow 1 POD, which has been approved by BLM (personal communication, November 21, 2007, with Clint Crago, Archaeologist, BLM Buffalo Field Office). The SENE, NESE, and SESE of Section 31 were inventoried in 2007 for the Uranerz Energy Corporation's Hank In-situ Uranium Project, but it has not been reviewed by BLM. All of Sections 6-8 T43N, R75W, were inventoried at the Class III level in 2006 by Arcadis U.S., Inc. for the Dry Willow Phase 4 POD (report in progress). In August 2008, the WSW (80 acres) of Section 5, T43N, R75W, were inventoried by TRC Environmental

Corporation at the Class III level and the accompanying report is presented in Addendum 3C. All areas within the Hank Unit have been inventoried at a Class III level for cultural resources.

Traditional Cultural Property Site 48CA268

The Hank Unit within Uranerz Energy Corporation's Nichols Ranch ISR Project permit area occurs adjacent to the west side and lower slopes of Pumpkin Buttes. In 2004, the entire summit area of Pumpkin Buttes (North, North Middle, South Middle, and South buttes) was recommended as a Rural Historic Landscape (RHL) with a contributing Traditional Cultural Property (TCP) (Site 48CA268) (Seletstewa et al. 2004). This recommended designation followed Native American consultation with affected Native American tribes. A Memorandum of Agreement was signed September 25, 2006, between Native American tribes and participating agencies and Site 48CA268 was determined to qualify as a TCP but not a RHL (personal communication, November 29, 2007, with Clint Crago, Archaeologist, BLM Buffalo Field Office). The final 2006 report and site form have, to date, not been accessioned by SHPO. The site boundary of the TCP follows the elevation contour of 5,500 ft above mean sea level (1,676 m) that corresponds to the average summit elevation of the four buttes that comprise Pumpkin Buttes. Therefore, due to the immediate proximity of the Hank Unit permit boundary, any ground disturbance within the permit boundary would constitute an adverse effect to the setting of the TCP, which is eligible for listing on the NRHP. Further, if ground disturbance is proposed within the boundary of the TCP, such activity would constitute an adverse effect to the TCP and would require Native American consultation and a subsequent Memorandum of Agreement between all affected participants.

3.8.2 Paleontological Resources

A paleontological survey was conducted for the Nichols Ranch ISR Project. From the survey performed, the Nichols Ranch ISR Project was concluded to have no major impact to significant fossil remains because of the geology and poor exposures of fossil bearing sediments. One recommendation from the survey is to have a monitor present to oversee any major ground disturbing events when more than a few feet of surface are removed. Uranerz Energy

Corporation will comply with this recommendation when conducting any construction that will involve the removal of several feet of soil. Additionally, if any fossil remains are found during any construction activities, Uranerz Energy Corporation will immediately contact the appropriate state and federal agencies.

The complete paleontological survey is attached as Addendum D3B.