40-1162

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November 7, 2003

MFG No. 180888

Mr. Bill von Till
U.S. Nuclear Regulatory Commission
Uranium Recovery Branch
Division of Waste Management
Office of Nuclear Materials Safety and Safeguards
Mail Stop T8A33
Washington, D.C. 20555-0001

Dear Mr. von Till:

In response to your fax and our phone conversations, enclosed you will find photocopies of the information that was requested.

As you can see, the information was included in a report that was submitted to the NRC in May 2002. I have also enclosed a copy of the letter dated February 13, 2003 that transmitted this information to Mark Thiesse of the Wyoming Department of Environmental Quality (WDEQ).

The tables copied from the May 2002 report, along with a figure showing the location of the wells (both pre-2002 and the new wells drilled in 2002), present the soil and water quality data that we have obtained after 1999. There are data for all of the wells requested with the exception of SWAB-9 and SWAB-11. These wells were not resampled in 2002. The 2002 resampling episode was the only time since 1999 that any of these new wells were sampled. As you can see, there are data from many additional wells that were not requested.

It is important that the Red Mule resident be informed that Mr. Thiesse was incorrect in his e-mail suggesting that he did not think he had the data. As we discussed, we have forwarded all information to the WDEQ. Given the volume of material that we have sent to Mr. Thiesse since 1999, it is easy to understand how he would not be readily aware of all of the information he has.

We appreciate the opportunity to set the record straight and would be happy to assist you in any way we can.

Sincerely,

MFG, Inc.

Louis Miller, P.E.
Project Manager

cc: Larry Corte, Western Nuclear, Inc. (w/o enclosure)
Harley Shaver (w/o enclosure)
Mark Thiesse, WDEQ (w/o enclosure)

UMSS01

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MFG # 180888

February 13, 2003

Mark Thiesse
Wyoming Department of Environmental Quality
250 Lincoln Street
Lander, Wyoming 82520

Dear Mr. Thiesse:

Per your discussion with Harley Shaver, please find enclosed one copy of each of the following documents:

1. WNI Response to NRC Request of 9/6/01 for Additional Information Site Closure Plan for the Split Rock, Wyoming Site (11/13/01)
2. WNI Response to NRC Request of 9/6/01 for Additional Information Site Closure Plan for the Split Rock, Wyoming Site (1/14/02)
3. WNI Response to NRC Request of 9/6/01 for Additional Information Site Closure Plan for the Split Rock, Wyoming Site (5/25/02)
4. WNI Response to NRC Request of 9/6/01 for Additional Information Site Closure Plan for the Split Rock, Wyoming Site (7/23/02)
5. Response to questions raised in August 21, 2002 telephone conference call (9/9/02)

If you have any questions or need more information please feel free to contact me at (970) 223-9600.

Sincerely,

Lou Miller, P.E.
Project Manager

cc: Harley Shaver (w/o enclosures)
Larry Corte, Western Nuclear (w/o enclosures)
Bill Von Till, U.S. NRC (w/o enclosures)

Prepared For:

Nuclear Regulatory Commission
11545 Rockville Pike
Rockville, MD 20852

WNI RESPONSE TO NRC REQUEST OF 9/6/01 FOR ADDITIONAL INFORMATION ON SITE CLOSURE PLAN FOR THE SPLIT ROCK, WYOMING SITE

Prepared By:

Shepherd Miller
3801 Automation Way, Suite 100
Fort Collins, Colorado 80525

SHEPHERD MILLER

May 2002

Table 1-1 Analytical Results of Groundwater, Samples from Drilling, 2002 (Page 1 of 6)

Location	Sample depth, ft.	Date Sampled	Alkalinity as CaCO3 (mg/L)	Ammonia as N (mg/L)	Nitrate+Nitrite as N (mg/L)	TOC (mg/L)	TDS, Calculated (mg/L)	TDS @ 180 (mg/L)	A/C Balance (± 5) %	Al (mg/L)	Anions (meq/L)
SMI BH01	55	1/13/02	87	<0.05	1.8		117.18	284	-1.47	<0.1	2.17
	65	1/13/02	82	<0.05	1.66		109.90	192	-1.05	<0.1	2.03
	75	1/13/02	71	<0.05	1.21		87.53	191	0.01	<0.1	1.62
	85	1/13/02	72	<0.05	1.06		93.57	168	0.81	<0.1	1.71
	95	1/13/02	75	<0.05	1.15		96.56	150	0.38	<0.1	1.78
SMI BH02	36	1/13/02	164	<0.05	0.96	3.45	255.97	303	0.54	<0.1	4.59
	56	1/13/02	156	<0.05	1.16	3.17	227.97	378	0.51	<0.1	4.15
	65	1/13/02	154	<0.05	1.1	1.24	227.53	273	1.31	0.3	4.12
	75	1/13/02	158	<0.05	1.12	0.76	232.20	273	-0.36	<0.1	4.27
	85	1/14/02	147	<0.05	1.14	1.13	218.62	253	1.24	<0.1	3.96
	95	1/14/02	156	<0.05	1.07	1.47	231.52	283	2.64	<0.1	4.14
	105	1/14/02	159	<0.05	0.97	2.33	240.82	330	1.70	<0.1	4.34
	115	1/14/02	152	<0.05	1.08	1.36	223.90	279	1.42	<0.1	4.04
	105	1/14/02	156	<0.05	0.95	2.55	243.16	279	1.48	<0.1	4.37
SMI BH03	36	1/15/02	130	0.17	1.48	3.24	234.44	265	0.01	<0.1	4.14
	55	1/16/02	140			2.91		273			
	75	1/16/02	130	<0.05	1.63	1.68	207.18	226	-0.51	<0.1	3.72
	85	1/16/02	139	<0.05	1.45	0.94	208.23	225	0.38	<0.1	3.77
	95	1/16/02	140	<0.05	1.55	0.80	210.80	261	0.22	<0.1	3.83
	105	1/16/02	147	<0.05	0.99	0.71	224.79	268	1.11	<0.1	4.07
	115	1/16/02	149	0.16	0.59	0.50	216.74	248	0.50	<0.1	3.96
SMI BH04	55	1/16/02	162	<0.05	1.26	2.43		299		<0.1	
	65	1/16/02	158	<0.05	1.34	1.14		241		<0.1	
	75	1/16/02	152	<0.05	1.29	0.54		245		<0.1	
	85	1/16/02	147	<0.05	1.2	0.58		249		<0.1	
	95	1/16/02	148	<0.05	1.05	0.56		241		<0.1	
	105	1/16/02	149	<0.05	0.9	0.52		251		<0.1	
	115	1/16/02	152	<0.05	0.59	<.5		261		<0.1	

Table 1-1 Analytical Results of Groundwater, Samples from Drilling, 2002 (Page 2 of 6)

Location	Sample depth, ft.	Date Sampled	Alkalinity as CaCO3 (mg/L)	Ammonia as N (mg/L)	Nitrate+Nitrite as N (mg/L)	TOC (mg/L)	TDS, Calculated (mg/L)	TDS @ 180 (mg/L)	A/C Balance (± 5) %	Al (mg/L)	Anions (meq/L)
SMI BH05	55	1/17/02	160			3.92		272		<0.1	
	75	1/17/02	154	<0.05	1.14	2.97		217		<0.1	
	85	1/17/02	150	<0.05	1.06	0.95		255		<0.1	
	95	1/17/02	148	<0.05	1.09	0.67		273		<0.1	
	105	1/17/02	142	<0.05	0.95	<.5		248		<0.1	
	115	1/17/02	147	<0.05	0.94	0.74		246		<0.1	
	105	1/17/02	144	<0.05	0.91	<.5		249		<0.1	
SWAB40	36	1/12/02	134	0.08	1.03	9.16	206.27	239	0.20	<0.1	3.74
	45	1/12/02	142	<0.05	0.69	1.80	217.77	240	2.21	<0.1	3.88
SWEB15	80	1/8/02	137	0.07	0.55	9.36		270		<0.1	
	95	1/8/02	146	0.08	0.49	2.92		244		<0.1	
	105	1/8/02	149	<0.05	0.44	2.12		238		<0.1	
	115	1/8/02	152	<0.05	0.44	0.83		239		<0.1	
SWEB16	40	1/10/02	103	<0.05	1.66	8.74		224		<0.1	
	60	1/10/02	132	0.06	1.66	7.76		222		<0.1	
	80	1/10/02	137	0.11	1.78	11.60		289		<0.1	
	90	1/10/02	143	0.1	0.89	3.85		233		<0.1	
	100	1/10/02	144	<0.05	1.28	1.90		237		<0.1	
	110	1/10/02	154	<0.05	1.08	1.14		241		<0.1	
	118	1/10/02	151	<0.05	0.94	1.00		262		<0.1	
	40	1/10/02	104	0.08	1.67	9.05		208		<0.1	
	55	1/10/02								<0.1	

Table 1-1 Analytical Results of Groundwater, Samples from Drilling, 2002 (Page 3 of 6)

Location	Sample depth, ft.	Date Sampled	As mg/L	Ba mg/L	Ca mg/L	Cations meq/L	Cl mg/L	Fe mg/L	Mg mg/L	Mn mg/L	Mo mg/L	P mg/L
SMI BH01	55	1/13/02	0.001	<0.1	26.7	2.10	4.80	<0.03	3.4	0.01	<0.1	<0.1
	65	1/13/02	0.002	<0.1	25.4	1.99	4.56	<0.03	3.3	0.01	<0.1	<0.1
	75	1/13/02	0.003	<0.1	21.1	1.62	<1	<0.03	2.8	<0.01	<0.1	<0.1
	85	1/13/02	<0.001	<0.1	23.7	1.74	<1	<0.03	2.9	<0.01	<0.1	<0.1
	95	1/13/02	0.002	<0.1	24.9	1.79	<1	<0.03	3.1	<0.01	<0.1	<0.1
SMI BH02	36	1/13/02	0.001	<0.1	43.7	4.64	6.80	<0.03	8.3	0.04	<0.1	<0.1
	56	1/13/02	0.001	<0.1	46.6	4.19	4.24	<0.03	8.5	0.04	<0.1	<0.1
	65	1/13/02	0.002	<0.1	46.9	4.23	4.99	<0.03	8.5	0.03	<0.1	<0.1
	75	1/13/02	0.004	<0.1	47.9	4.24	8.61	<0.03	8.9	0.03	<0.1	<0.1
	85	1/14/02	<0.001	<0.1	45.1	4.06	5.34	<0.03	8.9	0.04	<0.1	<0.1
	95	1/14/02	0.003	<0.1	46.4	4.37	4.64	<0.03	8.7	0.03	<0.1	<0.1
	105	1/14/02	0.005	<0.1	48.0	4.49	8.17	<0.03	8.9	0.03	<0.1	<0.1
	115	1/14/02	0.004	<0.1	48.3	4.16	5.58	0.08	7.3	<0.01	<0.1	<0.1
	105	1/14/02	0.005	<0.1	48.2	4.50	9.55	<0.03	9.0	0.03	<0.1	1.2
SMI BH03	36	1/15/02	<0.001	<0.1	38.6		19.90	<0.03	4.6	0.04	<0.1	<0.1
	55	1/16/02										
	75	1/16/02	0.001	<0.1	36.5		10.80	<0.03	5.3	0.04	<0.1	<0.1
	85	1/16/02	0.001	<0.1	40.9		8.90	<0.03	6.4	0.01	<0.1	<0.1
	95	1/16/02	0.003	<0.1	43.8		9.70	<0.03	7.2	0.01	<0.1	<0.1
	105	1/16/02	0.002	<0.1	50.2		9.90	<0.03	7.7	<0.01	<0.1	<0.1
	115	1/16/02	0.004	<0.1	49.7		7.66	<0.03	6.7	<0.01	<0.1	<0.1
SMI BH04	55	1/16/02	0.001	<0.1	50.1		12.00	<0.03	8.7	0.03	<0.1	<0.1
	65	1/16/02	0.002	<0.1	45.6		12.40	<0.03	8.1	0.04	<0.1	<0.1
	75	1/16/02	0.003	<0.1	47.2		9.92	<0.03	7.9	0.03	<0.1	<0.1
	85	1/16/02	0.004	<0.1	47.9		8.71	<0.03	6.9	<0.01	<0.1	<0.1
	95	1/16/02	0.004	<0.1	48.1		9.72	<0.03	7.0	<0.01	<0.1	<0.1
	105	1/16/02	0.003	<0.1	48.1		10.30	<0.03	7.0	0.01	<0.1	<0.1
	115	1/16/02	0.001	<0.1	50.7		7.87	<0.03	6.9	<0.01	<0.1	<0.1

Table 1-1 Analytical Results of Groundwater, Samples from Drilling, 2002 (Page 4 of 6)

Location	Sample depth, ft.	Date Sampled	As mg/L	Ba mg/L	Ca mg/L	Cations meq/L	Cl mg/L	Fe mg/L	Mg mg/L	Mn mg/L	Mo mg/L	P mg/L
SMI BH05	55	1/17/02	<0.001	<0.1	49.4		10.60	<0.03	8.8	0.05	<0.1	<0.1
	75	1/17/02	<0.001	<0.1	48.0		9.63	<0.03	8.5	0.04	<0.1	0.1
	85	1/17/02	0.001	<0.1	49.0		11.00	<0.03	8.5	0.04	<0.1	<0.1
	95	1/17/02	0.002	<0.1	47.2		8.25	<0.03	8.3	0.05	<0.1	0.1
	105	1/17/02	0.003	<0.1	45.3		6.74	<0.03	8.0	<0.01	<0.1	<0.1
	115	1/17/02	0.001	<0.1	47.8		9.13	<0.03	8.0	<0.01	<0.1	<0.1
	105	1/17/02	0.003	<0.1	45.4		9.00	<0.03	8.0	<0.01	<0.1	<0.1
SWAB40	36	1/12/02	<0.001	<0.1	42.4	3.76	9.00	<0.03	6.3	0.06	<0.1	<0.1
	45	1/12/02	0.003	<0.1	47.8	4.06	4.48	<0.03	6.7	0.02	<0.1	<0.1
SWEB15	80	1/8/02	<0.001	<0.1	46.8		6.77	<0.03	6.8	0.07	<0.1	<0.1
	95	1/8/02	0.001	<0.1						<0.01	<0.1	
	105	1/8/02	0.003	<0.1	46.4		7.46	<0.03	6.6	<0.01	<0.1	0.1
	115	1/8/02	0.004	<0.1	48.3		5.66	<0.03	6.9	<0.01	<0.1	<0.1
SWEB16	40	1/10/02	<0.001	<0.1	37.7		12.70	<0.03	5.1	0.07	<0.1	0.2
	60	1/10/02	<0.001	<0.1	42.2		9.13	<0.03	5.5	0.06	<0.1	<0.1
	80	1/10/02	<0.001	<0.1	45.8		9.25	<0.03	6.7	0.10	<0.1	<0.1
	90	1/10/02	0.003	<0.1	46.9		7.94	<0.03	6.1	0.01	<0.1	0.2
	100	1/10/02	<0.001	<0.1	47.2		9.93	<0.03	6.4	0.11	<0.1	0.1
	110	1/10/02	0.003	<0.1	47.4		7.62	<0.03	6.1	0.01	<0.1	<0.1
	118	1/10/02	0.004	<0.1	49.7		5.98	<0.03	6.3	<0.01	<0.1	0.2
	40	1/10/02	<0.001	<0.1	37.6		12.50	<0.03	5.1	0.07	<0.1	0.2
	55	1/10/02	<0.001	<0.1	<1		<1	<0.03	<1	<0.01	<0.1	<0.1

Table 1-1 Analytical Results of Groundwater, Samples from Drilling, 2002 (Page 5 of 6)

Location	Sample depth, ft.	Date Sampled	K mg/L	Ra-226 pCi/g	Na mg/L	SO4 mg/L	TDS Balance dec. %	Th-230 pCi/g	U_{nat} mg/L
SMI BH01	55	1/13/02	4.69	<0.2	8.32	8.09	2.42	<0.2	0.008
	65	1/13/02	4.87	<0.2	7.38	7.02	1.74	<0.2	0.005
	75	1/13/02	3.86	<0.2	5.44	5.13	2.18	<0.2	0.003
	85	1/13/02	4.33	<0.2	4.58	8.40	1.79	<0.2	0.002
	95	1/13/02	3.68	<0.2	4.44	9.45	1.55	<0.2	0.003
SMI BH02	36	1/13/02	4.25	<0.2	38.00	50.50	1.18	<0.2	0.090
	56	1/13/02	4.98	<0.2	23.40	39.80	1.65	<0.2	0.049
	65	1/13/02	5.15	<0.2	23.10	39.60	1.20	<0.2	0.054
	75	1/13/02	4.78	<0.2	22.50	38.00	1.17	<0.2	0.065
	85	1/14/02	4.23	<0.2	22.10	38.20	1.15	<0.2	0.036
	95	1/14/02	4.54	<0.2	27.70	39.50	1.22	<0.2	0.067
	105	1/14/02	4.48	<0.2	28.30	41.50	1.36	<0.2	0.083
	115	1/14/02	4.52	<0.2	23.40	37.10	1.24	<0.2	0.058
	105	1/14/02	4.44	<0.2	28.30	44.20	1.14	<0.2	0.080
SMI BH03	36	1/15/02	2.78	<0.2	40.10	42.20	1.13	<0.2	0.056
	55	1/16/02							
	75	1/16/02	3.50	<0.2	30.50	33.90	1.09	<0.2	0.062
	85	1/16/02	4.16	<0.2	25.70	30.90	1.07	<0.2	0.023
	95	1/16/02	4.71	<0.2	21.70	31.40	1.23	<0.2	0.044
	105	1/16/02	4.26	<0.2	20.80	37.80	1.19	<0.2	0.022
	115	1/16/02	4.59	<0.2	19.60	34.80	1.14	<0.2	0.024
SMI BH04	55	1/16/02	4.24	0.3	35.40	53.90		<0.2	0.150
	65	1/16/02	4.35	<0.2	31.00	41.20		<0.2	0.109
	75	1/16/02	4.48	<0.2	22.80	34.50		<0.2	0.051
	85	1/16/02	4.66	<0.2	20.30	33.40		<0.2	0.023
	95	1/16/02	4.70	<0.2	20.00	34.00		<0.2	0.024
	105	1/16/02	4.73	<0.2	20.30	36.00		<0.2	0.022
	115	1/16/02	4.80	0.3	20.10	36.00		<0.2	0.013

Table 1-1 Analytical Results of Groundwater, Samples from Drilling, 2002 (Page 6 of 6)

Location	Sample depth, ft.	Date Sampled	K mg/L	Ra-226 pCi/g	Na mg/L	SO4 mg/L	TDS Balance dec. %	Th-230 pCi/g	U_{nat} mg/L
SMI BH05	55	1/17/02	4.47	<0.2	30.50	51.30		<0.2	0.049
	75	1/17/02	4.45	<0.2	25.10	43.60		<0.2	0.030
	85	1/17/02	4.79	<0.2	24.50	45.50		<0.2	0.033
	95	1/17/02	4.72	<0.2	22.50	36.20		<0.2	0.038
	105	1/17/02	4.60	<0.2	20.60	33.70		<0.2	0.025
	115	1/17/02	4.54	<0.2	21.00	38.00		<0.2	0.018
	105	1/17/02	4.59	<0.2	20.60	33.90		<0.2	0.025
SWAB40	36	1/12/02	3.07	<0.2	23.40	35.40	1.15	<0.2	0.033
	45	1/12/02	3.64	<0.2	23.30	41.90	1.10	<0.2	0.043
SWEB15	80	1/8/02	3.45	<0.2	24.40	49.60		<0.2	0.014
	95	1/8/02		<0.2				<0.2	0.011
	105	1/8/02	3.19	<0.2	22.00	39.60		<0.2	0.015
	115	1/8/02	3.30	<0.2	22.10	42.20		<0.2	0.018
SWEB16	40	1/10/02	1.71	<0.2	19.60	36.80		<0.2	0.013
	60	1/10/02	2.61	<0.2	19.30	33.60		<0.2	0.015
	80	1/10/02	3.19	<0.2	21.60	50.60		<0.2	0.013
	90	1/10/02	2.96	<0.2	21.40	42.90		<0.2	0.032
	100	1/10/02	3.11	<0.2	21.90	39.80		<0.2	0.029
	110	1/10/02	2.88	<0.2	21.00	44.00		<0.2	0.031
	118	1/10/02	2.98	<0.2	21.20	45.50		<0.2	0.033
	40	1/10/02	1.70	<0.2	19.50	36.00		<0.2	0.014
	55	1/10/02	<1	<0.2	<1	<1		<0.2	<0.0003

Table 1-2 Analytical Results from Groundwater, Samples from Wells (Page 1 of 4)

Location	Date Sampled	Depth, ft	Easting	Northing	Ammonia as N mg/L	Nitrate+Nitrite as N mg/L	TOC mg/L	TDS mg/L	HCO3 mg/L	Ca mg/L
Cline	06-Feb-02		19056.27	972.59	<0.5	1.50	0.529	234	165	50.7
Cox-1	12-Feb-02	89.8	17990.6	2012.1	<0.5	1.24			160	35.08
Cox-2	12-Feb-02		18223.6	1273.8	<0.5	1.12		252	190	36.5
Fox-1	06-Feb-02	40	19377.36	959.19	<0.5	0.88	<0.5	226	170	47.5
Johnson	12-Feb-02	65	15351.59	-21.893	<0.5	2.87		208	151	31.9
KK-1	06-Feb-02	57	17048.46	955.22	<0.5	3.16	1.145	293	185	59.5
RM-1	06-Feb-02	60	15808.7	1179.6	<0.5	3.95	2.046	396	257	81.0
Stoilkov Home	06-Feb-02		16184.67	-283.28	<0.5	1.30	0.541	243	173	51.7
SWAB-1	07-Feb-02	28	7401.5	2654.5	<0.5	84.50			289	337
SWAB-10	04-Feb-02	29.9	7556.836	1493.015	<0.5	1.69			200	
SWAB-14	04-Feb-02	18.1	2945.734	3580.138	<0.5	0.23	0.678	356	178	74.9
SWAB-15	05-Feb-02	22.5	9074.378	1413.004	<0.5	0.72			309	
SWAB-17	07-Feb-02	38.5	8206.33	2370.382	<0.5	4.93			172	82
SWAB-2	05-Feb-02	28.3	6684.8	3582.8	96.7	113.00			332	
SWAB-26	04-Feb-02	25	350.6	5571.7	<0.5	1.70	1.145	260	160	46.7
SWAB-28	07-Feb-02	33.5	11009.9	1281.8	<0.5	1.26			200	53.1
SWAB-29	07-Feb-02	18.5	11999.3	1730.3	<0.5	<0.1			221	61.6
SWAB-30	05-Feb-02	23.5	4591.905	3679.661	<0.5	0.77	1.017	287	181	61.2
SWAB-31	06-Feb-02	40	13847.02	1306.919	<0.5	1.13	0.693	234	190	56.2
SWAB-32	06-Feb-02	34	13783.04	-64.251	<0.5	1.15	1.722	324	213	66.0
SWAB-33	06-Feb-02	29	17782.78	2417.2	<0.5	0.36	5.354	501	281	72.4
SWAB-34	06-Feb-02	33	15564.22	2943.62	<0.5	0.85	1.158	255	192	58.8
SWAB-35	04-Feb-02	20	3930.41	4845.79	<0.5	0.58	0.514	302	184	66.5
SWAB-39	06-Mar-02	44.1	14661.99	1225.46	<0.5	1.48			197	55.2
SWAB-4	04-Feb-02	18.8	4674.3	6651.4	10.0	40.20	3.789	1330	258	241.0
SWAB-5	04-Feb-02	20.4	5079.4	5762.4	5.2	14.90	1.652	679	201	113.0
SWAB-6	04-Feb-02	22.92	4911.4	2208.2	<0.5	1.12			193	

Table 1-2 Analytical Results from Groundwater, Samples from Wells (Page 2 of 4)

Location	Date Sampled	Depth, ft	Easting	Northing	Ammonia as N mg/L	Nitrate+Nitrite as N mg/L	TOC mg/L	TDS mg/L	HCO3 mg/L	Ca mg/L
SWAB-7	07-Feb-02	20.3	9963.6	2100.8	<0.5	4.88			197	71.7
SWEB-10	04-Feb-02	231	5102.1	5783.5	<0.5	1.45	<0.5	435	177	92.4
SWEB-12	07-Feb-02	494	9952.2	2078.1	<0.5	0.43			182	51.9
SWEB-13	05-Feb-02	555	4598.663	3705.72	<0.5	<0.1	<0.5	272	39.7	22.7
SWEB-14	11-Feb-02	109.5	11974.4	1743.5	<0.5	<0.1			201	54.4
SWEB-15	06-Mar-02	99.59	14662.06	1251.2	<0.5	0.52			188	52.4
SWEB-16	06-Mar-02	99.75	13840.21	1329.51	<0.5	0.90			178	52.8
SWEB-6	05-Feb-02	396	6706.2	3611.3	0.8	<0.1			100	
SWEB-8	11-Feb-02	195	7417.342	2676.008	<0.5	0.38			178	66.6
SWEB-9	11-Feb-02	416	8167.5	2389.8	<0.5	<0.1			60.2	3.2
Veach-2	06-Feb-02	75	15750	1600	<0.5	3.65	1.381	312	218	63.8
WM-1	06-Feb-02	65	16081	1980.83	<0.5	1.91	1.124	289	215	64.7
WM-2	06-Feb-02	65	16099	1687	<0.5	2.09	0.956	302	217	62.4
SWAB-15 (2)	15-Apr-02	27.5	9074.37	1413.004		1.01		380		
SWAB-37	15-Apr-02		21897.83	4857.53		0.4		249		
SWAB-38	15-Apr-02		27439.16	9957.64		0.39		271		
SWAB-3	24-Apr-02		5743.8	4291	0.1	9.79	2.0662	864		136

Table 1-2 Analytical Results from Groundwater, Samples from Wells (Page 3 of 4)

Location	Date Sampled	Depth, ft	CO3 mg/L	Cl Mg/L	Mg mg/L	Mn mg/L	K Mg/L	Ra-226 Pci/L	Ra-228 pCi/L	Na mg/L	SO4 mg/L	U_{nat} mg/L
Cline	06-Feb-02		<1	2.63	6.50	<0.01	4.04	<0.2	<1	21.7	38.8	0.040
Cox-1	12-Feb-02	89.8	<1	6.6	5.7	<0.01	4.7	<0.2		30.3	32.1	0.031
Cox-2	12-Feb-02		<1	2.45	5.94	<0.01	4.04	<0.2		18.0	39.0	0.053
Fox-1	06-Feb-02	40	<1	4.66	7.05	<0.01	5.10	0.5		20.7	33.0	0.027
Johnson	12-Feb-02	65	<1	6.48	4.62	<0.01	3.23	<0.2		15.3	24.8	<0.0003
KK-1	06-Feb-02	57	<1	10.70	9.07	<0.01	5.16	<0.2		28.6	49.1	0.073
RM-1	06-Feb-02	60	<1	17.20	12.40	<0.01	5.21	<0.2		39.0	62.2	0.314
Stoilkov Home	06-Feb-02		<1	5.85	7.21	<0.01	4.50	<0.2	<1	21.8	37.8	0.027
SWAB-1	07-Feb-02	28	<1	35.3	85.6	<0.01	8.4	<0.2		92.2	773.0	1.240
SWAB-10	04-Feb-02	29.9	<1	10.4		<0.01		<0.2	2		41.5	0.056
SWAB-14	04-Feb-02	18.1	<1	29.60	9.57	<0.01	5.73	<0.2	<1	29.9	83.6	0.045
SWAB-15	05-Feb-02	22.5	<1	26.7		<0.01		<0.2	<1		70.5	0.106
SWAB-17	07-Feb-02	38.5	<1	11.9	13.1	0.0139	6	0.3		37.7	43.4	0.104
SWAB-2	05-Feb-02	28.3	<1	47.2		6.45		3.6	6		1320.0	1.390
SWAB-26	04-Feb-02	25	<1	19.40	5.67	<0.01	6.51	<0.2	<1	27.7	28.2	0.016
SWAB-28	07-Feb-02	33.5	<1	7.6	7.4	<0.01	4.2	0.5		22.5	27.1	0.049
SWAB-29	07-Feb-02	18.5	<1	5.7	12	<0.01	3.5	<0.2		6.4	112.0	0.018
SWAB-30	05-Feb-02	23.5	<1	8.65	8.02	0.0212	5.61	<0.2	<1	24.1	55.4	0.032
SWAB-31	06-Feb-02	40	<1	10.10	6.45	<0.01	3.19	<0.2	<1	23.6	29.5	0.033
SWAB-32	06-Feb-02	34	<1	13.50	8.86	<0.01	5.32	<0.2	<1	34.1	56.9	0.163
SWAB-33	06-Feb-02	29	<1	29.70	12.80	<0.01	6.46	<0.2	<1	81.4	117.0	0.337
SWAB-34	06-Feb-02	33	<1	7.89	8.03	<0.01	3.60	<0.2	<1	24.6	39.7	0.054
SWAB-35	04-Feb-02	20	<1	10.60	8.15	<0.01	6.32	<0.2	<1	21.9	60.5	0.032
SWAB-39	06-Mar-02	44.1	<1	11	9.7	0.0134	3.3	<0.2	<1	24.4	35.4	0.105
SWAB-4	04-Feb-02	18.8	<1	36.30	55.30	<0.01	19.60	2.8	4	58.5	521.0	1.140
SWAB-5	04-Feb-02	20.4	<1	31.50	30.40	0.831	12.80	0.5	1.5	42.5	224.0	0.434
SWAB-6	04-Feb-02	22.92	<1	18		<0.01			<1		66.3	0.045
SWAB-7	07-Feb-02	20.3	<1	4	6.6	<0.01	4.1	0.3		12.3	34.6	0.082

Table 1-2 Analytical Results from Groundwater, Samples from Wells (Page 4 of 4)

Location	Date Sampled	Depth, ft	CO3 mg/L	Cl Mg/L	Mg mg/L	Mn mg/L	K mg/L	Ra-226 pCi/L	Ra-228 pCi/L	Na mg/L	SO4 mg/L	U_{nat} mg/L
SWEB-10	04-Feb-02	231	<1	25.60	13.50	0.143	7.58	<0.2	2.1	25.2	129.0	0.042
SWEB-12	07-Feb-02	494	<1	18.60	8.00	<0.01	7.10	<0.2		32.5	55.2	0.025
SWEB-13	05-Feb-02	555	<1	96.00	5.80	0.0296	7.73	<0.2	<1	64.2	47.2	<0.0003
SWEB-14	11-Feb-02	109.5	<1	6.50	8.20	0.207	5.90	<0.2		24.5	45.7	0.017
SWEB-15	06-Mar-02	99.59	<1	4.80	7.20	<0.01	3.70	<0.2	<1	23.6	42.0	0.022
SWEB-16	06-Mar-02	99.75	<1	6.40	6.60	<0.01	3.50	<0.2	<1	23.8	44.5	0.035
SWEB-6	05-Feb-02	396	1.7	16.20		0.0733		<0.2	<1		<1	0.001
SWEB-8	11-Feb-02	195	<1	34.20	9.70	<0.01	6.70	<0.2		27.0	61.4	0.018
SWEB-9	11-Feb-02	416	4.1	10.50	6.10	<0.01	6.40	0.4		20.7	16.0	<0.0003
Veach-2	06-Feb-02	75	<1	11.60	9.59	<0.01	4.26	<0.2	<1	34.1	43.8	0.170
WM-1	06-Feb-02	65	<1	9.54	9.18	<0.01	4.71	<0.2	<1	28.8	44.2	0.165
WM-2	06-Feb-02	65	<1	9.58	9.01	<0.01	4.62	<0.2		30.7	44.0	0.155
SWAB-15	15-Apr-02			22.6							64.5	.0868
SWAB-37	15-Apr-02			7.29							47.5	0.103
SWAB-38	15-Apr-02			7.39							55.7	0.0415
SWAB-3	24-Apr-02		229	16.4	33.6	0.01	13.5			65.9	339	0.492

Additional Constituents Tested

Location	Date Sampled	Al (mg/L)	As (mg/L)	Ba (mg/L)	Fe (mg/L)	P (mg/L)
SWAB-3	24-Apr-02	<0.1	0.0233	<0.1	0.03	<0.1

Table 1-3 Analytical Results, Aquifer Material Obtained During Drilling in 2002 (Page 1 of 3)

	Depth	Ra-226 pCi/g	Th-230 pCi/g	Uranium mg/kg
SMI BH01	15	0.4	0.32	0.631
	25	0.6	0.46	0.894
	30	0.5	0.3	0.941
	50	0.4	0.25	0.82
	55	0.4	0.22	0.772
SMI BH02	10	2.3	2.2	4.98
	15	2.6	2.6	6.98
	20	0.4	0.28	1.01
	30	0.2	0.12	0.506
	40	0.4	0.26	0.912
	50	0.5	0.3	0.894
	60	0.4	0.33	0.868
	70	0.3	0.21	0.704
	80	0.4	0.32	0.728
	85	0.38	0.27	0.714
	90	0.2	0.25	0.847
	95	0.2	0.13	0.361
	105	0.2	<0.1	0.434
	115	<0.1	<0.1	0.293
SMI BH03	5	0.92	0.67	1.18
	10	-	-	2.46
	15	0.89	0.84	1.54
	20	-	-	1.28
	25	0.47	0.25	1.02
	35	0.45	0.24	1.1
	40	0.47	0.26	1.17
	50	0.52	0.35	1.36
	55	0.55	0.36	1.42
	65	0.45	0.42	1.64
	75	0.53	0.32	1.49
	85	0.31	0.21	0.524
	95	0.16	0.11	0.327
	105	0.13	<0.1	0.326
	115	0.17	<0.1	0.293
SMI BH04	5	1.1	1.1	1.45
	10	-	-	0.78
	15	0.5	0.42	1.8
	25	0.6	0.43	1.93
	35	0.4	0.19	1.34
	45	0.4	0.37	1.39
	55	0.6	0.22	1.31
	60	-	-	1.93

Table 1-3 Analytical Results, Aquifer Material Obtained During Drilling in 2002 (Page 2 of 3)

	Depth	Ra-226 pCi/g	Th-230 pCi/g	Uranium mg/kg
SMI BH04	65	0.6	0.47	1.93
	70	-	-	0.92
	75	0.3	0.27	0.932
	85	0.3	0.35	0.73
	95	0.4	0.34	1.23
	105	0.2	0.12	0.306
	115	<0.1	0.16	0.363
SMI BH05	5	0.6	0.48	0.612
	10	0.6	0.48	0.67
	15	0.6	0.47	0.836
	20	0.4	0.36	1.67
	25	0.3	0.2	1.09
	35	0.3	0.43	1.13
	45	0.5	0.33	1.25
	55	0.4	0.34	1.05
	60	0.5	0.3	0.933
	65	0.4	0.27	0.919
	75	0.5	0.31	0.94
	85	0.3	0.31	0.972
	95	0.2	0.17	0.693
	105	0.2	0.16	0.602
	115	0.2	0.11	0.288
SWAB-40	5	0.4	0.26	0.463
	15	0.5	0.32	0.55
	25	0.5	0.42	1.59
	35	0.4	0.24	1.08
	45	0.3	0.16	0.658
SWEB-15	5	0.8	0.57	0.914
	15	0.7	0.46	1.42
	20	-	-	3.93
	25	2	0.74	3.58
	30	-	-	2.26
	35	0.7	<0.1	1.36
	45	0.46	0.33	1.1
	55	0.3	0.22	0.683
	65	0.2	0.12	0.447
	75	0.3	<0.1	0.349
	85	0.4	0.18	0.592
	90	0.5	0.33	0.81
	95	0.3	0.21	0.339
	105	0.2	0.13	0.32

Table 1-3 Analytical Results, Aquifer Material Obtained During Drilling in 2002 (Page 3 of 3)

	Depth	Ra-226 pCi/g	Th-230 pCi/g	Uranium mg/kg
SWEB-16	5	1.1	0.71	1.22
	15	0.5	0.28	0.66
	25	0.7	0.41	1.21
	35	0.6	0.44	1.1
	40	0.5	0.27	0.87
	45	0.4	0.25	0.64
	55	0.4	0.18	0.48
	60	0.4	0.18	0.56
	75	0.2	<0.1	0.54
	80	0.4	0.34	0.93
	85	0.3	0.27	0.85
	100	0.3	0.11	0.4
	110	<0.1	<0.1	0.3
	118	0.2	0.13	0.36

Table 4-2 Solid Phase Radiochemistry from Southwest Valley to Red Mule Area Combining Data from SDCP-2002 and SMI-1999 (Page 1 of 4)

Location	Depth (ft)	Ra-226 (pCi/g)	Th-230 (pCi/g)	U(nat) (mg/kg)	U(nat) (pCi/g)
SMI BH01	50	0.400	0.250	0.820	0.567
	55	0.400	0.220	0.772	0.534
	30	0.500	0.300	0.941	0.651
	15	0.400	0.320	0.631	0.437
	25	0.600	0.460	0.894	0.619
SMI BH02	90	0.200	0.250	0.847	0.586
	30	0.200	0.120	0.506	0.350
	20	0.400	0.280	1.010	0.699
	115	0.100	0.100	0.293	0.203
	105	0.200	0.100	0.434	0.300
	40	0.400	0.260	0.912	0.631
	70	0.300	0.210	0.704	0.487
	15	2.600	2.600	6.980	4.830
	60	0.400	0.330	0.868	0.601
	50	0.500	0.300	0.894	0.619
	10	2.300	2.200	4.980	3.446
	85	0.380	0.270	0.714	0.494
	95	0.200	0.130	0.361	0.250
	80	0.400	0.320	0.728	0.504
SMI BH03	75	0.500	0.300	1.500	1.038
	65	0.500	0.400	1.600	1.107
	40	0.500	0.200	1.100	0.761
	50	0.500	0.400	1.400	0.969
	105	0.100	0.100	0.300	0.208
	5	0.500	0.300	1.200	0.830
	55	0.600	0.400	1.400	0.969
	35	0.500	0.300	1.000	0.692
	85	0.300	0.200	0.500	0.346
	95	0.200	0.100	0.300	0.208
	115	0.200	0.100	0.300	0.208
	25	0.900	0.800	1.500	1.038
	15	0.900	0.700	1.200	0.830
SMI BH04	35	0.400	0.190	1.340	0.927
	15	0.500	0.420	1.800	1.246
	25	0.600	0.430	1.930	1.336
	45	0.400	0.370	1.390	0.962
	65	0.600	0.470	1.930	1.336
	95	0.400	0.340	1.230	0.851
	75	0.300	0.270	0.932	0.645
	55	0.600	0.220	1.310	0.907
	115	0.100	0.160	0.363	0.251
	85	0.300	0.350	0.730	0.505

Table 4-2 Solid Phase Radiochemistry from Southwest Valley to Red Mule Area Combining Data from SDCP-2002 and SMI-1999 (Page 2 of 4)

Location	Depth (ft)	Ra-226 (pCi/g)	Th-230 (pCi/g)	U(nat) (mg/kg)	U(nat) (pCi/g)
SMI BH04	105	0.200	0.120	0.306	0.212
	5	1.100	1.100	1.450	1.003
SMI BH05	20	0.400	0.360	1.670	1.156
	25	0.300	0.200	1.090	0.754
	95	0.200	0.170	0.693	0.480
	105	0.200	0.160	0.602	0.417
	85	0.300	0.310	0.972	0.673
	35	0.300	0.430	1.130	0.782
	45	0.500	0.330	1.250	0.865
	55	0.400	0.340	1.050	0.727
	65	0.400	0.270	0.919	0.636
	60	0.500	0.300	0.933	0.646
	75	0.500	0.310	0.940	0.650
	115	0.200	0.110	0.288	0.199
	15	0.600	0.470	0.836	0.579
	10	0.600	0.480	0.670	0.464
	5	0.600	0.480	0.612	0.424
SWAB-33	3	1.400	0.700	1.412	0.977
	8	6.000	4.800	6.843	4.735
	28	0.270	1.400	0.466	0.322
	18	0.500	2.700	0.582	0.403
	13	0.300	ns	0.757	0.524
SWAB-34	3	6.000	3.800	12.725	8.806
	18	0.700	0.300	1.150	0.796
	8	7.600	6.800	11.269	7.798
	33	0.280	2.200	1.136	0.786
SWAB-40	25	0.500	0.420	1.590	1.100
	35	0.400	0.240	1.080	0.747
	45	0.300	0.160	0.658	0.455
	5	0.400	0.260	0.463	0.320
	15	0.500	0.320	0.550	0.381
SWEB-15	35	0.700	0.100	1.360	0.941
	65	0.200	0.120	0.447	0.309
	45	0.460	0.330	1.100	0.761
	55	0.300	0.220	0.683	0.473
	25	2.000	0.740	3.580	2.477
	15	0.700	0.460	1.420	0.983
	85	0.400	0.180	0.592	0.410
	90	0.500	0.330	0.810	0.561
	105	0.200	0.130	0.320	0.221
	75	0.300	0.100	0.349	0.242
	5	0.800	0.570	0.914	0.632

Table 4-2 Solid Phase Radiochemistry from Southwest Valley to Red Mule Area Combining Data from SDCP-2002 and SMI-1999 (Page 3 of 4)

Location	Depth (ft)	Ra-226 (pCi/g)	Th-230 (pCi/g)	U(nat) (mg/kg)	U(nat) (pCi/g)
SWEB-15	95	0.300	0.210	0.339	0.235
SWEB-16	75	0.200	0.100	0.540	0.374
	110	0.100	0.100	0.300	0.208
	85	0.300	0.270	0.850	0.588
	80	0.400	0.340	0.930	0.644
	40	0.500	0.270	0.870	0.602
	118	0.200	0.130	0.360	0.249
	25	0.700	0.410	1.210	0.837
	35	0.600	0.440	1.100	0.761
	45	0.400	0.250	0.640	0.443
	100	0.300	0.110	0.400	0.277
	60	0.400	0.180	0.560	0.388
	15	0.500	0.280	0.660	0.457
	55	0.400	0.180	0.480	0.332
	5	1.100	0.710	1.220	0.844
SWEB-1	75	0.200	0.139	1.616	1.118
SWEB-2	75	0.300	0.215	1.907	1.320
	295	0.976	0.272	3.660	2.533
SWEB-3	75	0.300	0.205	5.227	3.617
SWEB-4	95	0.384	0.012	1.762	1.219
	135	0.884	0.008	1.820	1.259
SWEB-5	165	0.552	0.012	1.916	1.326
	85	0.492	0.008	1.262	0.874
	215	0.732	0.076	1.602	1.108
SWEB-6	345	0.576	0.008	1.069	0.740
	165	0.292	0.008	0.478	0.330
WN-34	115	0.208	0.028	15.142	10.479
	95	0.356	0.020	5.955	4.121
	250	1.050	0.008	1.864	1.290
TEB-1	70	9.300	153.000	40.331	27.909
	75	6.200	29.500	7.600	5.259
	67.3	23.900	735.000	24.315	16.826
TEB-2	80.5	1.500	3.300	8.547	5.914
	73.5	1.700	1.300	3.058	2.116
	63.5	2.600	48.900	38.031	26.317
	73	2.100	5.700	4.747	3.285
	58	2.500	49.500	22.437	15.526
	50.5	36.100	28.700	10.323	7.144
TEB-3	53.5	1.800	0.600	10.236	7.083
	43	2.100	3.400	4.281	2.962
	38.5	3.600	10.100	3.436	2.378
	33.5	2.300	27.600	1.718	1.189

Table 4-2 Solid Phase Radiochemistry from Southwest Valley to Red Mule Area Combining Data from SDCP-2002 and SMI-1999 (Page 4 of 4)

Location	Depth (ft)	Ra-226 (pCi/g)	Th-230 (pCi/g)	U(nat) (mg/kg)	U(nat) (pCi/g)
TEB-3	28	7.600	77.600	4.412	3.053
	23.5	84.000	116.000	2.956	2.045
WN-33D	64.2	10.000	257.000	13.104	9.068

THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

FIGURE 2-1

"SITE INVESTIGATION LOCATIONS 2002 SPLIT ROCK SITE JEFFREY CITY, WYOMING"

WITHIN THIS PACKAGE.. OR BY SEARCHING USING THE DOCUMENT REPORT/NUMBER

FIGURE 2-1

D-01