WATER STUDY

APPENDIX

APPENDIX A: RECORD OF WELLS IN AND NEAR THE FORT HALL INDIAN RESERVATION

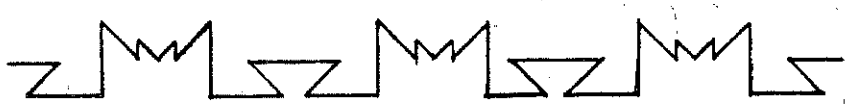
APPENDIX B: WELL LOGS - - FORT HALL RESERVATION

APPENDIX C: WATER LEVEL MEASUREMENTS

APPENDIX D: WATER QUALITY ANALYSES, PERFORMED BY ROBINSON & NOBLE, INCORPORATED

FORT HALL

APPENDIX A: RECORD OF WELLS IN AND NEAR THE FORT HALL INDIAN RESERVATION



RECORDS OF WELLS IN AND NEAR THE FORT HALL INDIAN RESERVATION, IDAHO

Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 2S., R. 36E.						
33da	John Thompson	Dr.	38	16	38	G	4,540	7	1955	-	Irr.	Dd 15 ft. after 1 hr. at 1,350 gpm.
36cdd	Shoshone-Bannock Tribes	Dr.	105	6	97	-	4,636	See Ground Water Appendix			S	Log, USGS Obs. Well.
						T. 3S., R. 34E.						
25bdd	Phyllis Brower	Dr.	82	6	78	S & G	4,462	37	1974	4,425	D	Log
26abd	John Hevewah	Dr.	89	6	85	S & G	4,458	38	1974	4,420	D	Log
26dbbb	Shoshone-Bannock Tribes	Dr.	306	16	119	Basalt	4,456	See Ground Water Appendix			Irr.	Log
26dd	Lynn Reader	Dr.	79	6	79	G	4,455	46	1973	4,409	D	Log, 56°F
32bc	Indian Springs Trout Farm	Dr.	54	6	52	G	-	3	1973	-	Ind.	Log, 58°F
33dc	Lyle Caldwell	Dr.	233	20	47	Basalt	4,650	See Ground Water Appendix			Irr.	Log
34bbb	Elsie Moss	Dr.	95	6	91	G	4,445	30	1974	4,415	D	Log
34cdd	Mike Caldwell	Dr.	75	6	34	Basalt	4,443	20	1975	4,423	D	Log
35aba	Mary Galloway	Dr.	84	6	80	S & G	4,453	35	1974	4,418	D	Log
35bb	Daniel Snipe	Dr.	70.5	6	70.5	G	4,449	27	1970	4,422	D	Log
35bbc	Paul Jimmie	Dr.	85	6	81	S & G	4,448	32	1974	4,416	D	Log
36adc	Perry Faulkner	Dr.	94	6	92	S & G	4,455	38	1975	4,417	D	Log
36ba	Ken Christensen	Dr.	82	6	82	Lava	4,457	60	1971	4,397	D	Log
						T. 3S., R. 35E.						
2bb	City of Blackfoot	Dr.	623	16-12	515	B,C	4,502	45	5/24/54	4,457	PS	City Well #5, dd 2.5 ft. after several hours at 760 gpm, 15 ft. after 3 hrs. at 2,000 gpm. Log
2cc	Idaho State Hospital South	Dr.	868	12	806	S,B	4,502	30	12/57	4,472	PS	Dd 50 ft. after 8 hrs. at 685 gpm. Log

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Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 3S., R. 35E.						
3ac1	City of Blackfoot	Dr.	182	15	86	B,G	4,493	49	1/18/49	4,444	PS	City Well #2, dd 9 ft. at 732 gpm.
3db	Union Pacific R.R.	Dr.	170	12	75	B	4,493	30	6/24/16	4,463	N	Log
8dbc	Girard Cutler	Dr.	83	6	83	SS	4,475	See Ground Water Appendix			Dom.	Log, 56°F
9adc	Josie Dixey	Dr.	80	6	60	Basalt	4,488	38	1974	4,450	Dom.	Log
9add	Mary Washakie	Dr.	84	6	58	Basalt	4,490	25	1974	4,465	Dom.	Log
10bb	City of Blackfoot	Dr.	132	16	71	B,C	4,491	46	4/55	4,445	PS	City Well #4, dd 1 ft. at 930 gpm.
10cba	Juan Bronco	Dr.	80	6	61	Basalt	4,492	40	1974	4,452	Dom.	Log
10cbc	George Metz, Jr.	Dr.	91	6	56	Basalt	4,492	37.5	1972	4,454	Dom.	Log
15bcc	Jackie Edmo	Dr.	95	6	84	Basalt	4,490	38	1974	4,452	Dom.	Log
15cbb	Ron Landon	Dr.	97	6	78	Basalt	4,490	50	1974	4,440	Dom.	Log
16ca	Hudson Grant	Dr.	74	6	74	G	4,485	38	1971	4,447	Dom.	Log
17ad	John Olsen	Dr.	175	16	120	Basalt	4,478	48	1971	4,430	Irr.	Log, pumped 1,000 gpm for 72 hrs. with 30 ft. dd
18ba	Nethy Kayou	Dr.	61	6	61	G	4,467	23	1973	4,444	Dom.	Log
18dc	Robert Ganske	Dr.	60	6	60	G & S	4,465	27	1970	4,438	Dom.	Log
20bc	Shoshone-Bannock Tribes	Dr.	67	6	66	G	4,474	28	1972	4,446	Ind.	Log Mill Well, Log.
21adaa	Shoshone-Bannock Tribes	Dr.	343	20-16	235	Basalt	4,485	See Ground Water Appendix			Irr.	Log, Perf. Liner - 82-235 ft.
21baa	Jose Martin	Dr.	94	6	87	Basalt	4,483	36	-	4,447	Dom.	Log
24cd	Fort Hall Ind. Res.	Dr.	356	6	20	S & G	4,837	323.3	4/9/55	4,514	N	Inadequate yield, Log
30bcc	Beverly Wadsworth	Dr.	71	6	-	G	4,465	23	1970	4,442	Dom.	Log
32cbb	Dan Evening	Dr.	100	6	94	Basalt	4,469	53.94	4/8/77	4,415	Dom.	Log
						T. 3S., R. 36E.						
1ca	Eugene Parrish	Dr.	73	6	73	G	-	35	1973	-	Dom.	Log
2ad	Fort Hall Ind. Res.	Dr.	185	8	-	S & G	4,588	-	-	-	N	Flows 20 gpm, Log

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Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 4S., R. 34E.						
16cddd	Shoshone-Bannock Tribes	Dr.	370	16	221	Basalt	4,440	30.29	1/19/78	4,410	Irr.	Log
21cdaa	George Shiozawa	Dr.	380	16	225	Lava	4,435	23.42	8/13/75	4,412	Irr.	Log, pumped 5,000 gpm, 72 hrs., 50 ft. dd, 47°F. See Ground Water Appendix
21dada	George Shiozawa	Dr.	370	16-12	230	Lava	4,434	25	-	-	Irr.	Log, 47°F
22aacc	Blaine Van Orden	Dr.	355	16	224	Basalt	4,440	28.32	5/6/77	4,412	Irr.	Log, See Ground Water Appendix
22da	Blaine Van Orden	Dr.	355	16	160	Basalt	4,438	25	1969	4,413	Irr.	Log
23bdba	A & L Farms	Dr.	320	16	216	Basalt	4,442	40	1969	4,402	Irr.	Pumped 2,800 gpm for 6 hrs, dd 105 ft. Log
23cacc	A & L Farms	Dr.	330	16	178	Basalt	4,439	28	1970	4,411	Irr.	Pumped 4,000 gpm, 3 hrs. 68 ft. dd. Log
23ccca	Shoshone-Bannock Tribes	Dr.	55	6	55	G	4,430	29	1/35	4,401	N	Log
23dacc	A & L Farms	Dr.	265	-	-	Basalt	4,438	-	-	-	Irr.	Log
24abdd	Jerry Twiggs	Dr.	270	16	154	Basalt	4,443	33	1969	4,410	Irr.	Pumped 4,000 gpm, 2 hrs., 14 ft. dd. Log
24bcbb	A & L Farms	Dr.	300	16	190	Basalt	4,440	27.12	4/23/76	4,413	Irr.	Log
25bc	Shoshone-Bannock Tribes	Dr.	99	8	99	G	4,430	22	1975	4,408	Dom. St.	Log
27aabb	Blaine Van Orden	Dr.	330	16	190	Basalt	4,435	26.66	4/5/78	4,408	Irr.	Log, See Ground Water Appendix
27ccaa	B & L Farms	Dr.	350	16-12	273	Basalt	4,425	24.02	6/20/74	4,401	Irr.	56°F, pumped 3,000 gpm, Log. See Ground Water Appendix
27dacc	B & L Farms	Dr.	308	16-12	240	Basalt	4,431	20.23	8/13/75	4,411	Irr.	Pumped 3,000 gpm, 56°F, Log. See Ground Water Appendix
28badd	Blaine Van Orden	Dr.	368	16	181	Basalt	4,427	21	1969	4,406	Irr.	Log

RECORDS OF WELLS IN AND NEAR THE FORT HALL INDIAN RESERVATION, IDAHO

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				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 4S., R. 34 E.						
28badd	Blaine Van Orden	Dr.	368	16	181	Basalt	4,427	21	1969	4,406	Irr.	Log
28cbdd	B & L Farms	Dr.	300	16-12	235	Basalt	4,420	11	-	-	Irr.	56°F, Log
29ac	Larry Martin	Dr.	310	16	199	Basalt	4,425	12	1973	4,413	Irr.	Log
32bbdd	B & L Farms	Dr.	250	16	187	Basalt	4,420	11.64	6/24/77	4,408	Irr.	Pumped 2,700 gpm, dd 70 ft., 8 hrs., 56°F Log. See Ground Water Appendix
35dabc	Elizabeth Marsh	Dr.	56	6	56	Sand	4,448	34.3	1964	4,414	Dom.	Log
36baab	Jimmy Dann	Dr.	70	6	70	G	4,445	34.33	4/5/78	4,411	Dom.	Log, See Ground Water Appendix
36dcb	Sam Hutchinson	Dr.	100	6	90	Basalt	4,458	45	1975	4,413	Dom.	Log
						T. 4S., R. 35E.						
6ba	Shoshone-Bannock Tribes	Dr.	70	6	-	Basalt	4,470	38	12/37	4,432	PS	Log
6bbbb	Shoshone-Bannock Tribes	Dr.	306	16-12	230	Basalt	4,465	49.29	3/20/78	4,416	Irr.	Log, perforated liner 141-230 ft. See Ground Water Appendix
6ccaa	LaVar Murdock	Dr.	140	16	22	Basalt	4,504	86.48	7/29/77	4,418	Irr.	52°F, pumped 4,000 gpm, 2 hrs, dd 2 ft. Log
7bcaa	LaVar Murdock	Dr.	105	18	18	Basalt	4,457	43	1970	4,414	Irr.	52°F, pumped 4,000 gpm, 2 hrs, 18-inch dd, Log
7ccbb	LaVar Murdock	Dr.	535	16	227	Basalt	4,449	39	1969	4,410	Irr.	Log
7cba	LaVar Murdock	Dr.	228	16-12	203	Basalt	4,446	35	1970	4,411	Irr.	Log, pumped 4,000 gpm, 2 hrs, 6-inch dd, 52°F
8cabc	Russett Potato Co.	Dr.	80	16	33	Basalt	4,472	55	1966	4,417	Irr.	Log, See Ground Water Appendix
12bddd	Fort Hall Ind. Res.	Dr.	280	6	65	Basalt	4,705	260	2/14/35	4,445	St.	Log, pumped 10 gpm, See Ground Water Appendix

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				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 4S., R. 36E.						
19dbbb	Clair Kracaw	Dr.	395	20-16	255	Basalt	4,730	284	1968	4,446	Irr.	Log, see Ground Water Appendix
20bcbd	Clair Kracaw	Dr.	400	20	120	Basalt	4,785	340	1966	4,445	N	Abandoned - Inadequate, Log
30cbc	Clair Kracaw	Dr.	335	8-6	125	Basalt	4,770	305	-	4,465	Dom.	Log
31bdc	LaVida Brown	Dr.	250	6	30	Lava	4,705	198	1973	4,507	Dom.	Log
32ad	Victor Truchot	Dr.	145	6	43	Lava	4,787	115	6/13/56	4,672	Dom.	Log
32adb	Victor Truchot	Dr.	366	6	360	-	4,787	172	1974	4,615	Dom.	Log, well flowed at 322 ft.
32bbd	Milo Brunette	Dr.	100	6	37	Lava	4,740	-	-	-	N	Log, dry hole at 100 ft.
32cbb	Carl Wener	Dr.	160	6	11	Lava	4,730	-	-	-	Dom.	Log
32ccc	McMannus Broncho	Dr.	210	6	117	Lava, sand	4,765	14.43	4/6/78	4,749	Dom.	Log, perforations 100-112 ft, backfilled to 155 ft. See Ground Water Appendix
33	Shoshone-Bannock Tribes	Dr.	500	12-10	500	-	4,840	Flowing	4/78	-	Test Well	Log
						T. 4S., R. 37E.						
16ab	Shoshone-Bannock Tribes	Dr.	154	6	154	G	5,310	50	4/35	5,260	St.	Log, perforated 74-94 ft 114-134
16ab2	Fort Hall Ind. Res.	Dr.	345	6	303	G	5,310	264.3	7/13/54	5,046	St.	Yields 15 gpm. Log.
						T. 5S., R. 32E						
36cddd	Lynn Thompson	Dr.	225	16	225	S & G	4,412	29.18	4/12/78	4,383	Irr.	Log, perforated 180-210 ft. See ground water Appendix

Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 5S., 33E.						
12cc	Marion Fielding	Dr.	238	16	204	Basalt	4,405	+3	1972	4,402	Irr.	Log
24cacc	Pearl Oresco	Dr.	154	6	154	S & G	4,446	47	1964	4,399	Dom.	Log, see Ground Water Appendix
28ccbb	Lynn Thompson	Dr.	210	18	210	S & G	4,431	34.43	4/12/78	4,397	Irr.	Perforated 160-205 ft. Log, see Ground Water Appendix
31dcdd	B.I.A.	Dr.	217	16	217	S & G	4,420	27	1975	4,393	Irr.	Perforated 185-215 ft. Log, see Ground Water Appendix
32acdd	Lynn Thompson	Dr.	200	18	200	G	4,428	32	1968	4,396	Irr.	Perforated 168-195 ft. Log, see Ground Water Appendix
32bcdd	Lynn Thompson	Dr.	224	18	224	G	4,422	27	1968	4,395	Irr.	Perforated 150-220 ft. Log.
32dcdd	B.I.A.	Dr.	214	16	206	S & G	4,414	14	1975	4,400	Irr.	Perforated 150-170 ft., 190-200 ft., Log, see Ground Water Appendix
33cdcc	B.I.A.	Dr.	225	16	225	G & S	4,414	12	1975	4,402	Irr.	Perforated 192-222 ft. Log
34ad	Fort Hall Ind. Res.	Dr.	155	16	155	S & G	4,416	12.8	4/26/59	4,403	Irr.	Dd 21 ft. after 24 hrs. at 1400-1450 gpm. Log see Ground Water Appendix
34cb	Fort Hall Ind. Res.	Dr.	153	6	153	S & G	4,432	33.6	4/26/59	4,398	N	Log
34cddd	B.I.A.	Dr.	231	16	231	G & S	4,430	29.8	1975	4,400	Irr.	Perforated 185-220 ft. See Ground Water Appendix
35ccdd	USGS	Dr.	60.0	6	60	G	4,425	22.5	3/22/55	4,402	Obs.	Log, see Ground Water Appendix
35dcd	B.I.A.	Dr.	260	16	197	Basalt	4,414	13.8	1975	4,400	Irr.	Log, See Ground Water Appendix

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				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 5S., R. 34E.						
3cdad	Nanne Chedehap	Dr.	128	6	127	G	4,442	42	1964	4,400	Dom.	Log
3dcd	Dalthea Smith	Dr.	127.5	6	127.5	G	4,450	-	-	-	Dom.	Log
5ccaa	B & L Farms	Dr.	215	16	162	Basalt	4,420	6	1967	4,414	Irr.	Pumped 3,000 gpm, 8 hrs. dd 30 ft. 56°F, Log.
7bdab	-	Dr.	242	16	192	Basalt	4,420	-	-	-	Irr.	Log
9bd	Sam Wahtomy	Dr.	130	6	130	G	4,430	41.5	1964	4,388	Dom.	Log
10aa	Clyde Kinghorn	Dr.	72	6	72	S & G	4,458	36.2	8/17/52	4,422	Dom.St.	Log, Q = 15 gpm
12bc	Lillian Quagigant	Dr.	112	6	109.5	S & G	4,480	64.5	1964	4,416	Dom.	Log
13db	Claire Kracaw	Dr.	800	20	-	V,SS	4,560	153.4	4/24/59	4,407	Irr.	Dd 50 ft. after 8 hrs. at 2070 gpm.
6aaa	Cleve Divinney	Dr.	122	6	122	S & G	4,435	32	1964	4,403	Dom.	Log
16ba	Conna Paraquenah	Dr.	124	6	124	G	4,435	33	1964	4,402	Dom.	Log
16bb	Rosaline Tavo	Dr.	124	6	124	G	4,432	-	-	-	Dom.	Log
19bca	LaSalle Pocatello	Dr.	162	6	157	Basalt	4,432	33.2	1973	4,399	Dom.	Log
19dba	Evans Ingatuah	Dr.	145	6	145	G	4,455	39.8	1964	4,415	Dom.	Log
19dd	Willie Bache	Dr.	153	6	153	S & G	4,458	54	1964	4,404	Dom.	Log
19dddd	Walter Navada	Dr.	166	6	161	Basalt	4,458	56	1974	4,402	Dom.	Log
20cbbb	Margaret Nevada	Dr.	155	6	155	S	4,454	51.8	4/27/55	4,402	Obs.Dom.	Log, see Ground Water Appendix
25bc	Arden Hale	Dr.	552	12-10	400+	-	4,640	65.2	4/27/55	4,575	N	Inadequate for Irrigation, Log
35da	Henry Jensen	Dr.	450	16	450	SS,V	4,575	164	Fall/50	4,411.	Irr.	Dd 33 ft. at 1,800 gpm, Log
						T. 5S., R. 35E.						
5abb	Joe Davis, Jr.	Dr.	140	6	67	Basalt	4,525	90.3	1973	4,435	Dom.	Log
5dddd	Ivan Dixey	Dr.	121	6	68	Basalt	4,490	56	1973	4,434	Dom.	Log
17bd	Fort Hall Ind. Res.	Dr.	150	6	140	-	4,905	105.9	4/12/55	4,799	St.	
30ab	S.A. Johnson	Dr.	731	20-16	731	G,C,V	4,905	237.2	4/24/59	4,668	Irr.	Dd 58 ft. after 8 hrs. at 3,060 gpm. Log

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				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 5S., R. 36E.						
4cbc	Kesley Edmo	Dr.	90	6	88	G	4,910	71.75	4/4/77	4,838	Dom.	Log
5acc	Curtis Farmer	Dr.	270	6-4	257	SS(ash)	4,820	170	1972	4,650	Dom.	Log, pumped 15 gpm, 12 ft. dd.
5adb	Andrew Punkin	Dr.	39	6	33	Lava	4,865	78.90	-	4,786	Dom.	Log
5cb	Charlie Evening	Dr.	150	6	-	-	4,805	See Ground Water Appendix			Dom.	May have struck lava near bottom
6aaa	Ross Fork Lodge	Dr.	210	6	40	Lava	4,765	133	1972	4,632	Dom.	Log
6aacc	Shoshone-Bannock Tribes	Dr.	400	8-6	374	S & G	4,770	120.28	1/27/78	4,650	Obs.Well	Log, see Ground Water Appendix
6dad	Richard Cutler	Dr.	277	6-4	275	Conglom.	4,805	156.73	1/12/78	4,648	Dom.	Log, see Ground Water Appendix
6dbd	Mike Cutler	Dr.	240	6	38	Lava	4,790	52	1972	4,738	Dom.	Log
7aac	Theron Edmo	Dr.	210	6-4	210	G	4,825	49	1971	4,776	Dom.	Log
7abb	Susie George	Dr.	270	6	263	-	4,800	178	1974	4,622	Dom.	Log
8bbaa	Thomas Kniffin	Dr.	260	6	256	Conglom.	4,832	185	1975	4,647	Dom.	Log
8bbba	Shoshone-Bannock Tribes	Dr.	581	20-16	570	G Seams	4,830	167	1978	4,663	N	Log
16bcb	Francis Edmo	Dr.	146	6	134	SS(ash)	4,960	45	1974	4,915	Dom.	Log, see Ground Water Appendix
16bcbb	Shoshone-Bannock Tribes	Dr.	825	16	750	Ash	4,955	Flowing	1978	4,955	Irr.	Log, flowing.
16cbb	Hugh Edmo	Dr.	187	6	175	SS + Conglom.	4,980	55.75	4/8/77	4,924	Dom.	Log
17ac	Shoshone-Bannock Tribes	Dr.	560	8-6	507	Ash + Rhyolite	4,930	174.61	1/26/78	4,755	Obs.Well	Log, see Ground Water Appendix
17aca	Shoshone-Bannock Tribes	Dr.	561	16	548	Ash + Rhyolite	4,930	-	-	-	Irr.	Log
17bbd	Daisey St. Clair	Dr.	260	6	250	SS + Conglom.	4,915	177	1974	4,738	Dom.	Log, see Ground Water Appendix

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				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 5S., R. 36E						
21cbb	Shoshone-Bannock Tribes	Dr.	355	8-6	355	S & G	5,020	235.9	11/18/77	4,784	Obs.Well	Log, see Ground Water Appendix
21cd	Shoshone-Bannock Tribes	Dr.	190	8-6	173.5	S & G	5,100	59.04	11/18/78	5,041	Obs.Well	Log, see Ground Water Appendix
						T. 6S., R. 32E.						
1abaa	B.I.A.	Dr.	227	16	227	G & S	4,415	52.41	7/19/76	4,363	Irr.	Perforated 165-190 ft., 209-215 ft. Log
1babb	B.I.A.	Dr.	263	16	263	G	4,398	3.8	1975	4,394	Irr.	Perforated 235-260 ft., Log, see Ground Water Appendix
11aa	Shoshone-Bannock Tribes	Dr.	101	6	98	S,G	4,400	58	2/35	4,342	N	Log
12abaa	B.I.A.	Dr.	223	16	224	S & G	4,420	21.77	11/21/75	4,398	Irr.	Perforated 185-215 ft., Log
13acbb	B.I.A.	Dr.	213	16	213	S & G	4,410	15	1975	4,395	Irr.	Perforated 175-205 ft., Log
13bdaa	Nugent Bros.	Dr.	183	18	183	G	4,408	6.65	11/24/75	4,401	Irr.	Perforated 160-183 ft., Log
14aabb	Nugent Bros.	Dr.	175	18	175	G	4,409	13.18	4/11/78	4,396	Irr.	Perforated 158-175 ft., Log, see Ground Water Appendix
15adbb	Mayo Hasket	Dr.	200	20	200	S & G	4,399	25.69	11/24/75	4,373	Irr.	Perforated 163-196 ft., Log
22cacc	-	Dr.	207	-	-	G	4,407	29.08	4/11/78	4,378	Irr.	Log, see Ground Water Appendix
22dacc	-	Dr.	220	-	-	S & G	4,409	26.22	2/10/76	4,383	Irr.	Log

Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 6S., R. 32E.						
23cdcc	B.I.A.	Dr.	208	16	201	G	4,417	29.37	2/9/76	4,388	Irr.	Log, perforated 165-197 ft.
24bddd	B.I.A.	Dr.	500	16	500	S & G	4,427	31.5	1975	4,396	Irr.	Perforated 169-209 ft., 226-241 ft., 266-317 ft., 420-494 ft., Log See Ground Water Appendix
26ba	-	Dr.	208	-	-	S & G	4,425	37.44	1/5/78	4,388	Obs.	Log, see Ground Water Appendix
27aacc	-	Dr.	202	-	-	S & G	4,409	24.32	4/11/78	4,385	Aband.	Log, see Ground Water Appendix
27adca	USGS	Dr.	85	6	73	G	4,417	33.86	6/10/77	4,383	Obs.	Log, see Ground Water Appendix
27bdbb	-	Dr.	194	-	-	S & G	4,410	35.49	2/10/76	4,375	Irr.	Log
28accc	Lawrence Funk	Dr.	240	18	240	S & G	4,407	39.64	3/15/77	4,367	Irr.	Log, Perforated 175-240 ft., see Ground Water Appendix
28cdd	Lawrence Funk	Dr.	220	18	220	S & G	4,413	47	1969	4,366	Irr.	Perforated 175-240 ft., Log, see Ground Water Appendix
29dda	-	Dr.	223	-	-	S & G	4,404	44.19	2/10/76	4,360	Irr.	Log, see Ground Water Appendix
33bbbb	-	Dr.	202	-	-	S & G	4,408	38.91	4/11/78	4,369	Irr.	Log, see Ground Water Appendix
						T. 6S., R. 33E.						
1cd	Rowland Bros.	Dr.	265	14	225	C	4,451	52	1/54	4,399	Irr.	Dd 1 ft. after 6 hrs. at 1,800 gpm
1da	Weaver Douglas	Dr.	240	18	166	V,C	4,424	25.88	3/22/78	4,398	Irr.	Dd 1 ft. after 1 hr. at 3,040 gpm. Log, see Ground Water Appendix

Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 6S., R. 33E.						
2ca	G. R. Wainscott	Dr.	149	8	-	-	4,438	37.7	9/29/58	4,400	Irr.	Yield 220 gpm
3acdd	B.I.A.	Dr.	194	18	194	G	4,432	29.77	11/25/75	4,402	Irr.	Log, perforated 50-65 ft. 137-150 ft., 165-192 ft
3bcdd	B.I.A.	Dr.	171	18	171	S & G	4,424	21.47	11/21/75	4,403	Irr.	Log, perforated 150-170 ft.
4bcbb	B.I.A.	Dr.	223	16	222.8	S & G	4,416	14.33	10/14/77	4,402	Irr.	Perforated 188-218 ft., Log, see Ground Water Appendix
6babb	B.I.A.	Dr.	238	16	238	S & G	4,418	20.56	3/15/77	4,397	Irr.	Perforated 194-202 ft., 215-235 ft., Log, see Ground Water Appendix
6c	B.I.A.	Dr.	270	16	268	SS + G	4,415	19	1975	4,396	Irr.	Perforated 161-164 ft., 200-207 ft., 247-265 ft. Log
8a	B.I.A.	Dr.	221	16	218	S & G	4,430	46	1975	4,384	Irr.	Perforated 170-200 ft., Log
8dad	B.I.A.	Dr.	212	16	212	S & G	4,450	47	1975	4,403	Irr.	Perforated 175-205 ft., Log
9c	Anton Smith	Dr.	370	20	287	Basalt	4,450	49.26	11/24/75	4,401	Irr.	Pumped 3,500 gpm, dd 4 ft
10dadc	City of Pocatello	Dr.	214	12	209	G,V	4,441	32	-	-	PS	Log Airport Well #2, dd 3.5 ft. at 1,300 gpm
11ac	City of America Falls	Dr.	309	14-12	309	S,G	4,442	41.3	8/28/52	4,401	Irr.	Dd 9 ft. while 1,800 gpm, Log 210-309 ft., Perforated 210-220 ft., 289-309 ft.
11dbda	Bistline & Evans	Dr.	130	16	130	G	4,452	50.3	4/27/59	4,402	Irr.	Dd 6 ft. at 1,500 gpm, See Ground Water Appendix
12cc	Leroy Lindley	Dr.	103	22	103	G	4,458	56.6	4/27/59	4,401	Dom.Irr	Dd12 ft at 877 gpm

Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 6S., R. 33E.						
12cddd	FMC	Dr.	196	16	98	G,L	4,464	68	9/13/51	4,396	Ind.	Dd 2 ft. at 1,500 gpm after 4 hrs. Log, Well #1
12dadc	City of Pocatello	Dr.	113	8	108	S & G	4,461	66	-	-	PS	Pilot House Well, pumped 220 gpm, 5 ft. dd, 1951, Log
12dd	FMC	Dr.	120	6	120	G	4,487	91.7	8/14/58	4,395	Obs.	For observation of chemical quality
13baba	FMC	Dr.	200	16	-	S,G,V	4,461	61	1952	4,400	Ind.	FMC Well #4, yield 1,200 gpm, Log
13bbbc	FMC	Dr.	210	16	202	G,L	4,451	51	-	-	Ind.	FMC Well #3, dd 6 ft. after 4¼ hr at 1,800 gpm, Log
14a	FMC	Dr.	220	16	216	Rhyolite	4,445	47	1969	4,398	Ind.	Log, perforated 100-216 ft., Well #5
15ad	City of Pocatello	Dr.	203	12	203	G	4,463	62.98	12/10/75	4,400	PS	Dd 12 ft. at 1,300 gpm
15cd	Bistline & Evans	Dr.	160	18	170	-	4,493	97.3	4/25/59	4,396	Irr.	Yield 936 gpm
15dc	J.P. Evans	Dr.	205	16	205	-	4,489	85.7	4/25/59	4,403	Irr.	Dd 5 ft. at 1,190 gpm
16cbbb	Anton Smith	Dr.	284	20	284	S & G	4,431	28.69	11/24/75	4,402	Irr.	Pumped 3,389 gpm, 62 ft. dd, Log
17bc	Lyman & Welch	Dr.	-	-	-	-	4,438	26.3	4/25/59	4,402	Irr.	
18bbaa	B.I.A.	Dr.	211	16	210.5	G & S	4,422	21.13	5/31/77	4,401	Irr.	Perforated 175-205 ft., Log, see Ground Water Appendix
19aa	Weaver Douglas	Dr.	374	18-16	340	-	4,423	21.36	11/24/75	4,402	Irr.	Dd 1 ft. at 700 gpm
20ab	Anton Smith	Dr.	268	12	268	G	4,441	39.1	4/25/59	4,402	Irr.Dom.	Dd 19 ft.
21ac	Neibaur & Sons	Dr.	320	20	320	G	4,472	71.42	11/25/75	4,401	Irr.	Dd 12-15 ft. at 2,700-2900 gpm. Perforated 267-320 ft.
21bb	J. W. Priestly	Dr.	227	20	220	G	4,433	34.28	11/21/75	4,399	Irr.	Dd 14 ft. after 5 hrs. at 2,560 gpm. Log. See Ground Water Appendix

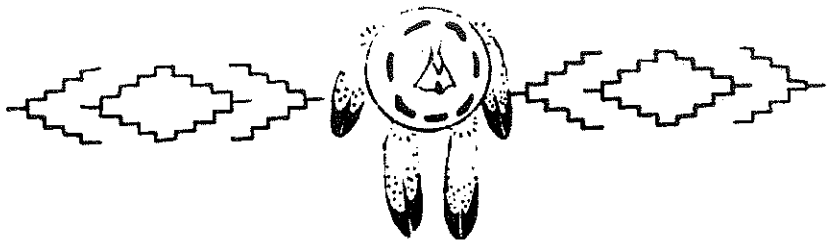
Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 6S., R. 33E.						
21cb	Anton Smith	Dr.	215	18	215	S,G	4,429	33.0	4/25/59	4,396	Irr.	Yield 990 gpm, dd near 90 feet. Temp 62°F
22babb	Anton Smith	Dr.	360	20	360	G + S	4,490	83.20	4/11/78	4,406	Irr.	Log, pumped 2,400 gpm, 6 hrs, 104 ft. dd. See Ground Water Appendix. Perforated 115-120, 270-280, 318-326, 326-344 ft.
22ccbb	B.I.A.	Dr.	530	16 12	472 512	S & G	4,508	107.93	11/25/75	4,400	Irr.	Log, Perforated 210-510 ft. (163 ft. at various locations)
26ab	Ray Swanson	Dr.	350	20-16-	-	-	4,680	-	-	-	Irr.	Log
28ca	Fort Hall Ind. Res.	Dr.	220	10	200	V	4,548	155.3	4/27/59	4,393	N	Log
31dc	Jim Brown	Dr.	193	14	193	S,G	4,432	20.2	8/21/52	4,412	Irr.	Yield 1,500 gpm.
3cc	Village of Chubbuck	Dr.	255	12	250	C	4,469	65	4/24/59	4,404	PS	Dd 5 ft. after 4 hrs. at 1,350 gpm. Log
7cc	FMC	Dr.	300	14	157	L	4,478	90	9/13/51	4,388	Ind.	Well #2, Log
7cd	J.R. Simplot Co.	Dr.	229	20	229	S,G,V	4,446	75.4	8/14/58	-	Ind.	Well #4, dd 11 ft. after 20 hrs at 2,400 gpm. Log
7cd2	J.R. Simplot Co.	Dr.	300	20	230	-	4,448	-	-	-	N	Well #5, Inadequate well
7db	J.R. Simplot Co.	Dr.	132	-	-	-	4,443	-	-	-	N	Well #2, inadequate yield
7dc	J.R. Simplot Co.	Dr.	102	8	102	-	4,444	-	-	-	N	Well #1, Inadequate yield
7dc2	J.R. Simplot Co.	Dr.	140	16	140	S,G	4,445	57	3/23/53	-	Ind.	Well #3, Log. Pumped 11-1,200 gpm
8db	H. Hatch	Dr.	60.5	6	-	S	4,452	20.7	8/17/52	4,431	Dom.	Log
15aa	U.S. Navy	Dr.	331	12	-	G	4,468	-	-	-	Ind.	Navy Well #1, yield 1,200 gpm. Log
15bd	City of Pocatello	Dr.	301	20	301	G	4,465	59.6	6/7/58	4,405	PS	Dd 18.5 ft. after 12 hrs at 2,180 gpm

Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 6S., R. 34E.						
15bd	City of Pocatello	Dr.	301	20	301	G	4,465	59.6	6/7/58	4,405	PS	Dd 18.5 ft. after 12 hrs. at 2,180 gpm
16cd	Phillips Petroleum Co.	Dr.	73	8	80	-	4,437	27.2	8/20/52	4,410	Ind.	
23ab	City of Alameda	Dr.	155	16	152	G	4,503	88	2/56	4,415	PS	City Well #5, dd 1 ft. after 6 hrs at 3,000 gpm
27aa	City of Pocatello	Dr.	505	12	380	S,G	4,460	-	-	-	N	Yield insufficient, Log
						T. 6S., R. 36E.						
11ca	Mark Morey (c/o Boise Cascade)	Dr.	78	6	75	-	5,940±	10	1972	-	Dom.	Log
						T. 7S., R. 32E.						
1aaa	B.I.A.	Dr.	317	16	317	S & G	4,445	41.5	1973	4,404	Irr.	Log, perforated 128-300 Owl Canal Well #5, see ground water Appendix
2bdac	B.I.A.	Dr.	300	16	296	S & G	4,440	48.5	1972	4,392	Irr.	Log, perforated 256-296 Owl Canal Well #4 see Ground Water Appendix
2cbbb	B.I.A.	Dr.	561	16	561	SS	4,440	50.01	2/9/76	4,390	Irr.	Log, perforated 229-250 265-305, 358-420, 471-541, Owl Canal Well #3
3cd	B.I.A.	Dr.	475	16	364	S & G	4,440	45	1973	4,395	Irr.	Log, screen 50 ft. of 80 mesh, Owl Canal Well #1

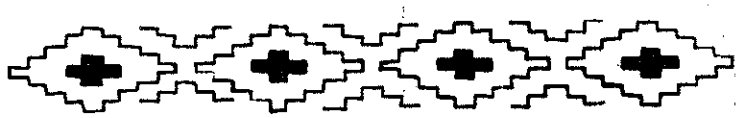
RECORDS OF WELLS IN AND NEAR THE FORT HALL INDIAN RESERVATION, IDAHO

Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 7S., R. 32E.						
3dbdd	B.I.A.	Dr.	540	16 12	434 540	G,S	4,440	49.35	4/11/78	4,391	Irr.	Log, perforated 223-264 ft., 340-368 ft., 340-368 ft., 419-534 ft., Owl Canal Well #2, see Ground Water Appendix
9a	Shoshone-Bannock Tribes	Dr.	75	4	-	-	4,465	40	4/11/55	4,425	St.	
9ddbb	Anderson & Martin Farms	Dr.	445	20	401	S & G	4,575	190	1964	4,385	Irr.	Log, perforated 310-365 ft.
10dbba	Anderson - Martin	Dr.	450	20	396	S & G	4,572	185	1962	4,387	Irr.	Perforated 311-394, Log
11ccbb	Anderson - Martin	Dr.	750	20	400	S & G	4,583	190.90	2/18/76	4,392	Irr.	Bailed 50 gpm, Log
15ab	Gas Pump Plant	Dr.	358	-	-	S & G	4,615	-	-	-	Dom.	Log
15baaa	Anderson - Martin	Dr.	515	20	413	SS	4,636	246	1962	4,390	Irr.	Log, perforated 338-410 ft.
15ca	Shoshone-Bannock Tribes	Dr.	275	6	50	Shale	4,610	135	3/35	4,475	St.	Log
22ab	Shoshone-Bannock Tribes	Dr.	234	6	175	G,B	4,590	136	12/36	4,454	St.	Log
5acdd	Pete Hubbard	Dr.	232	16	-	S & G	4,484	71.47	2/18/75	4,413	Irr.	Pumped 2,000 gpm, Log 52°F
6bbcc	B.I.A.	Dr.	330	16	322	S & G	4,460	44.50	2/9/76	4,416	Irr.	Log, perforated 94-145, 180-294, Owl Canal Well #6
6cdab	B.I.A.	Dr.	405	16	401	G	4,460	45.75	1972	4,414	Irr.	Log, perforated 137-267, Owl Canal Well #7, see Ground Water Appendix
6cdad	B.I.A.	Dr.	735	16	532	S & G, SS	4,455	44.24	2/9/76	4,411	Irr.	Log, perforated 406-426, 440-482, Owl Canal Well #8
7aa	-	Dr.	220	-	-	S & G	4,460	-	-	-	-	Log

Number	Owner	Type of well	Depth of well (feet)	Casing		Character of aquifer	Altitude of land surface (feet)	Water level			Use of well	Remarks
				Dia. (in.)	Depth (feet)			Depth to water (feet)	Date of measurement	Altitude of water surface (feet)		
						T. 7S., R. 33E.						
7aadd	H. H. Zimmerli	Dr.	315	20-16	315	S & G	4,460	82	1953	-	Irr.	Log
7ba	John Yamayoto	Dr.	235	6	235	G	-	-	-	-	Dom.	Perforated 215-225 ft., Temp. 56°F
7da	H. H. Zimmerli	Dr.	198	-	-	S & G	4,465	35	1954	4,430	Irr.	Log, yield 2,100 gpm, dd 38 ft.
7ddc	H. H. Zimmerli	Dr.	220	20	190.5	S & G	4,480	60	-	-	Irr.	Log, yield 1,235 gpm
20bb	H. H. Zimmerli	Dr.	445	20-8	-	S & G	4,530	20	1953	4,510	Irr.	Log, perforated 16-34, 55-87 ft.
20bc	H. H. Zimmerli	Dr.	220	20	-	S & G	4,530	30	-	-	Abandoned	Log, yields 270 gpm, dd 105 ft.
						T. 9S., R. 33E.						
3ccb	Grace Jackson	Dr.	157	6	151	Lava	4,895	48	1964	4,847	Dom.	Log

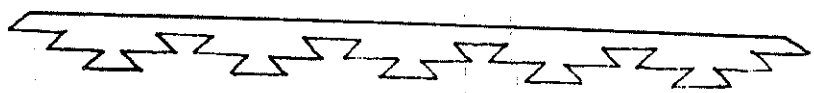


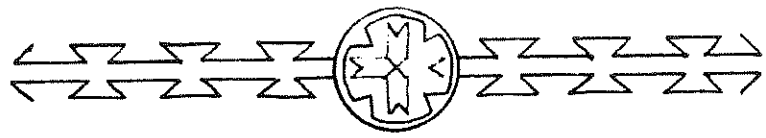
APPENDIX B: WELL LOGS - FORT HALL INDIAN RESERVATION



WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
2S/36E-36cdd. Shoshone Bannock Tribes. Drilled by M. L. Beath, 1954. Elevation 4641 feet. Casing: 6-inch to 97 feet. Total depth 105 feet.		
Soil	0	7
Sandrock Boulders	7	21
Clay	21	82
Sandrock	82	98
Shale, sandy with gravel and boulders	98	105
3S/34E-25bdd. Phyllis Brower. Drilled by Jack Cushman, 1974. Elevation 4462 feet. Casing: 6-inch to 78 feet. Total depth 82 feet. Screened from 78 to 82 feet.		
Dry brown clay	0	3
Sand and gravel	3	26
Black sand	26	29
Sand and gravel	29	35
Brown clay	35	39
Brown clay and gravel	39	62
Sand and gravel	62	82
3S/34E-26abd. John Hevewah. Drilled by Jack Cushman, 1974. Elevation 4458 feet. Casing: 6-inch to 85 feet. Total depth 89 feet. Screened from 85 to 89 feet.		
Dry brown clay	0	4
Sand and gravel	4	31
Wet brown clay	31	40
Sand and gravel	40	89

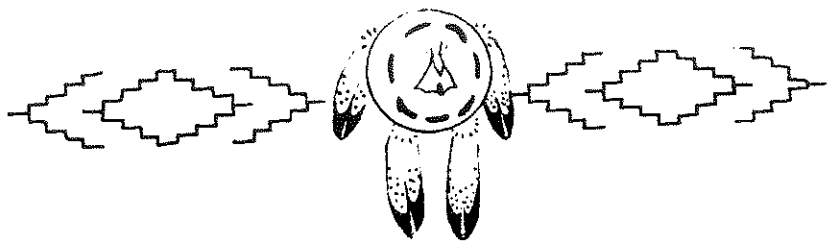




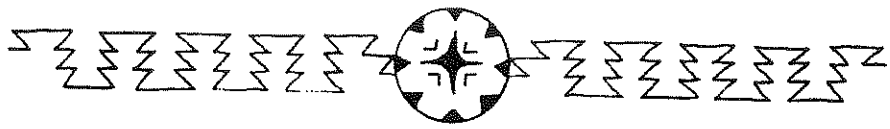
WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
3S/34E-26dd. Lynn Reader. Drilled by Doug Cushman, 1973. Elevation 4455 feet. Casing: 6-inch to 79 feet. Total depth 79 feet.		
Gravel and sand	69	75
Fine gravel	75	79
3S/34E-32bc. Indian Springs Trout Ranch. Drilled by Doug Cushman, 1973. Casing: 6-inch to 52 feet. Total depth 54 feet.		
Dirt and gravel	0	3
Gravel and sand, water	3	30
Large gravel and sand, water	30	49
White clay	49	52
Hard clay and seams of gravel, water	52	54
3S/34E-33dc. Lyle V. Caldwell. Drilled by Doug Cushman. Elevation 4650 feet. Casing: 20-inch to 47 feet. Total depth 233 feet.		
Clay	0	14
Broken lava	14	42
Gray lava	42	74
Cinders	74	75
Red rock	75	81
Black lava and cinders	81	91
Lava and cinders	91	167
Reddish color cinders, water	167	169
Lava and cinders, water	169	194
Gray lava	194	203
Lava, brown clay and sand	203	206
Brown, clay, lava and sand	206	215
Black lava and cinders, water	215	228
Lava and cinders, water	228	233

Materials	Depth From	Depth To
3S/34E-34bbb. Elsie Moss. Drilled by Jack Cushman, 1974. Elevation 4445 feet. Casing: 6-inch to 91 feet. Total depth 95 feet. Screened from 91 to 95 feet.		
Top soil	0	4
Sand and gravel	4	26
Brown clay	26	42
Sand and gravel	42	81
Brown clay	81	85
Gravel	85	95
3S/34E-34cdd. Mike Caldwell. Drilled by Jack Cushman, 1975. Elevation 4443 feet. Casing: 6-inch to 34 feet. Total depth 75 feet.		
Top soil	0	10
Sand and gravel	10	30
Clay	30	34
Gray basalt	34	40
Basalt and streaks of red cinders	40	75
3S/34E-35aba. Mary Galloway. Drilled by Jack Cushman, 1974. Elevation 4453 feet. Casing: 6-inch by 80 feet. Total depth 84 feet. Screened from 80 to 84 feet.		
Top soil	0	4
Sand and gravel	4	26
Brown clay	26	36
Sand (coarse black)	36	39
Sand and gravel	39	84



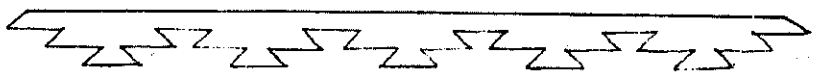
Materials	Depth From	Depth To
3S/34E-35bb. Daniel Snipe. Drilled by Jack Cushman, 1970. Elevation 4449 feet. Casing: 6-inch to 70.5 feet. Total depth 70.5 feet.		
Large gravel	0	40
Sand gravel	40	43
Brown clay, water	43	45
Hard gravel	45	52
Sand - gravel	52	56
Gravel, water	56	70.5
3S/34E-35bbc. Paul Jimmie. Drilled by Jack Cushman, 1974. Elevation 4448 feet. Casing: 6-inch to 81 feet. Total depth 85 feet. Screened from 81 to 85 feet.		
Dry brown clay	0	4
Sand and gravel	4	26
Black sand	26	30
Sand and gravel	30	85
3S/34E-36adc. Perry Faulkner. Drilled by Jack Cushman, 1975. Elevation 4455 feet. Casing: 6-inch to 92 feet. Total depth 94 feet. Screened from 92 to 94 feet.		
Top soil	0	2
Sand and gravel	2	94
3S/34E-36ba. Ken Christensen. Drilled by Doug Cushman, 1971. Elevation 4457 feet. Casing: 6-inch to 82 feet. Total depth 82 feet.		
Clay	0	4
Clay and gravel	4	7



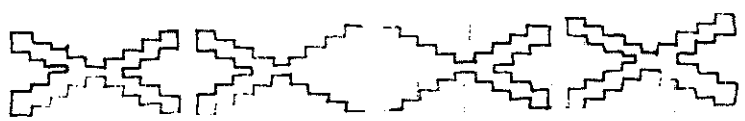
Materials	Depth From	Depth To
3S/34E-36ba. --Continued		
Some gravel	7	15
Clay	15	54
Gravel, water	54	60
Clay	60	72
Lava	72	80
Cinders, water	80	82

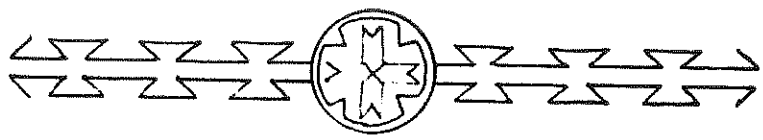
3S/35E-2bb. City of Blackfoot.
Elevation 4502 feet. Casing: 16-inch,
12-inch to 515 feet. Total depth 623 feet.
Perforated from 305 to 515 feet.

Dirt	0	5
Clay and gravel	5	20
Sand and gravel	20	30
Clay and gravel, struck water at 65 feet	30	71
Lava, black	71	110
Cinders and black sand, water-bearing	110	114
Rock, loose and black sand, water-bearing	114	132
Rock, loose, black sand, and cinders, water-bearing	132	164
Clay, brown	164	195
Lava, black, hard	195	207
Clay and lava	207	222
Lava, black, hard	222	230
Clay, brown	230	233
Lava, black	233	235
Clay, brown	235	237
Lava, black	237	244
Clay, brown	244	253
Lava, black	253	275
Clay, brown	275	278
Lava, black	278	293
Clay, brown	293	295
Lava, black, hard	295	298
Clay, brown	298	300
Lava, black	300	304
Clay, brown	304	307
Lava, black	307	314
Clay, brown	314	316

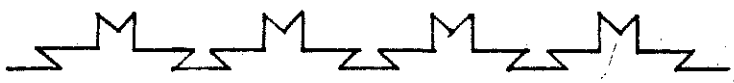


Materials	Depth From	Depth To
3S/35E-2bb. --Continued.		
Lava, black, and loose rock	316	343
Chalk, red	343	350
Lava, black	350	400
Chalk, red	400	418
Lava, black	418	424
Clay, brown	424	427
Lava, black	427	435
Gravel, water-bearing	435	439
Clay, brown	439	443
Lava, black, water-bearing	443	454
Clay, brown, water-bearing	454	462
Rock, hard, water-bearing	462	485
Clay, brown, water-bearing	485	507
Lava rock, water-bearing	507	520
Rock, red, water-bearing	520	535
Sandstone, red, water-bearing	535	606
Marble cinders, water-bearing	606	621
Chalk, white	621	623
3S/35E-2cc. Idaho State Hospital South. Elevation 4502 feet. Casing: 12-inch to 806 feet. Total depth 868 feet.		
Clay and gravel, struck water at 25 feet	0	33
Sand and gravel	33	79
Clay and sand	79	102
Gravel, large, and clay	102	116
Gravel and sand	116	125
Boulders, gravel and sand	125	230
Clay, blue, and lava	230	278
Lava, black, and brown clay	278	350
Lava, black, hard, with streaks of soft rock	350	464
Clay, blue, and lava	464	514
Shale, green, and black lava	514	542
Conglomerate and soft red rock	542	595
Clay, gray, and rock	595	635
Clay, brown, sticky	635	717
Chalk, brown, rock, and sandstone	717	727
Quartzite and marble sandstone, water-bearing	727	760
Basalt (?), hard, with streaks of sandstone, some water	760	768
Quartzite and cinders, water-bearing	768	794
Rock, hard, water-bearing	794	803
Rock, red, hard, with hard chalk, water-bearing	803	868



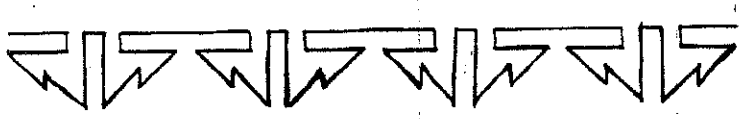


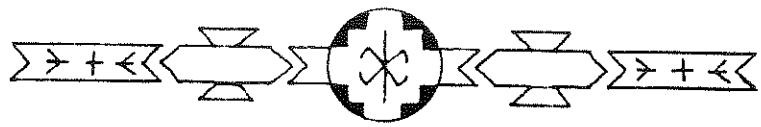
Materials	Depth From	Depth To
3S/35E-3db. Union Pacific Railroad Company Elevation 4493 feet. Casing: 12-inch to 75 feet. Total depth 170 feet.		
Sand	0	9
Gravel, struck water at 74 feet	9	74
Lava, red and black	74	144
Lava, black, hard	144	152
Lava, soft, muddy	152	159
Lava, black, hard	159	163
Lava, black, soft	163	170
3S/35E-8dbc. Girard Cutler. Drilled by Hackworth Drilling, 1969. Elevation 4475 feet. Casing: 6-inch to 83 feet. Total depth 83 feet.		
Loam, dark brown	0	3
Silt grey-hard	3	26
Sand and gravel, some clay	26	67
Coarse gravel	67	80
Sandstone, light, gray, hard, water	80	83
3S/35E-9adc. Josie Dixey. Drilled by Jack Cushman, 1974. Elevation 4488 feet. Casing: 6-inch to 60 feet. Total depth 80 feet.		
Top soil	0	12
Sand	12	26
Sand and gravel	26	55
Clay and gravel	55	60
Gray basalt and red cinders	60	80
3S/35E-9add. Mary Washakie. Drilled by Jack Cushman, 1974. Elevation 4490 feet. Casing: 6-inch to 58 feet. Total depth 84 feet.		
Dry brown clay	0	13
Sand and gravel	13	58
Gray basalt and red cinders	58	84



WELL LOGS - FORT HALL INDIAN RESERVATION

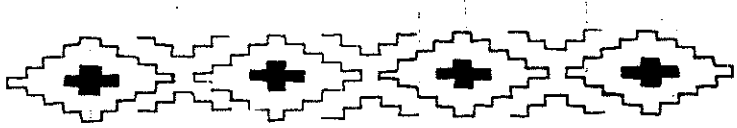
Materials	Depth From	Depth To
3S/35E-10cba. Juan Bronco. Drilled by Jack Cushman, 1974. Elevation 4492 feet. Casing: 6-inch to 61 feet. Total depth 80 feet.		
Dry brown clay	0	15
Sand and gravel	15	21
Sand	21	27
Sand and gravel	27	61
Gray basalt and black cinders	61	80
3S/35E-10cbc. George Metz, Jr. Drilled by Cushman and Denning, 1972. Elevation 4492 feet. Casing: 6-inch to 56 feet. Total depth 91 feet.		
Dirt	0	4
Gravel	4	53
Sand and clay	53	56
Hard Basalt	56	81
Streaks of rock and cinders	81	91
3S/35E-15bcc. Jackie Edmo. Drilled by Jack Cushman, 1974. Elevation 4490 feet. Casing: 6-inch to 84 feet. Total depth 95 feet.		
Top soil	0	5
Sand and gravel	5	84
Gray basalt and cinders	84	95
3S/35E-15cbb. Ron Landon. Drilled by Jack Cushman, 1974. Elevation 4490 feet. Casing: 6-inch to 78 feet. Total depth 97 feet.		
Sand	0	5
Sand and gravel	5	74
Clay and gravel	74	78
Gray basalt and cinders	78	97

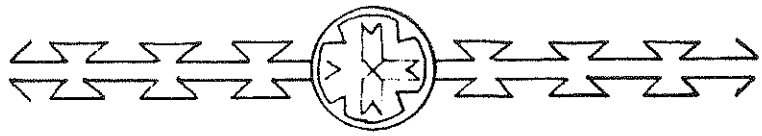




WELL LOGS - FORT HALL INDIAN RESERVATION

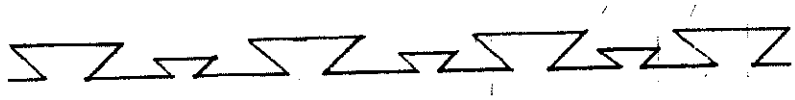
Materials	Depth From	Depth To
3S/35E-16ca. Hudson Grant. Drilled by Jack Cushman, 1971. Elevation 4485 feet. Casing: 6-inch to 74 feet. Total depth 74 feet.		
Top soil	0	2
Sand and gravel	2	4
Hard gravel, water	4	47
Sand and gravel, water	47	62
Good gravel	62	74
3S/35E-17ad. John Olsen. Drilled by Doug Cushman, 1971. Elevation 4478 feet. Casing: 16-inch to 120 feet. Total depth 175 feet.		
Sandy clay	0	5
Gravel	5	16
Sand and gravel	16	54
Sand	54	59
Gravel and sand	59	74
Sand	74	78
Gravel and sand, water	78	80
Gravel, water	80	85
Fine sand	85	88
Gravel and sand	88	90
Sand	90	92
Gravel	92	98
Sand and gravel	98	107
Sand	107	110
Sandy clay and lava	110	117
Lava	117	130
Brown clay	130	135
Lava	135	140
Brown clay	140	145
Lava	145	155
Clay	155	161
Lava	161	165
Cinders	165	171
Lava	171	175

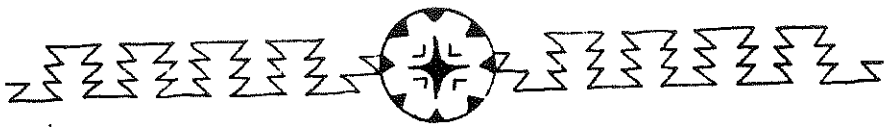




WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
3S/35E-18ba. Nethy Kayou. Drilled by Doug Cushman, 1973. Elevation 4467 feet. Casing: 6-inch to 61 feet. Total depth 61 feet.		
Clay	0	3
Gravel, water	3	23
Gravel, water	23	61
3S/35E-18dc. Robert Ganske. Drilled by Doug Cushman, 1970. Elevation 4465 feet. Casing: 6-inch to 60 feet.Total depth 60 feet.		
Dirt	0	8
Hard river gravel	8	25
Sand and gravel, water	25	35
Gravel, sand and clay, water	35	60
3S/35E-20bc. Shoshone Bannock Tribes, Log Mill. Drilled by Doug Cushman, 1972. Elevation 4474 feet. Casing: 6-inch to 66 feet. Total depth 67 feet.		
Clay and gravel	0	2
Gravel	2	11
Sand	11	14
Gravel and sand, water	14	46
Gravel, water	46	67
3S/35E-21baa. Jose Martin. Drilled by Jack Cushman. Elevation 4483 feet. Casing: 6-inch to 87 feet. Total depth 94 feet.		
Dry brown clay	0	3
Sand and gravel	3	80
Light clay	80	87
Gray basalt and red cinders	87	94



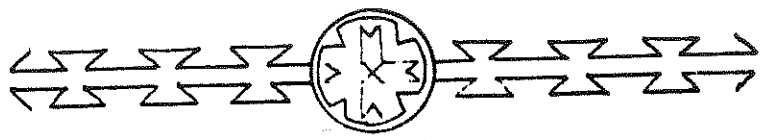


WELL LOGS - FORT HALL INDIAN RESERVATION

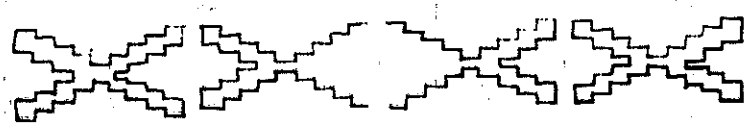
Materials	Depth From	Depth To
3S/35E-24cd. Shoshone Bannock Tribes. Elevation 4837 feet. Casing: 6-inch to 20 feet. Total depth 356 feet.		
Soil	0	3
Lava	3	155
Clay and boulders	155	350
Sand and gravel	350	356
3S/35E-30bcc. Beverly Wadsworth. Drilled by Jack Cushman, 1970. Elevation 4465 feet. Casing: 6-inch. Total depth 71 feet.		
Gravel	0	7
Sand and gravel	7	47
Brown clay	47	49
Gravel, water	49	71
3S/35E-32cbb. Dan Evening. Drilled by Jack Cushman, 1974. Elevation 4469 feet. Casing: 6-inch to 94 feet. Total depth 100 feet.		
Top soil	0	2
Sand and gravel	2	26
Brown clay	26	36
Brown clay and gravel	36	94
Gray basalt and cinders	94	100
3S/36E-1ca. Eugene Parrish. Drilled by Barrus Drilling and Pump. Casing: 6-inch to 73 feet. Total depth 73 feet.		
Sand	0	15
Gravel, water	15	73

Materials	Depth From	Depth To
3S/36E-2ad. Shoshone Bannock Tribes. Elevation 4588 feet. Casing: 8-inch. Total depth 185 feet.		
Pit	0	7
Sand, hard	7	47
Clay (gumbo)	47	62
Gravel, coarse, hard; some water	62	71
Quicksand	71	89
Clay	89	102
Sand, some water	102	103
Clay	103	168
Clay, blue, and sand; some water	168	175
Gravel; well began to flow about 2.5 gpm	175	185
3S/36E-3bb. Bob Baldwin. Drilled by Doug Cushman, 1972. Elevation 4540 feet. Casing: 6-inch to 65 feet. Total depth 80 feet.		
Clay	0	18
Clay and gravel, water	18	25
Sand, water	25	61
Sandstone, water	61	80
3S/36E-14db. J. Frank Thorpe, 1954. Elevation 4670 feet. Casing: 18-inch to 205 feet. Total depth 268 feet.		
Dirt	0	22
Sand	22	26
Sandrock, soft	26	28
Sand, blue, heavy	28	40
Clay, blue	40	43
Sand, gray	43	48
Clay, blue	48	52
Gravel, water-bearing	52	54
Sand, gray	54	57
Gravel, fine	57	58
Gravel, coarse, water-bearing	58	67

Materials	Depth From	Depth To
3S/36E-14db. --Continued.		
Sandrock	67	69
Clay, blue	69	82
Clay, blue, sandy	82	110
Clay, blue, with gravel	110	117
Clay, red, sandy	117	142
Gravel, water-bearing	142	145
Rock, gray, soft	145	166
Limestone, sand, and gravel	166	172
Clay, yellow, hard	172	181
Shale, gray, hard	181	257
Shale, yellow	257	263
Shale, brown, rusty	263	268
3S/36E-24ac. Tom Cosgrove. Elevation 4725 feet. Casing: 6-inch to 80 feet. Total depth 116 feet.		
Gravel	0	34
Clay	34	60
Clay and boulders	60	66
Rock	66	113
Crevice	113	116
3S/36E-28aa. Shoshone Bannock Tribes, 1955. Elevation 4900 feet. Casing: 6-inch to 27 feet. Total depth 200 feet.		
Soil	0	25
Gravel	25	27
Rock	27	90
Shale	90	165
Sandrock	165	174
Rock, solid to broken	174	200

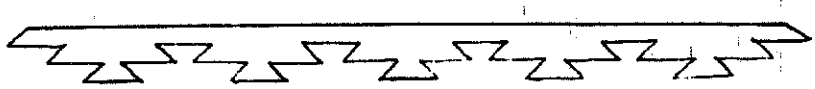


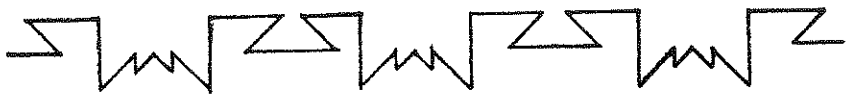
Materials	Depth From	Depth To
3S/37E-7cc. Shoshone Bannock Tribes, 1955. Elevation 4909 feet. Casing: 6-inch to 150 feet. Total depth 268 feet.		
Clay and lime shale	0	150
Lime rock, struck water at 240 feet	150	268
4S/34E-1ab. Shoshone Bannock Tribes, 1952. Elevation 4459 feet. Casing: 6-inch. Total depth 68 feet.		
Top soil	0	3
Dirt, sand, and gravel, mixed	3	13
Sand and gravel	13	45
Dirt, sand, and gravel, mixed, water-bearing	45	48
Sand and gravel	48	60
Clay	60	63
Lava, broken, water-bearing	63	68
4S/34E-1ddd. Lavar Murdock. Drilled by Jack Cushman. Elevation 4459 feet. Casing: 8-inch to 60 feet. Total depth 94 feet.		
Sand and clay	0	7
Sand and gravel	7	39
Gravel	39	53
Sand, gravel	53	60
Gray basalt	60	77
Red basalt	77	88
Red cinders, water	88	94
4S/34E-3dd. Rosaline Johnnie. Drilled by Jack Cushman, 1971. Elevation 4445 feet. Casing: 6-inch to 121 feet. Total depth 121 feet.		
Dirt	0	21
Sand, gravel	21	43



Materials	Depth From	Depth To
4S/34E-3dd. --Continued.		
Sand, clay	43	69
Sand, clay, gravel, water	69	87
Sand, clay	87	101
Sandy clay	101	116
Gravel	116	121
4S/34E-5ccdc. U. S. Geological Survey. Drilled by A. J. Schoonover, 1955. Elevation 4405 feet. Casing: 6-inch to 31 feet. Total depth 31 feet.		
Soil	0	8
Gravel, water	8	14
Boulders, large, gravel and sand	14	25
Clay	25	30
Gravel, clean	30	31
4S/34E-11bab. Ken Bronco. Drilled by Jack Cushman, 1974. Elevation 4450 feet. Casing: 6-inch to 80 feet. Total depth 84 feet. Screened from 80 to 84 feet.		
Top soil	0	3
Sand and gravel	3	26
Light brown clay	26	46
Sand and gravel	46	84
4S/34E-11bba. Jose Diaz. Drilled by Jack Cushman. Elevation 4450 feet. Casing: 6-inch to 78 feet. Total depth 82 feet. Screened from 78 to 82 feet.		
Dry brown clay	0	8
Sand and gravel	8	26
Brown clay	26	40
Brown clay and gravel	40	51
Sand and gravel	51	82

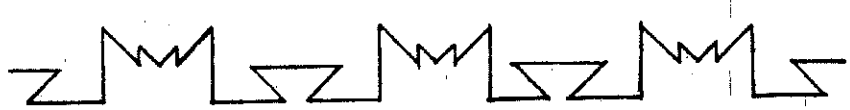
Materials	Depth From	Depth To
4S/34E-12bdba. Richard Williams. Drilled by Frandsen Brothers, 1969. Elevation 4453 feet. Casing: 16-inch, 12-inch to 204 feet. Total depth 475 feet.		
Clay and sand	0	3
Coarse gravel and sand	3	10
Coarse gravel and clay	10	37
Clay	37	41
Sand muddy coarse gravel, water	41	145
Gray loose lava, water	145	170
Broken, black lava, water	170	190
Loose gray lava	190	210
Hard gray lava	210	225
Clay loose lava	225	245
Firm gray lava	245	260
Very hard basalt	260	271
Clay	271	273
Gray lava	273	290
Hard basalt	290	315
Brown clay	315	320
Gray and red lava	320	325
Hard basalt	325	330
Hard gray lava	330	335
Very hard basalt	335	340
Red soft lava and clay	340	345
Red lava	345	370
Gray lava	370	377
Red clay	377	380
Soft gray lava	380	385
Red clay and soft red cinders lava	385	390
Hard gray lava	390	400
Very hard basalt	400	410
Red and clay	410	413
Cinders and red lava	413	416
Gray lava	416	420
Firm red lava	420	425
Firm gray lava	425	438
Clay	438	443
Soft broken red lava	443	460
Gray broken lava	460	475





WELL LOGS - FORT HALL INDIAN RESERVATION

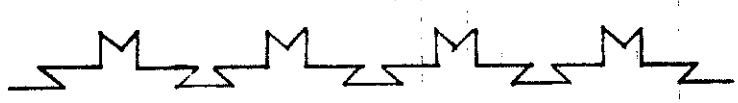
Materials	Depth From	Depth To
4S/34E-12dcbb. Richard Williams. Drilled by Jack Cushman, 1969. Elevation 4450 feet. Casing: 16-inch, 12-inch to 250 feet. Total depth 270 feet.		
Sandy gravel	0	25
Large gravel, water	25	37
Clay	37	46
Gravel, water	46	76
Gravel and clay	76	99
Hard gravel, water	99	108
Gravel and clay	108	133
Gravel and sand, water	133	144
Gray hard lava	144	169
Broken lava and clay	169	179
Hard lava	179	196
Broken lava and clay	196	222
Brown clay	222	245
Hard rock	245	249
Cinders, water	249	256
Hard cinders, no cuttings, water	256	270
4S/34E-13adab. Lavar Murdock. Drilled by Jack Cushman. Elevation 4446 feet. Casing: 16-inch, 12-inch to 265 feet. Total depth 400 feet.		
Clay-sand, gravel	0	23
Brown clay	23	38
Gravel-sand-clay	38	135
Black lava	135	200
Brown clay	200	212
Gray clay	212	218
Gray lava	218	225
Black lava	225	255
Red clay	255	265
Black lava	265	315
Gray lava	315	330
Redish lava	330	352
Hard black lava	352	357
Red and black lava	357	390
Lava and cinders, water	390	400



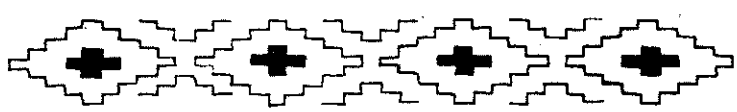
WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
4S/34E-13ddba. Lavar Murdock. Drilled by Jack Cushman. Elevation 4442 feet. Casing: 16-inch, 12-inch to 217 feet. Total depth 324 feet.		
Gravel	0	19
Clay	19	39
Gravel, water	39	47
Sandy gravel	47	122
Sandstone	122	144
Clay and rock	144	149
Hard gray lava	149	185
Clay	185	215
Hard gray lava	215	222
Gray cinders, water	222	230
Soft rocks	230	237
Lava, cinders, water	237	246
Hard gray basalt	246	257
Cinders, water	257	260
Gray lava	260	274
Gray cinders, chalk	274	281
Gray basalt	281	301
Hard gray basalt	301	309
Red cinders, water	309	324
4S/34E-14cacd. Jerry Twiggs. Drilled by Jack Cushman, 1969. Elevation 4444 feet. Casing: 16-inch to 211 feet. Total depth 305 feet.		
Sand and clay	0	2
Fine gravel	2	36
Blue clay	36	48
Gravel, water	48	203
Brown clay	203	211
Hard gray basalt	211	247
Red cinders, water	247	250
Black basalt	250	270
Streaks of basalt and cinders, water	270	298
Cinders, water	298	305

Materials	Depth From	To
4S/34E-21cdaa. George Shiozawa. Drilled by Melvin Durfee. Elevation 4435 feet. Casing: 16-inch to 225 feet. Total depth 380 feet.		
Sand	0	25
Gravel	25	50
Sand	50	70
Clay	70	90
Sand clay	90	125
Gravel sand	125	150
Gravel	150	180
Gravel sand	180	225
Broken lava	225	255
Lava	255	270
Cinders	270	275
Lava	275	300
Lava cinders	300	367
Lava	367	380
4S/34E-21dada. George Shiozawa. Drilled by Melvin Durfee. Elevation 4434 feet. Casing: 16-inch, 12-inch to 230 feet. Total depth 370 feet.		
Sand	0	30
Gravel	30	60
Clay sand	60	85
Gravel	85	95
Gravel sand	95	120
Gravel	120	180
Sand	180	225
Lava	225	230
Lava, sand	230	280
Lava	280	295
Lava, sand	295	325
Lava	325	370



Materials	Depth From	Depth To
4S/34E-22aacc. Blaine Van Orden. Drilled by Jack Cushman, 1969. Elevation 4440 feet. Casing: 16-inch to 224 feet. Total depth 355 feet.		
Gravel and sand	0	22
Green clay	22	38
Clay and gravel, water	38	42
Clay and gravel	42	90
Sand, gravel and clay, water	90	98
Sand and gravel	98	129
Sand, gravel and clay	129	165
Sand and gravel, water	165	188
Sand, gravel, clay	188	208
Gravel and sand, water	208	212
Clay	212	222
Soft brown lava	222	232
Hard black lava	232	235
Soft lava	235	250
Clay	250	252
Lava	252	272
Hard lava and streaks of cinder	272	312
Cinders, water	312	337
Black lava, hard	337	347
Cinders, water	347	355
4S/34E-22da. Blaine Van Orden. Drilled by Jack Cushman, 1969. Elevation 4438 feet. Casing: 16-inch to 160 feet. Total depth 355 feet.		
Sand	0	12
Brown clay	12	35
Blue clay	35	50
Gravel	50	60
Gravel and sand	60	80
Clay	80	90
Gravel, water	90	105
Gravel and sand	105	115
Gravel and sand, water	115	129
Sand-clay-gravel	129	152

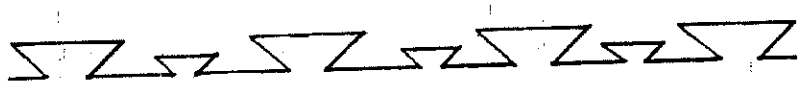


Materials	Depth From	Depth To
4S/34E-22da. --Continued.		
Gravel-clay	152	160
Black basalt	160	175
Black cinders	175	178
Hard gray basalt	178	203
Clay	203	205
Cinders, water	205	208
Medium-hard basalt	208	221
Black and red cinders	221	240
Hard basalt	240	257
Cinders, water	257	273
Cinders lava and clay	278	315
Cinders, good water	315	320
Cinders and chalk	320	330
Lava	330	340
Cinders, water	340	355
4S/34E-23bdba. A & L Farms. Wanlass Well Drilling, 1969. Elevation 4442 feet. Casing: 16-inch to 216 feet. Total depth 320 feet.		
Gravel and clay	0	20
Clay	20	50
Gravel and sand, water	50	55
Clay gravel and sand	55	195
Brown clay and gravel	195	200
Clay and sand	200	216
Gray lava	216	250
Cinders	250	265
Gray lava	265	270
Cinders	270	275
Cinders, water	275	300
Brown clay	300	320
4S/34E-23cacc. A & L Farms. Drilled by Wanlass Well Drilling, 1970. Elevation 4439 feet. Casing: 16-inch to 178 feet. Total depth 330 feet.		
Sand	0	8
Gravel	8	14

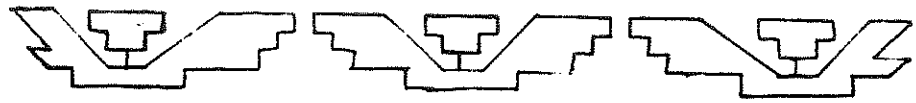
Materials	Depth From	Depth To
4S/34E-23cacc. --Continued.		
Clay and sand, water	14	48
Gravel and clay	48	70
Gravel clay and sand, water	70	90
Gravel and clay, water	90	178
Lava	178	290
Brown clay	290	294
Brown cinders, water	294	300
Black cinders, water	300	330
4S/34E-23ccca. Shoshone Bannock Tribes. Elevation 4430 feet. Casing: 6-inch to 55 feet. Total depth 55 feet.		
Sand, fine-grained	0	13
Gravel, small	13	17
Shale, sandy	17	37
Gravel, small, water-bearing	37	38
Clay, blue	38	49
Gravel, coarse	49	55
4S/34E-23dacc. A & L Farms. Total depth 265 feet.		
Sand	0	10
Gravel and sand	10	18
Clay	18	26
Gravel and sand	26	75
Hard gravel	75	95
Gravel and clay	95	130
Hard gravel and clay	130	160
Sandy clay and gravel	160	170
Sand lava	170	183
Hard lava	183	203
Black cinders, water	203	205
Gray lava	205	210
Cinders, water	210	212
Sticky clay	212	213
Gray lava	213	257
Cinders, water	257	265

WELL LOGS - FORT HALL INDIAN RESERVATION

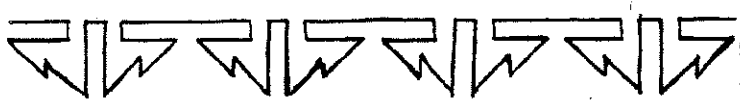
Materials	Depth From	Depth To
4S/34E-24abdd. Jerry Twiggs. Drilled by Jack Cushman, 1969. Elevation 4443 feet. Casing: 16-inch to 154 feet. Total depth 270 feet.		
Dirt-sand	0	4
Sand, gravel	4	21
White clay	21	40
Sand, gravel, water	40	63
Gravel and clay	63	67
Large gravel, water	67	101
Small gravel, water	101	140
Sand gravel, water	140	154
Hard gray basalt	154	182
Hard red basalt	182	196
Hard gray basalt	196	204
Hard red basalt	204	230
Hard gray basalt	230	246
Hard red basalt, streaks of clay	246	255
Cinders, streaks of soft basalt, water	255	270
4S/34E-24bcbb. A & L Farms, 1970. Elevation 4440 feet. Casing: 16-inch to 190 feet. Total depth 300 feet.		
Sand	0	6
Gravel	6	35
Clay	35	40
Clay gravel sand	40	55
Gravel, water	55	60
Clay and gravel	60	140
Clay and gravel coaser	140	150
Clay gravel	150	173
Loose lava	173	180
?	180	190
Hard gray lava	190	205
Red lava	205	215
Gray lava	215	285
Cinders, water	285	300



Materials	Depth From	Depth To
4S/34E-25bc. Shoshone Bannock Tribes. Drilled by Dubbe Drilling, 1975. Elevation 4430 feet. Casing: 8-inch to 99 feet. Total depth 99 feet.		
Sand, water	0	17
Clay	17	48
Sand, water	48	82
Fine gravel, water	82	83
Sand, water	83	97
Fine gravel, water	97	99
4S/34E-27aabb. Blaine Van Orden. Drilled by Jack Cushman, 1969. Elevation 4435 feet. Casing: 16-inch to 190 feet. Total depth 330 feet.		
Sand, gravel	0	22
Clay	22	43
Sand and gravel, water	43	71
Brown clay	71	82
Sandy gravel, water	82	103
Sand, clay, gravel	103	125
Sand, gravel	125	172
Sand, gravel clay	172	178
Brown clay and sand	178	187
Broken lava	187	226
Clay and cinders, water	226	229
Gray lava	229	247
Broken lava, cinders, water	247	261
Hard gray lava	261	290
Broken lava, cinders, water	290	311
Gray lava and cinders	311	320
Black cinders, water	320	330
4S/34E-27ccaa. B & L Farms. Drilled by Wanlass Well Drilling. Elevation 4425 feet. Casing 16-inch, 12-inch to 273 feet. Total depth 350 feet.		
Sand	0	16
Sand and clay, water	16	37



Materials	Depth From	Depth To
4S/34E-27ccaa. --Continued.		
Gravel, water	37	80
Sand, water	80	95
Sand and gravel, water	95	154
Lava	154	184
Lava streaks and cinders, water	184	220
Clay	220	226
Lava, streaks of cinders, water	226	273
?	273	350
4S/34E-27dacc. B & L Farms. Drilled by Wanlass Well Drilling. Elevation 4431 feet. Casing: 16-inch, 12-inch to 240 feet. Total depth 308 feet.		
Sand	0	10
Clay and sand	10	22
Blue clay	22	37
Gravel, water	37	46
Gravel, sand, water	46	64
Clay, sand, gravel, water	64	80
Gravel, water	80	160
Clay	160	170
Clay loose lava	170	173
Black lava	173	183
Cinders and clay, water	183	185
Black lava	185	193
Cinders, water	193	197
Cinders and loose lava, water	197	225
Loose lava and cinders, water	225	240
Cinders and loose lava, water	240	308
4S/34E-28badd. Blaine Van Orden. Drilled by Jack Cushman, 1969. Elevation 4427 feet. Casing: 16-inch to 181 feet. Total depth 368 feet.		
Sand	0	21
Clay	21	33



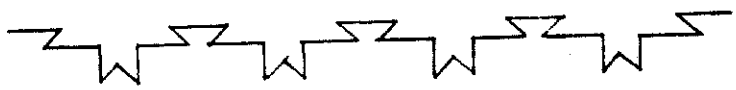
Materials	Depth From	Depth To
4S/34E-28badd. --Continued.		
Sand and gravel, water	33	69
Sand and gravel, clay	69	85
Sandstone	85	99
Sand and gravel, water	99	118
Sandstone	118	138
Clay	138	145
Sand gravel and clay, water	145	147
Sandstone	147	181
Broken lava	181	186
Gray lava	186	214
Cinders and clay	214	225
Broken lava	225	248
Streak cinder, basalt, water	248	285
Cinders, water	285	308
Brown cinders	308	324
Cinders, water	324	335
Brown hard lava	335	352
Red cinders	352	368
4S/34E-28cbdd. B & L Farms. Drilled by Wanlass Well Drilling Elevation 4420 feet. Casing: 16-inch, 12-inch to 235 feet. Total depth 300 feet.		
Sand	0	10
Clay and sand, water	10	30
Clay, sand, gravel, water	30	40
Sand and gravel, water	40	170
Lava	170	230
Loose lava, water	230	235
Lava	235	270
Cinders, water	270	300
4S/34E-29ac. Larry Martin. Drilled by Intermountain Drilling, 1973. Elevation 4425 feet. Casing 16-inch to 199 feet. Total depth 310 feet.		
Clay and sand	0	12
White clay	12	42

Materials	Depth From	Depth To
4S/34E-29ac. --Continued.		
Sand gravel	42	75
Coarse gravel, water	75	130
Muddy gravel	130	145
Sand	145	150
Sand, gravel and clay	150	155
Muddy gravel, water	155	196
Gray lava, water	196	205
Red lava	205	225
Very hard basalt	225	230
Red lava	230	253
Red clay, soft cinders	253	257
Red lava, water	257	260
Black lava, water	260	275
Black lava, water	275	310
4S/34E-32bbdd. B & L Farms. Drilled by Wanlass Well Drilling, 1967. Elevation 4420 feet. Casing: 16-inch to 187 feet. Total depth 250 feet.		
Sand, water	0	22
Silt	22	30
White clay	30	41
Sand and gravel, water	41	60
Sandy brown clay, water	60	90
Sand and gravel, water	90	178
Sand, water	178	180
Soft broken lava, water	180	186
Black lava	186	223
Red cinders, water	223	230
Red cinders and clay, water	230	236
Red lava	236	240
Red cindery lava, water	240	244
Black cindery lava, water	244	248
Black hard lava	248	250
4S/34E-35dabc. Elizabeth Marsh. Drilled by Douglas Cushman, 1964. Elevation 4448 feet. Casing: 6-inch to 56 feet. Total depth 56 feet.		
Sand	0	36

Materials	Depth From	Depth To
4S/34E-35dabc. --Continued.		
Coarse sand	36	42
Sandy clay	42	53
Coarse sand and water	53	56
4S/34E-36baab. Jimmy Dann. Drilled by Jack Cushman, 1970. Elevation 4445 feet. Casing: 6-inch to 70 feet. Total depth 70 feet.		
Sand	0	15
Sand, clay	15	30
Clay gravel	30	57
Gravel, sand	57	60
Gravel	60	70
4S/34E-36dcb. Sam Hutchinson. Drilled by Jack Cushman, 1975. Elevation 4458 feet. Casing: 6-inch to 90 feet. Total depth 100 feet.		
Clay	0	21
Sand and gravel	21	26
Sand	26	28
Sandy brown clay	28	85
Light clay	85	90
Gray basalt and streaks of red cinders	90	100
4S/35E-6ba. Shoshone Bannock Tribes. Elevation 4470 feet. Casing: 6-inch. Total depth 70 feet.		
Soil, sandy	0	20
Lava, boulders	20	26
Lava, blue, solid	26	36
Lava, red	36	40
Lava, solid	40	67
Lava, red, water-bearing	67	70

WELL LOGS - FORT HALL INDIAN RESERVATION

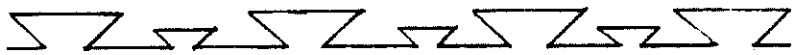
Materials	Depth From	Depth To
4S/35E-6ccaa. Lavar Murdock. Drilled by Jack Cushman. Elevation 4504 feet. Casing: 16-inch to 22 feet. Total depth 140 feet.		
Sand and clay	0	5
Gravel	5	22
Red basalt	22	34
Dry cinders	34	41
Red basalt (crevices)	41	53
Dry cinders	53	67
Red basalt (crevices)	67	79
Dry cinders	79	88
Red basalt	88	98
Crevices and cinders	98	105
Red basalt	105	127
Basalt and cinders	127	140
4S/35E-7bcaa. Lavar Murdock. Drilled by Jack Cushman, 1970. Elevation 4457 feet. Casing: 18-inch to 18 feet. Total depth 105 feet.		
Sand and clay - gravel	0	18
Gray basalt	18	38
Red basalt	38	43
Red cinders	43	47
Red basalt with brown clay	47	93
Black cinders	93	105
4S/35E-7ccbb. Lavar Murdock. Drilled by Jack Cushman, 1969. Elevation 4449 feet. Casing: 16-inch to 227 feet. Total depth 535 feet.		
Sandy gravel	0	18
Clay	18	32
Sand and gravel	32	68



Materials	Depth From	Depth To
4S/35E-7ccbb. --Continued.		
Gravel	68	186
Sand and gravel	186	221
Hard gray basalt	221	231
Gray cinders	231	234
Gray basalt	234	247
Gray cinders	247	251
Hard gray basalt	251	277
Gray cinders - brown chalk	277	281
Hard gray basalt	281	328
Red clay	328	333
Soft basalt	333	348
Hard gray basalt	348	392
Soft basalt	392	395
Gray basalt	395	412
Red cinders and chalk	412	422
Hard gray basalt	422	504
Cinders	504	512
Green lava, hard	512	518
Green clay	518	527
Lava and cinders	527	535

4S/35E-7dcba. Lavar Murdock.
Drilled by Jack Cushman, 1970.
Elevation 4446 feet. Casing 16-inch to 131 feet, 12-inch 128 feet to 203 feet.
Total depth 228 feet.

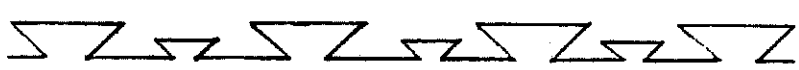
Sandy gravel	0	26
Brown clay	26	38
Sandy gravel	38	131
Gray firm basalt	131	164
Brown clay	164	201
Hard gray basalt	201	211
Cinders	211	214
Hard gray basalt	214	222
Cinders	222	228



Materials	Depth From	Depth To
4S/35E-8cabc. Russett Potato Co. Drilled by Charles Frandsen, 1966. Elevation 4472 feet. Casing: 16-inch to 33 feet. Total depth 80 feet.		
Sand and clay	0	15
Clay	15	32
Soft lava	32	40
Hard gray lava	40	45
Soft red lava	45	55
Red cinders	55	80
4S/35E-12bddd. Shoshone Bannock Tribes. Drilled by M. L. Beath, 1935. Elevation 4705 feet. Casing: 6-inch to 65 feet. Total depth 280 feet.		
Sand	0	8
Sandy clay	8	62
Gray lava	62	90
Red lava	90	155
Gray very hard lava	155	260
Open broken lava - water flow	260	265
Gray lava	265	275
Open broken lava - water	275	280
4S/35E-13dbaa. Clair Kracaw. Drilled by Findley's Well Drilling, 1968. Elevation 4677 feet. Casing: 16-inch to 255 feet/ Total depth 395 feet.		
Clay and gravel	0	72
Light gray basalt	72	150
Black cinders - caving	150	165
Black basalt	165	190
Red basalt	190	220
Broken red basalt - red cinders	220	255
Hard gray basalt	255	270
Hard light basalt - dry	270	284
Red cinders - wet	284	290
Brown ash - dry	290	340
Gray ash, black ash, clay cinders and gravel - dry	340	375
Conglomeration - dry	375	395

Materials	Depth From	To
4S/35E-17ccaa. Sim Johnson. Drilled by Paul Frandsen, 1966. Elevation 4429 feet. Casing: 16-inch to 85 feet. Total depth 87 feet.		
Clay	0	15
Gravel and clay	15	30
Sand and gravel	30	35
Sand and gravel	35	65
Clay	65	75
Gravel and clay	75	85
Lava	85	87
4S/35E-17ddaa. Sim Johnson. Drilled by Paul Frandsen. Elevation 4475 feet. Casing: 16-inch to 49 feet. Total depth 87 feet.		
Clay	1	49
Lava	49	65
Lava	65	67
Cinders and loose rock	67	87
4S/35E-18acbb. Lavar Murdock. Drilled by Jack Cushman, 1969. Elevation 4447 feet. Casing: 16-inch to 177 feet. 12-inch - 215 to 254 feet. Total depth 466 feet.		
Gravel	0	20
Brown clay	20	37
Gravel	37	123
Firm coarse gravel	123	160
Sand and gravel	160	172
Brown clay	172	176
Hard basalt	176	190
Red clay and chalk	190	194
Gray basalt	194	222
Soft red rock	222	225
Red and brown clay	225	248

Materials	Depth From	Depth To
4S/35E-18acbb. --Continued.		
Hard gray basalt	248	255
Gray cinders	255	258
Gray basalt	258	271
Soft rock	271	274
Clay and cinders	274	287
Rock	287	289
Clay	289	293
Lava	293	313
Cinders	313	332
Soft gray basalt	332	351
Brown clay	351	356
Soft gray basalt	356	399
Gray cinders	399	405
Gray basalt	405	438
Red basalt	438	443
Red basalt - streaks of clay	443	466
4S/35E-18cdab. Lavar Murdock. Drilled by Jack Cushman. Elevation 4440 feet. Casing: 16-inch to 124 feet. Total depth 265.		
Dirt and gravel	0	15
Brown clay	15	30
Clay and gravel, water	30	40
Sand and gravel, water	40	123
Black basalt	123	152
Red basalt	152	176
Black basalt	176	207
Streaks of rock and cinders, water	207	230
Hard gray basalt	230	260
Black cinders	260	265
4S/35E-19bcbb. Larry Watt. Drilled by Duane Denning Well Drilling. Elevation 4439 feet. Casing: 16-inch to 125 feet. Total depth 310 feet.		
Sand	0	5



Materials	Depth From	Depth To
4S/35E-19bcbb. --Continued.		
Gravel	5	12
Clay and gravel, water	12	32
Gravel and clay	32	63
Brown clay	63	67
Gravel with clay	67	104
Black sand	104	108
Coarse gravel	108	123
Black lava	123	150
Red lava	150	178
Clay with rock streaks	178	203
Very hard rock	203	220
Black and red lava	220	250
Black and red lava with cinders and water	250	310
4S/35E-22ac. Shoshone Bannock Tribes, 1941. Elevation 4670 feet. Casing: 6-inch to 93 feet. Total depth 260 feet.		
Clay	0	88
Lava, gray	88	120
Lava, red	120	148
Lava, gray, hard	148	256
Gravel	256	260
4S/35E-24abcb. Clair Kracaw. Drilled by Bill Findlay. Elevation 4670 feet. Casing: 20-inch, 18-inch to 121 feet. Total depth 349 feet.		
Sand and clay	0	6
Gravel	6	30
Clay	30	35
Sand	35	40
Large gravel, cobblestone	40	78
Gray rhiolite	78	83
Cinders broken lava	83	110
Rhiolite	110	135
Brown lava	135	200
Red lava	200	228
Rhiolite, water	228	270
Brown lava, water	270	285
Red lava	285	295
Brown ash, cinders with gravel	295	349

Materials	Depth From	
4S/35E-24cacd. Clair Kracaw. Drilled by Bill Findlay. Elevation 4652 feet. Casing: 12-inch to 65 feet. Total depth 375 feet.		
Topsoil	0	65
Grey lava	65	105
Red lava	105	110
Grey lava	110	130
Grey cinders	130	135
Grey lava	135	145
Broken grey lava	145	170
Brown lava	170	175
Grey lava	175	185
Red cinders	185	190
Broken red lava	190	195
Grey lava	195	200
Red cinders, water	200	205
Broken red lava, water	205	215
Grey lava	215	225
Broken lava and cinders, water	225	235
Black lava, water	235	240
Red cinders, water	240	245
Grey lava, water	245	260
Clay cinders and gravel, water	260	325
Grey lava	325	355
Black and red cinders, water	355	375
4S/35E-24daaa. Clair Kracaw. Drilled by Bill Findlay, 1966. Elevation 4690 feet. Casing 20-inch to 75 feet. Total depth 400 feet.		
Topsoil	0	4
Clay and gravel	4	30
Clay	30	50
Clay and gravel	50	75
Gray lava	75	90
Red lava	90	97
Brown lava	97	102
Black lava	102	107

Materials	From	To
4S/35E-24daaa. --Continued		
Black cinders	107	112
Black broken lava	112	115
Red lava	115	180
Red cinders	180	185
Black and grey lava	185	222
Large red cinders	222	230
Grey lava	230	250
Red lava	250	270
Grey lava	270	275
Cinders and clay	275	295
Broken black lava	295	300
Cinders clay broken lava	300	320
Very hard clay	320	325
Clay cinders broken lava	325	330
Red lava	330	350
Red cinders	350	352
Broken lava and black cinders	352	375
Broken black sandstone and cinder	375	400

4S/35E-25bdcb. Clair Kracaw.
Drilled by Bill Findlay, 1965.
Elevation 4648 feet.
Total depth 450.

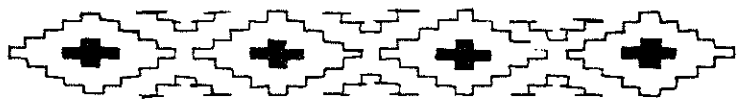
Top soil	0	2
Hardpan clay	2	7
Gravel	7	12
White clay	12	18
Grey lava	18	35
Red-brown lava	35	70
Sandstone	70	78
Light red lava	78	95
Red-brown lava	95	100
Reddish cinders	100	104
Red brown lava	104	130
Broken grey lava	130	138
Broken grey lava	138	142
Cinders	142	148
Broken grey lava	148	155

Materials	Depth From	
4S/35E-25bdcb. --Continued		
Broken grey lava	155	165
Red cinders	165	170
Grey lava cinders	170	183
Water, grey lava	183	195
Red cinders	195	200
Hard lava, black	200	212
Red cinders	212	215
Hard grey lava	215	220
Red and grey cinders	220	233
Grey cinders, lava	233	241
Grey porous chalk lava	241	246
Red chalk cinders	246	258
Hard grey lava	258	263
Broken lava	263	268
Red porous lava	268	273
Grey black lava	273	280
Grey lava and sandstone	280	300
Grey lava and sandstone	300	312
Grey lava	312	315
Red lava	315	334
Grey lava	334	345
Grey sandstone	345	350
Grey lava	350	355
Hard grey lava	355	363
Broken sandstone and grey cinders	363	370
Broken grey lava	370	380
Broken grey lava	380	395
Broken red-brown lava	395	405
Broken red cinders	405	415
Brown clay	415	420
Brown clay and gravel	420	450

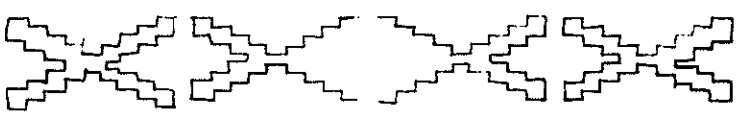
4S/35E-33db. Marcella Punkin.
Drilled by Cushman & Denning, 1973.
Casing 6-inch to 200 feet.
Total depth 250 feet.

Topsoil	0	15
Fine gravel	15	53

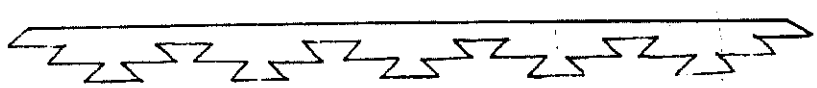
Materials	Depth From	Depth To
4S/35E-33db. --Continued		
Clay and fine gravel	53	125
Clay	125	220
Sandstone and conglomerate	220	250
4S/35E-34cab. Shooting Range. Drilled by Cushman & Denning. Casing 6-inch to 226 feet. Total depth 250 feet.		
Topsoil	0	11
Grey basalt and crevices	11	60
Red basalt	60	86
Medium hard grey basalt	86	135
Brown clay	135	170
Basalt	170	250
4S/35E-35aaa. Dwight Osborne. Drilled by Cushman & Denning, 1973. Elevation 4645 feet. Casing 6-inch to 32 feet. Total depth 210 feet.		
Topsoil	0	3
Clay	3	21
Gravel with water	21	27
Clay with water	27	32
Hard grey lava	32	51
Dark grey lava	51	63
Red lava	63	156
Clay	156	161
Red lava	161	210
4S/35E-36bbb. James Ingawanup. Drilled by Lois Grindrod, 1964. Elevation 4645 feet. Total depth 36 feet.		
Sandy soil	0	4
Hardpan	4	6

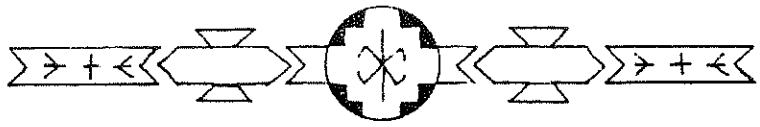


Materials	Depth From	Depth To
4S/35E-36bbb. --Continued		
Sandy clay	6	21
Gravel, boulders, water	21	29
Mountain rock	29	36
4S/36E-12aa. Shoshone-Bannock Tribes, 1937. Elevation 5170 feet. Casing 6-inch to 60 feet. Total depth 256 feet.		
Clay	0	54
Rock, black	54	57
Shale, brown	57	80
Rock, lime	80	120
Shale, lime	120	195
Lime, rock	195	256
4S/36E-18caad. Clair Kracaw. Drilled by Bill Findlay, 1966. Elevation 4720 feet. Casing 18-inch to 200 feet. Total depth 375 feet.		
Topsoil and clay	0	80
Hard gray lava	80	115
Broken gray lava	115	117
Black lava	117	135
Red lava	135	148
Red cinders	148	155
Gray lava	155	180
Broken lava and cinders	180	210
Red lava	210	240
Hard gray lava	240	275
Red clay and cinders	275	300
Soft red lava	300	355
Red cinders	355	360
Red lava	360	375



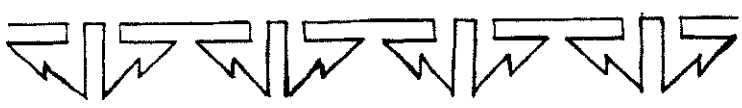
Materials	Depth From	Depth To
4S/36E-18cccc. Clair Kracaw. Drilled by Bill Findlay, 1965. Elevation 4695 feet. Casing 20-inch to 75 feet. Total depth 375 feet.		
Topsoil	0	7
Hardpan clay	7	14
Clay and gravel	14	17
Clay and gravel	17	25
Brown clay	25	73
Brown clay and loose lava	73	75
Gray lava	75	86
Red cinders	86	90
Loose red cinders and crevices	90	115
Reddish brown lava	115	125
Reddish brown lava	125	132
Red cinders	132	145
Red and brown cinders and clay	145	160
Red and brown cinders and clay	160	170
Gray and brown cinders (ash) and yellow clay	170	185
Red cinders, lava, and clay	185	200
Red cinders, lava, and clay	200	210
Red cinders and clay	210	220
Red cinders and clay	220	230
Red and gray cinders, traces of pea gravel and clay	230	240
Gray cinders and lava, traces of gravel and clay	240	250
Gray lava and black cinders, first water	250	260
Gray lava and black cinders	260	270
Gray lava and black cinders	270	290
Gray black lava, broken and porous	290	300
Gray black lava, broken and porous	300	318
Gray lava and layers of white clay, some water	318	325
Gray lava and layers of white clay	325	330
Gray lava, layers of white and brown clay and pea gravel	330	335
Brown lava with gravel and clay	335	345
Brown lava with gravel and clay	345	355
Gray lava and black cinders, water	355	360
Gray lava and black cinders, water	360	375

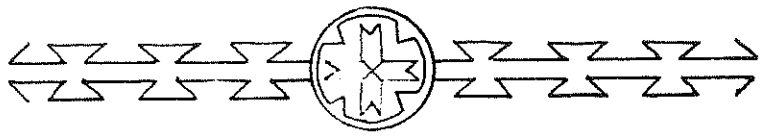




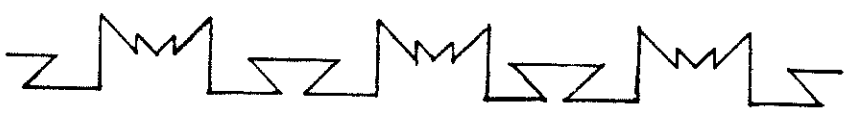
WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
4S/36E-19cbcb. Shoshone-Bannock Tribes. Drilled by M. L. Beath, 1936. Elevation 4695 feet. Casing 6-inch to 60 feet. Total depth 273 feet.		
Soil	0	53
Lava, struck water at 258 feet	53	263
Burnt cinders	263	273
4S/36E-19dbbb. Clair Kracaw. Drilled by Bill Findley, 1968. Elevation 4730 feet. Casing 20-inch to 75 feet, 16-inch to 255 feet. Total depth 395 feet.		
Clay and gravel	0	72
Light gray basalt	72	150
Black cinders, caving	150	165
Black basalt	165	190
Red basalt	190	220
Broken red basalt and cinders	220	255
Hard gray basalt	255	270
Hard light basalt	270	284
Red cinders, water	284	290
Brown ash	290	340
Gray ash, black ash, clay, cinders, and gravel	340	375
Conglomeration	375	395
4S/36E-20bcbd. Clair Kracaw. Drilled by Bill Findley, 1966. Elevation 4785 feet. Casing 20-inch to 120 feet. Total depth 400 feet.		
Topsoil, clay and gravel	0	110
Gray lava	110	140
Red lava	140	145
Gray lava	145	185
Red lava	185	240

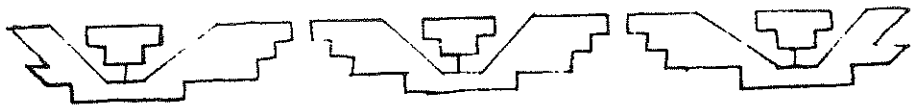




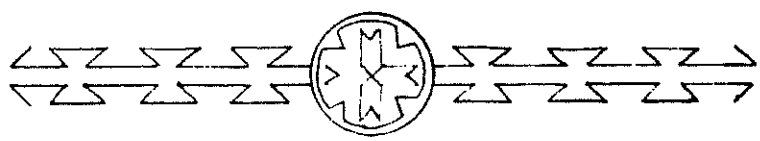
Materials	Depth From	Depth To
4S/36E-20bcbd. --Continued		
Gray lava	240	255
Cinders, gravel and sand	255	330
Gravel, some water	330	335
Clay	335	375
Gravel, sand, lava, and cinders	375	400
4S/36E-30cbc. Clair Kracaw. Elevation 4770 feet. Casing 6-inch to 125 feet. Total depth 335 feet.		
Clay	0	125
Gray lava	125	274
Cinders	274	284
Red lava	284	305
Red cinders, water	305	335
4S/36E-31bdc. LaVida Brown. Drilled by Cushman & Denning, 1973. Elevation 4705 feet. Casing 6-inch to 30 feet. Total depth 250 feet.		
Topsoil	0	3
Brown clay and gravel	3	24
Brown clay	24	30
Gray basalt and streaks of red cinders	30	150
Medium hard basalt	150	236
Sandstone and small gravel	236	250
4S/36E-32ad. Victor Truchot. Elevation 4787 feet. Casing 6-inch to 43 feet. Total depth 145 feet.		
Topsoil	0	5
Clay	5	43
Lava rock	43	145



Materials	Depth From	Depth To
4S/36E-32adb. Victor Truchot. Drilled by Jack Cushman, 1974. Elevation 4787 feet. Casing 6-inch to 360 feet. Total depth 366 feet.		
Dry brown clay	0	18
Brown clay and gravel	18	48
Gray basalt and dry cinders	48	153
Broken rock and clay	153	161
Brown clay	161	194
Brown clay and fine gravel	194	208
Streaks of brown clay and white chalk	208	360
Mountain rock	360	366
4S/36E-32bbd. Milo Brunette. Drilled by Cushman & Denning, 1964. Elevation 4740 feet. Casing 6-inch to 37 feet. Total depth 100 feet.		
Soil	0	5
Boulders	5	25
Tan clay, seep at 35 feet	25	37
Lava rock - broken	37	80
Hard lava	80	85
Broken lava, red cinders, caving	85	95
Cinder lava	95	100
4S/36E-32cbb. Carl Wenee, 1964. Elevation 4730 feet. Casing 6-inch to 11 feet. Total depth 160 feet.		
Soil	0	8
Gravel	8	11
Gray lava rock	11	25
Brown lava, broken	25	112
Hard gray lava	112	128
Red cinder lava, water	128	158
Dark brown cinders	158	160



Materials	Depth From	Depth To
4S/36E-32ccc. McMannus Broncho. Drilled by Jack Cushman, 1964. Elevation 4765 feet. Casing 6-inch to 117 feet. Total depth 210 feet.		
Dirt	0	7
Brown clay	7	59
Boulders and clay, brown	59	68
Yellow clay and boulders	68	74
Brown clay	74	95
Brown clay and sand, some water	95	117
Lava rock	117	140
Rock and cinders	140	143
Black lava rock	143	158
Red lava and crevices	158	165
Hard lava rock	165	210
4S/36E-33. Shoshone-Bannock Tribes. Drilled by Cushman and Richards, 1978. Elevation 4840 feet. Casing 12-inch, 10-inch to 500 feet. Total depth 500 feet.		
Brown silt	0	28
Gravel	28	50
Brown clay and gravel	50	70
Hard gravel	70	100
Brown clay, sandy with hard streaks, some gravel	100	300
Brown clay	300	305
Hard gravel	305	320
Hard gravel and brown clay	320	465
Hard gravel	465	485
Brown clay and gravel	485	500
4S/37-16ab. Shoshone-Bannock Tribes. Elevation 5310 feet. Casing 6-inch to 154 feet. Total depth 154 feet.		
Clay and gravel	0	70
Sand rock	70	73



Materials	Depth From	Depth To
4S/37-16ab. --Continued		
Clay	73	87
Gravel, water-bearing	87	90
Clay	90	120
Gravel	120	122
Clay	122	146
Gravel	146	149
Clay	149	154
4S/37E-16ab2. Shoshone-Bannock Tribes. Elevation 5310 feet. Casing 6-inch to 303 feet. Total depth 345 feet.		
Silt and clay	0	70
Rock, gray, broken	70	71
Clay and shale, red	71	191
Shale with gravel, water-bearing	191	192
Shale, clay, red	192	307
Gravel, water-bearing	307	310
Shale and clay, red	310	345
5S/32E-36cddd. Lynn Thompson. Drilled by Paul Vollmer & Son, 1974. Elevation 4412 feet. Casing 16-inch to 225 feet. Total depth 225 feet.		
Surface gravel	0	23
Brown clay, water-bearing	23	50
Sand, gray	50	75
Clay, brown, sandy	75	124
Sand, brown	124	148
Sand, brown	148	160
Clay, brown, sandy	160	178
Gravel, water-bearing	178	215
Sand and clay, water-bearing	215	225

Materials	Depth From	Depth To
5S/33E-12cc. Marion Fielding. Drilled by Jack Cushman, 1972. Elevation 4405 feet. Casing 16-inch to 204 feet. Total depth 238 feet.		
Sandy clay	0	22
Brown sticky clay	22	36
Sandy gravel	36	104
Brown sand	104	115
Gravel - hard	115	195
Brown clay	195	198
Hard gray basalt	198	220
Reddish gray cinder, water-bearing	220	223
Hard gray basalt	223	229
Reddish cinder, water-bearing	229	238
5S/33E-24cacc. Pearl Oresco. Drilled by Cushman & Johnson, 1964. Elevation 4446 feet. Casing 6-inch to 154 feet. Total depth 154 feet.		
Sand	0	40
Clay	40	70
Light tan sand, little water	70	100
Tan sandy clay	100	110
Red sand	110	115
Reddish clay	115	125
Red sand	125	135
Gray sand	135	148
Sand and pea gravel, water-bearing	148	154
5S/33E-28ccbb. Lynn Thompson. Drilled by Paul Vollmer Jr., 1968. Elevation 4431 feet. Casing 18-inch to 210 feet. Total depth 210 feet.		
Topsoil	0	3
Gravel	3	30
Blue clay	30	60

Materials	Depth from	Depth to
5S/33E-28ccbb. --Continued		
Quicksand	60	65
Gravel, water-bearing	65	70
Quicksand	70	95
Blue clay	95	120
Brown clay	120	130
Brown sand	130	157
Gravel and sand, water-bearing	157	197
Blue sand	197	203
Large gravel, water-bearing	203	210
5S/33E-31dcdd. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4420.5 feet. Casing 16-inch to 217 feet. Total depth 217 feet.		
Topsoil	0	3
Sand and gravel	3	32
Blue clay	32	54
Gravel	54	55
Blue clay	55	107
Blue clay and sand	107	115
Brown clay and sand	115	155
Sand and gravel	155	168
Hard gravel and clay	168	175
Sand and gravel	175	184
Clay, gravel, and sand	184	202
Sandy gravel	202	207
Clay, gravel, and less sand	207	217
5S/33E-32acdd. Lynn Thompson. Drilled by Paul Vollmer Jr., 1968. Elevation 4428 feet. Casing 18-inch to 200 feet. Total depth 200 feet.		
Topsoil	0	2
Gravel	2	40

Materials	Depth from	Depth to
5S/33E-32acdd. --Continued		
Red clay	40	50
Blue clay	50	70
Red clay	70	80
Red sand	80	150
Blue clay	150	161
Gravel, water-bearing	161	200
5S/33E-32bcdd. Lynn Thompson. Drilled by Paul Vollmer Jr., 1968. Elevation 4422 feet. Casing 18-inch to 224 feet. Total depth 224 feet.		
Topsoil - clay	0	2
Gravel and coarse sand	2	35
Blue clay	35	60
Gravel	60	79
Quicksand	79	89
Blue clay	89	105
Yellow clay	105	120
Brown sand	120	135
Blue clay	135	140
Yellow clay	140	145
Gravel	145	165
Gravel, water-bearing	165	224
5S/33E-32dcdd. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4414 feet. Casing 16-inch to 206 feet. Total depth 214 feet.		
Topsoil	0	2
Clay and gravel	2	28
Blue clay	28	37
Sandy clay and water	37	45
Blue clay	45	52
Sandy, brown clay and little gravel and water	52	58

Materials	Depth (ft) From	To
5S/33E-32dcdd. --Continued		
Sandy, brown clay	58	71
Sand	71	78
Blue clay	78	94
Brown sand and water	94	120
Sand	120	123
Sandy brown clay	123	139
Clay and gravel	139	151
Clay, lots of gravel, some sand	151	181
Brown sandy clay	181	185
Gravel and sandstone	185	190
Sandstone	190	214
5S/33E-33cdcc. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4414 feet. Casing 16-inch to 225 feet. Total depth 225 feet.		
Clay topsoil	0	6
Gravel and big rocks	6	22
Gravel	22	25
Blue clay	25	52
Brownish gravel (sandy)	52	65
Sandy gravel (cavey)	65	76
Gray sticky clay	76	103
Real sandy brown clay	103	125
Sandy brown clay and streaks of sandstone	125	136
Clay and sandstone	136	144
Brown clay and gravel	144	153
Brown sandy clay and gravel	153	174
Sandy clay and small gravel	174	177
Sandstone and small gravel	177	188
Hard gravel and streaks of sandstone	188	192
Gravel and sandstone	192	200
Gravel and clay (caving)	200	213
Gravel and clay	213	218
Good hard gravel	218	223
Basalt	223	225

Materials	From	To
5S/33E-34ad. Shoshone-Bannock Tribes		
Drilled by Ivan Bortz, 1955.		
Elevation 4416 feet. Casing 16-inch		
to 155 feet. Total depth 155 feet.		
Soil	0	1
Hardpan and rocks	1	4
Cobble rock and gravel	4	23
Blue clay	23	40
Blue sandy clay	40	45
Very fine sand, water-bearing	45	50
Brown and yellow sandy clay, not much water	50	76
Yellow clay	76	81
Hard-packed sand, some yellow clay	81	96
Medium sand, water-bearing	96	113
Yellow clay	113	114
Fine sand, water-bearing	114	121
Coarse gravel and sand, water-bearing	121	130
Coarse gravel and sand, little clay, water-bearing	130	152
Coarse gravel, sand, and clay, water-bearing	152	154
Gravel and sand, water-bearing	154	155
5S/33E-34cb. Shoshone-Bannock Tribes.		
Drilled by M. L. Beath.		
Elevation 4432 feet. Casing 6-inch		
to 153 feet. Total depth 153 feet.		
Topsoil	0	2
Boulders	2	5
Gravel	5	40
Sediments	40	80
Sand	80	151
Gravel	151	153
5S/33E-34cddd. Bureau of Indian Affairs.		
Drilled by Jack Cushman, 1975.		
Elevation 4431 feet. Casing 16-inch		
to 231 feet. Total depth 231 feet.		
Topsoil	0	3
Clay, gravel, and boulders	3	10

Materials	Depth (feet) From	To
5S/33E-34cddd. --Continued		
Brown clay, gravel, and boulders	10	30
Brown clay and gravel	30	35
Sticky brown clay	35	40
Blue clay	40	60
Brown clay, gravel, and water	60	70
Blue clay and gravel	70	87
Brown clay, gravel and a little sand	87	95
Brown clay and gravel	95	122
Sandy clay and little gravel	122	138
Brown clay and little gravel	138	143
Sandstone	143	145
Brown clay and gravel	145	200
Clay, gravel, and little sand	200	210
Brown clay and gravel	210	222
Brown clay	222	228
Lava	228	231
5S/33E-35ccdd. U.S. Geological Survey. Drilled by Jim Schoonover, 1955. Elevation 4425 feet. Casing 6-inch to 60 feet. Total depth 66 feet.		
Topsoil and gravel	0	5
Gravel, dry and boulders	5	10
Boulders, big and gravel	10	15
Boulders and gravel	15	25
Not recorded	25	30
Clay, blue and gravel	30	34
Clay and hardpan	34	60
Gravel, coarse	60	66
5S/33E-35dcd. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4415 feet. Casing 16-inch to 197 feet. Total depth 260 feet.		
Clay, topsoil	0	9
Gravel and boulders	9	20

Materials	Depth (ft.)	
5S/33E-35dcd. --Continued		
Gravel	20	22
Blue clay	22	45
Brown sandy clay and gravel	45	65
Sandy clay	65	100
Sandy clay and sandstone	100	115
Real sandy clay - streaks of sandstone	115	135
Sand	135	137
Gravel	137	147
Clay and sandy gravel	147	152
Sandy clay and streaks of gravel	152	175
Sandy clay and gravel	175	191
Gray basalt (soft)	191	195
Fairly hard gray basalt	195	205
Hard gray rock	205	208
Soft red and gray rock	208	214
Fairly hard gray rock	214	222
Hard gray basalt	222	253
Broken basalt	253	257
Hard (broken) basalt	257	260
5S/34E-3cd. Nanne Chedehap. Drilled by Jack Cushman, 1964. Elevation 4442 feet. Casing 6-inch to 127 feet. Total depth 128 feet.		
Dirt	0	6
Sand and clay (brown)	6	22
Sand (gray)	22	47
Clay (blue)	47	60
Sand (brown)	60	74
Sand and gravel, little water	74	80
Sand and clay	80	88
Brown clay	88	110
Pea gravel and sand	110	125
Gravel, water, no sand	125	128

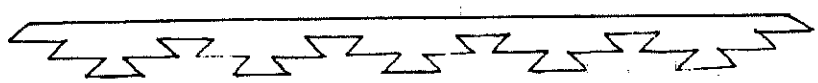
Materials	Depth From	Depth To
5S/34E-3dcd. Dalthea Smith. Drilled by Cushman & Johnson, 1964. Elevation 4450 feet. Casing 6-inch to 127.5 feet. Total depth 127.5 feet.		
Soil	0	4
Sand	4	50
Blue clay	50	75
Gravel and sand and clay	75	85
Sand and clay	85	115
Sand and clay and gravel	115	120
Gravel	120	127.5
5S/34E-5ccaa. B & L Farms. Drilled by Irvin D. Wanlass, 1967. Elevation 4420 feet. Casing 16-inch to 162 feet. Total depth 215 feet.		
Sand, water-bearing	0	22
Blue clay	22	51
Clay and gravel, water-bearing	51	75
Brown clay	75	92
Gravel sandy clay, water-bearing	92	113
Gravel and sand, water-bearing	113	147
Sand and clay, water-bearing	147	160
Brown clay, water-bearing	160	167
Black lava	167	175
Black lava, streaks of cinders, water-bearing	175	195
Cinders, black, water-bearing	195	204
Black lava	204	211
Red cinders, water-bearing	211	215
5S/34E-7bdab. Drilled by Jack Cushman, 1967. Elevation 4420 feet. Casing 16-inch to 192 feet. Total depth 242 feet.		
Sand and soil	0	19
Blue clay	19	50

Materials	Depth From	Depth To
5S/34E-7bdab. --Continued		
Sand, brown	50	70
Clay and sand, brown	70	113
Fine gravel and sand	113	192
Lava rock - gray	192	196
Streak of rock and cinders, water-bearing	196	242
5S/34E-9bd. Sam Wahtomy. Drilled by Jack Cushman, 1964. Elevation 4430 feet. Casing 6-inch to 130 feet. Total depth 130 feet.		
Dirt	0	5
Clay and sand	5	30
Dark blue clay	30	60
Gray sand	60	72
Brown sand	72	100
Gray soil	100	110
Brown clay and sand	110	115
Sand, first good water	115	123
Gravel, good water	123	130
5S/34E-10aa. Clyde Kinghorn. Elevation 4458 feet. Casing 6-inch to 72 feet. Total depth 72 feet.		
Topsoil	0	3
Sand	3	30
Sand and gravel, water-bearing	30	37
Clay with sand	37	62
Sand	62	70
Sand and gravel	70	72
5S/34E-12bc. Lillian Quagigant. Drilled by Doug Cushman, 1964. Elevation 4480 feet. Casing 6-inch to 109.5 feet. Total depth 112 feet.		
Sandy soil	0	3
Hard sand	3	6

Materials	Depth From	Depth To
5S/34E-12bc. --Continued		
?	6	61
Clay	61	72
Hard sandstone	72	81
Sand, clay, some water	81	93
Clay	93	99
Sandstone, gravel, and water	99	112
5S/34E-16baaa. Cleve Divinney. Drilled by Cushman & Johnson, 1964. Elevation 4435 feet. Casing 6-inch to 122 feet. Total depth 122 feet.		
Soil	0	4
Gravel	4	35
Gray clay	35	68
Hard sand	68	85
Clay, tan	85	95
Tan sandy clay	95	100
Sand	100	118
Sand and gravel	118	122
5S/34E-16ba. Conna Paraquenah. Drilled by Cushman & Johnson, 1964. Elevation 4435 feet. Casing 6-inch to 124 feet. Total depth 124 feet.		
Soil	0	5
Gravel	5	20
Sand	20	50
?	50	75
Tan clay	75	95
Sand	95	119
Gravel	119	124

Materials	Depth From	Depth To
5S/34E-16bb. Rosaline Tavo. Drilled by Doug Cushman, 1964. Elevation 4432 feet. Casing 6-inch to 124 feet. Total depth 124 feet.		
Sandy clay	0	8
Gravel	8	10
Sand	10	14
Blue clay	14	43
Blue clay, small seams of gravel, a little water	43	45
Blue clay, sticky	45	61
Dark brown sand, silt	61	82
Light brown sand, silt, small amount of water	82	122
Small gravel, water	122	124
5S/34E-19bca. LaSalle Pocatello. Drilled by Cushman and Denning, 1973. Elevation 4432 feet. Casing 6-inch to 157 feet. Total depth 162 feet.		
Dirt	0	4
Coarse sand	4	23
Clay	23	70
Clay and gravel	70	72
Clay and sand	72	106
Fine sand with small gravel	106	154
Brown clay	154	157
Lava rock with water	157	162
5S/34E-19dba. Evans Ingatuah. Drilled by Jack Cushman, 1964. Elevation 4455 feet. Casing 6-inch to 145 feet. Total depth 145 feet.		
Sand and gravel	0	20
Sand	20	39

Materials	Depth From	Depth To
5S/34E-19dba. --Continued		
Clay, brown	39	65
Blue clay	65	75
Red clay	75	95
Sand and clay, red	95	118
Clay	118	130
Clay and sand	130	140
Gravel and water	140	145
5S/34E-19dd. Willie Bache. Drilled by Doug Cushman, 1964. Elevation 4458 feet. Casing 6-inch to 153 feet. Total depth 153 feet.		
Soil	0	4
Loose gravel and boulders	4	21
Sand and a little water	21	32
Brown clay	32	72
Compact gravel and clay	72	76
Sandy clay, brown	76	127
Dark brown sandy clay, little seepage	127	150
Sand and small amount of fine gravel, water	150	153
5S/34E-19dddd. Walter Nevada. Drilled by Jack Cushman, 1974. Elevation 4458 feet. Casing 6-inch to 161 feet. Total depth 166 feet		
Dry brown clay	0	25
Sand and gravel	25	56
Coarse sand	56	66
Brown clay	66	78
Gravel	78	92
Light brown clay, very hard	92	161
Gray basalt	161	166

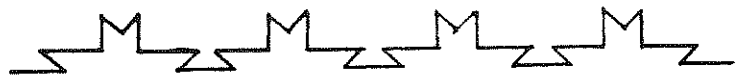


Materials	Depth From	Depth To
5S/34E-20cbbb. Margaret Nevada. Drilled by Jack Cushman, 1955. Elevation 4454 feet. Casing 6-inch to 155 feet. Total depth 155 feet.		
Soil	0	3
Boulders	3	30
Sand (a little water gravel)	30	55
Sandy clay	55	75
Sand	75	90
Tan clay	90	105
Brown sandy clay	105	140
Sand	140	145
Gray sand	145	155
5S/34E-25bc. Arden Hale, 1955. Elevation 4640 feet. Casing 12 and 10-inch to 400+ feet. Total depth 552 feet.		
Clay	0	82
Gravel, cemented	82	104
Clay, some gravel, cavey	104	128
Gravel, cemented	128	134
Clay and gravel	134	143
Gravel	143	188
Lava, black, hard	188	197
Cinder rock, red	197	204
Lava, gray to blue basalt	204	212
Lava, red, and cinders	212	215
Clay, red, and small lava	215	219
Clay, yellow and red; hit some water, rose to 202 feet	219	261
Gravel with conglomerate	261	262
Lava, black, sandy	262	266
Gravel and soapstone	266	271
Soapstone, white, or talc	271	287
Talc, reddish with trace of gravel	287	292
Bentonite "Morris Formation" all colors	292	335
Soapstone, gray to light-gray	335	440

Materials	Depth From	Depth To
5S/34E-25bc. --Continued		
Soapstone, gray, sandy	440	465
Soapstone (?), gray, blue, cream; some gravel	465	485
Soapstone, gray, blue, cream, black	485	527
Soapstone, brown, hard	527	540
Quartz sand, white, and cuttings, water-bearing	540	552
5S/34E-35da. Henry Jensen, 1950. Elevation 4575 feet. Casing 16-inch to 450 feet. Total depth 450 feet.		
Soil	0	2
Clay, loose, and gravel	2	40
Clay	40	46
Gravel and clay	46	57
Basalt boulders, coarse	57	64
Clay and boulders	64	78
Clay	78	84
Clay and gravel, yellow	84	95
Clay and gravel	95	115
Gravel, cement	115	160
Gravel and clay, some water	160	165
Clay, hard	165	174
Gravel, water-bearing	174	179
Clay, sandy	179	235
Lava	235	238
Rock, red	238	250
Lava, red, coarse	250	260
Lava, red, hard	260	300
Lava, light-brown	300	310
Lava, light-gray	310	330
Sandstone, red	330	390
Sandstone, gray, hard	390	400
Sandstone	400	430
Sandstone, gravel, and boulders	430	450

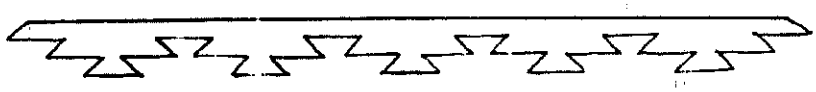
Materials	Depth From	Depth To
5S/35E-5abb. Joe Davis, Jr. Drilled by Cushman and Denning, 1973. Elevation 4525 feet. Casing 6-inch to 67 feet. Total depth 140 feet.		
Dirt	0	27
Gravel	27	43
Clay	43	67
Black basalt with crevices	67	90
Hard gray basalt	90	103
Hard gray basalt with crevices	103	129
Crevices and red cinders with water	129	140
5S/35E-5dddd. Ivan Dixey. Drilled by Cushman and Denning, 1973. Elevation 4490 feet. Casing 6-inch to 68 feet. Total depth 121 feet.		
Topsoil and gravel	0	23
Clay with gravel	23	32
Brown clay	32	40
Sand and gravel with broken rock	40	68
Hard lava rock	68	98
Red broken basalt with water	98	121
5S/35E-30ab. S.A. Johnson, 1959. Elevation 4905 feet. Casing 20 and 16-inch to 731 feet. Total depth 731 feet.		
Clay	0	87
Clay and conglomeration	87	202
Clay and limestone, small amount of water	202	245
Clay and chalk	245	260
Gravel, water-bearing	260	270
Basalt, blue, water-bearing	270	277
Sand, black, water-bearing	277	280
Conglomeration and sand, water-bearing	280	283
Sand, black, chalk, and shale, water-bearing	283	297

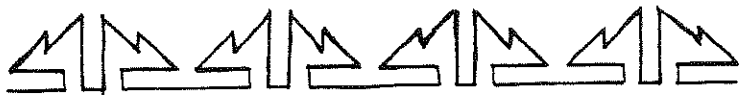
Materials	Depth From	Depth To
5S/35E-30ab. --Continued		
Conglomeration, clay, and shale	297	307
Shale, blue	307	313
Conglomeration and blue clay	313	323
Clay, shale, and sand	323	333
Rock, hard	333	388
Cinders, red, some water	388	393
Chalk, red	393	418
Rock, blue, hard	418	453
Basalt, blue, hard	453	457
Chalk, red, with red rock	457	485
Basalt, gray	485	508
Rock, hard	508	521
Basalt, blue and gray	521	537
Conglomeration	537	545
Shale, blue	545	555
Bentonite, white, hard	555	655
Bentonite, clay, and small rocks, water-bearing	655	687
Bentonite, sticky, some water	687	705
Shale, blue and white, sticky, water-bearing	705	725
Rocks, water-bearing	725	731
5S/36E-4cbc. Kesley Edmo. Drilled by Cushman and Denning, 1973. Elevation 4910 feet. Casing 6-inch to 88 feet. Total depth 90 feet.		
Topsoil	0	4
Dry brown clay	4	70
Wet brown clay	70	79
Gravel	79	90
5S/36E-5acc. Curtis Farmer. Drilled by Cushman and Denning, 1972. Elevation 4820 feet. Casing 6 and 4-inch to 257 feet. Total depth 270 feet.		
Dirt and clay - dry	0	25
Dirt and clay - wet	25	50



WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
5S/36E-5acc. --Continued		
Gravel	50	60
Clay	60	80
Sand, clay, and gravel, water-bearing	80	92
Rock	92	222
Gravel	222	227
Sandstone	227	270
5S/36E-5adb. Andrew Punkin. Drilled by Jack Cushman, 1964. Elevation 4865 feet. Casing 6-inch to 33 feet. Total depth 39 feet.		
Dirt	0	5
Clay	5	24
Boulders and clay	24	30
Gravel and clay	30	33
Lava crevices and water	33	39
5S/36E-6aaa. Ross Fork Lodge. Drilled by Cushman and Denning, 1972. Elevation 4765 feet. Casing 6-inch to 40 feet. Total depth 210 feet.		
Clay and gravel	0	10
Brown clay	10	40
Sand and clay	40	42
Black basalt	42	200
Cinders and rock	200	210
5S/36E-6aacc. Shoshone-Bannock Tribes. Drilled by Andrew Well Drilling, 1977. Elevation 4770 feet. Casing 8-inch to 45 feet, 6-inch to 374 feet. Total depth 400 feet.		
Topsoil	0	7
Brown damp clay	7	18





Materials	Depth From	Depth To
Gravel, boulders, and sand	18	25
Brown gummy clay	25	32
Brown sand and pea gravel	32	34
Brown gummy clay	34	35
Broken gray basalt, water-bearing	35	42
Firm gray basalt	42	75
Cinders	75	78
Broken red-brown basalt	78	80
Firm red-brown basalt	80	120
Broken red-brown basalt	120	125
Firm red-brown basalt	125	176
Broken gray basalt, water-bearing	176	183
Firm gray basalt	183	188
Broken gray basalt, water-bearing	188	192
Firm gray basalt	192	200
Hard gray basalt	200	230
Broken gray basalt	230	237
Brown gummy clay	237	266
Pea gravel and sand, water-bearing	266	269
Brown clay and gravel	269	340
Gravel and sand, water-bearing	340	380
Brown gummy clay	380	395
Gravel and sand, water-bearing	395	400

5S/36E-6dad. Richard Cutler.
Drilled by Jack Cushman, 1974.
Elevation 4805 feet. Casing 6-inch to 63.5 feet, 4-inch to 275 feet.
Total depth 277 feet.

Clay - dry	0	25
Clay, rock, and fine gravel	25	58
White clay	58	63
Gray basalt, streaks of red basalt, and crevices	63	250
Sandy clay	250	267
Sand and gravel (medium)	267	275
Conglomerate rock	275	277

Materials	Depth From	Depth To
5S/36E-6dbd. Mike Cutler. Drilled by Doug Cushman, 1972. Elevation 4790 feet. Casing 6-inch to 38 feet. Total depth 240 feet.		
Sandy clay	0	9
Boulders	9	40
Sticky clay, water-bearing	40	52
Lava	52	63
Red cinders	63	65
Black lava	65	69
Red lava	69	74
Black lava	74	92
Red lava ("Crevice void", water-bearing - 93½ to 94 feet)	92	146
Black lava	146	169
Red lava	169	181
Black lava	181	203
Cinders, water-bearing	203	205
Black lava, water-bearing	205	227
Clay, cinders, lava, water-bearing	227	236
Boulders, sand, water-bearing	236	240
5S/36E-7aac. Theron Edmo. Drilled by Jack Cushman, 1971. Elevation 4825 feet. Casing 6-inch to 54 feet, 4-inch to 210 feet. Total depth 210 feet.		
Dirt	0	17
Sand - clay	17	29
Clay - sand	29	54
Rock	54	168
Clay - sand	168	181
Sand - clay	181	203
Gravel, water-bearing	203	210
5S/36E-7abb. Susie George. Drilled by Jack Cushman, 1974. Elevation 4800 feet. Casing 6-inch to 263 feet. Total depth 270 feet.		
Dry brown clay	0	25
Wet brown clay	25	43

Materials	Depth From	Depth To
Gray basalt	43	155
Broken rock gravel, clay, and some sandstone	155	215
Streaks of clay and gravel	215	263
Mountain rock	263	270

5S/36E-8bbaa. Thomas Kniffin.
Drilled by Jack Cushman, 1975.
Elevation 4832 feet. Casing 8-inch to 80 feet, 6-inch to 256 feet.
Total depth 260 feet.

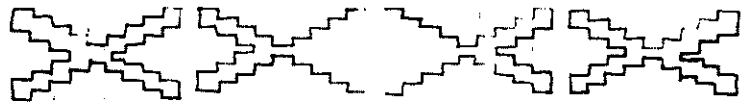
Clay	0	19
Clay and gravel	19	68
Clay	68	80
Gray basalt and some water	80	218
Brown clay	218	248
Conglomerate	248	260

5S/36E-8bbba. Shoshone-Bannock Tribes.
Drilled by Jack Cushman, 1977.
Elevation 4830 feet. Casing 20-inch to 85 feet, 16-inch to 570 feet.
Total depth 581 feet.

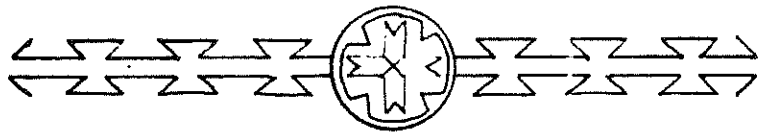
Silt, brown-gray	0	20
Silt with quartzite gravel	20	24
Tan clay, occasional silt and quartzite gravel	24	80
Gray clay	80	85
Basalt, gray	85	162
Basalt, red brown	162	165
Basalt, gray	165	227
Clay, brown and gray	227	253
Clay and gravel	253	310
Clay, brown with some gravels	310	435
Gravel, water	435	440
Clay, some gravel	440	581

Materials	Depth From	Depth To
5S/36E-16bcb. Francis Edmo. Drilled by Jack Cushman, 1974. Elevation 4960 feet. Casing 6-inch to 134 feet. Total depth 146 feet.		
Dry brown clay	0	23
Brown clay and gravel	23	125
Light brown clay	125	134
Sandstone conglomerate	134	146
5S/36E-16bcbb. Shoshone-Bannock Tribes. Drilled by Cushman and Richards, 1978. Elevation 4955 feet. Casing 16-inch to 750 feet. Total depth 825 feet.		
Brown clay	0	28
Small boulders, brown clay	28	33
Yellowish clay and gravel	33	80
Brown clay and gravel	80	130
Light brown clay	130	170
Blue clay	170	190
Brown clay and gravel	190	200
Gray basalt	200	220
Hard brown clay, some gravel	220	270
Brown clay	270	280
Brown clay, some gravel	280	300
Brown clay	300	335
Clay and gravel	335	720
Volcanic ash, light brown	720	825
5S/36E-16cbb. Hugh Edmo. Drilled by Jack Cushman, 1974. Elevation 4980 feet. Casing 6-inch to 175 feet. Total depth 187 feet.		
Brown clay	0	28
Brown clay and gravel	28	61
Streaks of brown clay and gravel	61	115
Sandstone conglomerate and clay	115	160

Materials	Depth From	Depth To
5S/36E-16cbb. --Continued		
Very coarse sand and clay (yellow)	160	170
Gray clay	170	175
Sandstone and conglomerate	175	187
5S/36E-17aca. Shoshone-Bannock Tribes. Drilled by Andrew Well Drilling, 1977. Casing 8-inch to 237 feet, 6-inch to 507 feet. Total depth 560 feet.		
Topsoil	0	5
Gravel and sand	5	25
Brown gummy clay	25	40
Gravel and sand	40	100
Brown gummy clay	100	130
Brown clay and gravel	130	146
Brown clay and gravel	146	180
Brown gummy clay	180	225
Gravel and sand	225	247
Brown gummy clay	247	285
Brown clay and gravel	285	310
Gravel and sand, water	310	355
Gravel, some clay and sand	355	395
Soft white volcanic ash, water	395	507
Firm white volcanic ash, water	507	553
Brown rhyolite, fractured, water	553	560
5S/36E-17aca2. Shoshone-Bannock Tribes. Drilled by Jack Cushman, 1978. Casing 16-inch to 548 feet. Total depth 623 feet.		
Clay	0	2
Boulders, gravel, clay	2	24
Clay	24	26
Sandy gravel, some clay	26	50
Sandy gravel	50	72

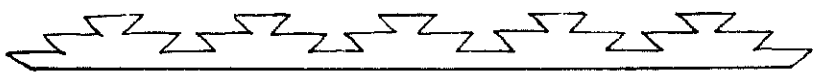


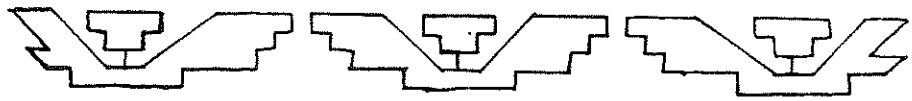
Materials	Depth From	Depth To
5S/36E-17aca2. --Continued		
Brown clay	72	78
Gravel, streaks of clay	78	103
Brown clay, sticky, with scattered gravels	103	144
Clay and gravel	144	173
Clay, sticky brown	173	192
Clay and gravel	192	232
Clay, brown and sticky	232	350
Hard clay with rocks	350	385
Hard conglomerate	385	413
Volcanic ash, tan to brown	413	548
Rhyolite	548	587
Hard conglomerate	587	597
Brown clay	597	623
5S/36E-17bbd. Daisey St. Clair. Drilled by Mike Shoemaker, 1974. Elevation 4915 feet. Casing 6-inch to 250 feet. Total depth 260 feet.		
Dry brown clay	0	23
Brown clay - wet	23	30
Brown clay and gravel	30	55
Light brown clay - sticky	55	144
Sandy brown clay and boulders (crystal)	144	250
Sandstone conglomerate	250	260
5S/36E-21bcbb. Shoshone-Bannock Tribes. Drilled by Andrew Well Drilling, 1977. Elevation 5020 feet. Casing 8-inch to 168 feet, 6-inch to 355 feet. Total depth 355 feet.		
Topsoil	0	10
Boulders and gravel	10	95
Brown gummy clay	95	135
Clay, boulders, and gravel	135	330
Gravel, boulders, and sand	330	355



Materials	Depth From	Depth To
5S/36E-21cd. Shoshone-Bannock Tribes. Drilled by Andrew Well Drilling, 1977. Elevation 5100 feet. Casing 8-inch to 69 feet, 6-inch to 173.5 feet. Total depth 190 feet.		
Topsoil	0	15
Boulders, gravel, and sand	15	190
6S/32E-1abaa. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4415 feet. Casing 16-inch to 227 feet. Total depth 227 feet.		
Topsoil	0	5
Gravel	5	33
Brown clay	33	41
White clay	41	45
Brown clay	45	53
Sand	53	77
Sand, white	77	81
Brown clay	81	114
Sand, gray	114	118
Brown sand	118	141
Blue clay	141	155
Brown clay	155	170
Gravel	170	178
Pea gravel	178	193
Black sand	193	195
Sand and gravel	195	215
Gravel and little sand	215	218
Brown sandy clay	218	226
Clay	226	227
6S/32E-1babb. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4398 feet. Casing 16-inch to 263 feet. Total depth 263 feet.		
Topsoil and sandy clay	0	6
Sand	6	20

Materials	Depth From	Depth To
6S/32E-1babb. --Continued		
Sandy clay	20	45
Brown sand	45	73
Blue sand	73	90
Blue sandy clay	90	100
Brown sand	100	130
Brown sandy clay	130	135
Brown clay	135	153
Brown sandy clay and gravel	153	160
Sandy clay and gravel	160	163
Sand and gravel	163	167
Sand and gravel	167	204
Sand and gravel	204	210
Sandy clay	210	212
Clay	212	220
Sandy clay	220	230
Clay and some gravel	230	242
Gravel	242	263
6S/32E-11aa. Shoshone-Bannock Tribes. Drilled by M. L. Beath, 1935. Elevation 4400 feet. Casing 6-inch to 98 feet. Total depth 101 feet.		
Soil	0	2
Sand	2	17
Lake bed, brown	17	57
Sand, black and gray	57	67
Sediment, blue	67	97
Gravel and sand	97	101
6S/32E-12abaa. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4420 feet. Casing 16-inch to 224 feet. Total depth 223 feet.		
Topsoil	0	3
Coarse sand	3	22

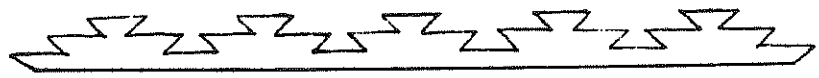




Materials	Depth From	Depth To
6S/32E-12abaa. --Continued		
Black fine sand	22	36
Sandy clay	36	71
Blue clay	71	89
Sandy clay	89	96
Sand	96	99
Blue clay (sticky)	99	119
Sand (little brown clay)	119	140
Brown sticky clay	140	158
Sandy brown clay	158	165
Gravel	165	170
Sandy gravel	170	198
Gravel (not too sandy)	198	216
Sandstone	216	223
6S/32E-13acbb. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4410 feet. Casing 16-inch to 213 feet. Total depth 213 feet.		
Topsoil	0	2
Sandy clay	2	20
Sticky brown clay and little gravel	20	50
Clay and little gravel	50	65
Blue clay	65	115
Sandy blue clay	115	124
Brown sticky clay	124	135
Sandy brown clay	135	149
Sandy brown clay and gravel	149	159
Sand and gravel	159	162
Clay, sand, and gravel	162	165
Clay and gravel	165	175
Clay, sand, and gravel	175	180
Sandy clay and gravel	180	207
Sandy brown clay	207	210
Sticky brown clay and gravel	210	213

WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
6S/32E-13bdaa. Nugent Bros. Drilled by Findley Well Drilling. Elevation 4408 feet. Casing 18-inch to 183 feet. Total depth 183 feet.		
Topsoil	0	2
Hardpan	2	4
Sand	4	12
Brown clay	12	47
Gravel and sand	47	55
Blue clay	55	115
Sand	115	125
Gray clay	125	130
Brown clay, some sand	130	148
Gravel and sand	148	153
Gravel and trace of sand	153	183
6S/32E-14aabb. Nugent Bros. Drilled by Findley Well Drilling. Elevation 4409 feet. Casing 18-inch to 175 feet. Total depth 175 feet.		
Topsoil	0	3
Hardpan	3	5
Sand and clay	5	14
Sand and gravel	14	34
Brown clay, water-bearing	34	52
Sand	52	70
Blue clay	70	115
Gray sand	115	125
Brown clay with gravel	125	145
Gravel with some clay	145	150
Washed gravel, water-bearing	150	175
6S/32E-15adbb. Mayo Hasket. Drilled by LaMar N. Barrus, 1968. Elevation 4399 feet. Casing 20-inch to 200 feet. Total depth 200 feet.		
Topsoil and clay	0	5
Sand	5	15



WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
6S/32E-15adbb. --Continued		
Brown clay	15	38
Sand	38	45
Brown clay	45	65
Sand and pea gravel, water-bearing	65	73
Gray clay	73	80
Blue clay	80	110
Sand	110	115
Sandy clay	115	130
Brown clay	130	150
Sand, water-bearing	150	158
Sand and gravel, water-bearing	158	196
Brown clay	196	200
6S/32E-22cacc. Elevation 4407 feet. Total depth 207 feet.		
Topsoil	0	3
Sand	3	17
Sand, clay	17	20
Clay	20	80
Blue clay	80	115
Sand, heaving	115	142
Clay, sticky	142	160
Gravel	160	170
Cemented gravel sand	170	187
Pea gravel, boulders, gravel	187	200
Pea gravel	200	207
6S/32E-22dacc. Elevation 4409 feet. Total depth 220 feet.		
Topsoil	0	3
Sand	3	23
Brown clay	23	70
Clay, blue, sticky	70	120

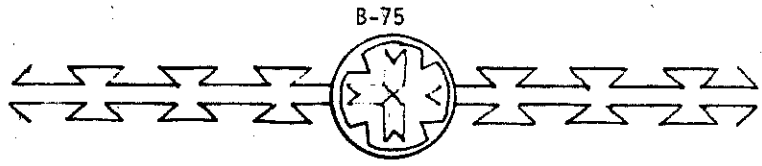
Materials	Depth From	Depth To
6S/32E-22dacc. --Continued		
Sand, heaving	120	140
Clay, blue, sticky	140	162
Gravel, sand	162	178
Sand	178	185
Gravel, sand	185	186
Gravel, coarse sand	186	201
Pea gravel, sand	201	205
Boulders	205	210
Sandy clay	210	220
6S/32E-23cdcc. Bureau of Indian Affairs, 1973. Elevation 4417 feet. Casing 16-inch to 201 feet. Total depth 208 feet.		
Sand	0	45
Clay	45	60
Clay and sand	60	65
Sand and gravel	65	70
Black sand	70	95
Black sand and clay	95	105
Blue clay	105	120
Sand, blue clay	120	135
Heaving sand	135	140
Blue clay	140	165
Gravel	165	185
Sand and gravel	185	200
Clay	200	208
6S/32E-24bddd. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4427 feet. Casing 16-inch to 500 feet. Total depth 500 feet.		
Topsoil	0	3
Sandy fine gravel	3	32
Brown clay	32	41
Blue clay	41	67
Sand	67	83

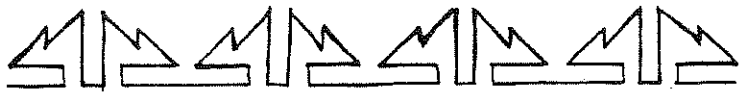
WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
Blue clay	83	117
Sandy clay	117	163
Sandstone, gravel, and clay	163	187
Sandstone and small gravel	187	214
Clay	214	223
Clay and sandy gravel	223	227
Sandy clay and gravel	227	244
Sticky brown clay	244	253
Sandy clay	253	261
Streaks sandstone and gravelly clay	261	295
Clay, sandy and little gravel (streaks)	295	317
Sand, gravel, and clay	317	322
Sticky brown clay	322	336
Clay with small gravel	336	353
Sticky clay	353	360
Sandy clay and gravel	360	366
Sticky clay	366	373
Sandy clay and gravel	373	380
Clay	380	398
Sandy clay and little gravel	398	402
Sticky clay	402	415
Sticky clay with small rocks or gravel	415	481
Sandstone and streaks of clay	481	493
Sandstone	493	496
Sticky clay	496	500

6S/32E-26ba.
Elevation 4425 feet.
Total depth 208 feet.

Topsoil	0	3
Sand	3	33
Clay	33	50
Clay and sand	50	70
Sand and clay	70	90
Clay and sand	90	125
Sand and gravel-clay	125	175
Sand and gravel	175	190
Large gravel	190	200
Clay	200	208





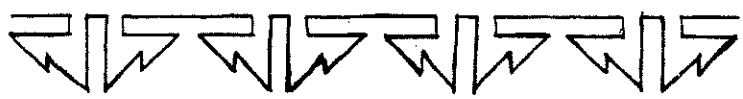
WELL LOGS - FORT HALL INDIAN RESERVATION

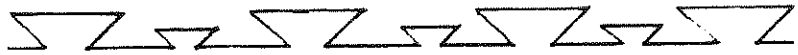
Materials	Depth From	Depth To
6S/32E-27aacc. Elevation 4409 feet. Total depth 202 feet.		
Topsoil	0	3
Sand, coarse	3	20
Gray clay	20	47
Clay	47	98
Small gravel	98	100
Compact sand	100	116
Gray sand - fine gravel mixed	116	120
Blue clay	120	153
Gray sand	153	157
Brown sand and gravel	157	160
Gravel, large	160	190
Clay	190	202
6S/32E-27adca. U.S. Geological Survey. Drilled by Jim Schoonover, 1954. Elevation 4417 feet. Casing 6-inch to 73 feet. Total depth 85 feet.		
Sand	0	28
Clay, tan	28	55
Clay, brown	55	73
Sand	73	77
Clay and gravel, blue	77	85
6S/32E-27bdbb. Elevation 4410 feet. Total depth 194 feet.		
Sand	0	20
Clay	20	60
Sand, gravel, some water	60	70
Sand	70	85
Sandy clay	85	105
Sand	105	120

Materials	Depth From	Depth To
6S/32E-27bdbb. --Continued		
Sandy clay	120	135
Clay, sticky	135	161
Sand	161	170
Sand, gravel	170	175
Sand	175	194
6S/32E-28accc. Lawrence Funk. Drilled by Paul Vollmer and Son, 1969. Elevation 4407 feet. Casing 18-inch to 240 feet. Total depth 240 feet.		
Topsoil	0	3
Gray sand	3	20
Sandy gray clay	20	55
Sand streaks	55	120
Blue clay and streaks	120	170
Gravel and sand	170	175
Big gravel, clean, water-bearing	175	205
Brown sand	205	220
Brown sand	220	228
Gravel and sand, water-bearing	228	240
6S/32E-28cdd. Lawrence Funk. Drilled by Paul Vollmer and Son, 1969. Elevation 4413 feet. Casing 18-inch to 220 feet. Total depth 220 feet.		
Topsoil	0	3
Sand	3	25
Clay	25	120
Sand	120	137
Clay	137	165
Sandy clay	165	172
Sand	172	175
Sand, grave, water	175	180
Gravel, sand, water	180	207
Clay and tan clay	207	220

WELL LOGS - FORT HALL INDIAN RESERVATION

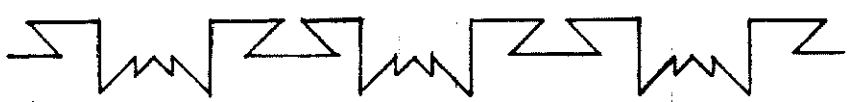
Materials	Depth From	Depth To
6S/32E-29dda. Elevation 4404 feet. Total depth 223 feet.		
Sand	0	3.5
Gray clay	3.5	14.5
Sand	14.5	27
Sand, silt	27	41
Sand, water seepage	41	47
Sand	47	60
Gray clay	60	80
Sandstone, silt, sand, cinder, water	80	85
Cinder, silt, sand	85	95
Sand	95	100
Blue clay	100	117
Clay, sand	117	155
Sand, silt, small gravel	155	158
Sand and gravel cemented	158	165
Sand and gravel	165	175
Large gravel	175	194
Clay	194	200
Tan clay	200	202
Clay	202	223
6S/32E-33bbbb. Elevation 4408 feet. Total depth 202 feet.		
Topsoil	0	6
Brown sand	6	17
Clay	17	45
Brown sand	45	65
Black sand	65	75
Gray clay	75	105
Gray clay and sand	105	120
Sand, clay	120	122
Clay	122	160
Sand	160	165
Red gravel	165	169
Clay, sand, gravel	169	170
Large gravel	170	197.5
Tan clay	197.5	202



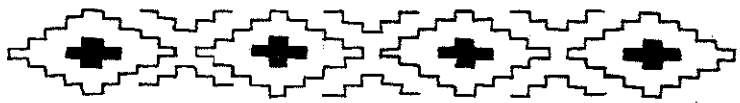


WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
6S/33E-1da. Weaver Douglas. Drilled by Cushman and Johnson, 1959. Elevation 4424 feet. Casing 18-inch to 166 feet. Total depth 240 feet.		
Clay	0	4
Boulders, sand, and gravel	4	22
Blue clay	22	44
Clay and gravel, water-bearing	44	59
Brown clay	59	69
Brown sand, water-bearing	69	92
Gravel and sand, water-bearing	92	105
Clay and gravel, water-bearing	105	130
Boulders, gravel and clay	130	137
Brown clay	137	160
Boulders, gravel, and sand, water-bearing	160	165
White and red quartz rock (very hard)	165	181
Lava rock (very hard)	181	195
Black cinders, water-bearing	195	210
Black lava	210	215
Brown clay	215	226
Lava and cinders, water-bearing	226	240
6S/33E-3acdd. Bureau of Indian Affairs. Drilled by Vollmer, 1969. Elevation 4432 feet. Casing 18-inch to 194 feet. Total depth 194 feet.		
Soil	0	1
Gravel and boulders	1	18
Clay (gray)	18	42
Gravel (water)	42	65
Clay (tan)	65	90
Gravel and clay (tan)	90	115
Clay, sandy (tan)	115	132
Gravel (water)	132	153
Clay (tan)	153	157
Sandy clay (tan)	157	160
Gravel (water)	160	194



Materials	Depth From	Depth To
6S/33E-3bcdd. Bureau of Indian Affairs. Drilled by Findley Well Drilling, 1969. Elevation 4424 feet. Casing 18-inch to 171 feet. Total depth 171 feet.		
Topsoil	0	3
Boulders	3	20
Coarse gravel, water-bearing	20	34
Blue clay	34	65
Sand, water-bearing	65	68
Gravel, water-bearing	68	74
Brown clay and gravel	74	100
Red brown clay, sand, and gravel	100	110
Red brown sand, water-bearing	110	135
Red brown clay and gravel, water-bearing	135	145
Gravel and sand, water-bearing	145	165
Some clay with sand and gravel, water-bearing	165	167
Gravel, water-bearing	167	171
6S/33E-4babb. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4416 feet. Casing 16-inch to 223 feet. Total depth 223 feet.		
Topsoil	0	2
Clay, gravel, and boulders	2	20
Clay and gravel	20	26
Blue clay	26	47
Gravel-brown and blue clay	47	50
Brown clay and gravel	50	72
Sticky brown clay	72	80
Blue clay	80	98
Sticky brown clay	98	104
Brown clay, gravel, and sand	104	120
Sandstone	120	130
Sticky brown clay and sandstone	130	135
Brown clay and gravel	135	143
Brown clay, gravel, and sand	143	162
Brown clay and lots of gravel	162	165
Big gravel, clay, and some sandstone	165	178
Brown clay and gravel	178	213
Sandstone	213	214
Brown clay and gravel	214	223
Basalt	223	225

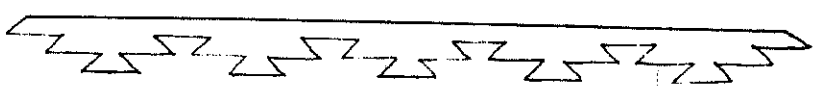


WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
6S/33E-6babb. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4418 feet. Casing 16-inch to 238 feet. Total depth 238 feet.		
Topsoil	0	2
Gravel and sand	2	29
Brown sticky clay	29	34
Blue clay	34	100
Blue sandy clay	100	110
Brown sandy clay	110	115
Pure sand	115	127
Brown sandy clay	127	142
Sticky brown clay	142	157
Clay and gravel	157	165
Sand and gravel	165	192
6S/33E-6c. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4415 feet. Casing 16-inch to 268 feet. Total depth 270 feet.		
Clay topsoil	0	4
Coarse sand	4	15
Gravel	15	23
Brown clay	23	55
Sandy clay	55	137
Sticky brown clay	137	146
Sandy clay	146	159
Hard gravel	159	165
Sand and little gravel	165	172
Sandy gravel	172	208
Sticky brown clay	208	228
Sandy clay or sandstone (hard)	228	235
Clay - sandstone and gravel	235	257
Sandstone and gravel	257	268
Clay	268	270

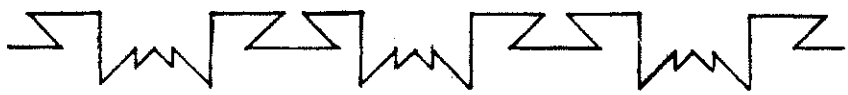
Materials	Depth From	Depth To
6S/33E-8a. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4430 feet. Casing 16-inch to 218 feet. Total depth 221 feet.		
Topsoil	0	3
Clay and gravel	3	20
Brown clay and gravel	20	42
Sand, gravel, and water	42	49
Blue clay	49	75
Blue clay and gravel, water	75	92
Blue sand and gravel	92	102
Blue sand	102	112
Sticky blue clay	112	117
Brown sand	117	122
Brown sandy clay	122	133
Brown sand and clay	133	153
Sticky brown clay and gravel	153	158
Sand and lots of gravel	158	164
Sandy clay and gravel	164	204
Sand	204	208
Sand and some gravel	208	212
Some sand and lots of gravel	212	218
Brown clay, open hole	218	221
6S/33E-8dad. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4450 feet. Casing 16-inch to 212 feet. Total depth 212 feet.		
Topsoil	0	6
Sandy clay and gravel	6	20
Clay and gravel	20	46
Clay and lots of gravel	46	48
Blue clay	48	74
Blue clay and gravel	74	89
Brown clay and gravel	89	98
Blue clay	98	126
Brown clay and gravel	126	136
Brown sandy clay and gravel	136	155
Brown sandy clay	155	171
Brown sandy clay and gravel	171	180
Sandy clay and gravel	180	187
Sandy clay	187	189
Sandy clay and gravel	189	212

Materials	Depth From	Depth To
6S/33E-9c. Anton Smith. Drilled by R.J. Strasser Drilling Co., 1972. Elevation 4450 feet. Casing 20-inch to 287 feet. Total depth 370 feet.		
Soil	0	2
Loose sand and gravel	2	58
Black shale and sand	58	77
Brown sand and gravel	77	108
Gray shale	108	130
Brown sandy clay	130	137
Coarse sand and gravel	137	148
Yellow sand	148	157
Brown clay	157	175
Loose brown sand	175	200
Cemented brown sand	200	230
Loose sand and gravel	230	265
Sticky brown clay	265	282
Black sand and black lava	282	285
Black basalt	285	292
Firm gray basalt	292	305
Broken gray basalt	305	310
Broken gray and brown basalt	310	322
Black cinders, water-bearing	322	328
Broken gray basalt and cinders	328	348
Gray basalt, water-bearing	348	365
(Cuttings lost), water-bearing	365	370
6S/33E-11ac. City of American Falls. Drilled by Cushman and Johnson, 1952. Elevation 4442 feet. Casing 14, 12-inch to 309 feet. Total depth 309 feet.		
Gravel and sand, water-bearing	210	215
Red and white boulders and loose lava rocks, water-bearing	215	220
Lava (black)	220	247
Gray sandstone	247	267
Brown clay	267	289
Brown sand, water-bearing	289	299
Brown clay and gravel, water-bearing	299	309



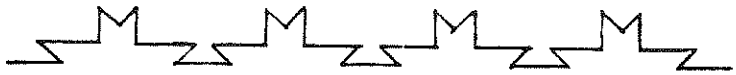
WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
6S/33E-12cddd. FMC Drilled by A.J. Schoonover & Son, 1949. Elevation 4464 feet. Casing 16-inch to 98 feet. Total depth 196 feet.		
Silty clay	0	22
Medium to fairly coarse gravel	22	48
Clay (sandy streaks)	48	82
Clay (very gummy and sticky)	82	100
Gravel (pea size, water-bearing)	100	104
Clay (fine with occasional sand grains)	104	119
Clay (fine and sandy)	119	127
Clay (sandy, hard)	127	131
Clay (sandy, hard with large boulders)	131	141
Rhyolite	141	196
6S/33E-12dadc. City of Pocatello, 1951. Elevation 4461 feet. Casing 8-inch to 108 feet. Total depth 113 feet.		
Tan clay	0	10
Red clay	10	15
Gravel, clay, and boulders	15	30
Fine gravel	30	58
Gray clay	58	68
Clay and gravel	68	81
Sandy gravel	81	105
Gravel and clay	105	113
6S/33E-13baba. FMC Drilled by A.J. Schoonover & Son, 1952. Elevation 4461 feet. Casing 16-inch. Total depth 200 feet.		
Topsoil and sand	0	21
Gravel	21	30
Dirty gravel	30	41
Sandy clay	41	85
Small gravel	85	90
Dirty gravel	90	103



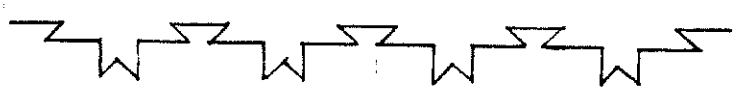
Materials	Depth From	Depth To
6S/33E-13baba. --Continued		
Lava	103	117
Soft lava	117	133
Hard lava	133	140
Red lava	140	147
Lava and quartzite	147	172
Gray lava	172	190
Dirty lava	190	200
6S/33E-13bbbc. FMC Drilled by A.J. Schoonover & Son, 1950. Elevation 4451 feet. Casing 16-inch to 202 feet. Total depth 210 feet.		
Gravel (mostly quartzite angular)	0	40
Clay (with stringers of sand and gravel)	40	75
Gravel (water-bearing), sand to 2-inch	75	92
Clay	92	100
Clay (fine and sandy)	100	122
Gravel (up to 2-inch)	122	125
Sandy clay	125	130
Clay (quite hard)	130	145
Clay, gravel, and sand (water-bearing)	145	146
Sand	146	150
Gravel and boulders (up to 3-inch)	150	152
Clay and gravel	152	155
Clean gravel	155	160
Gravel and some clay with some rhyolite gragments	160	175
Rhyolite (water-bearing), presence of small caverns and holes -	175	210
6S/33E-14a. FMC Drilled by Doug Cushman, 1969. Elevation 4445 feet. Casing 16-inch to 216 feet. Total depth 220 feet.		
Mixed topsoil	0	9
Silty clay	9	26
Gravel and clay	26	40

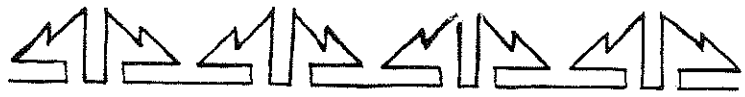
Materials	Depth From	Depth To
6S/33E-14a. --Continued		
Clay	40	48
Silty sandy clay	48	65
Gravel (water-bearing)	65	77
Gravelly clay	77	86
Clay	86	107
Boulders and gravel	107	110
Gravel	110	118
Sand and pea gravel	118	120
Sand	120	125
Sand and pea gravel	125	136
Sand and gravel	136	143
Sand, gravel, and rock	143	145
Tight conglomerate rock (water-bearing)	145	156
Rhyolite (caving, water-bearing)	156	203
Rhyolite (caving, non-water-bearing)	203	220
6S/33E-16cbbb. Anton Smith. Drilled by R.J. Strasser, 1964. Elevation 4431 feet. Casing 20-inch to 284 feet. Total depth 284 feet.		
Overburden	0	21
Loose washed gravel	21	33
Black shale with scattered gravel	33	81
Washed gravel	81	102
Black shale	102	123
Gravel, semented with sand	123	141
Brown sandy clay	141	203
Hard yellow sand with few gravel	203	240
Sand and gravel, tight formation	240	251
Loose sand and gravel, water-bearing	251	280
Tight formation - gravel with clay binder	280	284
6S/33E-18bbaa. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4422 feet. Casing 16-inch to 210.5 feet. Total depth 211 feet.		
Topsoil	0	3
Fine gravel	3	25



WELL LOGS - FORT HALL INDIAN RESERVATION

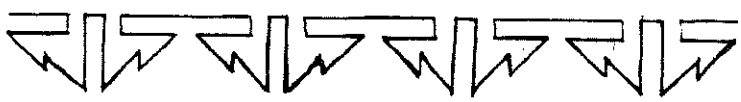
Materials	Depth From	Depth To
6S/33E-18bbaa. --Continued		
Brown clay	25	28
Brown clay and coarse sand	28	32
Blue clay	32	48
Sand and clay	48	68
Blue clay	68	81
Sticky clay (little gravel)	81	101
Sticky blue clay and sand	101	115
Sand and gravel	115	120
Sandy gravel and clay	120	140
Sticky clay	140	150
Sandy clay and streaks sticky clay	150	168
Sand - gravel and streak clay	168	177
Hard gravel (hard and slow drilling)	177	193
Sandstone and gravel	193	197
Gravel	197	206
Sticky clay	206	211
6S/33E-21bb. J.W.Priestly (Southeast Security Co.), 1953. Elevation 4433 feet. Casing 20-inch to 220 feet. Total depth 227 feet.		
Topsoil	0	4
Clay and cobble rock	4	24
Sandy clay	24	57
Clay and cobbles	57	73
Small gravel	73	75
Brown clay	75	92
Sand	92	101
Dark brown silt	101	120
Dark brown clay	120	124
Blue clay	124	128
Hard sandy clay	128	135
Sticky clay	135	160
Sandy clay	160	162
Boulders	162	163
Soft clay	163	167
Hard sandstone	167	175
Coarse gravel	175	189
Clay	189	196
Coarse gravel	196	215
Coarse gravel and sand	215	227



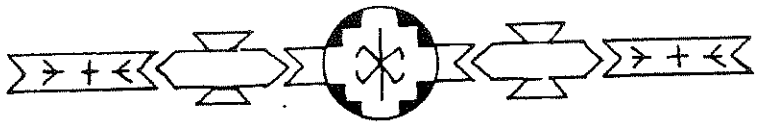


WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
6S/33E-22babb. Anton Smith. Drilled by R.J. Strasser, 1966. Elevation 4489 feet. Casing 20-inch to 360 feet. Total depth 360 feet.		
Overburden	0	2
Yellow clay	2	23
Yellow sand	23	75
Yellow clay	75	100
Yellow sand	100	110
Gravel, water-bearing	110	120
Yellow sandy clay	120	135
Yellow sand with gravel layers	135	166
Hard yellow sand	166	171
Cemented sand and gravel	171	196
Sticky brown clay	196	210
Cemented sand and gravel	210	247
Gray sand and gravel, tight	247	255
Gray sand	255	265
Sand and gravel, fairly loose, water-bearing	265	285
Yellow sand	285	288
Sand and gravel, loose streaks	288	330
Clean gravel, no sand, water-bearing	330	344
Cemented sand and gravel	344	360
6S/33E-22ccbb. Bureau of Indian Affairs. Drilled by Jack Cushman, 1975. Elevation 4508 feet. Casing 16-inch to 472 feet and 12-inch from 472 to 512 feet. Total depth 530 feet.		
Clay or loess	0	118
Clay and gravel	118	123
Clay and little gravel	123	160
Clay, little gravel and sandstone	160	187
Clay and sandstone	187	205
Sandstone (hard) and little water	205	212
Hard sandstone and clay	212	240
Clay and sandstone	240	262
Grayish and brown clay and sandstone	262	310
Clay and sandstone	310	347

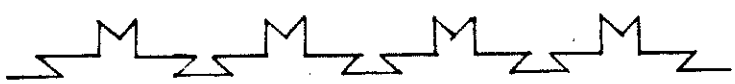


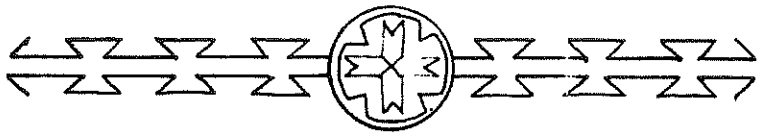
Materials	Depth From	Depth To
6S/33E-22ccbb. --Continued		
Sandy clay	347	362
Brown sandy clay	362	370
Gray clay and sandstone	370	385
Gray and brown clay and little sandstone	385	405
Conglomerate of clays and sandstone	405	440
Gray and brown clay, sandstone	440	460
Conglomerate of clays, sand, sandstone	460	471
Hard granite rock - 4-inch thick	471	475
Conglomerate of clays and sandstone	475	500
Gray, white, and tan conglomerate	500	510
Conglomerate	510	520
White, pink, gray clay - sticky	520	530
6S/33E-26ab. Ray Swanson. Elevation 4680 feet‡. Casing 20-inch to 236 feet, 16-inch to 256 feet, and 10-inch to 350 feet. Total depth 350 feet.		
Soil	0	15
Clay, gravel, boulders	15	36
Clay, small boulders	36	85
Clay, gravel, boulders	85	120
Clay with streaks of gravel (water at 126 feet)	120	140
Fine gravel and sand	140	170
Hard sandstone	170	179
Hard shale and gravel	179	230
White shale - fairly solid	230	256
White shale	256	285
Blue shale - fairly soft	285	350
6S/33E-28ca. Fort Hall Indian Reservation. Drilled by M.L. Beath, 1935. Elevation 4548 feet. Casing 6-inch to 200 feet. Total depth 220 feet.		
Clay	0	200
Rock	200	220



WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
6S/34E-3cc. City of Chubbuck, 1959. Elevation 4469 feet. Casing 12-inch to 250 feet. Total depth 255 feet.		
Clay	0	3
Boulders	3	6
Clay and gravel	6	45
Clay, gravel, and some sand, water-bearing	45	91
Clay and sand, water-bearing	91	102
Boulders, water-bearing	102	112
Sand and gravel, water-bearing	112	116
Clay and gravel, water-bearing	116	147
Gravel and sandy clay, water-bearing	147	154
Lava, black, hard	154	183
Clay, red	183	187
Clay, brown	187	200
Clay, yellow	200	215
Lava, black	215	216
Cinders, black and red, water-bearing	216	255
6S/34E-7cc. FMC, 1951 Elevation 4478 feet. Casing 14-inch to 157 feet. Total depth 300 feet.		
Soil	0	10
Clay	10	100
Gravel and water	100	110
Shale and gravel	110	157
Rock (probably rhyolite)	157	300
6S/34E-7cd. J. R. Simplot Co. Drilled by Ivan Bortz, 1958. Elevation 4446 feet. Casing 20-inch to 229 feet. Total depth 229 feet.		
Soil and boulders	0	10
Gravel and boulders	10	40

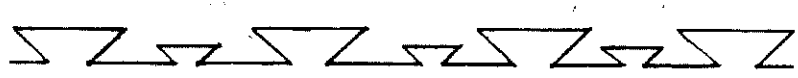




Materials	Depth From	To
6S/34E-7cd. --Continued		
Gravel and sand, few boulders	40	57
Gravel, clay, boulders	57	65
Gravel, sand, clay, and boulders (and a little water)	65	72
Sand, gravel, and rocks, water-bearing	72	81
Layered gray clay, water-bearing	81	102
Gravel, some sand, boulders, water-bearing	102	110
Gray sandy clay	110	118
Gray sandy clay, gravel, and boulders	118	138
Red sandy clay	138	142
Gravel, sand, and some red clay	142	148
Layered brown clay, water-bearing	148	154
Boulders, gravel, some sand and clay, water-bearing	154	160
Small rocks, sand, gravel, less clay, water-bearing	160	170
Four to six inch boulders, sand, gravel, water-bearing	170	188
Dirty gray clay	188	194
Gravel, boulders, and broken lava, water-bearing	194	205
Reddish brown clay	205	207
Broken lava, gravel, some clay, water-bearing	207	212
Broken lava, gravel, lots of clay, sandy, water-bearing	212	215
Dry, hard silty sand	215	217
Sand, rock gravel, and clay	217	223
Very fine sand	223	227
Cobble rock, some clay, sand, and broken lava, water-bearing	227	229

6S/34E-7dc. J. R. Simplot Co.
Drilled by A. J. Schoonover & Son, 1953.
Elevation 4445 feet. Casing 16-inch to
140 feet. Total depth 140 feet.

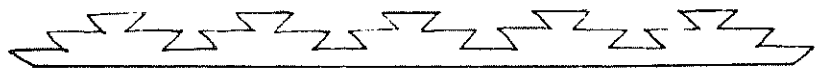
Topsoil	0	4
Big gravel	4	10
Big boulders	10	16
Gravel	16	41
Sand and gravel	41	55
Gravel	55	60
Sand and gravel (water at 62 feet)	60	95
Brown clay	95	100
Gravel and sand	100	140



WELL LOGS - FORT HALL INDIAN RESERVATION

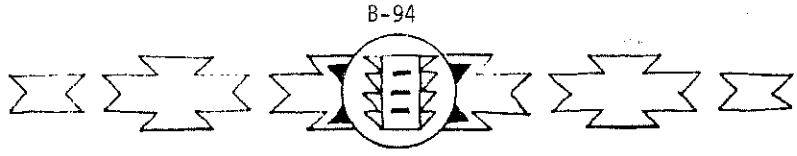
Materials	Depth From	Depth To
6S/34E-8db. W. Hatch, 1952. Elevation 4452 feet. Casing 6-inch. Total depth 60.5 feet.		
Gravel	0	25
Clay and sand	25	33
Sand	33	35
Clay	35	42
Quicksand and clay	42	57
Clay	57	60
Sand, water	60	60.5
6S/34E-15aa. U. S. Navy. Elevation 4468 feet. Casing 12-inch. Total depth 331 feet.		
Clay and topsoil	0	3
Boulders and gravel	3	43
Clay	43	46
Boulders, gravel, and clay	46	70
Gravel, water-bearing	70	80
Clay	80	90
Boulders, gravel, and clay	90	200
Gravel, water-bearing	200	205
Clay and gravel	205	207
Sand	207	209
Gravel and clay, water-bearing	209	215
Clay	215	217
Gravel and clay, water-bearing	217	220
Clay	220	221
Gravel and clay, water-bearing	221	225
Clay	225	227
Gravel, water-bearing	227	230
Clay	230	235
Gravel	235	237
Clay	237	250
Clay, hard	250	254
Gravel	254	255
Clay, hard	255	267
Sand	267	269
Clay, hard	269	273
Gravel, water-bearing	273	328
Clay	328	331

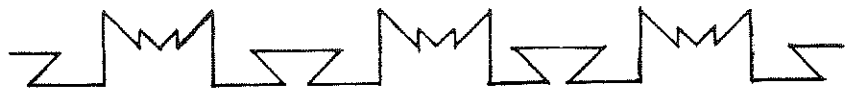
Materials	Depth From	Depth To
6S/34E-27aa. City of Pocatello. Elevation 4460 feet. Casing 12-inch to 380 feet. Total depth 505 feet.		
Topsoil	0	4
Gravel, sandy	4	18
Boulders	18	33
Gravel and tan clay	33	48
Gravel, water-bearing	48	52
Gravel and gray clay	52	69
Gravel and gray-tan clay	69	98
Gravel and gray clay	98	112
Streaks of gravel and tan clay, water-bearing	112	130
Gravel, tan clay, and boulders	130	240
Clay, gray, and gravel	240	254
Gravel, water-bearing	254	256
Gravel and gray-blue clay	256	300
Streaks of gravel and blue clay, water-bearing	300	343
Clay, blue, and occasional streaks of gravel	343	420
Gravel	420	423
Clay, blue	423	442
Clay, sandy, with some gravel	442	445
Clay, blue	445	483
Gravel and blue clay, in small layers	483	505
6S/36E-11ca. Mark Morey c/o Boise Cascade. Drilled by Doug Cushman, 1972. Elevation 5940± feet. Casing 6-inch to 75 feet. Total depth 78 feet.		
Dirt	0	4
Gravel, clay	4	6
Gravel, water-bearing	6	11
Clay and boulders	11	72
Gravel, water-bearing	72	77
Yellow mountain rock	77	78



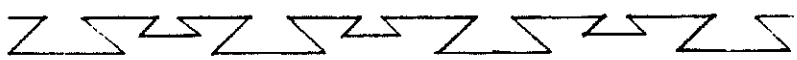
WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
7S/32E-1aaa. Bureau of Indian Affairs. Drilled by Doug Cushman, 1973. Elevation 4445 feet. Casing 16-inch to 175 feet. Total depth 317 feet.		
Soil	0	18
Sand and gravel	18	20
Gravel and clay	20	47
Clay	47	64
Gravel with clay	64	139
Sand and gravel, with clay	139	220
Gravel with clay	220	249
Gravel	249	298
Gravel with clay	298	317
7S/32E-2bdac. Bureau of Indian Affairs. Drilled by Doug Cushman, 1972. Elevation 4440 feet. Casing 16-inch to 296 feet. Total depth 300 feet.		
Soil	0	18
Sand	18	26
Gravel	26	51
Gravel and clay	51	69
Clay	69	81
Sand and clay	81	260
Sand and gravel with clay	260	269
Sand and gravel	269	300
7S/32E-2cbbb. Bureau of Indian Affairs. Drilled by Doug Cushman, 1973. Elevation 4440 feet. Casing 16-inch to 561 feet. Total depth 561 feet.		
Soil	0	17
Sand	17	20
Sand and gravel, with clay	20	39

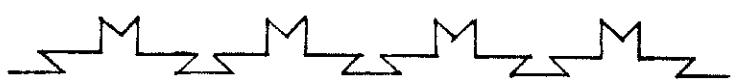




Materials	Depth From	Depth To
7S/32E-2cbbb. --Continued		
Sand and clay	39	87
Gravel and clay	87	99
Clay	99	120
Sand and clay	120	180
Clay	180	186
Sand and clay	186	224
Sand and gravel	224	229
Sandstone and clay	229	261
Sandstone	261	285
Clay, sandstone, and gravel	285	293
Clay and gravel	293	310
Sand and clay	310	331
Sand, sandstone, and clay	331	334
Sandstone	334	395
Sandstone and clay	395	403
Sandstone	403	518
Sandstone and clay	518	527
Sandstone	527	538
Sandstone and clay	538	548
Sand	548	552
Sandstone and clay	552	561
7S/32E-3cd. Bureau of Indian Affairs. Drilled by Doug Cushman, 1973. Elevation 4440 feet. Casing 16-inch to 364 feet. Total depth 475 feet.		
Clay	0	16
Sand	16	20
Clay	20	40
Sand and clay	40	160
Clay	160	166
Sand and gravel with clay	166	200
Sandstone	200	250
Sand and clay	250	268
Sand and gravel	268	288



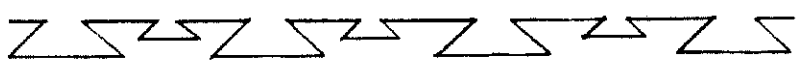
Materials	Depth From	Depth To
7S/32E-3cd. --Continued		
?	288	333
Sand and clay	333	360
Sandstone	360	414
Sandstone and gravel	414	440
Gravel	440	444
Rock	444	475
7S/32E-3dbdd. Bureau of Indian Affairs. Drilled by Doug Cushman, 1973. Elevation 4440 feet. Casing 16-inch to 434 feet, 12-inch from 425 to 540 feet. Total depth 540 feet.		
Clay	0	57
Sand and clay	57	108
Gravel and clay	108	139
Broken sandstone and clay	139	164
Clay	164	211
Broken sandstone	211	289
Clay	289	298
Gravel and clay	298	350
Sandstone	350	397
?	397	423
Gravel and clay	423	468
Sandstone	468	485
Sandstone and clay	485	504
Gravel and clay	504	509
Sandstone	509	540
7S/32E-9ddbb. Anderson and Martin Farms. Drilled by Verl Chesley, 1964. Elevation 4575 feet. Casing 20-inch to 401 feet. Total depth 445 feet.		
Brown sandy soil	0	125
Gray hard pan	125	140



Materials	Depth From	Depth To
7S/32E-9ddbb. --Continued		
Brown packed sandy soil (seepage from 190)	140	290
Brown packed sandy soil with small gravel	290	345
Dark brown sandstone (water-bearing)	345	362
Gray sandstone	362	427
Gray sandstone some clay mixed in	427	445
7S/32E-10dbba. Anderson - Martin. Drilled by Verl Chesley, 1962. Elevation 4572 feet. Casing 20-inch to 396 feet. Total depth 450 feet.		
Brown sand and clay	0	90
Gray clay	90	141
Brown sand and clay	141	279
Brown gravel and clay	279	310
Sand and gravel	310	326
Sand and clay	326	345
Brown sandstone	345	433
Gray sandstone	433	450
7S/32E-11ccbb. Anderson - Martin, 1961. Elevation 4583 feet. Casing 20-inch to 400 feet. Total depth 750 feet.		
Sandy clay	0	212
Sand and gravel, water-bearing	212	218
Silt	218	272
Gravel and clay	272	301
Clay	301	325
Sand, gravel, silt, and clay	325	377
Scattered gravel and clay	377	406
Sand, clay, and silt	406	750

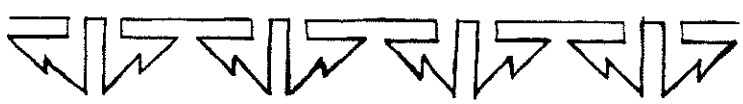
WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
7S/32E-15ab. Gas Pumping Plant, 1955. Elevation 4615 feet. Total depth 358 feet.		
Dense volcanic ash	0	217
Lava, sand, gravel, some silt	217	358
7S/32E-15baaa. Anderson, Martin, and Clements. Drilled by Verl Chesley, 1962. Elevation 4636 feet. Casing 20-inch to 413 feet. Total depth 515 feet.		
Brown sandy clay	0	180
Grayish clay	180	210
Brown sandy clay	210	300
Coarse-packed sand	300	320
Fine gravel packed in sandy clay (stands)	320	336
Coarse gravel packed in sand (stands fairly good)	336	347
Dark brown sandstone	347	430
Gray sandstone	430	445
Dark brown sandstone	445	480
Brown sandstone with strips of clay	480	510
Gray clay	510	515
7S/32E-15ca. Shoshone-Bannock Tribes. Drilled by M. L. Beath, 1935. Elevation 4610 feet. Casing 6-inch to 50 feet. Total depth 275 feet.		
Clay	0	50
Shale, black and dark blue	50	275
7S/32E-22ab. Shoshone-Bannock Tribes. Drilled by M. L. Beath, 1936. Elevation 4590 feet. Casing 6-inch to 175 feet. Total depth 234 feet.		
Clay and gravel (water at 139 feet)	0	175
Lava (water at 200 and 234 feet)	175	234



WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
7S/33E-5acdd. Pete Hubbard. Drilled by A. J. Schoonover, 1951. Elevation 4484 feet. Casing 16-inch. Total depth 232 feet.		
Sandy soil	0	20
Sandy soil and gravel strips	20	40
Sandy soil	40	88
Clean gravel	88	90
Sandy soil	90	94
Gravel	94	120
Sandy soil	120	145
Gravel	145	148
Sandy soil	148	156
Sandy soil and gravel	156	165
Gravel	165	170
Dirt and gravel	170	180
Sandy soil and clay	180	205
Sandy soil and gravel	205	232
7S/33E-6bbcc. Bureau of Indian Affairs. Drilled by Doug Cushman, 1972. Elevation 4460 feet. Casing 16-inch to 322 feet. Total depth 330 feet.		
Clay	0	19
Gravel	19	21
Gravel with clay	21	145
Sand and clay	145	176
Gravel with clay	176	211
Clay	211	232
Gravel with clay	232	249
Sand and gravel with clay	249	305
Clay	305	309
Gravel with clay	309	330

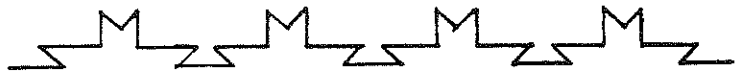


WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
7S/33E-6cdab. Bureau of Indian Affairs. Drilled by Doug Cushman, 1972. Elevation 4460 feet. Casing 16-inch to 401 feet. Total depth 405 feet.		
Clay	0	18
Gravel	18	25
Clay	25	40
Gravel	40	44
Clay	44	64
Gravel	64	122
Shale	122	137
Clay	137	145
Shale and clay	145	149
Gravel	149	152
Clay	152	169
Gravel and clay	169	380
Sandstone	380	405
7S/33E-6cdad. Bureau of Indian Affairs. Drilled by Doug Cushman, 1972. Elevation 4455. Casing 16-inch to 532 feet. Total depth 735 feet.		
Clay	0	14
Gravel	14	18
Sand and clay	18	72
Sand and gravel with clay	72	83
Gravel with clay	83	267
Sand and clay	267	274
Sand and gravel with clay	274	294
Sandstone	294	322
Sand and gravel, with clay	322	498
Sand	498	508
Sandstone	508	735

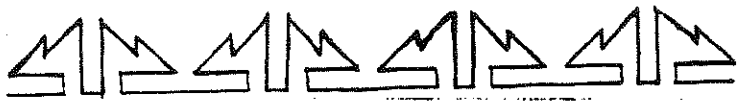
WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
7S/33E-7aa. Drilled by O. H. Marquard, 1953. Elevation 4460 feet. Total depth 220 feet.		
Soil	0	16
Clay	10	24
Gravel and clay with water	24	30
Gravel and clay	30	45
Gravel - water	45	65
Gravel, sand, and clay	65	80
Clay and some gravel	80	95
Clay	95	97
Gravel	97	115
Gravel and some sand, water	115	138
Sand and clay (red bed or lake bed)	138	180
Sand	180	182
Gravel, coarse	182	190
Gravel, sand	190	200
Gravel	200	204
Clay	204	220
7S/33E-7aadd. H. H. Zimmerli. Drilled by A. J. Schoonover & Son, 1953. Elevation 4460 feet. Casing 20 and 16-inch to 315 feet. Total depth 315 feet.		
Topsoil	0	25
Soil	25	50
Soil and hardpan	50	75
Gravel, little water	75	78
Gravel	78	96
Lava rock	96	182
Broken lava rock	182	192
Black lava cinders	192	195
Red lava cinders	195	205
Sand and fine gravel	205	215
Sand, fine gravel, clay	215	250
Fine sand	250	252
Sandstone	252	310
Fine sand and gravel	310	315



WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
7S/33E-7ba. John Yamayoto. Elevation 4520 feet. Casing 6-inch to 235 feet. Total depth 235 feet.		
Dirt	0	6
Brown clay	6	37
Light brown sandstone	37	40
Sand and brown clay	40	120
Brown clay and white rock	120	135
Brown clay, sand and rock (water)	135	160
Sand, brown clay	160	230
Fine gravel, good water (water came up to 113 feet)	230	235
7S/33E-7da. H.H. Zimmerli, 1954. Elevation 4465 feet. Total depth 198 feet.		
Topsoil	0	2
Black silt	2	22
Gravel and clay	22	28
Soft sandy clay	28	48
Gravel and clay	48	50
Gravel with some clay	50	60
Brown gravel	60	62
Brown sandy clay	62	63
Gravel	63	73
White clay, sticky	73	95
Coarse sand	95	96
Light clay and gravel	96	100
Coarse sand and gravel	100	105
Sand, gravel, and some clay	105	116
Coarse fairly clean gravel	116	120
Dirty gravel	120	125
Clay	125	138
Small gravel (water)	138	143
Clay and sand	143	183
Gravel (water)	183	184
Clay and coarse sand	184	198

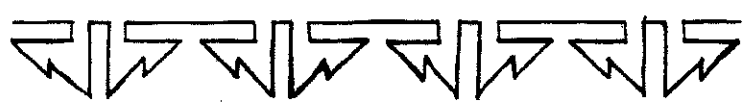


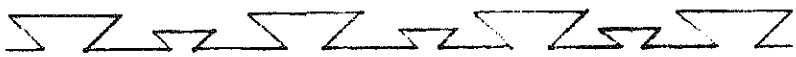
WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
7S/33E-7ddc. H.H. Zimmerli. Drilled by A.J. Schoonover & Son. Elevation 4480 feet. Casing 20-inch to 190.5 feet. Total depth 220 feet.		
Topsoil	0	10
Clay	10	24
Clay, gravel, some water	24	30
Gravel and clay	30	45
Gravel	45	70
Gravel and clay	70	80
Clay and gravel	80	95
Clay	95	97
Gravel	97	115
Gravel and sand	115	125
Gravel	125	138
Sand and clay	138	180
Silt and sand	180	182
Gravel	182	190
Gravel and sand	190	204
Clay	204	220
7S/33E-20bb. H.H. Zimmerli. Drilled by A.J. Schoonover & Son, 1953. Elevation 4530 feet. Casing 20 and 8-inch. Total depth 445 feet.		
Topsoil	0	16
Gravel	16	20
Sand and gravel	20	34
Lake bed and clay	34	50
Coarse gravel	50	87
Clay	87	95
Lake bed, light color	95	140
Gray clay	140	146
Sand	146	155
Sandstone	155	165
Sand, light color	165	185
Clay	185	195

WELL LOGS - FORT HALL INDIAN RESERVATION

Materials	Depth From	Depth To
7S/33E-20bb. --Continued		
Sand	195	225
Clay	225	245
Gravel	245	250
Clay	250	285
Sand	285	355
Clay	355	362
River sand	362	375
Sand	375	445
7S/33E-20bc. H.H. Zimmerli. Elevation 4530 feet. Casing 20-inch. Total depth 220 feet.		
Topsoil	0	10
Clay	10	24
Gravel and clay	24	45
Gravel	45	65
Gravel and sand	65	80
Clay and gravel	80	95
Clay	95	97
Gravel	97	115
Gravel and sand	115	125
Gravel	125	138
Sand and clay	138	165
Clay	165	180
Silt sand	180	182
Gravel and sand	182	204
Clay	204	220
9S/33E-3ccb. Grace Jackson. Drilled by Cushman and Johnson, 1964. Elevation 4895 feet. Casing 6-inch to 151 feet. Total depth 157 feet.		
Soil	0	4
Gravel and boulders	4	26
Sandy clay	26	35
Sticky clay	35	75
Hard sandstone	75	91
Sandy clay	91	101





WELL LOGS - [illegible] RESERVATION

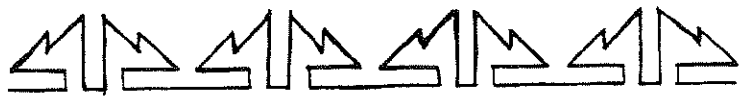
Materials	From	To
9S/33E-3ccb. --Continued		
Sandy clay (heaves in casing)	101	104
Sandy clay (stands)	104	115
Hardpan	115	116
Soft sandy clay (stands open)	116	141
Sand, compact	141	151
Lava	151	157

APPENDIX C: WATER LEVEL MEASUREMENTS

Well	Date	Water Level
2S/36E-36cb Elev. 4580	9/11/75	26.89
2S/36E-36cdd	Hydrograph	
2S/37E-19aa	Hydrograph	
2S/37E-30ab Elev. 4600	9/11/75	30.38
3S/34E-26dbbb Elev. 4456	2/24/78	45.69
	3/20/78	45.83
	5/9/78	45.34
	6/6/78	44.62
	7/7/78	44.63
	8/8/78	44.21
3S/34E-27cdcd Elev. 4445	12/21/73	30.63
	3/20/74	31.63
	6/21/74	28.52
	10/24/75	29.37
3S/34E-27dda	Hydrograph	
3S/34E-33aadb Elev. 4490	12/21/73	82.70
	3/20/74	83.78
	6/21/74	93.67
	10/24/75	86.48
	5/27/77	83.25
	7/29/77	83.70
3S/34E-33dcd	Hydrograph	
3S/35E-8dbdc	Hydrograph	
3S/35E-9cdda Elev. 4477	4/22/77	37.55
	5/27/77	29.42
	6/24/77	20.54
3S/35E-10cbc	Hydrograph	
3S/35E-18daaa	Hydrograph	
3S/35E-20cdd Elev. 4475	12/5/77	56.58

Well	Date	Water Level
3S/35E-21adaa Elev. 4485	2/24/78	52.79
	3/15/78	54.34
	4/7/78	55.48
	5/9/78	55.18
	6/6/78	51.39
	7/7/78	43.10
3S/35E-21bba Elev. 4482	8/5/77	27.94
	12/6/77	37.23
	1/6/78	41.60
	2/8/78	44.86
	3/8/78	46.02
	8/8/78	35.66
3S/35E-30bcdd Elev. 4467	4/26/77	48.27
3S/35E-30cab Elev. 4467	4/22/73	45.73
	9/21/73	35.73
	12/21/73	42.31
	3/20/74	46.37
	6/21/74	45.74
3S/35E-32cbbb Elev. 4469	4/8/77	53.94
3S/35E-32cbbb Elev. 4469	4/8/77	53.17
3S/36E-2dba	Hydrograph	
3S/36E-25adc	Hydrograph	
3S/36E-27dd Elev. 5043	4/21/77	322.08
	5/11/77	321.99
4S/33E-36aac	Hydrograph	
4S/34E-1baba Elev. 4454**	10/25/73	32.43
	11/26/73	21.14
	12/27/73	21.85
	1/23/74	34.91
	2/14/74	20.91
	3/20/74	20.53
	4/23/74	21.35

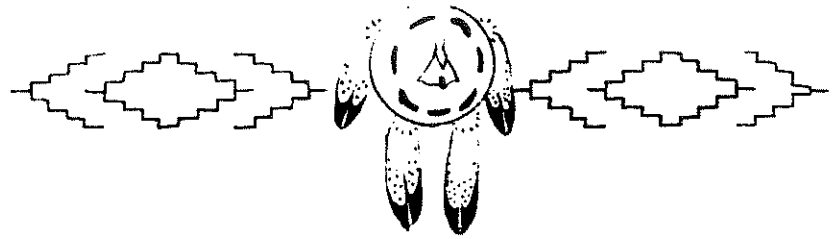
* indicates pump was running during measurement
** indicates well is in basement below ground



Well	Date	Water Level
4S/34E-1baba (cont'd.)	5/22/74	20.93
	6/21/74	20.77
	7/23/74	19.75
	8/23/74	20.30
	9/19/74	19.68
	8/1/75	14.99
	9/2/75	18.95
	10/1/75	19.18
4S/34E-2aa	Hydrograph	
4S/34E-4cddc Elev. 4435	12/20/73	20.21
	3/20/74	20.82
	6/21/74	29.68
	8/18/75	19.41
4S/34E-5ccdc	Hydrograph	
4S/34E-12dcbb Elev. 4450	12/20/73	37.61
	3/20/74	39.38
	6/21/74	48.72*
	8/13/75	38.16
4S/34E-13ddba	Hydrograph	
4S/34E-15bbbb	Hydrograph	
4S/34E-16cddd Elev. 4440	1/19/78	30.29
4S/34E-17cbca Elev. 4425	12/20/73	33.24
	3/20/74	33.53
	6/21/74	33.45
	8/18/75	33.23
4S/34E-20dddb	Hydrograph	
4S/34E-21cdaa Elev. 4435	12/20/73	23.92
	3/19/74	23.82
	6/21/74	31.45*
	8/13/75	23.42
4S/34E-22aacc	Hydrograph	

Well	Date	Water Level
4S/34E-24bcbb Elev. 4440	5/23/76	27.12
4S/34E-26bacd	Hydrograph	
4S/34E-27aabb	Hydrograph	
4S/34E-27ccaa Elev. 4425	12/20/73	14.99
	3/19/74	14.68
	6/20/74	24.02*
4S/34E-27dacc Elev. 4431	12/20/73	19.87
	3/19/74	20.68
	6/20/74	27.35*
	12/13/75	20.23
4S/34E-28cdcc	Hydrograph	
4S/34E-32adaa	Hydrograph	
4S/34E-32bbdd Elev. 4420	12/13/76	10.21
	2/15/77	10.50
	3/24/77	10.75
	4/26/77	11.34
	6/24/77	11.64
4S/34E-33ccbb Elev. 4424	12/13/76	14.26
4S/34E-34cabb	Hydrograph	
4S/34E-36baab	Hydrograph	
4S/35E-5bbab	Hydrograph	
4S/35E-6bbb Elev. 4465	2/24/78	48.84
	3/20/78	49.29
	5/9/78	49.84
	6/6/78	49.27
	7/7/78	48.73
	8/8/78	46.63
4S/35E-6cbdd Elev. 4504	7/29/77	86.48

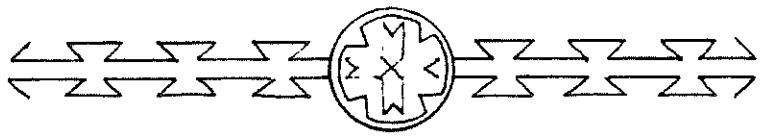
Well	Date	Water Level
4S/35E-6cdaa Elev. 4462	4/23/76	49.38
4S/35E-8cabc Elev. 4472	4/3/73	57.52
	9/21/73	52.44
	12/24/73	55.27
	4/3/74	56.23
	6/21/74	58.92*
4S/35E-12bddd	Hydrograph	
4S/35E-13dbaa Elev. 4677	4/12/77	227.22
4S/35E-17adb	Hydrograph	
4S/35E-17bdba Elev. 4462	12/24/73	44.67
	3/22/74	48.18
	6/21/74	47.39
	10/24/75	42.37
4S/35E-17dccc Elev. 4455	12/21/73	38.81
	3/21/74	41.01
	6/21/74	41.88*
4S/35E-18acbb Elev. 4447	4/26/77	34.38
4S/35E-19bdbb Elev. 4439	4/23/76	29.90
4S/35E-19ddba Elev. 4434	12/24/73	15.96
	3/21/74	18.19
	6/21/74	18.82
4S/35E-24cacd	Hydrograph	
4S/35E-28acaa	Hydrograph	
4S/35E-29adbb Elev. 4473	9/29/71	53.13
	10/11/71	53.33
	11/9/71	53.92
4S/35E-29adbb (Cont'd.)	12/24/73	55.93
	3/21/74	58.48
	6/21/74	58.38
	10/24/75	55.78
4S/35E-33db Elev. 4562	12/8/77	107.82
	1/12/78	110.94
	2/10/78	109.83
	3/21/78	109.86
	4/6/78	109.83
	5/10/78	109.94
	6/7/78	109.34
	7/10/78	109.49
	8/10/78	109.93
4S/35E-34cab Elev. 4600	12/8/77	140.00
	1/12/78	140.00
	2/10/78	138.71
	3/21/78	139.11
	5/6/78	139.09
	5/10/78	144.04
	6/7/78	140.50
	7/10/78	141.54
	8/10/78	141.58
4S/36E-18caad Elev. 4720	3/24/76	264.20
	5/12/77	269.20
4S/36E-19dbbb Elev. 4730	3/24/76	281.70
4S/36E-20bcbd	Hydrograph	
4S/36E-30bbdc	Hydrograph	
4S/36E-32cccb	Hydrograph	
5S/32E-36cddd	Hydrograph	
5S/33E-12caba Elev. 4415	9/29/71	5.54
	8/16/76	6.76
	11/29/77	7.12



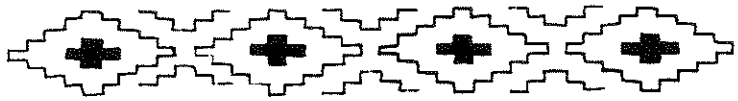
Well	Date	Water Level
5S/33E-12dbba	9/29/71	7.58
Elev. 4413	10/11/71	7.78
	11/10/71	8.10
	12/20/73	8.94
	3/18/74	9.58
	6/20/74	9.92
	10/24/75	7.41
	5/7/76	8.47
	2/15/77	8.34
5S/33E-24cac	12/20/73	47.01
Elev. 4446	3/18/74	48.91
	6/20/74	48.31
	8/18/75	46.74
	10/6/76	59.74
	11/9/76	59.71
5S/33E-28ccbb	Hydrograph	
5S/33E-28cdd	11/12/77	29.21
Elev. 4420		
5S/33E-31ccdd	11/24/75	18.13
Elev. 4415	8/18/76	23.01
	9/23/76	21.49
5S/33E-31dcdd	6/15/76	27.22
Elev.	2/23/77	20.20
	3/15/77	20.34
	4/28/77	21.76
	8/8/77	26.39
	10/14/77	21.66
5S/33E-32acdd	11/21/75	26.82
Elev. 4428	8/18/76	29.15
5S/33E-32dcdd	2/23/77	11.79
Elev. 4414	3/15/77	11.98
5S/33E-34addd	12/19/73	13.12
Elev. 4416	3/18/74	13.78
	6/19/74	15.22
	9/23/75	13.60
5S/33E-34addd (Cont'd.)	11/25/75	12.80
	5/13/76	13.37
	8/18/76	14.19
5S/33E-34ccbb	11/21/75	34.57
Elev. 4437	8/18/76	36.87
5S/33E-34cddd	11/25/75	27.60
Elev. 4430	8/18/76	29.24
	9/23/76	28.58
	12/14/76	28.38
	2/23/77	28.73
	3/15/77	28.92
	10/14/77	28.96
5S/33E-35ccdd	Hydrograph	
5S/33E-35dcdc	Hydrograph	
5S/33E-36cdc	1/25/78	14.92
Elev. 4402		
5S/34E-5bbdd	8/13/76	9.72
Elev. 4425	9/9/76	9.11
	5/26/77	10.82
5S/34E-9bcad	12/20/73	27.92
Elev. 4431	3/19/74	28.65
	6/20/74	29.39
5S/34E-12cccc	12/20/73	69.60
Elev. 4495	3/19/74	73.11
	6/20/74	68.26
5S/34E-15aaa	Hydrograph	
5S/34E-16bbbb	Hydrograph	
5S/34E-18adcc	8/13/76	49.30
Elev. 4457		
5S/34E-18bcaa	12/20/73	15.30
Elev. 4423	3/18/74	15.98

Well	Date	Water Level
5S/34E-18bcaa (Cont'd.)	6/20/74	18.46
	8/18/75	15.49
	5/10/76	15.69
	8/8/77	16.05
5S/34E-20cbbb	Hydrograph	
5S/34E-21dcdd	Hydrograph	
5S/34E-26aacb	12/20/73	110.15
Elev. 4525	3/19/74	112.94
	6/20/74	144.24*
5S/34E-27baab	12/20/73	59.68
Elev. 4465	3/19/74	60.89
	6/20/74	62.51
5S/35E-6abbb	12/20/73	61.39
Elev. 4480	3/19/74	63.08
	6/20/74	62.88
	8/14/75	60.91
	6/23/76	105.79
	7/8/76	74.46
5S/35E-7ccbd	Hydrograph	
5S/36E-4cbc	4/4/77	71.75
Elev. 4910		
5S/36E-5adba	4/8/77	78.90
Elev. 4865		
5S/36E-5cbd	2/14/74	177.83
Elev. 4810	3/21/74	178.85
	4/23/74	178.80
	5/25/74	177.72
	6/21/74	176.51
	7/24/74	176.81
	8/23/74	183.03
	9/20/74	196.41
	9/4/75	178.50
	10/1/75	176.58
	2/4/76	185.97
	4/7/76	186.80
	6/23/76	183.80
	10/5/76	177.93

Well	Date	Water Level
5S/36E-5cddd	4/8/77	92.91
Elev. 4840		
5S/36E-6aacc	10/5/77	115.4
Elev. 4770	11/18/77	117.6
	1/23/78	121.79
	1/27/78	122.08
5S/36E-6dadd	4/8/77	151.67
Elev. 4805	6/8/77	150.24
	7/11/77	153.12
	8/3/77	153.42
	9/8/77	150.77
	10/5/77	150.45
	11/7/77	152.74
	1/12/78	156.73
5S/36E-8bcbb	Hydrograph	
5S/36E-16bcba	4/8/77	169.00
Elev. 4960	6/8/77	64.03
	7/11/77	106.79
	8/3/77	59.19
	9/8/77	58.06
	10/5/77	58.68
	11/7/77	59.43
	12/7/77	61.27
	1/12/78	61.18
	2/10/78	60.19
	3/21/78	58.18
	4/6/78	62.51
	5/10/78	63.02
	6/7/78	61.11
	7/10/78	57.44
	8/10/78	56.47
5S/36E-16cbba	4/8/77	55.75
Elev. 4980		
5S/36E-17ac	10/5/77	173.7
Elev. 4930	11/18/77	172.8
	1/23/78	176.51
	1/26/78	176.41
5S/36E-17aca	9/8/77	34.39
Elev. 4930**		

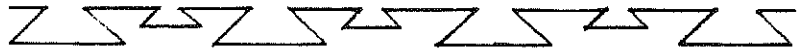


Well	Date	Water Level
5S/36E-17bbdd	Hydrograph	
5S/36E-18aad Elev. 4886	9/11/75	10.97
5S/36E-21bcbb Elev. 5020	10/5/77 11/18/77	236.3 235.9
5S/36E-21cd Elev. 5100	10/5/77 11/18/77	58.75 59.04
6S/32E-1abaa Elev. 4415	7/19/76	52.41
6S/32E-1babb Elev. 4398	7/19/76 8/18/76	6.98 4.98
6S/32E-1cacc Elev. 4406	11/24/75 8/17/76	8.97 33.39
6S/32E-1dbdd Elev. 4411	11/21/75	13.59
6S/32E-2abda Elev. 4394	11/24/75	20.00
6S/32E-2cbdd Elev. 4381	11/24/75 12/14/76 3/15/77	10.99 12.93 6.74
6S/32E-2dacc Elev. 4406	11/24/75	24.96
6S/32E-10acab Elev. 4388	11/24/75 8/18/76 12/13/76 4/28/77	21.46 47.68 27.68 18.56
6S/32E-10dbdd Elev. 4397	11/24/75 8/8/77	26.78 56.43
6S/32E-11adbb Elev. 4402	11/24/75	15.62
6S/32E-11bdbb Elev. 4399	11/24/75	27.97
6S/32E-11ccaa Elev. 4394	11/24/75	11.83
6S/32E-12abaa Elev. 4420	11/21/75	21.77
6S/32E-12bdbb Elev. 4410	11/21/75	17.16
6S/32E-12cacc Elev. 4406	11/21/75 8/8/77	7.89 30.49
6S/32E-12ddcc Elev. 4415	11/21/75 8/18/76 3/15/77 11/12/77	13.90 18.13 12.63 14.65
6S/32E-13bdaa Elev. 4408	11/24/75	6.65
6S/32E-14aabb	Hydrograph	
6S/32E-14bcad Elev. 4406	11/24/75	21.59
6S/32E-15adbb Elev. 4399	11/24/75	25.69
6S/32E-22cacc	Hydrograph	
6S/32E-22dacc Elev. 4409	2/10/76	26.22
6S/32E-23ccdd Elev. 4417	2/9/76	29.37
6S/32E-23ddcc Elev. 4425	2/10/76 8/17/76 3/15/77	31.84 37.20 31.58
6S/32E-24bddd	Hydrograph	



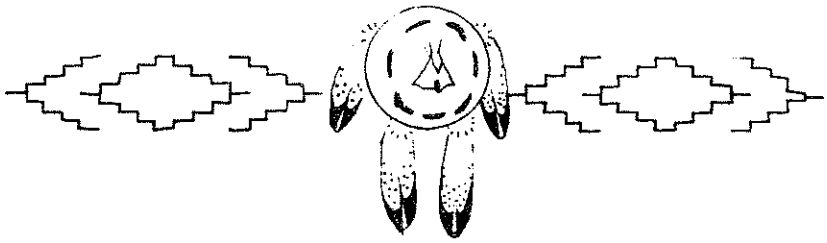
Well	Date	Water Level
6S/32E-26ba	Hydrograph	
6S/32E-27aacc	Hydrograph	
6S/32E-27adca	Hydrograph	
6S/32E-27bdbb Elev. 4410	2/10/76	35.49
6S/32E-27ccbb Elev. 4411	2/10/76	35.96
6S/32E-28accc Elev. 4407	2/9/76	41.83
	12/13/76	47.47
	3/15/77	39.64
6S/32E-28cdca Elev. 4413	12/19/73	48.46
	3/18/74	46.24
	6/19/74	93.10*
	9/23/75	58.05
	2/9/76	45.76
6S/32E-29ddaa Elev. 4404	12/19/73	47.14
	3/18/74	44.67
	6/19/74	72.70*
	9/23/75	64.32*
	2/10/76	44.19
6S/32E-33bbbb	Hydrograph	
6S/33E-1dacc	Hydrograph	
6S/33E-3acdd Elev. 4432	11/25/75	29.77
6S/33E-3bcdd Elev. 4424	11/21/75	21.47
6S/33E-4babb Elev. 4416	11/24/75	12.99
	2/23/77	14.16
	3/15/77	14.35
	4/28/77	15.41
	5/31/77	14.67
	8/8/77	15.52
	10/14/77	14.33

Well	Date	Water Level
6S/33E-4 adbb Elev. 4421	11/25/75	19.26
6S/33E-5bdaa Elev. 4432	11/24/75	29.08
6S/33E-5cacc	Hydrograph	
6S/33E-5ddbb Elev. 4417	9/2/75	16.40
	11/24/75	15.56
6S/33E-6abaa Elev. 4419	11/24/75	17.65
6S/33E-6babb Elev. 4418	2/23/77	20.44
	3/15/77	20.56
6S/33E-7bcdd Elev. 4413	11/21/75	10.87
6S/33E-7cbdd Elev. 4415	11/24/75	12.70
6S/33E-8bcaa Elev. 4417	11/24/75	13.84
6S/33E-8ccaa Elev. 4425	12/19/73	22.40
	3/18/74	22.89
	6/19/74	46.80
	9/23/75	23.52
	11/21/75	22.17
	5/13/76	22.44
	8/18/76	24.53
6S/33E-9c Elev. 4450	11/24/75	49.26
6S/33E-11dbda Elev. 4452	11/21/75	53.27
6S/33E-12bbcc Elev. 4443	8/19/76	43.06
6S/33E-15accd Elev. 4463	12/10/75	62.98



Well	Date	Water Level
6S/33E-16cbbb Elev. 4431	11/24/75	28.69
6S/33E-18adcb Elev. 4420	11/21/75 8/8/77	18.12 23.29
6S/33E-18bbaa Elev. 4422	8/17/76 3/15/77 4/28/77 5/31/77 6/10/77	23.16 20.53 22.12 21.13 26.61
6S/33E-19aacc Elev. 4423	11/24/75	21.36
6S/33E-21acad Elev. 4472	11/25/75	71.42
6S/33E-21bcbb Elev. 4436	12/18/73 3/18/74 6/19/74 9/4/75 9/23/75 11/21/75	47.22 35.35 53.87* 39.77* 35.80 34.28
6S/33E-22babb	Hydrograph	
6S/33E-22ccbb Elev. 4508	11/25/75	107.93
6S/33E-30ccbb	Hydrograph	
7S/32E-1aaac Elev. 4445	12/19/73 3/18/74	42.78 43.16
7S/32E-2bdac Elev. 4440	12/19/73 3/18/74 6/19/74 9/23/75 2/9/76 12/13/76	49.43 50.03 72.02* 70.27* 53.10 53.91
7S/32E-2cbbb Elev. 4440	2/9/76	50.01

Well	Date	Water Level
7S/32E-3dbd	Hydrograph	
7S/32E-11ccbb Elev. 4583	2/18/76	190.90
7S/33E-5acdd Elev. 4484	2/18/75	71.47
7S/33E-6bbcc Elev. 4460	2/9/76	44.50
7S/33E-6cdab	Hydrograph	
7S/33E-6cdad Elev. 4455	2/9/76	44.24
7S/33E-8dbba	Hydrograph	
7S/33E-20abbb Elev. 4505	12/18/73 3/18/74 6/19/74 9/23/75	34.59 47.82 49.93 39.57
7S/33E-20dcbc	Hydrograph	
8S/33E-27cba Elev. 4740	9/5/75	12.74
9S/33E-3ccb Elev. 4895	9/12/75	13.08



APPENDIX D: WATER QUALITY ANALYSES, PERFORMED BY ROBINSON & NOBLE, INCORPORATED

BLACKFOOT RIVER BASIN

Deadman Creek

Location: 4s/38E-13aa
At Portneuf Presto Trail Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 20	9	64	420	8.30	220	200	35	22	.22	.4	.09	-	-	-	-	
October 14	4	46	460	8.10	190	240	30	-	-	-	-	-	-	-	-	
1976																
June 21	12	72	470	8.20	180	195	27.5	19	.24	.2	.07	-	8	-	.07	
July 21	8	70	520	8.29	170	185	27.5	19	.22	.4	.03	.48	8	-	.04	
September 16	4	65	-	8.20	180	200	27.5	19	.21	.3	.04	.40	8	-	.04	
October 29	3	40	-	8.05	195	210	30	17	.17	.3	.05	.33	11	-	.07	
1977																
April 26	14	59	515	-	220	245	27.5	24	.53	.8	-	.63	10	-	-	
June 20	27	63	395	7.40	160	170	25	15	.57	.2	.03	.60	8	-	-	
October 20	7	54	430	8.20	185	205	25	21	.33	.2	.02	-	-	-	.03	
November 16	4	35	460	-	190	210	25	22	.21	.2	.03	.35	-	-	-	

BLACKFOOT RIVER BASIN

Deadman Spring

Location: 4s/38E-13ad
At Portneuf Presto Trail Crossing

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 14	1	59	330	7.75	150	130	40	24	.18	-	.03	-	-	-	-	
1976																
June 21	0	67	400	7.65	140	150	20	25	.08	.7	.03	.32	5	-	.02	
July 21	0	67	380	7.50	130	130	17.5	23	.06	.5	.02	.40	5	-	.00	
October 29	0	59	-	7.45	125	125	15	23	.08	.7	.04	.35	-	-	.00	
1977																
April 26	3	68	335	-	125	135	17.5	24	.23	.7	-	.51	-	-	-	
November 16	2	48	332	-	115	145	15	28	.19	.6	.03	.32	-	-	-	

BLACKFOOT RIVER BASIN

Beaver Creek

Location: 3s/38E-25db
At Portneuf Presto Trail Crossing

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
June 21	3	59	230	7.60	105	95	15	4	.41	.3	.03	.28	8	-	.00	

BLACKFOOT RIVER BASIN

Short Creek

Location: 3s/38E-23ac
At Portneuf Presto Trail Crossing

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 20	5	60	290	7.75	120	140	20	3	.25	.3	.04	-	-	-	-	
October 14	2	48	270	8.00	130	120	30	-	-	-	-	-	-	-	-	
1976																
June 21	2	63	290	7.95	120	125	20	2	.21	.2	.05	-	8	-	.00	
September 16	12	60	-	7.57	120	125	20	3	.38	.3	.08	.38	-	-	-	
October 29	3	39	-	7.60	115	120	17.5	2	.26	.3	.03	.32	10	-	.00	

BLACKFOOT RIVER BASIN

Wood Creek

Location: 3s/38E-16aba
At Portneuf Presto Trail Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron µg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 20	15	60	475	8.60	170	230	35	18	.23	.4	.08	-	-	-	-	
October 14	8	44	460	8.30	180	200	30	-	-	-	-	-	-	3/3	-	
1976																
June 21	11	63	530	8.38	195	210	30	16	.30	.3	.08	-	9	3/3	.03	
July 21	18	67	540	8.30	200	215	27.5	16	.24	.3	.03	.37	8	-	.02	
September 16	15	58	-	8.28	195	220	27.5	16	.20	.4	.06	.38	9	-	-	
October 29	3	40	-	8.05	195	210	30	17	.17	.3	.05	.33	11	-	.07	
1977																
April 26	15	55	450	-	185	215	27.5	16	.39	.6	-	.53	10	-	-	
May 25	10	52	460	8.29	195	215	27.5	17	.40	.3	.07	.52	9	-	.02	
June 20	9	60	475	7.77	200	210	27.5	16	.70	.3	.05	.57	8	-	.06	
September 20	5	-	470	8.46	190	220	25	16	.38	.2	.03	-	-	-	-	
October 20	3	50	460	8.35	195	210	25	17	.28	.2	.03	-	-	-	.06	
November 16	8	35	450	8.06	190	210	25	18	.23	.2	.02	.32	-	-	-	

BLACKFOOT RIVER BASIN

Garden Creek

Location: 2s/37E-17dda
At Power Line Crossing

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 20	600	55	520	8.40	300	250	30	11	2.10	-	.13	-	-	-	-	Mudslide above station
August 20	27	-	525	8.45	250	240	30	23	.42	.5	.13	-	-	-	-	Above Mudslide
October 14	15	42	495	8.20	225	250	30	24	.38	-	.06	-	-	3/3	-	
December 3	44	34	560	8.10	-	-	-	-	-	.0	-	-	11	3/3	-	
1976																
January 15	50	35	530	8.15	220	240	25	23	.42	.8	.17	-	-	-	-	
February 23	42	32	550	8.35	220	245	22.5	23	.33	.4	.10	-	12	-	-	
March 16	850	33	191	8.00	90	90	7.5	0	1.00	.0	.13	-	-	-	-	
April 30	78	55	560	8.35	230	250	25	25	.27	.3	.03	-	9	-	-	
May 26	34	57	580	8.35	220	250	27.5	24	.35	.2	.04	.42	10	-	.07	
June 17	68	56	580	8.25	230	250	27.5	23	.34	.2	.03	-	9	-	-	
July 20	112	63	620	8.41	225	250	25	22	.28	.2	.04	.41	8	-	-	
August 25	28	-	525	8.47	220	250	25	22	.28	.3	.03	-	8	-	-	
September 16	31	56	-	8.42	225	245	25	22	.27	.2	.04	.46	8	-	.03	
October 29	15	37	-	8.09	230	250	25	22	.35	.4	.03	.37	11	-	.02	
1977																
February 15	72	-	515	8.27	220	240	25	22	.28	.2	.08	.40	11	-	.04	
March 23	105	-	430	8.01	190	215	25	19	.49	.3	-	.51	10	-	.06	
April 26	44	52	510	-	225	250	25	22	.42	.5	-	.63	9	-	-	
May 25	85	51	510	8.00	225	240	25	21	.50	.2	.03	.60	8	-	.06	
June 20	120	57	510	7.95	225	240	22.5	22	.51	.3	.04	.52	8	-	.06	
September 20	32	-	490	8.55	220	230	20	18	.35	.2	.01	-	-	-	-	

BLACKFOOT RIVER BASIN

Garden Creek

Location: 2s/37E-17dda
At Power Line Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
October 20	11	49	495	7.82	220	235	20	20	.63	.3	.02	-	-	-	.12	
November 16	9	35	500	-	225	235	20	20	.41	.3	.05	.38	-	-	-	

BLACKFOOT RIVER BASIN

Blackfoot River

Location: 3s/36E-3acb
At Rich Lane Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 22	3	45	405	8.35	185	190	-	21	.07	.4	.07	-	-	-	-	
1977																
February 14	7	34	490	8.13	220	240	15	32	.20	.7	.02	.51	11	-	.08	

BLACKFOOT RIVER BASIN

Blackfoot River

Location: 3s/35E-9add
At Blackfoot Idaho

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 22	18	47	410	8.20	160	180	15	28	.13	.4	.10	-	-	-	-	

LINCOLN CREEK BASIN

Box Spring

Location: 4s/37E-12bba
At Lincoln Creek Road Crossing

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
November 2	2	48	-	8.08	230	270	42.5	16	.09	.3	.02	.39	-	-	.05	

LINCOLN CREEK BASIN

Lincoln Creek

Location: 4s/37E-3abc
At Dry Hallow Road Crossing

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 2	3	56	1130	8.35	230	440	155	145	.06	-	.05	-	-	-	-	
1976																
November 2	2	49	-	8.12	205	410	122.5	100	.07	.3	.03	.50	-	-	.11	

LINCOLN CREEK BASIN

Lincoln Spring I

Location: 3s/37E-29dac

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975 October 13	2	52	580	7.35	230	250	30	20	.07	.7	.05	-	-	-	-	

LINCOLN CREEK BASIN

Lincoln Spring II

Location: 3s/37E-34bc

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975 October 13	0	53	550	7.43	230	235	30	19	-	-	-	-	-	-	-	

LINCOLN CREEK BASIN

Lincoln Creek

Location: 3s/36E-25daa
At Recorder Station

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 15	9	78	760	7.90	-	290	-	150	.08	.3	.02	-	-	-	-	
August 20	7	72	720	7.95	200	340	30	150	.07	.3	.02	-	-	-	-	
August 27	8	64	860	8.00	240	380	25	170	-	-	.04	-	-	-	-	
September 24	7	74	775	7.90	-	310	25	155	.09	-	-	-	-	-	-	
December 3	8	67	920	8.15	-	-	-	-	-	.3	-	-	8	3/3	-	
1976																
January 13	4	62	890	8.05	200	310	25	164	.14	.4	-	-	-	-	-	
February 23	12	69	815	8.00	195	340	25	162	.08	.2	.03	-	8	-	-	
March 17	560	58	495	8.00	130	205	20	77	.66	.1	.09	-	-	-	-	
March 17	1320	53	370	8.00	110	150	15	43	.95	.0	.13	-	-	-	-	
May 26	14	73	920	8.10	240	410	32.5	170	.13	.2	.04	.80	8	-	.13	
June 17	3	74	990	8.05	225	410	37.5	196	.09	.2	.04	.82	9	-	-	
July 20	8	78	920	7.99	200	360	20	158	.07	.4	.03	.84	8	-	-	
August 25	2	-	880	7.98	215	390	27.5	194	.23	.3	.03	.86	9	-	.00	
September 21	5	75	-	7.70	205	340	22.5	162	.08	.5	.03	.86	8	-	.03	
November 2	5	70	-	7.60	200	355	22.5	162	.06	.4	.04	.87	8	-	.03	
1977																
January 5	10	62	770	7.79	200	360	20	158	.09	.3	.01	.85	9	-	.08	
January 25	8	64	760	7.72	195	350	22.5	158	.08	.3	.02	.87	8	-	.08	
February 15	4	66	760	7.84	190	355	22.5	160	.09	.3	.02	.88	8	-	.00	
March 23	9	-	750	7.79	185	350	25	160	.21	.3	-	.94	8	-	.05	
April 26	24	65	805	-	220	390	25	174	.29	.5	-	.95	8	-	-	

Location: 3s/36E-25daa
At Recorder Station

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
June 20	8	66	850	7.51	240	410	27.5	196	.45	.4	.03	1.02	8	-	-	
September 20	4	-	870	8.18	210	380	27.5	182	.20	.3	.02	-	-	-	-	
October 20	3	69	760	7.72	205	325	22.5	156	.23	.3	.02	-	-	-	.03	
November 16	7	61	770	-	200	355	20	160	.21	.3	.02	.82	-	-	-	

LINCOLN CREEK BASIN

Cold Creek

Location: 3s/36E-24adab
Above Lincoln Creek Road Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 9	-	52	580	-	-	-	-	-	-	-	-	-	-	-	-	
October 2	25	49	560	8.35	220	250	45	24	.30	-	.08	-	-	-	-	
December 3	24	38	610	8.20	-	-	-	26	-	.5	-	-	11	3/3	-	
1976																
January 13	30	32	600	8.00	200	220	35	24	.38	.7	-	-	-	-	-	
February 23	33	34	575	8.25	200	240	35	24	.32	.5	.08	-	12	-	-	
March 17	220	39	330	8.00	125	150	22.5	14	.70	.3	.06	-	-	-	-	
March 29	20	38	520	8.35	210	240	40	27	.30	.6	.04	-	-	-	-	
April 28	38	46	570	8.35	210	250	35	29	1.17	.5	.04	-	10	-	-	
May 18	62	-	580	8.25	210	260	40	26	.25	.4	.03	-	-	-	-	
May 26	35	50	620	8.00	220	260	40	28	.12	.3	.02	.38	-	-	.05	
June 17	39	54	620	8.30	225	260	40	25	.28	.3	.04	-	9	-	-	
July 20	45	58	690	8.39	220	260	37.5	24	.28	.3	.06	.39	8	-	-	
August 25	18	-	590	8.48	220	250	35	23	.29	.4	.03	-	8	-	-	
September 21	32	54	-	7.95	220	250	35	22	.28	.4	.03	-	8	-	-	
October 29	3	39	-	7.98	220	250	37.5	22	.25	.3	.05	.40	11	-	.02	
1977																
January 25	42	32	550	8.21	215	245	37.5	23	.28	.6	.05	.41	11	-	.03	
February 15	32	35	520	8.32	205	240	35	22	.26	.4	.06	.42	10	-	.00	
March 23	37	-	510	8.37	205	235	35	22	.32	.3	-	.53	9	-	.07	
April 26	12	49	535	-	205	240	35	21	.29	.4	-	.58	9	-	-	
May 25	30	48	540	7.91	215	240	35	21	.38	.3	.03	.55	9	-	.03	

Location: 3s/36E-24adab
Above Lincoln Creek Road Crossing

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
June 20	45	56	535	7.99	225	245	35	22	.57	.3	.02	.51	8	-	-	
September 20	18	-	540	8.53	225	245	35	19	.36	.3	.02	-	-	-	-	
October 20	7	49	540	8.21	220	250	30	21	.60	.3	.02	-	-	-	.04	
November 16	11	39	530	-	210	245	30	21	.35	.3	.02	.39	-	-	-	

LINCOLN CREEK BASIN
Lincoln Creek

Location: 3s/36E-2caa
Near Creek Mouth

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 20	5	60	890	8.00	230	400	30	170	.13	.3	.05	-	-	-	-	
1976																
January 13	6	33	1220	8.00	270	360	35	270	.23	.4	-	-	-	-	-	SiO_2 = 60.0mg/l
1977																
January 25	10	35	970	7.98	265	460	32.5	240	.12	.3	.07	.98	9	-	.19	

ROSS FORK BASIN

Contact Spring

Location: 5s/37E-15addc
At Spring Source

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 22	3	44	230	7.50	130	125	10	1	.07	.4	.05	-	-	-	-	
1977																
November 17	0	44	230	8.39	125	130	7.5	1	.10	.4	.03	.21	-	-	-	

ROSS FORK BASIN

Big Spring

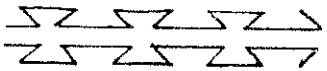
Location: 5s/37E-16addb
At Spring Source

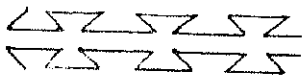
Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 22	1	45	230	7.60	120	120	10	2	.08	.4	.02	-	-	-	-	
1976																
October 30	0	46	-	7.69	130	130	5	1	.07	.6	.03	.21	-	-	.00	
1977																
April 29	0	48	235	7.57	125	125	7.5	2	.09	-	-	.40	-	-	.02	
November 17	1	46	245	8.35	110	125	7.5	2	.14	.3	.02	.23	-	-	-	

ROSS FORK BASIN

North Fork Ross Fork

Location: 5s/36E-10ac
At Farmer Ditch Turnout





Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 26	4	55	400	8.25	150	170	30	14	-	-	.10	-	-	-	-	
October 16	-	43	460	-	-	-	-	-	-	-	-	-	-	-	-	
December 12	4	36	480	7.75	140	170	35	13	.17	.3	.12	-	-	-	-	
1976																
January 21	3	32	420	8.00	150	180	40	13	.19	.4	.11	-	12	3/3	-	
March 26	55	35	330	7.60	125	200	32.5	14	.31	.2	.10	-	-	-	-	
April 8	37	44	380	7.95	130	155	32.5	12	.35	.5	.12	-	10	-	-	
May 21	22	-	220	8.00	80	100	15	6	.39	.2	.13	-	10	-	-	
June 30	9	58	340	7.48	130	140	25	6	.15	.3	.05	.25	9	3/3	.03	
July 28	10	60	380	7.80	130	150	25	8	.15	.3	.05	.42	9	-	.03	
September 29	7	49	-	8.12	160	180	35	11	.22	.3	.10	-	10	-	-	
1977																
February 14	5	34	345	8.06	130	155	30	11	.16	.5	.13	.32	12	-	.00	
March 15	7	34	390	8.01	155	180	35	12	.15	.2	.08	.39	10	-	.01	
April 25	5	48	395	7.65	140	170	32.5	8	.25	.1	.06	.53	9	-	-	
May 24	3	52	390	7.81	150	165	32.5	9	.31	.2	.07	.42	8	-	.04	
June 14	10	59	390	7.98	155	175	30	8	.35	.2	.07	.48	8	-	.05	
July 12	2	59	425	-	170	185	35	9	-	-	-	.49	-	-	-	
August 10	6	-	430	8.43	150	170	37.5	9	.12	.4	.04	-	-	-	-	
September 19	3	-	500	8.04	180	205	40	14	.33	-	.03	-	-	-	-	
October 17	2	-	510	8.10	185	215	45	17	.38	.2	.05	-	-	-	.05	
November 8	4	-	490	8.07	175	205	40	17	.29	.2	.09	.22	-	-	.05	

ROSS FORK BASIN

Gay Mine Spring

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
February 20	0	41	1510	7.45	260	450	195	144	.19	.6	.04	-	-	-	-	
October 30	0	55	-	7.54	265	545	195	150	.14	.6	.06	.52	-	-	.14	

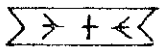
ROSS FORK BASIN

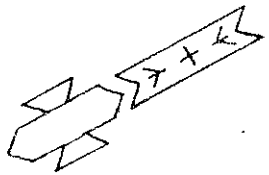
Lone Pine Creek

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
February 12	3	46	1130	7.95	260	430	150	53	.33	.7	.07	-	-	-	-	
July 21	4	59	1220	8.27	290	445	135	38	.33	.4	.02	.51	-	-	.11	
October 30	4	47	-	8.18	300	510	175	72	.27	.3	.05	.52	-	-	.18	

ROSS FORK BASIN

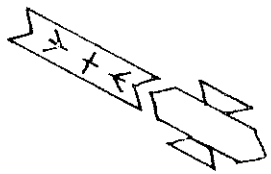
Thirty-Day Creek





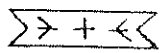
Location: 5s/36E-33ddd
Near confluence with South Fork Ross Fork

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
May 9	7	49	77	8.18	45	50	5	5	.11	.2	.09	.48	-	-	.07	



ROSS FORK BASIN

Mill Creek



Location: 5s/36E-34bca
At Smoke Ditch Turnout

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
May 9	1	44	179	7.72	100	100	5	1	.21	.3	.02	.40	-	-	.02	
June 14	8	62	210	7.69	105	105	5	0	.12	.3	.08	.41	8	-	.03	
July 12	2	65	225	-	115	115	7.5	0	-	-	-	-	-	-	-	
August 10	3	-	230	8.75	115	110	7.5	0	.09	-	.02	-	-	-	-	
September 19	3	-	220	7.49	110	110	7.5	0	.14	-	.09	-	-	-	-	
October 17	1	-	215	7.72	105	105	5	0	.17	.2	.17	-	-	-	.04	

ROSS FORK BASIN

South Fork Ross Fork

Location: 5s/36E-28accb
Upstream of Smoke's Cabin and Rose Farm

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 11	-	54	330	-	-	-	-	-	-	-	-	-	-	-	-	
October 16	5	43	300	7.95	130	190	30	9	.18	-	-	-	-	-	-	
December 12	5	-	410	8.00	120	190	30	13	.20	.7	.24	-	-	-	-	
1976																
January 21	4	32	380	7.95	130	150	40	12	.20	.7	.21	-	13	3/3	-	
March 26	5	38	330	8.05	170	185	30	11	.19	.6	.21	-	-	-	-	
April 8	12	44	300	8.00	110	130	25	11	.17	.6	.15	-	10	-	-	
May 21	21	-	180	7.58	80	80	10	4	.12	.3	.16	-	10	-	-	
June 30	9	59	320	7.42	120	120	25	6	.08	.3	.07	.27	8	3/3	.02	
July 28	10	61	340	7.80	120	125	27.5	8	.19	.4	.15	.32	9	-	.04	
September 29	8	51	-	8.00	130	150	35	10	.17	.3	.22	-	10	-	-	
1977																
February 14	5	35	320	7.96	120	145	30	12	.14	.6	.15	.32	12	-	.02	
March 15	8	35	380	7.79	130	160	32.5	13	.12	.4	.12	.40	10	-	.03	
April 25	5	49	295	7.75	110	130	25	8	.15	.2	.08	.40	9	-	-	
May 24	4	-	320	7.68	110	130	30	10	.31	.3	.16	.49	9	-	.04	
June 14	12	62	370	7.52	130	150	32.5	8	.34	.3	.16	.47	9	-	.09	
July 12	5	62	395	-	140	160	37.5	10	-	-	-	.49	-	-	-	
August 10	5	-	470	7.60	165	185	42.5	10	.26	.4	.02	-	-	-	-	
September 19	5	-	455	7.63	160	180	45	14	.29	.2	.06	-	-	-	.08	
October 17	12	-	345	7.53	120	145	30	12	.23	.2	.17	-	-	-	.08	
November 8	7	-	350	7.87	120	145	30	15	.22	.3	.23	-	-	-	.08	

ROSS FORK BASIN

Putnam Creek

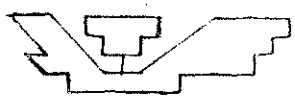
Location: 5s/36E-23dccd

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
May 9	3	46	93	7.51	50	50	7.5	4	.13	.2	-	.41	-	-	.03	

ROSS FORK BASIN

Ross Fork

Location: 4s/35E-35cab
At Recorder Station



Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 15	5	61	580	8.30	-	250	-	21	.23	.4	.06	-	-	-	-	
September 5	-	56	520	-	-	-	-	-	-	-	-	-	-	-	-	
September 24	6	54	560	8.05	-	240	50	19	.23	-	-	-	-	-	-	
October 6	6	51	630	8.15	245	265	55	24	.23	-	.07	-	-	-	-	
December 9	10	-	590	8.00	-	200	-	-	-	.3	-	-	-	-	-	
1976																
January 29	7	35	550	8.00	190	210	45	16	.21	.5	.09	-	12	2/3	-	
February 26	225	35	400	8.00	150	165	35	15	.48	.2	.12	-	-	-	-	
April 20	32	44	460	8.00	150	180	40	17	.28	.3	.18	.28	10	-	-	
April 28	45	42	370	8.00	140	165	30	13	.22	.3	.10	-	10	-	-	
May 19	55	-	360	7.85	100	115	17.5	7	.18	.2	.15	-	10	-	-	
July 28	5	65	670	8.33	230	240	42.5	19	.23	.4	.03	.44	10	-	.06	
September 29	2	56	-	8.34	260	260	45	21	.24	.4	.05	.43	10	-	-	
1977																
January 14	9	32	410	7.98	180	200	37.5	16	.17	.2	.07	.29	12	-	.07	
February 14	8	-	475	8.14	180	195	37.5	17	.18	.3	.09	.40	12	-	.05	
March 15	5	38	500	8.15	200	205	42.5	17	.23	.3	.04	.43	9	-	.07	
April 25	10	-	505	-	190	210	37.5	14	.29	.2	.04	.68	8	-	-	
May 24	2	50	620	7.80	245	250	47.5	18	.39	.3	.02	.55	8	-	.03	
June 14	8	68	610	8.18	245	250	42.5	19	.51	.3	.02	.53	10	-	.08	
July 12	2	-	620	-	180	185	45	21	-	-	-	.53	-	-	.05	
August 10	3	-	620	8.19	240	245	45	19	.19	.3	.02	-	-	-	.03	

Location: 4s/35E-35cab
At Recorder Station

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
September 19	2	-	640	7.88	250	260	50	19	.34	.2	.02	-	-	-	.03	
November 8	10	-	680	8.30	270	275	45	21	.34	.3	.05	.32	-	-	.12	

PORTNEUF RIVER BASIN

Qeedup Springs

Location: 4s/38E-32dda
At Spring Source

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 20	0	64	1225	6.87	500	615	30	180	.12	.5	.03	-	-	-	-	
October 14	0	64	1160	6.84	450	590	20	155	-	-	-	-	-	-	-	Spring #1
October 14	0	68	1140	6.87	480	570	20	-	-	-	-	-	-	-	-	Spring #2
October 14	0	-	1350	6.69	530	680	30	220	-	-	-	-	-	-	-	Spring #3
1976																
June 21	1	68	1290	7.02	450	565	25	164	.28	.3	.05	.88	-	-	.00	
1977																
March 4	0	65	1200	6.88	480	620	22.5	188	.06	.3	.03	.96	-	-	.00	
November 17	0	63	1180	7.22	-	-	20	178	.14	.3	.02	.88	-	-	-	

PORTNEUF RIVER BASIN

Baker Canyon Creek

Location: 4s/38E-30cb

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
July 21	2	76	530	8.38	100	175	52.5	47	.11	.2	.02	.40	-	-	.01	
1977																
March 4	1	38	775	7.70	265	360	60	69	.09	.2	.05	.46	-	-	.00	

PORTNEUF RIVER BASIN

Warm Spring

Location: 5s/38E-34ccb
At Spring Source

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
November 17	0	62	605	8.00	275	300	12.5	37	.20	.3	.02	.22	-	-	.00	

PORTNEUF RIVER BASIN

Rass Creek

Location: 5s/38E-27ccdb
At Portneuf River Road Crossing

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
November 17	2	35	440	8.39	170	200	10	33	.14	.3	.02	.29	-	-	.03	

PORTNEUF RIVER BASIN

Jeff Cabin Creek

Location: 5s/38E-32dba

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 22	8	58	320	7.95	160	160	12.5	1	.19	.3	.18	-	-	-	-	
1976																
September 28	3	56	-	8.10	180	180	12.5	0	.16	.4	.12	.30	9	-	.03	
November 3	3	45	-	7.90	165	160	10	2	.13	.4	.12	.29	10	-	.04	
1977																
April 29	2	55	310	7.53	160	160	10	0	.22	.3	-	.40	8	-	.02	
October 25	4	-	345	7.91	170	175	10	0	.20	.3	.08	-	-	-	.03	

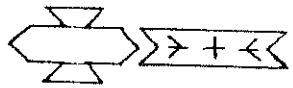
Location: 6s/38E-3da
At Recorder Station

PORTNEUF RIVER BASIN
Portneuf River

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 22	6	62	620	8.20	285	305	25	43	.15	.3	.03	-	-	-	-	
October 9	12	41	690	7.95	290	350	25	57	-	-	.08	-	-	-	-	
1976																
April 21	11	48	580	8.05	210	245	25	31	.29	.3	.09	-	11	-	-	
June 24	4	65	620	8.05	235	260	25	34	.29	.3	.04	.45	10	3/3	.09	
July 13	6	73	750	8.57	260	280	27.5	37	.23	.2	.04	.47	9	3/3	.05	
September 28	8	51	-	7.92	280	320	22.5	51	.19	.4	.03	.51	10	-	.03	
November 3	8	44	-	7.84	270	315	22.5	58	.18	.5	.04	.48	11	-	.06	
1977																
March 4	2	36	730	8.21	280	345	30	88	.15	.3	.03	.68	-	-	.03	
April 29	9	50	645	7.95	280	310	45	45	.49	.4	-	.65	8	-	-	
May 31	3	-	655	7.98	280	315	22.5	46	.37	.3	.03	.61	-	-	.06	
June 23	8	60	615	8.21	280	300	17.5	33	.52	.2	.03	.59	8	-	.12	
October 25	3	-	655	8.02	275	310	20	47	.28	.1	.02	-	-	-	.07	
November 16	3	40	660	8.29	270	320	20	57	.33	.2	.03	.35	-	-	.10	

Location: 6s/37E-13abba
At South Reservation Boundary Line

PORTNEUF RIVER BASIN
Toponce I
(North Fork Toponce Creek)



Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 22	5	52	42	8.45	20	20	5	1	.04	.3	.14	-	-	-	-	
October 9	2	41	32	7.45	30	30	5	1	-	-	.14	-	-	-	-	
1976																
June 24	2	54	32	6.72	10	15	5	0	.04	.3	.13	.19	9	2/3	.07	
July 13	3	61	59	7.48	30	30	5	0	.09	.3	.20	.24	8	3/3	.03	
September 28	4	53	-	6.80	15	15	5	0	.04	.3	.14	.21	9	-	.02	
November 3	3	49	-	6.87	15	15	5	0	.03	.4	.10	.20	10	-	.07	
1977																
April 29	4	55	37	7.87	45	50	5	0	.10	-	-	.41	9	-	.07	
May 31	3	-	47	8.72	25	25	5	0	.08	.3	.11	.40	-	-	.07	
June 23	7	62	37	7.59	20	20	2.5	0	.11	.3	.14	.40	7	-	-	

PORTNEUF RIVER BASIN

Toponce II

(North Fork Toponce Creek)

Location: 6s/37E-13aaba
At South Reservation Boundary Line

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 22	9	54	36	7.12	20	15	7.5	1	.04	.4	.43	-	-	-	-	
October 9	8	42	38	7.05	40	30	10	1	-	-	.48	-	-	-	-	
1976																
June 24	2	52	32	6.83	15	15	2.5	0	.23	.2	.13	.12	9	2/3	.06	
July 13	3	59	34	6.95	15	20	2.5	0	.08	.3	.19	.19	8	3/3	.03	
September 28	7	54	-	6.93	20	20	5	0	.07	.4	.45	-	8	-	-	
November 3	4	48	-	7.59	20	20	5	0	.05	.3	.28	.27	10	-	.10	
1977																
April 29	4	50	30	-	20	20	5	0	.07	.5	-	.40	9	-	.09	
May 31	3	-	50	8.61	25	25	5	0	.09	.2	.24	.39	-	-	.09	
June 23	8	61	37	7.23	25	20	2.5	0	.13	.2	.27	.35	7	-	.08	
October 25	8	-	39	6.88	20	15	5	0	.06	.3	.44	-	-	-	.09	
November 16	8	38	39	6.87	15	25	5	0	.04	.2	.13	.28	-	-	-	

PORTNEUF RIVER BASIN

Toponce III

(Little Toponce Creek)

Location: 6s/38E-7cacc
At Trail Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 22	13	58	58	7.40	30	20	7.5	2	.08	.4	.65	-	-	-	-	
October 9	10	44	54	7.90	40	30	10	1	-	-	.58	-	-	-	-	
1976																
June 24	10	59	51	6.89	20	20	5	1	.07	.2	.30	.15	9	2/3	.09	
July 13	15	69	60	7.23	25	30	5	0	.07	.3	.63	.27	7	3/3	.12	
September 28	12	58	-	6.92	30	30	5	0	.08	.4	.62	-	8	-	-	
November 3	9	47	-	7.22	30	30	5	1	.11	.3	.58	.26	10	-	.12	
1977																
April 29	11	56	58	8.00	35	50	5	0	.17	.3	.51	.41	8	-	.10	
May 31	9	-	61	7.00	30	30	5	0	.14	.3	.53	.38	-	-	.14	
June 23	13	67	76	7.30	40	40	5	0	.27	.2	.56	.34	7	-	.09	
October 25	6	-	67	7.17	30	30	5	0	.11	.3	.29	-	-	-	.08	
November 16	9	36	61	7.12	30	35	5	0	.13	.3	.39	.18	-	-	.09	

BANNOCK CREEK BASIN

Bannock Creek

Location: 10s/33E-3aaaa
At South Reservation Boundary Line

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 7	8	47	880	7.90	240	300	115	28	.13	-	-	-	-	-	-	
November 20	-	37	1120	-	-	-	-	-	-	-	-	-	-	-	-	
December 29	8	36	1320	8.00	310	360	155	32	.19	.8	.07	-	-	-	-	SiO_2 = 8.24mg/l
1976																
January 31	98	36	910	8.00	255	315	115	22	.61	.5	.15	-	11	3/3	-	
February 27	1040	36	330	7.80	130	130	35	10	.68	.4	.13	-	-	-	-	
March 30	48	43	1100	8.15	300	365	155	29	.43	.6	.12	-	-	-	-	
April 29	12	58	1120	8.20	240	330	155	29	.09	.3	.08	-	-	-	-	
May 28	9	64	940	8.62	225	310	130	22	.29	.2	.08	.32	13	-	.14	
July 7	20	64	905	8.20	215	260	85	19	.22	.5	.03	.42	9	3/3	.05	
August 30	4	57	740	8.22	220	265	92.5	20	.10	.4	.02	-	11	-	-	
September 30	3	59	-	8.11	180	260	115	23	.11	.3	.04	-	-	-	-	
November 15	45	40	-	8.13	280	345	122.5	27	.22	.5	.11	.43	10	-	.27	
1977																
January 18	21	38	890	8.08	250	330	115	28	.20	1.0	.07	.51	-	-	.16	
February 17	38	41	1105	8.16	270	390	162.5	39	.25	.3	.12	.54	-	-	.31	
March 22	20	47	1095	8.22	285	395	165	34	.26	.4	.08	.59	11	-	.16	
March 31	26	38	1150	7.79	305	420	165	34	.40	.6	-	.59	-	-	.07	
June 27	3	-	680	-	200	240	87.5	-	-	-	-	.61	-	-	-	
November 15	8	43	980	8.09	265	355	140	29	.30	.6	.05	-	-	-	.10	
1978																
January 5	17	34	1220	8.12	335	475	170	37	.44	.4	.03	.43	-	-	.03	

BANNOCK CREEK BASIN

West Fork

Location: 9s/33E-34cdcd

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 17	2	52	425	8.15	220	220	15	1	.18	.5	.02	-	-	-	-	
October 7	2	50	425	8.20	220	220	15	0	.07	-	-	-	-	-	-	
November 20	-	49	425	-	-	-	-	-	-	-	-	-	-	-	-	
December 29	2	47	510	8.00	210	210	15	0	.08	.4	.03	-	10	-	-	SiO_2 = 15.60
1976																
January 31	12	52	390	8.00	210	210	15	1	.16	.8	.03	-	10	3/3	-	
February 27	11	52	400	8.40	200	200	15	0	.22	.3	.04	-	-	-	-	Taken Upstream of Road
February 27	200	52	400	8.35	185	190	15	0	.27	.3	.04	-	-	-	-	
March 30	2	45	405	8.40	210	210	10	0	.11	.5	.04	-	-	-	-	
May 28	3	61	420	8.40	220	225	15	1	.08	.3	.03	.18	9	-	.00	
July 7	2	61	475	8.12	220	210	17.5	2	.06	.3	.02	.25	9	3/3	.02	
August 30	4	57	425	7.79	200	200	12.5	2	.07	.3	.03	-	9	-	-	
September 30	1	60	-	8.12	200	200	12.5	3	.07	.4	.02	-	9	-	-	
November 15	4	51	-	8.31	210	210	12.5	2	.10	.5	.03	.21	10	-	.09	
1977																
January 18	3	47	415	8.26	205	200	15	3	.08	.7	.03	.30	-	-	.05	
February 17	2	51	410	7.91	200	210	12.5	2	.07	.4	.02	-	10	-	-	
March 22	1	57	405	8.05	195	195	15	2	.18	.4	-	.38	9	-	.00	
March 31	1	44	420	7.62	215	220	15	1	.13	.3	-	.38	10	-	-	
April 28	0	56	410	-	205	205	15	2	.13	.5	-	.44	9	-	-	
June 27	0	68	390	-	-	-	-	-	-	-	-	.40	-	-	-	
July 29	1	57	420	7.99	205	205	12.5	2	.19	.3	.02	.31	10	-	.02	

BANNOCK CREEK BASIN

West Fork

Location: 9s/33E-34cdcd

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
September 27	3	-	405	7.69	200	200	15	1	.11	.3	.02	-	-	-	-	
October 27	0	-	425	7.97	200	200	15	2	.10	.2	.02	.20	-	-	.00	
November 29	0	43	420	-	205	205	12.5	1	.13	.4	.02	.25	-	-	-	

BANNOCK CREEK BASIN
Upper Bannock Creek

Location: 9s/33E-34acdc
At Recorder Station

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 15	8	63	420	7.85	-	200	-	4	.07	.2	.03	-	-	-	-	
September 5	-	58	450	-	-	-	-	-	-	-	-	-	-	-	-	
September 25	3	52	500	8.25	230	230	27.5	6	.11	-	-	-	-	-	-	
October 7	2	50	490	8.05	230	235	30	8	.08	-	-	-	-	-	-	
November 20	-	45	620	-	-	-	-	-	-	-	-	-	-	-	-	
December 29	2	42	725	8.00	240	240	30	11	.11	.8	.04	-	-	-	-	
1976																
January 31	41	48	590	8.00	215	245	52.5	13	.31	.4	.07	-	10	3/3	-	
February 27	540	41	340	8.00	130	145	30	9	.58	.4	.07	-	8	-	-	
March 12	65	46	600	8.15	230	240	47.5	11	.36	.1	.11	-	-	-	-	
March 18	2600	44	440	8.00	150	150	37.5	9	.81	.0	.12	-	-	-	-	
March 23	205	42	620	7.48	200	215	65	16	.36	.3	.04	-	-	-	-	
April 19	8	54	780	8.60	250	290	82.5	16	.11	.3	.08	.24	12	-	-	
May 25	2	62	560	8.10	210	245	60	9	.11	.2	.04	.25	10	-	.04	
June 30	4	66	530	7.98	200	205	30	5	.08	.2	.03	.28	9	3/3	.01	
August 30	2	57	450	7.90	205	210	22.5	4	.07	.3	.02	-	-	-	-	
November 15	12	48	-	8.33	230	250	45	11	.13	.5	.05	.30	10	-	.13	
1977																
January 6	7	42	505	8.31	215	235	37.5	9	.09	.6	.03	.21	11	-	.07	
January 18	8	44	540	8.26	220	240	42.5	10	.14	.8	.04	.38	-	-	.09	
February 9	8	46	525	8.29	215	240	45	11	.09	.5	.03	.33	11	-	.08	
February 17	18	46	705	8.18	230	290	75	17	.14	.4	.03	.41	10	-	.13	

BANNOCK CREEK BASIN

Upper Bannock Creek

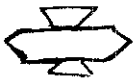
Location: 9s/33E-34acdc
At Recorder Station

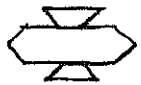
Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
March 13	13	42	770	7.70	265	315	82.5	18	.21	.4	-	.49	11	-	-	
April 28	8	58	620	-	230	250	60	10	.20	.3	-	.51	9	-	-	
June 27	1	68	420	-	180	200	30	-	-	-	-	.48	9	-	-	
July 29	1	58	500	8.15	215	220	30	7	.21	.3	.02	.32	-	-	.03	
September 27	3	-	510	8.11	205	225	40	8	.15	.3	.02	-	-	-	.01	
October 27	4	-	580	7.98	220	245	47.5	11	.17	.2	.02	.24	-	-	.06	
November 30	12	37	1105	7.79	275	390	150	44	.58	.3	.02	.34	-	-	.02	

BANNOCK CREEK BASIN

Rock Spring #1

Location: 9s/33E-34aca
At Arbon Valley Road





Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
January 19	2	58	610	8.25	205	235	45	19	.14	.6	.03	-	-	-	-	

BANNOCK CREEK BASIN

Rock Spring #2

Location: 9s/33E-34abd
At Arbon Valley Road

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
January 19	0	59	600	7.60	200	220	40	19	.12	.6	.02	-	-	-	-	

BANNOCK CREEK BASIN
Moonshine Creek

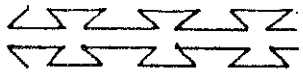
Location: 8s/33E-34ccb

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 9	-	64	600	-	-	-	-	-	-	-	-	-	-	-	-	Upstream Station
September 17	5	64	610	8.10	250	270	45	13	.09	.4	.06	-	-	-	-	
October 17	-	62	600	-	-	-	-	-	-	-	-	-	-	-	-	
December 29	8	54	780	8.00	250	270	50	12	.35	.5	.04	-	10	-	-	SiO_2 = 23.2
1976																
January 28	7	57	650	8.05	240	230	45	13	.19	.3	.04	-	10	2/3	-	
February 27	760	44	280	8.00	120	135	22.5	7	.38	.2	.08	-	-	-	-	
March 23	185	51	510	7.95	190	205	35	10	.30	.3	.04	-	-	-	-	
April 29	48	66	680	8.25	240	265	50	13	.29	.4	.04	-	10	-	-	
May 25	10	70	670	8.55	240	270	50	13	.21	.3	.05	-	-	-	-	
June 28	7	75	660	8.00	230	245	47.5	12	.22	.3	.03	.39	9	3/3	.01	
July 30	5	73	650	8.38	235	245	40	12	.14	.2	.04	.43	9	-	.01	
August 30	6	69	600	7.98	250	260	40	13	.11	.3	.03	-	8	-	-	
September 30	3	57	-	8.38	250	260	40	12	.12	.5	.03	-	9	-	-	
1977																
January 18	10	41	575	8.24	240	255	45	14	.20	.4	.04	.48	-	-	.07	
February 17	6	57	590	8.19	240	260	40	12	.13	.3	.02	.43	10	-	-	
March 31	18	57	610	7.65	235	265	45	13	.29	.3	-	.50	-	-	.02	
April 28	10	64	605	-	250	270	45	12	.20	.4	-	.51	9	-	-	
June 27	1	74	575	-	230	250	45	-	-	-	-	.53	-	-	-	
July 29	2	66	600	8.24	240	255	42.5	14	.36	.2	.02	.41	9	-	.03	
September 27	3	-	605	8.02	240	255	42.5	14	.24	.2	.02	-	-	-	-	

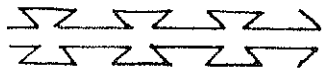
Location: 8s/33E-34ccb

BANNOCK CREEK BASIN
Moonshine Creek

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
October 27	3	-	610	8.12	240	240	42.5	I5	.22	.5	.02	.34	-	-	.03	
November 30	3	54	590	-	235	260	42.5	I5	.24	.4	.02	.38	-	-	-	



BANNOCK CREEK BASIN
Rattlesnake Creek



Location: 8s/33E-36ada
At East Reservation Boundary Line

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 19	30	46	775	8.25	250	310	85	24	.98	1.2	.11	-	-	-	-	
October 20	13	47	770	-	-	-	-	-	.48	-	-	-	-	-	-	
November 17	12	39	810	8.00	-	-	-	-	.43	.9	-	-	-	-	-	
December 31	17	34	830	7.95	260	315	80	24	.45	.8	.12	-	-	-	-	
1976																
January 28	19	39	805	8.20	250	290	80	21	.51	1.1	.17	-	11	3/3	-	
February 27	380	36	560	7.95	180	220	55	16	.52	.6	.09	-	9	-	-	
March 30	2250	45	675	8.00	210	260	75	21	.87	.9	.04	-	-	-	-	
April 19	230	46	760	8.25	235	280	75	21	.67	1.4	.07	.39	10	-	-	
May 24	90	55	860	8.20	240	300	80	23	.52	.9	.08	-	9	-	-	
June 29	9	-	900	8.00	250	300	90	26	.24	.4	.02	.48	10	3/3	.05	
July 26	30	61	890	8.09	255	310	82.5	24	.44	.6	.03	.58	8	-	.07	
August 30	21	64	700	7.95	230	275	67.5	19	.31	.5	.04	-	9	-	-	
September 30	12	56	-	8.40	250	300	80	23	.41	.7	.06	-	9	-	-	
October 27	9	41	-	8.30	250	310	80	24	.36	.6	.07	.42	12	-	.04	
1977																
January 27	28	34	680	8.11	220	275	70	19	.41	.8	.11	.39	12	-	.05	
February 17	21	-	670	8.19	220	270	65	18	.42	.6	.09	.45	-	-	.14	
March 31	49	39	680	7.79	235	280	72.5	17	.61	.8	-	.49	-	-	.04	
June 27	20	61	765	-	240	310	82.5	-	-	-	-	.55	7	-	-	
July 29	40	60	700	8.25	235	275	75	20	1.08	.7	.08	.51	-	-	.13	
September 27	16	-	650	8.22	235	275	65	17	.57	.5	.04	.43	-	-	.03	

BANNOCK CREEK BASIN
Rattlesnake Creek

Location: 8s/33E-36ada
At East Reservation Boundary Line

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
October 27	8	-	670	8.39	230	280	65	18	.50	.3	.04	-	-	-	.08	
November 30	7	37	725	7.92	240	280	70	19	.68	.4	.05	.33	-	-	.00	

BANNOCK CREEK BASIN
Crystal Creek

Location: 8s/33E-25dcab
Above Confluence with Rattlesnake Creek

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 19	3	44	425	8.50	240	230	20	3	.23	.4	.03	-	-	-	-	
October 20	3	46	430	-	-	-	-	-	-	-	-	-	-	-	-	
December 31	2	32	480	8.00	235	220	15	2	.20	.5	.02	-	-	-	-	
1976																
February 27	93	34	400	8.20	195	190	15	1	.35	.4	.04	-	-	-	-	
July 26	14	63	480	8.57	225	220	12.5	3	.21	.2	.03	.31	8	-	.06	
August 30	8	63	425	8.58	210	210	15	2	.20	.3	.03	-	-	-	-	
October 27	3	40	-	8.17	225	220	12.5	4	.28	.4	.04	.29	10	-	.04	
1977																
February 17	11	34	425	8.02	200	205	15	4	.18	.3	.03	-	-	-	-	

Location: 8s/33E-24aaaa

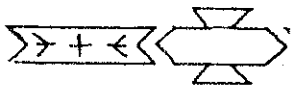
BANNOCK CREEK BASIN
Midnight Creek

Date	Turbidity PTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 19	1	46	400	8.40	200	230	20	6	.10	.5	.03	-	-	-	-	
October 20	1	47	400	-	-	-	-	-	-	-	-	-	-	-	-	
November 17	2	41	405	-	-	-	-	-	.18	.4	-	-	-	-	-	
December 31	1	39	420	8.15	235	180	15	8	.13	.6	.02	-	-	-	-	
1976																
January 28	1	40	410	8.00	180	190	15	7	.14	.6	.03	-	11	2/3	-	
February 27	2	40	375	8.05	170	180	15	5	.08	.4	.03	-	11	-	-	
March 30	7	46	340	8.15	155	155	15	5	.10	.5	.03	-	-	-	-	
April 19	19	46	250	8.15	110	110	12.5	6	.13	.5	.17	.09	10	-	-	
May 24	20	-	290	8.00	125	120	15	5	.13	.4	.09	-	10	-	-	
June 28	2	59	420	7.90	175	175	17.5	5	.07	.3	.02	.29	9	3/3	.00	
July 26	3	56	430	8.23	190	195	12.5	5	.08	.4	.02	.32	9	-	.01	
August 30	2	55	390	7.99	180	180	15	4	.07	.4	.03	-	8	-	-	
September 30	1	54	-	8.48	190	190	12.5	4	.11	.4	.03	-	8	-	-	
October 27	0	42	-	8.17	185	190	12.5	8	.06	.5	.03	.20	10	-	.01	
1977																
January 27	2	32	380	8.21	175	175	15	8	.15	.5	.02	.27	12	-	.00	
February 17	1	41	360	8.17	170	180	12.5	4	.08	.4	.02	-	9	-	-	
March 31	2	36	360	7.81	170	175	15	4	.15	.3	-	.40	-	-	-	
April 28	7	49	350	8.41	165	175	15	5	.17	-	-	.39	9	-	.06	
June 27	38	69	395	-	-	-	17.5	-	-	-	-	.41	-	-	-	
July 29	2	60	405	8.18	185	185	17.5	5	.33	.3	.03	.33	-	-	.03	

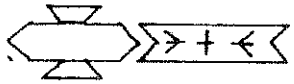
Location: 8s/33E-24aaaa

BANNOCK CREEK BASIN
Midnight Creek

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
September 27	3	-	410	8.41	190	195	20	6	.18	.3	.02	-	-	-	-	
October 27	3	-	420	8.45	195	200	17.5	5	.28	.2	.02	.28	-	-	.00	
November 30	1	38	355	-	155	155	17.5	1	.11	.3	.03	.25	-	-	-	



BANNOCK CREEK BASIN
Rattlesnake Creek



Location: 8s/33E-28ada
Downstream of Arbon Valley Road Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 5	-	55	540	-	-	-	-	-	-	-	-	-	-	-	-	
September 19	13	48	600	8.50	230	265	60	18	.29	.7	.06	-	-	-	-	
October 7	6	47	610	8.30	235	265	57.5	18	.31	-	-	-	-	-	-	
October 21	15	47	650	-	-	-	-	-	-	-	-	-	8	3/3	-	
November 17	7	40	700	-	-	-	-	-	.33	.6	-	-	-	-	-	
December 31	12	35	710	8.10	240	280	65	19	.36	.8	.08	-	-	-	-	
1976																
January 31	22	39	630	8.40	225	265	62.5	17	.39	.7	.08	-	-	3/3	-	
March 12	140	40	680	8.30	225	250	60	16	.48	.8	.05	-	-	-	-	
March 18	3000	37	310	8.00	110	110	25	7	1.00	.0	.22	-	-	-	-	
March 31	2750	47	550	8.00	175	200	55	15	.89	.7	.07	-	-	-	-	
April 27	155	48	540	8.00	175	200	42.5	13	.44	.9	.07	-	11	-	-	
May 25	45	58	540	8.10	190	210	45	13	.31	.4	.08	.39	9	-	.08	
June 29	3	-	610	7.93	195	220	50	14	.09	.3	.02	.37	10	3/3	.03	
July 26	13	68	730	8.14	250	260	52.5	16	.36	.3	.03	.49	8	-	.12	
August 30	9	64	575	8.60	210	240	47.5	13	.23	.4	.03	-	-	-	-	
September 30	4	57	-	8.58	220	250	55	16	.23	.6	.03	.40	-	-	-	
October 27	3	42	-	8.46	230	265	57.5	16	.22	.5	.04	.36	10	-	.00	
1977																
January 27	23	34	605	8.23	220	260	57.5	14	.29	.7	.03	.39	12	-	.07	
February 17	12	44	580	8.47	205	250	52.5	13	.27	.6	.03	-	10	-	.12	
March 22	19	49	595	8.48	215	255	57.5	14	.47	.5	-	.42	10	-	.09	

BANNOCK CREEK BASIN

Rattlesnake Creek

Location: 8s/33E-28ada
Downstream of Arbon Valley Road Crossing

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
March 31	36	-	620	7.87	220	265	60	15	.53	.6	-	.51	11	-	.02	
June 27	12	61	660	-	240	260	60	-	-	-	-	.53	7	-	-	
July 29	10	64	775	8.11	300	305	60	17	.61	.1	.01	.43	8	-	.07	
September 27	12	-	590	8.59	225	250	55	15	.39	.3	.02	-	-	-	.04	
October 27	4	-	595	8.58	220	250	52.5	14	.39	.3	.02	-	-	-	.07	
November 30	6	39	650	8.23	230	275	60	17	.52	.4	.02	.34	-	-	.00	

BANNOCK CREEK BASIN

Officer Spring

Location: 8s/33E-28acba
Near Spring Source

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
November 15	0	59	530	7.98	240	250	27.5	13	.21	.3	.03	.30	-	-	.02	

BANNOCK CREEK BASIN

Starlight Creek

Location: 8s/33E-21badb
At Arbon Valley Road Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
February 28	650	34	154	7.60	100	110	10	0	.80	.1	.08	-	-	-	-	
March 12	25	34	540	8.15	210	220	35	11	.47	.1	.05	-	-	-	-	
August 30	2	62	500	8.44	195	215	35	11	.23	.3	.03	-	-	-	-	

BANNOCK CREEK BASIN

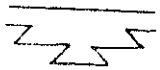
Warm Spring

Location: 8s/33E-10adac
At Spring Source

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
March 3	1	88	260	8.13	110	120	12.5	12	.06	.3	.12	.43	-	-	.00	

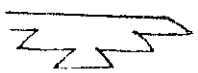
BANNOCK CREEK BASIN

Birch Creek



Location: 8s/33E-4babb
Above Rattlesnake Road Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
November 15	8	42	270	8.28	100	120	20	9	.35	.3	.02	.28	-	-	.03	



BANNOCK CREEK BASIN

Bannock Creek

Location: 7s/33E-32dbba
Near Bannock Creek School

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 7	15	49	605	8.10	260	270	42.5	13	.18	-	-	-	-	-	-	

BANNOCK CREEK BASIN

Lower Bannock Creek

Location: 6s/33E-20cccd
At Recorder Station

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate* mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 15	17	64	640	8.05	-	270	-	32	.49	.9	.05	-	-	-	-	
September 5	-	60	600	-	-	-	-	-	-	-	-	-	-	-	-	
September 25	18	54	625	8.25	260	270	45	29	1.05	-	-	-	-	-	-	
October 7	15	51	670	8.00	260	270	45	31	.53	-	-	-	-	-	-	
October 21	22	50	640	-	-	-	-	-	.25	-	-	-	8	3/3	-	
November 20	-	35	620	-	-	-	-	-	-	-	-	-	-	-	-	
1976																
January 27	30	33	700	8.05	250	250	55	16	.28	.3	.08	-	13	3/3	-	
March 12	620	38	540	8.00	200	210	45	14	.48	.4	.07	-	-	-	-	
June 1	21	58	620	8.25	220	240	40	23	.34	.6	.08	.30	9	-	.47	
August 16	18	72	730	8.19	240	250	40	29	1.89	1.1	.03	.61	8	-	.00	
August 30	18	68	670	8.05	240	255	40	32	.51	1.0	.02	-	8	-	-	
September 30	8	60	-	8.42	260	265	42.5	32	.41	.9	.03	.58	9	-	-	
October 22	30	42	-	8.40	240	250	50	17	.12	.3	.07	.31	10	-	.03	
December 15	35	33	560	8.28	240	260	50	17	.15	.6	-	-	13	-	.03	
1977																
January 19	23	32	525	8.17	225	240	50	18	.18	.6	.07	.41	11	-	.23	
February 9	22	33	530	8.20	225	245	50	16	.14	.6	.03	.41	11	-	.12	
February 24	32	39	620	8.15	225	260	62.5	17	.14	.3	.03	.49	12	-	.00	
April 20	32	49	660	8.10	225	265	65	17	.27	.2	-	.51	9	-	.05	
June 27	9	68	755	-	240	285	62.5	-	-	-	-	.66	7	-	-	
July 29	10	65	760	7.98	255	285	57.5	52	1.17	1.8	.01	.77	-	-	.30	

Location: 6s/33E-20cccd
At Recorder Station

BANNOCK CREEK BASIN
Lower Bannock Creek

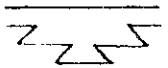
Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
September 27	12	-	930	8.28	270	335	97.5	55	.33	1.3	.02	.59	-	-	.03	
October 31	11	-	670	8.22	240	270	55	18	.30	.3	.03	-	-	-	.09	
November 30	22	38	1040	8.30	255	365	140	46	.75	.3	.02	.38	-	-	.03	

BANNOCK CREEK BASIN

Michaud Creek

Location: 6s/33E-26adc

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulphate mg/l SO_4	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975														
September 8	-	-	410	-	-	-	-	-	-	-	-	-	-	
October 7	16	45	460	8.00	155	185	47.5	24	.84	-	-	-	-	
December 29	21	32	470	8.00	130	140	40	19	.26	.7	.10	-	12	-	-	SiO_2 = 7.20mg/l
1976														
January 26	30	32	410	8.00	130	170	42.5	19	.28	.7	.12	-	12	3/3	-	
February 28	1200	36	290	7.61	170	190	30	14	.77	.3	.08	-	11	-	-	
March 22	950	40	400	7.95	125	200	37.5	16	.31	.2	.04	-	-	-	-	
April 29	185	48	380	8.00	115	140	35	16	.27	.2	.07	-	-	-	-	
May 24	58	52	390	8.00	105	130	35	16	.26	.3	.10	-	10	-	-	
June 28	19	56	525	7.58	150	180	47.5	21	.36	.3	.03	.36	9	3/3	.02	
August 31	23	58	430	7.82	140	160	37.5	16	.22	.3	.03	-	9	-	-	
November 15	5	38	-	8.01	130	145	35	17	.16	.4	.06	.34	11	-	.06	
1977														
February 28	92	32	330	7.60	125	140	35	14	.20	.3	.04	.51	11	-	.00	
March 22	23	41	360	7.59	120	150	35	14	.19	.4	-	.47	11	-	.00	
April 28	7	54	430	8.38	145	185	45	18	.39	-	-	.56	9	-	.06	
June 27	49	59	510	-	180	200	45	-	-	-	-	.61	7	-	-	
July 29	102	-	420	7.88	145	165	35	16	.60	.3	.02	.43	-	-	.11	
October 27	9	-	370	8.27	135	150	30	14	.44	.2	.02	-	-	-	.06	
November 30	5	36	360	-	125	150	30	17	.14	.2	.02	.29	-	-	-	

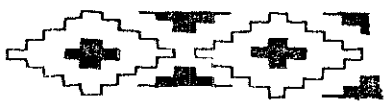


BANNOCK CREEK BASIN

Michaud Gully

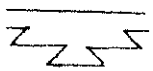
Location: 6s/33E-26adb

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
February 28	1,550	33	167	7.60	110	120	10	0	.60	.1	.13	-	-	-	-	
1977																
March 22	24,500	44	190	-	-	-	-	-	-	-	-	-	-	-	-	



BANNOCK CREEK BASIN

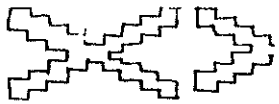
Michaud Creek



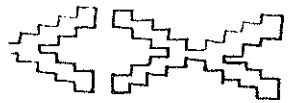
Location: 6s/33E-22abba
Near Mouth of Creek

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 7	15	45	475	8.00	160	195	45	24	.68	-	-	-	-	-	-	
1976																
January 26	22	32	410	7.95	130	170	42.5	19	.28	.6	.09	-	-	-	-	

Location: 3s/34E-31d



FORT HALL BOTTOMS SPRINGS
Fish Hatchery Springs



Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
June 29	0	55	520	-	230	230	15	-	-	-	-	.81	7	-	-	
November 22	0	51	510	-	215	225	12.5	29	.23	.7	.02	.73	-	-	-	
1978																
March 10	0	52	525	-	-	-	-	-	-	-	-	.70	-	-	.04	

FORT HALL BOTTOMS SPRINGS
Mud Slough

Location: 4s/34E-7aaa
Above Confluence with Diggie Creek

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 27	0	-	520	8.05	200	220	25	30	-	-	.05	-	-	-	-	
September 10	-	52	510	-	-	-	-	-	-	-	-	-	-	-	-	

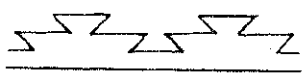
Location: 4s/34E-7acb

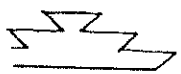
FORT HALL BOTTOMS SPRINGS
Diggie Creek

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 27	0		500	8.00	210	220	25	31	-	-	.05	-	-	-	-	Above Mud Slough
September 10	-	52	470	-	-	-	-	-	-	-	-	-	-	-	-	
1976																
May 19	1		540	8.00	215	240	20	29	.10	1.0	.05	-	8	-	-	Below Mud Slough
1977																
January 31	1	51	505	7.87	200	220	20	31	.10	.9	.02	.81	-	-	.02	

FORT HALL BOTTOMS SPRINGS
Jeff Cabin Creek

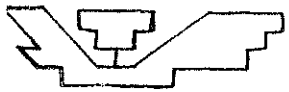
Location: 4s/33E-13c





Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
June 9	102	60	580	8.00	190	220	30	37	.20	.5	.07	.82	-	-	.21	Includes Teton Floodwaters

FORT HALL BOTTOMS SPRINGS
Spring Creek



Location: 4s/34E-5dccc
At Bronco Road Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 27	0	-	525	8.05	200	240	30	33	-	-	.04	-	-	-	-	

FORT HALL BOTTOMS SPRINGS
Spring Creek

Location: 4s/33E-25cbb
At Sheepskin Road Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 27	1	-	520	7.90	200	-	30	32	-	-	-	-	-	-	-	
1976																
June 8	80	56	500	8.00	180	200	22.5	29	.14	.5	.08	.82	-	-	.16	Teton Floodwaters
June 9	2	53	600	8.00	210	220	20	33	.09	.7	.03	.87	-	-	.04	

FORT HALL BOTTOMS SPRINGS

Watercress Spring

Location: Near Spring Creek Fish Weir

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975 August 27	0	-	530	7.73	200	230	30	39	-	-	.04	-	-	-	-	

FORT HALL BOTTOMS SPRINGS

Spring Creek

Location:
Fish Weir

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975 August 27	1	-	520	8.10	210	-	25	33	-	-	-	-	-	-	-	

FORT HALL BOTTOMS SPRINGS

Spring Creek

Location: 5s/33E-9acad
At Cable Bridge

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 15	-	50	500	-	-	-	-	-	-	-	-	-	-	-	-	
1976																
January 22	2	42	530	8.05	200	210	25	34	.11	.9	.03	-	12	2/3	-	
March 10	0	49	560	8.10	200	210	25	33	.10	.8	.04	-	11	-	-	
May 27	1	58	560	8.25	205	225	27.5	34	.14	.8	.03	.86	11	-	.02	Includes Teton Floodwaters
June 9	18	55	600	8.00	210	225	30	40	.15	.6	.07	.86	-	-	.14	
July 27	2	58	570	8.11	195	205	22.5	32	.07	.8	.03	.90	10	-	.01	
September 17	2	57	-	8.29	200	210	22.5	33	.07	.8	.03	.83	10	-	.00	
October 26	1	49	-	7.98	200	220	25	34	.07	.9	.03	.84	10	-	.02	
1977																
January 31	1	45	505	8.18	195	220	25	34	.13	.8	.02	.86	11	-	.00	
February 24	2	46	510	7.78	200	220	25	34	.08	.9	.03	.95	10	-	.00	
April 27	1	53	520	-	200	220	25	32	.27	.9	-	.92	10	-	-	
June 28	0	52	515	-	200	220	25	-	-	-	-	.92	10	-	-	
October 19	0	49	520	7.92	200	210	22.5	34	.24	.6	.02	-	-	-	.00	
November 15	1	46	515	8.10	200	220	22.5	36	.23	.7	.02	.82	-	-	.01	

FORT HALL BOTTOMS SPRINGS

Jimmy Creek

Location: 5s/33E-4dba
Above Confluence with Spring Creek

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 10	-	54	520	-	-	-	-	-	-	-	-	-	-	-	-	
October 15	2	48	525	8.00	-	230	-	-	.07	-	-	-	-	-	-	
1976																
January 22	10	35	590	7.82	210	220	25	39	.16	.9	.07	-	10	0/3	-	
March 10	5	47	590	8.00	205	230	30	38	.19	.8	.05	-	10	-	-	
April 30	5	57	640	8.00	220	250	35	44	.12	.7	.03	-	11	-	-	
May 27	1	58	575	8.35	200	220	30	40	1.23	.7	.04	.84	14	-	.05	
June 7	170	-	420	8.00	160	185	20	29	.08	.6	.07	.81	-	-	.21	Includes Teton Floodwaters
July 27	5	65	620	8.02	190	230	35	47	.09	.7	.02	.93	10	-	.04	
September 17	1	62	-	8.32	190	215	27.5	44	.08	.8	.02	.86	10	-	.03	
October 26	1	44	-	7.91	200	240	30	43	.09	.8	.05	.83	11	-	.02	
1977																
January 31	12	41	560	7.83	200	225	30	42	.11	.8	.03	.85	9	-	.04	
February 23	3	46	575	7.66	195	230	30	43	.08	.8	.01	.94	10	-	.00	
April 22	8	61	540	7.60	200	230	27.5	40	.20	.8	-	.91	11	-	-	
June 15	3	61	525	7.65	190	215	27.5	41	.24	.7	.02	.89	10	-	.04	
July 19	0	-	495	8.18	175	195	25	39	.38	.7	.02	.89	-	-	.02	
October 19	0	50	540	7.87	200	225	25	42	.21	.7	.02	-	-	-	.01	
November 15	2	45	555	7.78	200	230	25	45	.27	.8	.02	.77	-	-	.06	

FORT HALL BOTTOMS SPRINGS

Clear Creek

Location: 4s/33E-25dcac
At Sheepskin Road Crossing

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 27	1	-	580	8.10	210	240	40	39	-	-	.05	-	-	-	-	
1976																
February 20	5	48	610	8.00	210	230	30	37	.14	1.0	.03	-	-	-	-	

FORT HALL BOTTOMS SPRINGS

Clear Creek

Location: 5s/33E-14bbb
Above Confluence with Ross Fork

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
February 20	3	44	600	8.00	200	220	35	38	.14	1.0	.02	-	-	-	-	
May 20	1	-	560	8.20	200	250	32.5	38	.08	.8	.04	-	11	-	-	
June 8	205	62	440	7.90	165	175	22.5	27	.22	.4	.07	.76	-	-	.17	Includes Teton Floodwaters
July 27	2	65	600	8.32	195	225	27.5	38	.09	.8	.03	.89	11	-	.04	
September 17	2	56	-	8.13	200	220	27.5	36	.08	.8	.03	.92	9	-	-	
October 26	0	49	-	7.90	200	230	30	40	.09	.9	.03	.87	10	-	.03	
1977																
January 31	4	-	550	7.98	200	220	32.5	41	.10	.9	.02	.89	10	-	.03	
February 23	2	-	550	8.09	195	225	30	40	.07	.8	.02	1.01	11	-	.00	
March 16	2	46	550	7.92	200	230	32.5	39	.07	.9	-	.97	-	-	.00	
April 22	1	56	560	7.83	195	230	32.5	38	.21	.8	-	1.02	10	-	.04	
May 24	0	52	540	8.00	200	225	30	39	.23	.8	.02	.98	-	-	.00	
June 15	2	55	535	7.94	200	230	30	41	.26	.7	.01	.96	9	-	.05	
July 19	1	-	535	8.08	165	195	27.5	38	.25	.8	.02	.88	-	-	.02	
October 19	0	46	560	7.88	200	225	30	41	.23	.8	.02	-	-	-	.03	
November 15	1	45	555	-	200	225	27.5	42	.20	.7	.02	.87	-	-	.00	

PORTNEUF BOTTOMS SPRINGS

Batiste Spring

Location: 6s/34E-7acdb
Near Spring Source

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
December 18	2	54	920	7.40	200	260	50	90	1.02	2.8	.03	.59	-	-	-	SiO_2 = 8.56mg/l
1976																
January 30	0	56	960	7.18	230	325	60	135	1.60	3.1	.02	-	-	-	-	
February 20	0	59	1360	7.10	290	460	75	220	6.00	7.5	.05	-	-	-	-	
March 22	0	60	1410	6.95	290	485	65	260	9.50	7.2	.04	-	-	-	-	
April 12	0	-	1210	7.05	295	410	57.5	180	9.00	4.3	.04	-	3	-	-	
June 1	0	58	1350	7.08	320	460	62.5	210	7.60	4.8	.04	.69	-	-	1.71	
July 30	0	60	1400	6.97	280	450	70	220	3.90	5.4	.03	.75	-	-	1.51	
August 19	0	61	1240	7.12	250	390	62.5	178	3.20	4.2	.03	.73	-	-	.43	
September 23	0	60	-	6.81	300	500	70	260	5.40	12.8	.03	.73	-	-	.24	
October 27	0	60	-	6.96	300	515	70	280	7.10	6.0	.04	.68	-	-	1.63	
November 15	0	60	-	6.96	290	470	67.5	245	6.60	4.9	-	.74	-	-	1.63	
December 15	0	60	1220	7.03	285	460	65	260	6.90	4.8	-	-	-	-	1.49	
1977																
January 19	0	59	1300	7.02	275	455	65	260	6.75	5.0	.04	.76	-	-	1.67	
February 28	0	59	1270	7.02	280	455	67.5	262	6.75	4.4	.03	.84	-	-	1.48	
March 30	0	58	1240	6.95	225	440	-	230	6.25	7.2	-	.79	-	-	1.44	
June 21	0	59	1270	7.04	290	450	72.5	185	5.80	4.3	.03	.79	-	-	1.59	
December 30	0	58	1320	7.06	285	465	70	245	8.10	4.4	.06	.54	-	-	1.42	

PORTNEUF BOTTOMS SPRINGS

Papoose Springs

Location: 6s/33E-1aa

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
December 18	2	55	660	7.80	210	240	50	29	.14	1.2	.02	-	-	-	-	Spring Source
1976																
January 30	0	50	530	7.80	210	220	22.5	29	.15	1.0	.02	-	-	-	-	Spring Source
January 30	2	52	580	7.80	225	230	27.5	30	.28	1.1	.02	-	-	-	-	Outlet

PORTNEUF BOTTOMS SPRINGS

Wide Creek East Springs

Location: 5s/33E-36cabd
At Spring Source

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
March 30	1	52	480	8.23	190	200	20	29	.21	.9	-	.89	-	-	-	
October 14	0	53	495	8.46	195	205	20	30	.28	.8	.02	-	-	-	.00	

PORTNEUF BOTTOMS SPRINGS

Syphon Road Spring

Location: 6s/33E-1baaa

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
January 30	2	46	510	7.90	190	210	22.5	36	.12	.8	.02	-	-	-	-	

PORTNEUF BOTTOMS SPRINGS

Twenty Springs

(East Branch)

Location: 5s/33E-36cabc
At Spring Source

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
January 30	0	50	510	7.75	190	215	22.5	37	.14	.8	.02	-	-	-	-	
February 20	1	51	510	7.85	190	210	20	29	.18	.9	.03	-	-	-	-	
February 20	1	51	550	7.85	190	225	25	38	.16	1.0	.04	-	-	-	-	Downstream
March 22	0	51	495	7.85	195	205	20	29	.11	1.0	.03	-	-	-	-	
June 1	1	53	550	7.95	200	220	20	29	.11	.9	.03	.74	-	-	.04	
July 30	0	55	530	7.92	190	200	20	28	.09	.9	.03	.91	-	-	.00	
August 19	0	54	570	7.85	190	205	20	29	.20	.9	.02	.86	-	-	.00	
September 20	0	54	-	7.70	190	210	17.5	29	.08	.9	.03	.86	-	-	.00	
October 27	0	53	-	7.40	195	210	17.5	28	.07	.9	.03	.82	-	-	.00	
December 15	0	52	470	7.73	190	215	17.5	29	.12	1.0	-	-	-	-	.00	
1977																
January 19	1	50	450	7.51	190	205	15	29	.11	1.1	.02	.86	-	-	.06	
February 28	0	50	480	7.76	195	215	17.5	31	.08	.8	.02	.96	-	-	.00	
March 30	1	51	490	8.08	175	190	17.5	29	.21	.9	-	.91	-	-	-	
June 21	0	54	470	8.18	180	185	20	30	.41	.8	.03	.90	-	-	.00	
October 14	0	53	490	8.42	195	200	17.5	31	.24	.8	.02	-	-	-	.00	
December 30	0	50	485	8.29	195	205	20	31	.22	.9	.04	.83	-	-	.01	

PORTNEUF BOTTOMS SPRINGS

Twenty Springs

(West Branch)

Location: 5s/33E-36cbad
At Spring Source

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
January 30	0	50	1020	7.50	210	345	80	160	.18	.8	.02	-	-	-	-	
February 20	0	50	1040	7.60	210	335	80	155	.17	.9	.03	-	-	-	-	
February 20	1	49	780	7.80	200	265	55	90	.16	.8	.03	-	-	-	-	Downstream
March 22	0	48	1070	7.65	220	340	90	156	.14	.8	.03	-	-	-	-	
June 1	0	52	920	7.70	205	305	62.5	122	.15	.8	.03	.83	-	-	.07	
July 30	0	54	850	7.79	205	275	52.5	110	.11	.8	.03	.99	-	-	.00	
August 19	0	54	950	7.61	200	285	55	130	.10	.8	.02	.92	-	-	.00	
September 20	0	54	-	7.56	205	310	60	145	.11	.8	.03	.98	-	-	.00	
October 27	0	54	-	7.51	210	350	75	176	.11	.8	.03	.95	-	-	.00	
December 15	0	51	810	7.62	200	300	57.5	124	.12	.8	-	-	-	-	.02	
1977																
January 19	0	49	810	7.61	195	300	57.5	122	.12	.8	.03	1.04	-	-	.05	
February 28	0	49	1010	7.62	205	360	90	176	.09	.7	.02	1.08	-	-	.00	
March 30	0	48	1040	8.21	190	340	95	174	.21	.8	-	1.05	-	-	.00	
June 21	0	51	995	7.91	220	350	85	168	.58	.7	.02	1.14	-	-	.00	
October 14	0	52	825	7.40	205	300	60	124	.36	.8	.03	.88	-	-	.01	
December 30	0	50	990	8.05	210	340	80	164	.22	.6	.04	.93	-	-	.00	

PORTNEUF BOTTOMS SPRINGS

Willow Spring

Location: 5s/33E-36cbb

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
October 14	5	50	3200	7.95	355	880	525	445	.52	.2	.03	1.41	-	-	.12	Taken below Pond
December 30	5	36	3350	8.39	290	965	585	440	.33	.3	.02	1.09	-	-	.15	Taken below Pond
December 30	5	38	3800	7.91	330	1105	670	540	.39	.2	.06	1.08	-	-	.13	Taken near Source
1978																
January 25	5	37	4100	8.32	230	1080	880	575	.26	.3	.04	.87	-	-	.08	Taken near Source

PORTNEUF BOTTOMS SPRINGS

Tindaha Spring

Location: 5s/33E-26cdcc
At Road Crossing

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
December 18	5	54	560	7.90	180	200	35	41	.13	.8	.02	-	-	-	-	
1977																
October 27	0	54	525	8.50	175	200	30	47	.26	.7	.02	-	-	-	.02	

PORTNEUF BOTTOMS SPRINGS

Wide Creek

Location: 5s/33E-26bca

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
February 20	2	52	640	7.80	190	230	35	59	.14	1.0	.03	-	-	-	-	Near Source
February 20	7	52	610	8.00	200	220	30	49	.11	1.0	.03	-	-	-	-	Downstream of Source
September 20	2	63	-	8.41	175	195	30	40	.09	.7	.03	.86	10	-	.00	
1977																
January 28	3	48	505	7.98	175	210	30	43	.09	.7	.02	.90	10	-	.05	
February 28	1	50	505	8.23	180	210	30	42	.07	.7	.01	.99	13	-	.00	
March 24	1	52	475	7.77	180	210	25	32	.20	.8	-	.98	13	-	.00	
April 25	1	64	470	-	175	190	22.5	35	.27	.8	-	1.05	-	-	-	
June 16	2	64	510	8.02	185	210	27.5	41	.23	.6	.02	.95	10	-	.03	
October 26	0	-	490	8.29	180	200	25	34	.16	.7	.02	-	-	-	.03	
November 29	0	49	490	-	185	205	20	35	.25	.7	.02	.84	-	-	-	
1978																
January 27	0	-	475	-	170	190	22.5	-	-	-	-	.84	-	-	-	
February 27	0		525	-	-	-	-	-	-	-	-	.79	-	-	.05	

PORTNEUF BOTTOMS SPRINGS

Jimmy Drinks Spring

East Branch

Location: 5s/33E-22ddc

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
December 18	2	55	560	7.95	180	200	25	37	.14	1.2	.02	-	-	-	-	
1976																
July 23	0	55	540	7.75	170	195	25	36	.09	.9	.02	.86	9	-	.03	
September 20	0	56	-	8.08	175	195	25	37	.08	.8	.02	.84	9	-	.00	
1977																
January 28	0	51	475	7.88	170	195	25	37	.09	.9	.03	.86	9	-	.02	
February 28	0	52	470	7.81	170	195	25	36	.11	.9	.02	.91	9	-	.00	
March 24	0	52	470	7.58	170	200	25	35	.26	.9	-	.95	9	-	.00	
April 25	0	55	480	-	175	200	22.5	37	.23	.9	-	1.00	8	-	-	
June 16	0	56	490	7.78	175	200	25	37	.31	.8	.02	.93	8	-	.00	
October 26	0	-	490	7.68	175	200	25	40	.19	.8	.02	-	-	-	.02	
November 29	0	50	480	-	170	200	22.5	39	.24	.7	.05	.77	-	-	-	
1978																
January 27	-	-	425	-	-	-	-	-	-	-	-	.74	-	-	-	
February 27	0		485	-	175	190	25	-	-	-	-	.74	-	-	-	

PORTNEUF BOTTOMS SPRINGS

Jimmy Drinks Spring

West Branch

Location: 5s/33E-22cad

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
January 30	0	52	470	8.00	165	200	25	37	.13	.8	.02	-	-	-	-	
July 23	1	62	530	7.99	170	195	27.5	37	.10	.7	.03	.84	11	-	.00	
September 20	1	59	-	8.28	175	195	25	38	.09	.9	.02	.80	10	-	-	
1977																
January 28	0	52	450	8.23	170	195	25	38	.08	.8	.03	.86	12	-	.02	
February 28	1	50	480	8.02	165	195	25	38	.08	.8	.02	.91	12	-	.00	
March 24	1	43	475	7.92	165	190	25	38	.36	.9	-	.84	11	-	.02	
April 25	0	61	475	-	170	200	25	38	.22	.9	-	.94	9	-	-	
June 16	1	57	480	7.92	170	200	25	39	.25	.8	.02	.90	10	-	.02	
October 26	0	-	490	7.98	180	200	25	39	.17	.8	.02	-	-	-	.04	
November 29	0	49	480	-	175	200	25	39	.19	.7	.02	.77	-	-	-	
1978																
January 27	1	-	435	-	150	180	22.5	-	-	-	-	.77	-	-	-	
February 27	0	-	480	-	-	-	-	-	-	-	-	.75	-	-	-	

PORTNEUF BOTTOMS SPRINGS

Dunn Spring

Location: 5s/33E-22ccc

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
July 23	2	63	570	7.68	190	205	25	39	.09	.3	.03	.86	7	-	.01	

ROSS FORK BASIN

Ross Fork

Location: 5s/35E-5bac
Below Fort Hall Main Canal Crossing

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 18	33	-	370	8.30	190	200	15	19	.28	.2	.08	-	-	-	-	
October 16	-	48	375	-	-	-	-	-	-	-	-	-	-	-	-	
1976																
March 10	480	39	430	8.00	160	175	40	13	.38	.2	.08	-	11	-	-	
July 28	19	69	380	7.71	150	155	12.5	17	.07	.4	.03	.61	8	-	.03	
1977																
March 15	10	36	505	8.09	195	210	42.5	18	.31	.3	-	.47	10	-	.03	
May 24	5	58	405	7.75	150	185	12.5	41	.18	.3	.03	.71	8	-	.03	
July 12	4	-	400	-	150	160	15	25	-	-	-	-	-	-	-	

ROSS FORK BASIN

Ross Fork Spring #1

Location: 5s/34E-4dbcc
South of Butte Road

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
August 23	12	-	1240	7.67	385	530	52.5	168	.89	.7	.03	1.26	-	-	.51	
1977																
March 25	11	40	780	7.70	285	360	35	66	.65	1.9	-	.92	-	-	.41	

ROSS FORK BASIN

Ross Fork Spring #2

Location: 5s/34E-3bcc
At Hawthorne Road

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
August 31	0	54	540	7.81	220	230	15	29	.12	1.0	.03	.86	-	-	.00	

ROSS FORK BASIN

ROSS FORK

Location: 5s/33E-14ac
Above confluence with Clear Creek

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
February 20	5	44	570	8.00	230	240	30	28	.20	1.0	.05	-	-	-	-	
May 5	90	56	470	8.00	170	185	25	23	.22	.3	.12	-	9	-	-	
July 28	11	-	560	7.81	210	215	20	28	.07	.7	.03	.76	10	-	.02	
1977																
March 16	8	44	590	7.94	230	245	30	37	.12	.8	.03	.80	8	-	.02	
May 24	13	53	520	8.27	200	220	20	39	.27	.6	.02	.95	8	-	.01	
June 23	11	64	570	8.29	225	240	22.5	38	.48	.8	.02	.79	8	-	.08	
July 19	5	-	555	8.35	200	205	22.5	36	.29	.6	.02	.76	-	-	.03	
August 10	5	-	505	8.43	180	190	22.5	33	.18	.4	.03	-	-	-	.02	
October 19	2	50	625	7.99	240	260	25	46	.34	.7	.03	-	-	-	.03	
November 10	1	-	615	7.72	235	250	25	48	.27	.9	.03	.75	-	-	.01	

PORTNEUF RIVER BASIN

Portneuf River

Location: 6s/34E-8ccd
At Route 30 Bridge

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
February 28	17	37	720	8.18	290	305	40	35	.17	.8	.03	.57	-	-	.07	
June 23	19	69	650	8.37	240	240	40	32	.55	.3	.02	.61	-	-	.12	

PORTNEUF RIVER BASIN

Portneuf River

Location: 6s/34E-7dba
At Swanson Road Bridge

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes

PORTNEUF RIVER BASIN

Portneuf River

Location: 5s/33E-36dccc
At Syphon Road Bridge

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 21	15	-	725	7.77	280	280	40	-	.88	-	-	-	-	3/3	-	
1976																
July 29	8	62	800	7.94	265	270	37.5	47	1.32	1.3	.06	.74	8	-	.39	
August 19	9	59	825	7.92	260	270	37.5	46	1.39	1.3	.04	.79	-	-	.00	
September 14	3	60	-	7.68	250	260	35	43	.79	1.8	.03	.68	7	-	.00	
November 5	8	-	-	7.67	275	290	40	44	1.72	2.4	.03	.64	8	-	.02	
December 15	8	44	730	7.82	295	295	40	49	.84	1.2	-	-	11	-	.89	
1977																
January 19	12	44	730	7.89	285	300	42.5	48	.80	1.3	.04	.67	10	-	.78	
February 28	8	45	740	8.08	280	300	40	46	1.20	1.6	.03	.76	-	-	.58	
March 30	12	48	730	7.45	270	290	42.5	46	1.05	2.5	-	.74	-	-	.79	
June 21	7	63	720	7.70	270	270	42.5	51	2.38	1.5	.00	2.24	-	-	1.10	
June 23	3	64	720	8.62	250	240	40	55	3.65	2.1	.02	1.40	-	-	.84	
July 28	1	60	710	7.53	260	270	40	54	1.50	2.2	.01	.92	8	-	.49	
August 31	22	-	730	7.90	270	280	42.5	52	1.55	1.5	.04	-	-	-	.07	
October 27	5	56	740	7.72	270	270	40	51	1.37	1.8	.03	-	-	-	.49	
November 1	2	-	720	7.59	270	280	35	48	.88	1.2	.03	.56	-	-	.08	
December 30	28	45	795	7.68	280	290	50	50	3.96	1.2	.04	.67	-	-	1.09	

PORTNEUF RIVER BASIN

Portneuf River

Location: 5s/33E-26aac
Above confluence with Wide Creek

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 21	13	52	725	7.80	280	280	40	47	.89	1.0	.08	-	7	-	-	

PORTNEUF RIVER BASIN

Portneuf River

Location: 5s/33E-28aabd
Below Clear Creek and Jimmy Drinks

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
July 29	4	62	620	8.24	210	215	30	38	.33	1.1	.04	.81	9	-	.00	
September 14	4	54	-	7.88	205	230	27.5	37	.38	1.0	.03	.79	8	-	.00	
November 5	8	50	-	7.65	240	260	32.5	40	.41	1.3	.04	.74	9	-	.07	
1977																
June 21	9	61	540	8.02	200	225	30	38	.60	.8	.02	1.17	-	-	.18	
July 28	2	60	560	7.94	200	215	30	39	.64	.9	.02	.83	10	-	.17	
August 31	10	-	595	8.14	220	240	32.5	41	.39	.8	.02	-	-	-	.02	
September 29	2	-	595	7.75	215	235	30	42	.73	.9	.01	.82	-	-	.02	
November 1	2	-	610	8.59	220	250	32.5	45	.62	.8	.01	.74	-	-	.06	

PORTNEUF RIVER BASIN

Portneuf River

Location: 6s/32E-9aac
Near River Mouth

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
September 29	22	-	570	7.51	210	230	27.5	40	.47	.9	.03	.87	-	-	.02	
November 1	17	-	590	8.61	210	240	30	44	.43	.8	.02	.74	-	-	.00	

SNAKE RIVER BASIN

Snake River

Location: Fort Hall Bottoms

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
October 22	5	47	320	8.10	130	160	-	24	.07	.5	.08	-	-	-	-	Tilden Bridge
October 22	3	47	360	8.05	140	150	15	25	.09	.5	.09	-	-	-	-	Monument
1976																
June 7	900	-	380	7.85	150	150	20	17	.40	.2	.14	.61	-	-	.38	Includes Teton
June 8	390	61	340	7.90	150	145	15	18	.32	.3	.10	.65	-	-	.14	Flood Waters

IRRIGATION SYSTEM

Emma Canal

Location: 4s/34E-30cdc
At Sheepskin Road Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 27	15	-	380	8.20	175	180	15	20	-	-	-	-	-	-	-	

RIO VISTA FROG POND

Location: 5s/34E-5bbb
East of Rio Vista Road

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
March 25	38	55	1130	7.29	295	310	85	155	.35	.3	.08	.96	-	-	.82	

IRRIGATION SYSTEM

Gibson Drain Pond

Location: 4s/34E-23dccd

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
August 31	4	70	250	9.04	100	105	12.5	19	.03	.3	.02	.66	-	-	.06	

IRRIGATION SYSTEM

Gibson Drain

Location: 4s/34E-31daaa
At Sheepskin Road Crossing

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 27	13	-	380	8.25	170	170	15	20	-	-	.07	-	-	-	-	
1977																
March 25	4	51	520	7.55	200	250	25	49	.25	.9	-	.70	-	-	.18	
1978																
January 4	12	36	730	7.98	255	365	30	130	.33	4.1	.12	.75	-	-	.36	

SUMP WELL NORTH OF M #29

Location: 4s/34E-28cacc
Frog Pond Sump Well

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
August 31	2	59	1380	7.58	350	530	55	200	.56	10.8	.04	.84	-	-	.35	
1978																
January 4	1	43	1170	7.65	350	500	50	155	1.02	7.3	.02	.64	-	-	.07	

WELL M #29

Location: 4s/34E-28cdcc
Sheepskin Road Drain Well

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1978																
January 4	2	44	1270	8.18	320	560	70	192	.45	7.0	.03	.54	-	-	.09	

WELL M #27

Location: 2s/37E-19aab

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 August 5	0	54	620	7.74	235	235	15	21	.14	1.1	.03	.42	-	-	.02	

LINCOLN CREEK SCHOOL WELL

Location: 3s/36E-2adc
Lincoln Creek School Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 January 15	2	64	840	7.50	220	270	30	100	.22	.7	.05	-	-	-	-	

TETON WELL

Location: 3s/36E-2ca
Teton Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
February 10	18	43	1070	7.62	285	475	50	220	.13	.3	.43	.87	-	-	.61	
February 15	18	42	1090	7.52	290	470	50	185	.20	.2	.89	.88	-	-	.59	

WELL M #26

Location: 3s/36E-2dba
Marshall Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
November 18	25	46	1300	7.45	280	580	37.5	300	.13	-	1.90	-	-	-	-	
November 19	12	-	1330	7.45	275	-	-	300	-	-	.96	-	-	-	-	
1976																
January 7	25	50	1380	7.40	270	570	35	290	.22	.3	2.02	-	-	-	-	SiO_2 = 43.0
1977																
March 22	24	-	1305	7.79	275	610	40	405	.37	.2	.42	1.07	-	-	.25	
May 13	5	54	1310	7.43	270	640	40	360	.39	.4	.06	1.14	-	-	.00	

THORPE WELL

Location: 3s/36E-13ca
Thorpe Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 February 12	1	41	710	7.65	200	280	55	61	.17	.8	.11	-	-	1/3	-	

THORPE WELL #2

Location: 3s/36E-14ab
Thorpe Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 February 12	6	55	840	7.65	200	360	30	156	.17	.5	.55	-	-	1/3	-	

WELL M #28

Location: 3s/36E-25adc
Creasy Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
March 2	1	48	780	7.55	225	390	30	170	.16	.7	.03	-	-	-	-	
1977																
February 10	0	-	830	7.72	225	385	30	170	.09	.6	.02	.69	-	-	.00	
March 21	0	55	825	7.67	235	400	32.5	166	.23	.6	-	.74	-	-	.00	

WELL M #24

Location: 4s/35E-24cacd

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 4	-	51	660	7.70	230	-	50	26	-	-	.03	-	-	-	-	
1976																
August 5	0	54	770	7.79	240	270	52.5	28	.18	.7	.02	.37	-	-	.00	
September 22	1	-	-	7.58	240	270	50	29	.11	.8	.04	-	-	-	-	

TRUCHOT WELL

Location: 4s/36E-32adbb
Truchot Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
December 9	1	-	1080	7.45	-	430	-	220	-	.4	.13	-	-	0/3	-	
1976																
February 12	0	50	910	7.50	200	380	20	220	.13	.4	.08	-	-	-	-	
1977																
March 21	10	56	915	7.60	185	445	12.5	290	.22	.3	.26	1.07	-	-	.00	

WELL M #25

Location: 5s/36E-5cbdc

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
May 12	1	54	460	8.00	160	165	22.5	6	.23	.4	.04	.34	-	-	-	

PUTNAM LODGE WELL

Location: 5s/36E-6aaab
Putman Lodge Well

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977 April 6	2	46	750	7.65	295	285	47.5	23	.15	.7	.03	.51	-	-	.04	

TEST HOLE #3

Location: 5s/36E-17acac
Ross Fork Test Hole #3

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977 September 3	-	58	395	8.18	185	180	15	1	.60	.4	.20	-	-	-	.02	

WELL [illegible]5

Location: 6s/32E-29ddaa

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 23	-	56	420	7.75	150	170	25	31	.32	-	.04	-	-	-	-	

WELL M #17

Location: 6s/32E-33bbbb

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 30	-	56	430	7.90	-	180	27.5	27	-	-	-	-	-	-	-	
1976																
June 14	0	-	480	7.82	155	175	25	27	.14	.4	.03	.72	-	-	.00	

WELL M #15

Location: 6s/33E-30ccbb

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
June 10	0	50	900	7.50	275	360	82.5	28	.28	.8	.03	.43	-	-	.07	

WELL Q #3

Location: 7s/32E-1aaac

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 23	-	50	825	7.45	250	350	90	31	.15	-	.06	-	-	-	-	

WELL Q #4

Location: 7s/32E-2bdac

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975 September 23	-	52	705	7.55	240	330	70	20	.34	-	.04	-	-	-	-	

WELL M #16

Location: 7s/32E-3dbdd

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975 September 4	-	54	510	7.62	230	250	50	15	-	-	.04	-	-	-	-	

WELL M #14

Location: 7s/33E-6cdab

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 4	-	51	710	7.42	260	310	60	22	.22	-	.03	-	-	-	-	

WELL W #7

Location: 9s/33E-15cabb

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 12	-	62	480	-	-	-	-	-	-	-	-	-	-	-	-	

WELL W #2

Location: 9s/33E-34aba
Red Hand Pump

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 5	-	60	260	-	-	-	-	-	-	-	-	-	-	-	-	
1977																
February 9	29	58	270	8.83	75	80	42.5	0	.04	.2	.92	.29	-	-	.04	

WELL M #32

Location: 3s/34E-27dda

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
February 8	0	46	575	7.64	270	280	12.5	22	.21	.8	.03	.58	-	-	.08	
March 21	0	47	570	7.66	280	280	15	21	.18	.7	.03	.60	-	-	.02	
May 13	0	54	595	7.40	280	280	12.5	23	.30	.7	.02	.70	-	-	.02	
June 21	0	59	570	7.40	260	265	15	23	.52	.8	.03	.61	-	-	-	

WELL W #9

Location: 3s/34E-32adda

Date	Turbidity JTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 16	-	52	440	7.50	200	205	12.5	26	-	-	.02	-	-	-	-	

WELL M #31

Location: 3s/35E-8dbdc
Cutler Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
June 16	0	57	660	7.38	280	280	15	27	.17	1.2	.07	.41	-	1/3	-	
1977																
May 13	0	55	605	7.36	280	290	15	23	.22	1.1	.02	.60	-	-	.00	

WELL Q #44

Location: 3s/35E-9cdda

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977 June 24	1	59	620	7.47	255	290	27.5	27	.51	2.3	.00	.64	-	-	.03	

DIXIE WELL

Location: 3S/35E - 16 b
Dixie Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 June 16	0	57	650	7.60	275	290	15	25	.13	1.1	.09	.43	-	3	-	

WADSWORTH WELL

Location: 3s/35E-30bcdc
Wadsworth Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977 April 26	1	52	540	7.41	240	250	10	22	.23	.9	.09	.63	-	-	.02	

SMALL WELL

Location: 3S/35E - 30 ddd

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 February 12	0	54	560	7.50	215	220	15	28	.16	1.9	.02	-	-	3	-	

WELL N #3

Location: 3s/35E-32b

Date	Turbidity PTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
April 8	0	55	505	7.65	220	240	17.5	22	.22	.9	.06	.69	-	-	.01	

WELL M #3

Location: 4s/33E-36aacc

Date	Turbidity PTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
February 8	0	46	500	7.70	185	215	30	37	.11	1.0	.05	.99	-	-	.01	
March 21	0	37	500	7.60	185	220	32.5	35	.27	.9	-	.96	-	-	.00	
May 13	0	51	515	7.47	185	215	30	35	.21	.8	.02	1.06	-	-	.00	

WELL Q #26

Location: 4s/34E-17cbca

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975 August 18	-	-	640	7.65	260	250	27.5	38	.06	1.3	.02	-	-	-	-	

WELL Q #24

Location: 4s/34E-20dddb

Date	Turbidity JTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 July 8	0	57	710	7.84	230	250	25	36	.18	3.8	.03	.68	-	-	.02	

WELL Q #42

Location: 4s/34E-26bacd

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
June 2	0	60	530	7.68	180	205	17.5	29	.12	3.9	.04	.51	-	-	.02	

WELL Q #23

Location: 4s/34E-27aabb

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
June 2	0	56	570	7.75	220	235	17.5	26	.14	1.3	.03	.62	-	-	.02	

WELL M #2

Location: 4s/34E-34cabb

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 2	-	54	530	7.50	200	240	22.5	35	.09	2.5	.04	-	-	-	-	
1976																
August 9	0	57	650	7.87	205	230	20	33	.14	4.0	.03	.67	-	-	.00	
1977																
June 21	1	55	570	7.78	210	230	22.5	37	.46	3.5	.02	.70	-	-	-	

BRONCO WELL

Location: 4S/34E - 36 ad

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
November 28	1	50	560	7.60	240	230	15	25	.17	2.7	.07	-	-	0/3	-	

WELL M #1

Location: 4s/34E-36baab
Dann Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
March 2	1	54	460	7.78	210	220	17.5	20	.22	1.3	.04	-	-	-	-	
1977																
February 8	0	54	490	7.68	215	220	12.5	22	.17	1.2	.04	.51	-	-	.03	
March 21	0	55	490	7.59	220	225	15	22	.25	1.2	-	.57	-	-	.00	
May 13	0	57	500	7.72	220	220	15	22	.41	.9	.06	.61	-	-	.00	

TRIBAL OFFICE WELL

Location: 4S/34E - 36 cb
Tribal Office Water Supply Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 3	-	69	570	7.65	230	240	27.5	24	.12	1.4	.02	.64	-	-	.03	
1977																
January 31	0	53	505	7.71	210	230	25	25	.16	1.7	.03	.59	-	-	.04	
February 14	0	50	520	7.61	215	225	25	24	.14	1.7	.02	.53	-	-	.01	

WELL Q #34

Location: 4s/35E-5bbab

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 June 16	0	57	540	8.00	210	225	15	23	.16	1.2	.03	.51	-	-	-	

WELL Q #37

Location: 4s/35E-17dccc

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975 August 14	-	-	700	7.80	-	200	-	23	.27	16.2	.03	-	-	-	-	Farm Chemicals Added

WELL Q #39

Location: 4s/35E-29adbb

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975 August 14	-	-	525	7.75	-	230	-	25	.17	1.9	.03	-	-	-	-	

WELL Q #14

Location: 5s/33E-12dbba

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 August 16	0	52	610	7.94	180	210	30	38	.08	.9	.02	.95	-	-	.00	

WELL Q #12

Location: 5s/33E-24cac

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 18	-	-	470	7.85	180	200	25	35	.07	.8	.08	-	-	-	-	
1977																
March 21	0	49	450	7.62	170	200	25	32	.23	.8	-	1.01	-	-	.01	

WELL L #9

Location: 5s/34E-7bdab

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
August 16	0	52	570	7.83	185	200	22.5	32	.10	.9	.03	.97	-	-	.00	

WELL M #23

Location: 5s/34E-15aaaa

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
February 8	0	-	695	7.70	270	275	30	47	.17	1.2	.05	.52	-	-	.03	

LA VATTA WELL

Location: 5s/34E-15c
LaVatta Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
February 24	0	54	780	7.70	280	205	20	75	.22	1.2	.04	-	-	1/3	-	

WELL L #5

Location: 5s/34E-16bbbb
Eagle Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
August 13	1	-	560	7.92	200	210	15	29	.12	1.1	.21	.76	-	-	.00	
1977																
March 21	0	-	490	7.68	205	220	17.5	28	.23	1.0	.07	.81	-	-	.00	

WELL M #36

Location: 5s/34E-21dcdd

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
June 21	0	56	905	7.66	350	220	42.5	77	.45	1.2	.02	.64	-	-	.01	

WELL Q #17

Location: 5s/34E-26aacb

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977 July 7	0	66	595	7.55	210	170	40	32	.74	.6	.02	1.63	-	-	.02	

WELL Q #19

Location: 5s/35E-7ccbd

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977 June 21	0	59	510	7.54	200	190	30	24	.62	.5	.02	.62	-	-	-	

WELL R #21

Location: 5s/32E-36cddd

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
June 15	0	54	460	8.00	140	165	25	40	.12	.6	.02	.78	-	-	.04	

WELL M #20

Location: 5s/33E-28ccbb

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
September 2	-	51	440	7.58	170	210	27.5	44	.08	.8	.05	-	-	-	-	
1977																
June 21	1	55	495	7.80	175	200	25	42	.38	.8	.03	.87	-	-	-	

WELL Q #9

Location: 5s/33E-34addd

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 18	-	-	420	7.80	160	200	30	42	.08	.8	.02	-	-	-	-	

B.I.A. IRRIGATION OFFICE WELL

Location: 5s/33E-36cdcd
BIA Irrigation Office Well

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
January 19	0	40	475	7.62	180	200	17.5	29	.09	1.0	.06	.93	-	-	.06	
February 9	0	37	440	7.60	185	200	20	31	.11	.9	.05	.86	-	-	.00	
March 30	0	45	480	8.53	180	200	17.5	30	.26	.9	-	.89	-	-	-	
1978																
January 25	0	-	490	-	185	210	17.5	-	-	-	-	.76	-	-	.01	

WELL BIA #113

Location: 6s/32E-1abaa
BIA Well #113

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 August 18	0	54	495	8.13	140	165	22.5	38	.11	.7	.02	.87	-	-	.00	

WELL M #18

Location: 6s/32E-14aabb

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 June 14	0	-	475	7.98	145	175	22.5	38	.12	.6	.03	.88	-	-	.00	

WELL Q #10

Location: 6s/33E-1dacc

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1975																
August 18	0	-	430	7.95	210	220	20	30	.10	.9	.04	-	-	-	-	
1976																
June 23	1	54	540	8.00	200	210	25	29	.13	1.0	.03	.81	-	-	.00	

WELL BIA #110

Location: 6s/33E-3acdd

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
September 30	2	52	450	7.76	150	175	25	42	.25	.7	.03	.82	-	-	.00	

WELL M #19

Location: 6s/33E-5cacc

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 June 14	0	-	510	7.95	155	190	25	42	.12	.9	.04	.90	-	-	.00	

WELL T16

Location: 6s/33E-12bbcc

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976 June 15	0	54	640	7.85	160	200	52.5	56	.12	.9	.02	.73	-	-	.02	

LINDLEY WELL

Location: 6s/33E-12ccdc
Lindley Domestic Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
February 25	2	-	1380	7.58	225	380	180	110	.28	3.0	.42	.67	-	-	-	
March 11	1	40	1340	7.50	230	370	175	110	.19	2.9	.08	.64	-	-	-	
April 12	0	-	1305	7.58	220	350	170	100	.18	2.6	.05		-	-		
June 10	0	64	1660	7.45	255	460	230	120	.22	3.0	.03	.71	-	-	.14	
July 30	0	66	1705	7.46	260	460	230	140	.18	3.9	.04	.75	-	-	.12	
August 31	0	57	1280	7.41	240	370	165	86	.17	3.0	.01	.77	-	-	.00	
September 23	0	59	-	7.37	230	375	165	97	.12	2.7	.04	.78	-	-	.08	
November 15	0	55	-	7.38	240	400	185	96	.17	3.1	-	.69	-	-	.08	
1977																
January 19	0	44	1320	7.43	240	415	200	106	.16	3.4	.05	.78	-	-	.17	
February 9	0	44	1320	7.40	240	420	200	108	.16	3.0	.03	.75	-	-	.12	
March 30	0	54	1370	7.50	240	420	207.5	108	.42	3.2	-	.79	-	-	.00	
June 21	0	63	870	7.80	195	295	112.5	60	.70	1.6	.02	.85	-	-	.00	
October 27	0	-	1290	7.87	240	390	182.5	108	.46	2.5	.03	-	-	-	.01	
December 30	0	67	1360	7.70	245	415	197.5	114	.53	2.8	.03	.65	-	-	.00	

PILOT HOUSE WELL II

Location: 6s/33E-12dadc
Pilot House Cafe Well #2

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
March 23	1	58	500	7.85	160	180	32.5	43	.16	.8	.10	-	-	-	-	

POCATELLO AIRPORT WELL

Location: 6s/33E-15accd
Pocatello Municipal Airport Well

Date	Turbidity FTU	Temperature °F	Conductivity μ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1976																
March 12	0	-	710	7.68	190	260	65	46	.23	2.3	.08	.69	-	-	-	
1977																
February 9	0	47	630	7.70	180	260	62.5	48	.15	2.2	.07	.68	-	-	.00	

WELL M #11

Location: 6s/33E-22babb

Date	Turbidity FTU	Temperature °F	Conductivity µ-mhos per cm	pH	Total Alkalinity mg/l $CaCO_3$	Total Hardness mg/l $CaCO_3$	Chloride mg/l Cl	Sulfate mg/l SO_4	Ortho Phosphate mg/l PO_4	Nitrate mg/l N	Iron mg/l Fe	Fluoride mg/l F	Dissolved Oxygen mg/l	Coliform	Ammonia mg/l N	Notes
1977																
June 21	0	60	480	7.67	170	180	30	34	.62	.7	.01	.81	-	-	-	