



Smith Ranch - Highland
Uranium Project
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September 21, 2006

Paul Michalak
U.S. Nuclear Regulatory Commission
Uranium Processing Section
Fuel Cycle Facilities Branch
Division of Fuel Cycle Safety and Safeguards
Two White Flint North
11545 Rockville Pike
Rockville, MD 20852-2738

RE: Response to Request for Additional Information for Southwest Area Pump Test.
Source Materials License SUA-1548, Docket No: 40-8964

Dear Mr. Michalak:

In response to your letter dated August 24, 2006 requesting additional information regarding Smith Ranch – Highland Uranium Project's (SR-HUP) Southwest Area Hydrologic Test Plan dated July 31, 2006.

Please find the questions and responses detailed below.

1. *Based on Figures 1 and 2, it appears that portions of the projected Mine Unit SW excursion monitoring ring will be located outside the SR HUP permit boundary (per Source Materials License SUA-1548). Mine Unit operations, including injection, recovery, and monitor wells, must be conducted within the approved permit boundary. Please provide an explanation for this apparent deviation from permitted activities.*

The monitor well outline presented in Figures 1 and 2 represent a generalized outline. At present, additional development drilling and analysis will be required to formalize the mine units in these two areas. If indeed they could be developed into a viable mining unit, Permit to Mine # 633 will be amended to incorporate these parcels of land.

2. *As stated in Section 1.0, paragraph 3, please provide the locations of Satellite SR-2, and associated trunk line to the Central Processing Plant on Figures 1 and 2.*



The Satellite (SR-2) is an Ion Exchange (IX) plant and does not contain an elution circuit or dryer. SR-2 will transfer pregnant resin by tanker truck to the Smith Ranch processing plant where the uranium is removed from the resin. Barren resin is then returned to SR-2 by tanker truck and the resin is placed back into service. There will not be a trunk line between SR-2 and the main Smith Ranch Central Processing Plant. The location of Satellite SR-2 is shown on the enclosed and revised Figure 2.

3. *Please provide more detailed information for the boring logs used in the cross sections depicted on Figures 3, 4, 4A, 5, and 6, and for the formation thickness listed in Figures 7 through 11. This information, which can be provided in a tabular format, can include boring designation; permit number; easting and northing; elevation; total depth; year installed; section, township and range; and other pertinent boring/subsurface features related to the proposed activities.*

Drill hole geophysical log data utilized in both the cross-sections and isopach maps are detailed in Appendix A. Appendix A is enclosed.

4. *Please provide a plan view map that shows the locations of the boring logs used to develop Cross Sections A, B, 1, and 2.*

The locations of all drill holes used in construction of cross-sections are depicted on Figure 2.

5. *Please provide either a key, legend, or footnote that indicates the type of geophysical logs depicted on figures 3, 4, 4a, 5, and 6.*

A portion of a geophysical log showing and labeling the different curves utilized for cross-sections interpretation is depicted on Figure 2a.

6. *Please provide the basis (e.g., hydraulic analysis) to support the statement, "preliminary estimates suggest a test of this rate and duration should result in a radius of influence on the order of 4,000 feet allowing the entire Southwest Area to be covered by two pumping wells."*

Because no pumping tests have been conducted in the K Sand at SR-HUP, data from the M Sand were utilized to assess potential drawdown versus time for the Southwest Area. The M Sand presents the best analogy to the K Sand with regard to similarity of formation characteristics and stratigraphic proximity.

7. *Please provide a plan view map that shows the locations of wells KM-8-137CM, KM-8-138-8, KM17-421, and KM17-422 with respect to the proposed pump test.*

The well locations in question can be found on Figure 2.

Thank you for your review and comments on our proposed pump test.

Regards,



John McCarthy
Manager, Safety, Health and Environment

Cc: S. Collings

C. Foldenauer

File SR 4.6.4.1

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APPENDICES

Appendix

A	Isopach and Log Cross Section Information
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APPENDIX A

Isopach and Cross Section Log Information

Hole #	Sec.	Town.	Range	Date Drilled	Wyo State Plane Mod.			Total Depth	M Sand Top	L Shale Top	K Sand Top	J Shale Top	I Sand Top	I Sand Bottom	- = Insufficient Log Depth				
					NORTH	EAST	Elev.								M Sand Thickness	L Shale Thickness	K Sand Thickness	J Shale Thickness	I Sand Thickness
7-211	7	35N	74W	03/03/77	855075	336925	5620.1	1003	745	766	808	937	-	-	21	42	129	-	-
7-25	7	35N	74W	12/13/73	857003	333196	5692.8	1200	762	790	810	942	984	999	28	20	132	42	15
7-26	7	35N	74W	12/13/73	856998	333901	5656.8	1203	759	775	790	920	961	977	16	15	130	41	16
7-35	7	35N	74W	01/03/74	855505	333498	5678.1	1205	735	757	788	920	939	975	22	31	132	19	36
7-36	7	35N	74W	01/03/74	855503	335105	5651.9	1208	747	778	805	925	964	988	31	27	120	39	24
7-37	7	35N	74W	01/02/74	855507	335901	5615.8	1205	720	760	803	899	983	-	40	43	96	84	-
7-42	7	35N	74W	03/08/74	855442	336401	5618.9	1041	720	765	804	912	994	-	45	39	108	82	-
7-43	7	35N	74W	03/07/74	855262	338254	5620.1	993	749	788	820	942	-	-	39	32	122	-	-
7-54	7	35N	74W	04/25/74	855394	337498	5588.3	924	708	734	767	900	-	-	26	33	133	-	-
8-11	8	35N	74W	12/06/73	856999	339498	5539.4	1201	713	728	782	885	1019	1041	15	54	103	134	22
8-12	8	35N	74W	12/07/73	856994	340238	5519.3	1202	709	725	772	888	1009	1035	16	47	116	121	26
8-107	8	35N	74W	07/11/77	855553	339087	5604.6	963	749	811	839	928	-	-	62	28	89	-	-
8-125	8	35N	74W	08/22/77	855071	339097	5595.3	925	736	780	827	925	-	-	44	47	98	-	-
8-187	8	35N	74W	07/02/99	855302	339651	5602.4	978	755	805	828	942	-	-	50	23	114	-	-
8-21	8	35N	74W	12/28/73	855488	341299	5550.8	1205	695	780	789	933	1034	1065	85	9	144	101	31
8-22	8	35N	74W	12/28/73	855497	342499	5516.8	1217	690	760	801	903	994	1011	70	41	102	91	17
8-89	8	35N	74W	05/12/77	855296	340104	5613.0	959	776	821	840	-	-	-	45	19	-	-	-
8-95	8	35N	74W	05/13/77	855902	340827	5539.2	940	742	763	776	907	-	-	21	13	131	-	-
16-1	16	35N	74W	11/08/69	854809	348674	5527.6	993	885	918	965	-	-	-	33	47	-	-	-
16-10	16	35N	74W	03/04/74	853999	346902	5534.6	1204	905	938	980	1103	1152	1171	33	42	123	49	19
16-11	16	35N	74W	03/04/74	853999	348497	5496.8	1201	840	882	899	1034	1097	-	42	17	135	63	-
16-112	16	35N	74W	10/01/74	850418	348841	5552.8	891	732	751	788	891	-	-	19	37	103	-	-
16-12	16	35N	74W	03/05/74	852495	346798	5606.5	1199	791	851	880	1000	-	-	60	29	120	-	-
16-124	16	35N	74W	10/15/74	850321	348436	5540.1	922	705	729	765	910	-	-	24	36	145	-	-
16-130	16	35N	74W	09/04/75	854997	347562	5573.8	886	771	814	838	-	-	-	43	24	-	-	-
16-135	16	35N	74W	09/08/75	852907	348402	5521.4	1124	768	800	873	975	-	-	32	73	102	-	-
16-137	16	35N	74W	09/08/75	852103	348503	5621.5	960	733	820	869	-	-	-	87	49	-	-	-
16-147	16	35N	74W	09/12/75	853562	347867	5526.7	951	775	830	863	-	-	-	55	33	-	-	-
16-193	16	35N	74W	09/30/75	852197	344935	5671.9	1124	822	881	938	1057	-	-	59	57	119	-	-
16-194	16	35N	74W	09/30/75	851690	345580	5641.9	1039	801	866	900	1036	-	-	65	34	136	-	-
16-241	16	35N	74W	09/23/76	851156	346070	5617.6	1066	781	840	894	1014	1035	1060	59	54	120	21	25
16-26	16	35N	74W	02/14/74	850605	343792	5535.5	1205	668	723	754	879	900	956	55	31	125	21	56
16-261	16	35N	74W	10/27/76	850003	345427	5526.8	1002	703	731	775	873	920	946	28	44	98	47	26
16-29	16	35N	74W	02/19/74	850597	346997	5555.0	1205	714	731	790	938	-	-	17	59	148	-	-
16-310	16	35N	74W	11/10/76	849902	346351	5507.2	1000	675	711	771	871	910	941	36	60	100	39	31

Hole #	Sec.	Town.	Range	Date	Wyo State Plane Mod.			Total	M Sand	L Shale	K Sand	J Shale	I Sand	I Sand	M Sand	L Shale	K Sand	J Shale	I Sand
				Drilled	NORTH	EAST	Elev.		Depth	Top	Top	Top	Top	Top	Bottom	Thickness	Thickness	Thickness	Thickness
16-314	16	35N	74W	11/10/76	851259	344662	5578.7	1040	725	786	816	943	971	994	61	30	127	28	23
16-315	16	35N	74W	11/11/76	852410	344292	5667.7	1080	811	867	915	1020	1058	-	56	48	105	38	-
16-331	16	35N	74W	01/05/77	851180	345262	5589.2	1381	738	787	834	965	976	999	49	47	131	11	23
16-333	16	35N	74W	01/06/77	852166	345549	5684.3	1408	827	901	934	1061	1078	1115	74	33	127	17	37
16-349	16	35N	74W	09/30/98	852947	344242	5639.9	1021	806	881	906	1004	-	-	75	25	98	-	-
16-35	16	35N	74W	03/25/74	852672	343676	5623.6	1063	785	844	893	950	1012	1033	59	49	57	62	21
16-42	16	35N	74W	03/29/74	850600	345606	5560.6	1003	708	770	818	937	956	998	62	48	119	19	42
16-5	16	35N	74W	11/03/69	852973	345547	5614.1	1060	779	843	887	1014	1035	-	64	44	127	21	-
16-53	16	35N	74W	04/08/74	851715	345083	5629.9	1037	782	865	891	990	1021	-	83	26	99	31	-
16-54	16	35N	74W	04/08/74	851721	346023	5683.9	1083	840	907	922	1076	-	-	67	15	154	-	-
16-57	16	35N	74W	04/10/74	850605	346308	5559.3	1003	712	740	806	929	961	996	28	66	123	32	35
16-8	16	35N	74W	09/29/72	852685	344756	5691.6	1103	844	931	952	1061	-	-	87	21	109	-	-
16-9	16	35N	74W	03/01/74	853998	345302	5624.7	1202	811	871	892	998	1063	1119	60	21	106	65	56
16-90	16	35N	74W	09/16/74	850621	345005	5548.3	1007	708	745	785	916	944	982	37	40	131	28	38
16-95	16	35N	74W	09/18/74	851726	344386	5603.4	921	753	809	851	953	-	-	56	42	102	-	-
17-1	17	35N	74W	08/08/68	854725	340975	5591.3	1096	737	815	823	884	1025	1083	78	8	61	141	58
17-134	17	35N	74W	09/13/72	853778	338346	5682.5	1003	913	834	884	994	-	-	-79	50	110	-	-
17-137	17	35N	74W	09/14/72	852432	340705	5703.6	1000	862	890	939	-	-	-	28	49	-	-	-
17-14	17	35N	74W	01/21/69	851963	341565	5655.7	980	800	847	874	977	-	-	47	27	103	-	-
17-148	17	35N	74W	09/26/72	852512	340059	5706.9	1000	845	888	930	-	-	-	43	42	-	-	-
17-151	17	35N	74W	09/26/72	854226	338927	5635.4	1002	776	812	850	946	992	-	36	38	96	46	-
17-165	17	35N	74W	10/08/72	851346	339773	5639.2	1000	759	794	843	926	971	-	35	49	83	45	-
17-167	17	35N	74W	10/04/72	851014	340404	5614.6	1000	757	773	807	906	959	-	16	34	99	53	-
17-170	17	35N	74W	10/10/72	851038	341619	5592.7	1000	733	774	805	909	-	-	41	31	104	-	-
17-173	17	35N	74W	10/08/72	854082	339128	5618.5	1000	774	796	842	896	-	-	22	46	54	-	-
17-2	17	35N	74W	08/08/68	854720	343375	5594.3	1097	780	842	885	981	1075	-	62	43	96	94	-
17-211	17	35N	74W	07/02/74	852987	339469	5675.5	984	815	847	892	-	-	-	32	45	-	-	-
17-23	17	35N	74W	01/30/69	850284	340655	5570.7	926	685	731	767	865	-	-	46	36	98	-	-
17-24	17	35N	74W	01/31/69	850279	341838	5556.5	917	693	729	752	861	886	-	36	23	109	25	-
17-292	17	35N	74W	11/15/76	852971	342939	5673.4	1017	857	898	930	989	-	-	41	32	59	-	-
17-296	17	35N	74W	11/16/76	853164	343688	5605.3	998	764	833	881	966	-	-	69	48	85	-	-
17-3	17	35N	74W	08/09/68	851766	339166	5690.0	1083	803	839	885	978	-	-	36	46	93	-	-
17-319	17	35N	74W	12/01/76	853765	343162	5637.7	1044	803	873	916	976	-	-	70	43	60	-	-
17-35	17	35N	74W	10/06/69	853324	342205	5604.7	965	779	818	856	925	-	-	39	38	69	-	-
17-357	17	35N	74W	12/10/76	852735	341539	5658.9	1029	804	859	890	946	-	-	55	31	56	-	-
17-372	17	35N	74W	02/15/77	853730	339168	5660.4	1004	805	857	893	986	-	-	52	36	93	-	-
17-39	17	35N	74W	10/09/69	851732	340967	5647.2	965	804	830	855	965	-	-	26	25	110	-	-
17-41	17	35N	74W	10/08/69	851718	342751	5623.3	1003	757	827	834	955	-	-	70	7	121	-	-
17-42	17	35N	74W	10/10/69	851724	342158	5644.2	984	756	825	833	953	-	-	69	8	120	-	-
17-420	17	35N	74W	07/19/84	851525	338554	5647.7	1000	753	777	802	918	954	969	24	25	116	36	15

Hole #	Sec.	Town.	Range	Date	Wyo State Plane Mod.			Total	M Sand	L Shale	K Sand	J Shale	I Sand	I Sand	M Sand	L Shale	K Sand	J Shale	I Sand
					Drilled	NORTH	EAST												
17-424	17	35N	74W	06/27/86	853184	338735	5698.0	1060	827	851	895	985	1038	-	24	44	90	53	-
17-429	17	35N	74W	08/11/88	850979	339177	5612.7	1000	725	756	779	900	-	-	31	23	121	-	-
17-43	17	35N	74W	10/17/69	850332	343342	5532.6	964	652	708	720	860	885	936	56	12	140	25	51
17-431	17	35N	74W	06/28/90	850441	338452	5639.6	922	726	764	801	899	-	-	38	37	98	-	-
17-435	17	35N	74W	07/09/90	849851	339325	5667.7	950	759	796	825	935	-	-	37	29	110	-	-
17-439	17	35N	74W	06/20/91	849824	338666	5708.3	984	791	815	847	963	-	-	24	32	116	-	-
17-445	17	35N	74W	07/22/93	850120	340265	5634.0	959	702	729	758	865	940	-	27	29	107	75	-
17-45	17	35N	74W	10/20/69	853571	340209	5616.5	1003	777	816	853	924	-	-	39	37	71	-	-
17-451	17	35N	74W	09/11/98	854971	340573	5561.7	900	723	786	804	869	-	-	63	18	65	-	-
17-47	17	35N	74W	10/21/69	853657	341415	5595.9	1005	779	811	855	911	-	-	32	44	56	-	-
17-48	17	35N	74W	10/21/69	852951	341586	5640.7	1003	809	851	890	939	-	-	42	39	49	-	-
17-5	17	35N	74W	11/08/68	851743	343351	5624.4	1099	761	825	858	961	1008	1056	64	33	103	47	48
17-59	17	35N	74W	10/20/69	853447	340943	5624.9	1003	791	828	861	940	-	-	37	33	79	-	-
17-77	17	35N	74W	06/28/71	852991	340481	5668.5	960	821	863	904	-	-	-	42	41	-	-	-
17-81	17	35N	74W	06/28/71	852433	338941	5731.4	1005	862	889	927	-	-	-	27	38	-	-	-
18-103	18	35N	74W	09/29/72	851157	337282	5656.4	1000	721	752	803	889	952	-	31	51	86	63	-
18-109	18	35N	74W	10/12/72	851631	337205	5691.9	1001	763	788	831	940	-	-	25	43	109	-	-
18-117	18	35N	74W	10/20/72	851681	336246	5727.5	1004	777	821	876	965	-	-	44	55	89	-	-
18-119	18	35N	74W	01/04/74	854705	333901	5679.7	1207	749	774	802	911	943	979	25	28	109	32	36
18-120	18	35N	74W	01/04/74	854705	334698	5698.5	1208	785	812	854	1028	1048	-	27	42	174	20	-
18-123	18	35N	74W	02/06/74	852266	333246	5823.0	1205	844	880	903	1013	1070	1150	36	23	110	57	80
18-124	18	35N	74W	02/05/74	852288	334792	5813.6	1206	866	897	940	1048	1118	1130	31	43	108	70	12
18-126	18	35N	74W	02/04/74	851565	334502	5799.4	1192	836	865	916	1042	1080	1139	29	51	126	38	59
18-132	18	35N	74W	01/24/74	849905	334897	5753.5	1206	771	807	826	949	1004	1035	36	19	123	55	31
18-134	18	35N	74W	03/07/74	854702	336205	5651.9	1003	764	788	830	986	-	-	24	42	156	-	-
18-135	18	35N	74W	03/07/74	855157	337407	5576.9	999	694	723	767	885	943	962	29	44	118	58	19
18-137	18	35N	74W	03/12/74	851812	333220	5802.3	1101	820	839	867	981	1047	1085	19	28	114	66	38
18-142	18	35N	74W	03/12/74	854830	338253	5631.7	1003	739	776	823	990	-	-	37	47	167	-	-
18-145	18	35N	74W	03/14/74	853387	333184	5761.7	1062	800	827	871	972	-	-	27	44	101	-	-
18-152	18	35N	74W	03/18/74	854128	333847	5685.7	997	745	770	805	906	-	-	25	35	101	-	-
18-153	18	35N	74W	04/15/74	851401	333765	5860.6	1054	880	906	937	1048	-	-	26	31	111	-	-
18-167	18	35N	74W	04/24/74	854521	335502	5671.4	1004	756	795	830	1002	-	-	39	35	172	-	-
18-172	18	35N	74W	05/07/74	854360	334237	5697.7	1024	766	790	829	934	-	-	24	39	105	-	-
18-231	18	35N	74W	07/17/74	852307	335901	5712.5	1025	760	807	846	965	-	-	47	39	119	-	-
18-277	18	35N	74W	10/13/75	850872	333814	5764.9	1042	771	806	833	964	1012	1026	35	27	131	48	14
18-280	18	35N	74W	10/15/75	853901	335392	5690.5	1042	773	804	839	958	999	1014	31	35	119	41	15
18-287	18	35N	74W	10/17/75	853924	333223	5750.7	1061	800	824	859	964	-	-	24	35	105	-	-
18-292	18	35N	74W	10/29/75	853406	333811	5748.2	1041	805	831	869	970	-	-	26	38	101	-	-
18-317	18	35N	74W	12/13/76	852238	337195	5712.8	1023	751	776	801	970	-	-	25	25	169	-	-

Hole #	Sec.	Town.	Range	Date	Wyo State Plane Mod.			Total	M Sand	L Shale	K Sand	J Shale	I Sand	I Sand	M Sand	L Shale	K Sand	J Shale	I Sand
					Drilled	NORTH	EAST												
18-321	18	35N	74W	12/14/76	851252	335903	5720.1	1003	761	794	827	950	-	-	33	33	123	-	-
18-328	18	35N	74W	12/16/76	851620	335485	5766.5	1002	818	852	896	999	-	-	34	44	103	-	-
18-333	18	35N	74W	12/20/76	852645	337024	5678.5	933	758	786	823	933	-	-	28	37	110	-	-
18-385	18	35N	74W	04/01/77	851484	337845	5684.5	1003	760	802	830	937	-	-	42	28	107	-	-
18-413	18	35N	74W	05/05/77	853180	337768	5681.4	1001	774	819	866	968	-	-	45	47	102	-	-
18-414	18	35N	74W	05/05/77	850400	333914	5763.4	962	786	801	817	937	-	-	15	16	120	-	-
18-521	18	35N	74W	12/24/82	850370	334698	5733.5	940	749	778	803	927	-	-	29	25	124	-	-
18-529	18	35N	74W	07/11/86	852270	336655	5704.4	958	763	816	863	953	-	-	53	47	90	-	-
18-531	18	35N	74W	07/09/86	850890	335292	5707.9	1000	799	818	837	996	-	-	19	19	159	-	-
18-537	18	35N	74W	08/03/86	849884	335824	5710.5	1000	742	775	794	917	944	958	33	19	123	27	14
18-550	18	35N	74W	07/25/89	850480	337281	5651.5	998	768	789	806	885	956	969	21	17	79	71	13
18-577	18	35N	74W	08/05/93	853028	333637	5680.4	1001	799	843	884	980	-	-	44	41	96	-	-
18-60	18	35N	74W	07/02/71	852998	336482	5661.1	1002	737	776	812	965	999	-	39	36	153	34	-
18-64	18	35N	74W	07/09/71	853829	336465	5641.0	965	735	776	806	921	-	-	41	30	115	-	-
18-707	18	35N	74W	06/03/99	851013	334663	5749.9	998	767	808	829	952	984	-	41	21	123	32	-
18-79	18	35N	74W	09/05/72	852622	337916	5724.0	1000	822	853	896	1000	-	-	31	43	104	-	-
18-85	18	35N	74W	09/12/72	852007	337853	5730.5	1000	830	858	899	1004	-	-	28	41	105	-	-
19-11	19	35N	74W	02/07/68	848264	336472	5793.0	1080	808	844	863	996	1042	-	36	19	133	46	-
19-12	19	35N	74W	01/23/74	849140	333837	5722.2	1203	717	746	769	890	950	979	29	23	121	60	29
19-13	19	35N	74W	01/22/74	849104	334765	5744.2	1205	756	777	798	916	980	1011	21	21	118	64	31
19-14	19	35N	74W	01/21/74	849099	336366	5716.2	1205	753	776	791	924	975	1017	23	15	133	51	42
19-15	19	35N	74W	01/29/74	849091	337973	5731.5	1213	800	835	860	978	1051	1065	35	25	118	73	14
19-17	19	35N	74W	02/01/74	848301	334700	5788.8	1205	778	803	826	947	1008	-	25	23	121	61	-
19-19	19	35N	74W	01/28/74	848300	338299	5680.1	1203	751	783	815	924	988	1006	32	32	109	64	18
19-20	19	35N	74W	02/08/74	847101	333700	5765.7	1219	727	755	784	875	990	-	28	29	91	115	-
19-21	19	35N	74W	02/02/74	847099	335301	5838.9	1216	824	853	893	991	1058	-	29	40	98	67	-
19-22	19	35N	74W	02/12/74	847101	336901	5707.3	1206	734	761	782	897	945	987	27	21	115	48	42
19-25	19	35N	74W	01/20/76	847074	337755	5671.3	1098	710	744	756	843	943	970	34	12	87	100	27
19-34	19	35N	74W	07/07/77	849766	333958	5747.0	923	770	779	798	923	-	-	9	19	125	-	-
19-44	19	35N	74W	08/09/77	849557	333290	5726.7	923	715	748	766	890	-	-	33	18	124	-	-
19-66	19	35N	74W	12/17/81	849183	335635	5722.4	1000	737	770	783	925	976	-	33	13	142	51	-
19-78	19	35N	74W	07/01/85	847930	333270	5734.8	898	695	720	741	859	-	-	25	21	118	-	-
20-11	20	35N	74W	02/13/74	848490	340394	5576.7	1204	675	715	743	809	960	978	40	28	66	151	18
20-12	20	35N	74W	02/14/74	848494	342704	5579.7	1202	720	741	779	885	-	-	21	38	106	-	-
20-13	20	35N	74W	02/12/74	847101	338501	5645.4	1035	709	736	788	813	932	947	27	52	25	119	15
20-14	20	35N	74W	02/12/74	847085	340038	5609.0	1207	698	734	751	810	936	949	36	17	59	126	13
20-15	20	35N	74W	02/13/74	847103	341602	5706.7	1212	813	851	889	929	1062	1084	38	38	40	133	22
20-17	20	35N	74W	01/20/76	847142	339226	5626.2	1098	660	685	708	840	951	972	25	23	132	111	21
20-3	20	35N	74W	05/15/70	848325	341764	5608.5	1000	735	768	815	850	961	993	33	47	35	111	32
21-11	21	35N	74W	05/11/70	847455	345758	5578.4	960	755	777	811	870	900	909	22	34	59	30	9

Hole #	Sec.	Town.	Range	Date Drilled	Wyo State Plane Mod.			Total Depth	M Sand Top	L Shale Top	K Sand Top	J Shale Top	I Sand Top	I Sand Bottom	M Sand Thickness	L Shale Thickness	K Sand Thickness	J Shale Thickness	I Sand Thickness
					NORTH	EAST	Elev.												
21-13	21	35N	74W	05/04/70	847335	347964	5483.1	899	639	670	760	806	-	-	31	90	46	-	-
21-132	21	35N	74W	12/17/76	848140	346992	5491.3	1221	671	710	752	822	883	915	39	42	70	61	32
21-16	21	35N	74W	02/22/74	849005	343803	5572.7	1201	657	703	742	820	842	855	46	39	78	22	13
21-17	21	35N	74W	02/27/74	848996	345403	5487.2	1202	657	683	737	803	867	902	26	54	66	64	35
21-22	21	35N	74W	02/21/74	849004	347798	5462.0	1196	662	684	733	819	871	904	22	49	86	52	33
21-24	21	35N	74W	02/27/74	848102	344490	5540.1	1202	655	711	732	839	888	922	56	21	107	49	34
21-25	21	35N	74W	02/28/74	847624	343809	5572.4	1199	696	733	760	865	934	955	37	27	105	69	21
21-26	21	35N	74W	02/21/74	847486	346631	5533.8	1202	682	698	770	841	897	934	16	72	71	56	37
21-29	21	35N	74W	02/21/74	847594	347506	5475.8	1204	655	686	729	800	870	902	31	43	71	70	32
21-3	21	35N	74W	05/06/70	849492	344754	5496.2	900	675	691	728	847	880	-	16	37	119	33	-
21-30	21	35N	74W	03/25/74	849434	346485	5479.3	973	660	692	752	815	881	913	32	60	63	66	32
21-63	21	35N	74W	09/25/74	849801	347397	5494.4	848	724	735	785	-	-	-	11	50	-	-	-
21-7	21	35N	74W	05/12/70	848178	345849	5513.7	900	657	705	744	853	882	-	48	39	109	29	-
21-71	21	35N	74W	10/03/74	849559	348345	5494.5	873	710	741	772	845	-	-	31	31	73	-	-
13-10	13	35N	75W	01/15/74	849912	330912	5650.3	1207	650	670	688	825	870	-	20	18	137	45	-
13-11	13	35N	75W	01/17/74	849931	332523	5640.3	1206	675	696	721	834	896	928	21	25	113	62	32
13-29	13	35N	75W	12/03/74	852291	332085	5631.4	865	733	763	-	-	-	-	30	-	-	-	-
13-4	13	35N	75W	01/09/74	851475	331892	5639.8	1206	734	757	797	881	959	981	23	40	84	78	22
13-41	13	35N	75W	12/11/74	850267	328117	5636.8	1206	512	530	554	650	745	-	18	24	96	95	-
13-42	13	35N	75W	12/10/74	851528	328887	5649.1	1205	578	597	616	722	825	-	19	19	106	103	-
13-5	13	35N	75W	01/16/74	851462	332741	5682.9	1219	764	789	812	921	950	971	25	23	109	29	21
13-55	13	35N	75W	02/07/80	851797	331590	5710.5	900	695	719	758	851	-	-	24	39	93	-	-
13-8	13	35N	75W	01/17/74	850748	332156	5608.8	1207	747	761	784	869	921	959	14	23	85	52	38
24-10	24	35N	75W	11/15/74	848635	330144	5615.7	1003	522	550	558	675	753	764	28	8	117	78	11
24-11	24	35N	75W	11/15/74	848571	331339	5631.6	938	568	603	626	720	800	-	35	23	94	80	-
24-15	24	35N	75W	11/06/74	848705	328430	5589.7	730	447	470	500	625	690	703	23	30	125	65	13
24-23	24	35N	75W	03/27/79	848790	329129	5589.1	700	463	494	509	648	703	-	31	15	139	55	-
24-25	24	35N	75W	04/03/79	848788	332415	5687.8	900	652	680	693	831	876	-	28	13	138	45	-
24-30	24	35N	75W	02/12/80	848522	333084	5716.8	909	681	708	724	853	-	-	27	16	129	-	-
24-44	24	35N	75W	12/07/81	848864	331615	5647.6	760	583	620	654	-	-	-	37	34	-	-	-
24-7	24	35N	75W	01/16/74	849102	330603	5624.5	1206	550	584	597	702	775	790	34	13	105	73	15