

Well Type	Well ID	Elev. (m)	Elev. (ft)	From Depth (ft)	To Depth (ft)	From Depth (m)	To Depth (m)	Top Elev. (ft)	Bottom Elev. (ft)	Top Elev. (m)	Bottom Elev. (m)	Thickness (m)	HGUID	HGU Code	Lithology	Comments [by author]
35	1577	381	1249	0	140	0	43	1249	1109	381	338	43	1	VF	clay and boulders	
35	1577	381	1249	140	1068	43	326	1109	181	338	55	283	2	UBF	clay and some sand	
35	1577	381	1249	1068	1180	326	360	181	69	55	21	34	3	LBF	sand and gravel	
35	1577	381	1249	1180	1370	360	418	69	-121	21	-37	58	3	LBF	conglomerate and shells	
35	1577	381	1249	1370	1580	418	482	-121	-331	-37	-101	64	3	LBF	sand and shells	
35	1577	381	1249	1580	1720	482	524	-331	-471	-101	-144	43	3	LBF	shale (sandy)	
35	1577	381	1249	1720	1855	524	565	-471	-606	-144	-185	41	3	LBF	sand and gravel	
35	1577	381	1249	1855	2142	565	653	-606	-893	-185	-272	87	3	LBF	cemented sand	
35	1577	381	1249	2142	2204	653	672	-893	-955	-272	-291	19	3	LBF	coarse sand and gravel	
35	1577	381	1249	2204	2233	672	681	-955	-984	-291	-300	9	3	LBF	hard sand	
35	1612	390	1280	0	10	0	3	1280	1270	390	387	3	1	VF	top soil	
35	1612	390	1280	10	300	3	91	1270	980	387	299	88	1	VF	sand and boulders	
35	1612	390	1280	300	388	91	118	980	892	299	272	27	2	UBF	clay	
35	1612	390	1280	388	479	118	146	892	801	272	244	28	2	UBF	sandy clay	
35	1612	390	1280	479	900	146	274	801	380	244	116	128	2	UBF	conglomerate	
35	1612	390	1280	900	1089	274	332	380	191	116	58	58	3	LBF	malapai	
35	1612	390	1280	1089	1537	332	468	191	-257	58	-78	137	3	LBF	cemented conglomerate	
35	1612	390	1280	1537	2660	468	811	-257	-1380	-78	-421	342	7	B	granite	
35	1613	391	1283	0	6	0	2	1283	1277	391	389	2	1	VF	silt	
35	1613	391	1283	6	100	2	30	1277	1183	389	361	29	1	VF	gravel and boulders	
35	1613	391	1283	100	416	30	127	1183	867	361	264	96	2	UBF	sand and gravel	
35	1613	391	1283	416	614	127	187	867	669	264	204	60	2	UBF	clay with streaks of gravel and sand	
35	1613	391	1283	614	746	187	227	669	537	204	164	40	2	UBF	clay with very little gravel	
35	1613	391	1283	746	768	227	234	537	515	164	157	7	2	UBF	gravel and sand	
35	1613	391	1283	768	790	234	241	515	493	157	150	7	2	UBF	gravel with streaks of clay	
35	1613	391	1283	790	812	241	248	493	471	150	143	7	2	UBF	clay	
35	1613	391	1283	812	903	248	275	471	380	143	116	28	3	LBF	malapai	
35	1613	391	1283	903	905	275	276	380	378	116	115	1	3	LBF	conglomerate, cemented, broken	
35	1613	391	1283	905	950	276	290	378	333	115	101	14	3	LBF	conglomerate, hard	
35	1613	391	1283	950	1153	290	351	333	130	101	40	62	3	LBF	hard conglomerate, streaks of basalt	
35	1613	391	1283	1153	1306	351	398	130	-23	40	-7	47	3	LBF	basalt-broken	
35	1613	391	1283	1306	1335	398	407	-23	-52	-7	-16	9	3	LBF	basalt-hard	
35	1613	391	1283	1335	1365	407	416	-52	-82	-16	-25	9	3	LBF	basalt with broken stratas	
35	1613	391	1283	1365	1527	416	465	-82	-244	-25	-74	49	3	LBF	basalt - very small breaks	
35	1613	391	1283	1527	1615	465	492	-244	-332	-74	-101	27	3	LBF	basalt, extremely hard, no breaks	
35	1613	391	1283	1615	2225	492	678	-332	-942	-101	-287	186	3	LBF	basalt, very hard, small breaks	
35	1613	391	1283	2225	2311	678	704	-942	-1028	-287	-313	26	3	LBF	basalt, very hard, no breaks	
35	1613	391	1283	2311	2525	704	770	-1028	-1242	-313	-379	65	3	LBF	basalt, very hard, small breaks	
35	2048	399	1307	0	12	0	4	1307	1295	399	395	4	1	VF	topsoil	
35	2048	399	1307	12	280	4	85	1295	1027	395	313	82	1	VF	sand and large gravel	
35	2048	399	1307	280	790	85	241	1027	517	313	158	155	2	UBF	clay sand and small gravel	
35	2048	399	1307	790	893	241	272	517	414	158	126	31	3	LBF	granite	
35	2048	399	1307	893	1206	272	368	414	101	126	31	95	3	LBF	hard sand and clay	
35	2048	399	1307	1206	2321	368	707	101	-1014	31	-309	340	3	LBF	granite and broken formation	
35	2071	388	1273	0	10	0	3	1273	1263	388	385	3	1	VF	boulders	
35	2071	388	1273	10	80	3	24	1263	1193	385	364	21	1	VF	boulders and gravel	
35	2071	388	1273	80	180	24	55	1193	1093	364	333	30	1	VF	boulders, some clay	

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35	2071	388	1273	180	330	55	101	1093	943	333	287	46	1	VF	boulders and gravel, some clay	
35	2071	388	1273	330	475	101	145	943	798	287	243	44	2	UBF	cemented gravel	
35	2071	388	1273	475	690	145	210	798	583	243	178	66	2	UBF	clay and boulders	
35	2071	388	1273	690	770	210	235	583	503	178	153	24	2	UBF	clay and gravel	
35	2071	388	1273	770	1260	235	384	503	13	153	4	149	2	UBF	red clay and gravel	
35	2071	388	1273	1260	1520	384	463	13	-247	4	-75	79	3	LBF	white clay, sand and gravel	
35	2071	388	1273	1520	2020	463	616	-247	-747	-75	-228	152	3	LBF	red clay and gravel	
35	2071	388	1273	2020	2025	616	617	-747	-752	-228	-229	2	3	LBF	red cinders	
35	2077	386	1267	0	75	0	23	1267	1192	386	363	23	1	VF	sand and gravel	
35	2077	386	1267	75	222	23	68	1192	1045	363	319	45	1	VF	sand, streaks of gravel	
35	2077	386	1267	222	580	68	177	1045	687	319	210	109	2	UBF	sand, gravel, streaks of clay, boulders	
35	2077	386	1267	580	775	177	236	687	492	210	150	59	2	UBF	sand, gravel, streaks of clay	
35	2077	386	1267	775	868	236	265	492	399	150	122	28	2	UBF	streaks clay, sand, gravel	
35	2077	386	1267	868	931	265	284	399	336	122	103	19	3	LBF	hard sand, streaks granite sand	
35	2077	386	1267	931	1014	284	309	336	253	103	77	25	3	LBF	hard sand and gravel	
35	2077	386	1267	1014	1173	309	358	253	94	77	29	48	3	LBF	sand and gravel with hard shells	
35	2077	386	1267	1173	1291	358	394	94	-24	29	-7	36	3	LBF	hard conglomerate, sand shell gravel	
35	2077	386	1267	1291	1383	394	422	-24	-116	-7	-35	28	3	LBF	hard sand, hard rock	
35	2077	386	1267	1383	1557	422	475	-116	-290	-35	-88	53	3	LBF	sand and gravel	
35	2077	386	1267	1557	1632	475	497	-290	-365	-88	-111	23	3	LBF	hard sand and gravel	
35	2077	386	1267	1632	1660	497	506	-365	-393	-111	-120	9	3	LBF	conglomerate sand	
35	2077	386	1267	1660	1734	506	529	-393	-467	-120	-142	23	3	LBF	hard sand and gravel	
35	2077	386	1267	1734	1832	529	558	-467	-565	-142	-172	30	3	LBF	hard sand, streaks chert shale, lime shells	
35	2077	386	1267	1832	1922	558	586	-565	-655	-172	-200	27	3	LBF	sand, gravel streaks and hard shale	
35	2077	386	1267	1922	2050	586	625	-655	-783	-200	-239	39	3	LBF	sand, sandy shale, streaks gravel	
35	2080	387	1271	0	15	0	5	1271	1256	387	383	5	1	VF	topsoil and clay	
35	2080	387	1271	15	120	5	37	1256	1151	383	351	32	1	VF	boulders and clay	
35	2080	387	1271	120	315	37	96	1151	956	351	291	59	2	UBF	gravel, boulders and clay, cemented	
35	2080	387	1271	315	575	96	175	956	696	291	212	79	2	UBF	gravel, boulders and some clay	
35	2080	387	1271	575	845	175	258	696	426	212	130	82	2	UBF	clay some gravel	
35	2080	387	1271	845	1040	258	317	426	231	130	70	59	3	LBF	malapai, hard	
35	2080	387	1271	1040	1150	317	351	231	121	70	37	34	3	LBF	brown lime rock	
35	2080	387	1271	1150	1610	351	491	121	-339	37	-103	140	3	LBF	sandy shale	
35	2080	387	1271	1610	1890	491	576	-339	-619	-103	-189	85	3	LBF	brown lime	
35	2080	387	1271	1890	1950	576	594	-619	-679	-189	-207	18	3	LBF	sandy shale	
35	2080	387	1271	1950	2004	594	611	-679	-733	-207	-223	16	3	LBF	red lime rock	
35	2188	382	1255	0	6	0	2	1255	1249	382	381	2	1	VF	soil	
35	2188	382	1255	6	450	2	137	1249	805	381	245	135	2	UBF	boulders and gravel	
35	2188	382	1255	450	1008	137	307	805	247	245	75	170	2	UBF	clay	
35	2188	382	1255	1008	1420	307	433	247	-165	75	-50	126	2	UBF	conglomerate	
35	2188	382	1255	1420	1608	433	490	-165	-353	-50	-108	57	3	LBF	granite	
35	2188	382	1255	1608	2017	490	615	-353	-762	-108	-232	125	3	LBF	sand rock	
35	9057	322	1057	0	6	0	2	1057	1051	322	320	2	1	VF	soil	
35	9057	322	1057	6	30	2	9	1051	1027	320	313	7	1	VF	caliche	
35	9057	322	1057	30	65	9	20	1027	992	313	302	11	1	VF	packed sand	
35	9057	322	1057	65	82	20	25	992	975	302	297	5	1	VF	clay and gravel	
35	9057	322	1057	82	96	25	29	975	961	297	293	4	1	VF	boulders and sand	

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35	9057	322	1057	96	130	29	40	961	927	293	282	10	1	VF	sand clay	
35	9057	322	1057	130	170	40	52	927	887	282	270	12	1	VF	hard clay	
35	9057	322	1057	170	180	52	55	887	877	270	267	3	1	VF	sand (struck water)	
35	9057	322	1057	180	213	55	65	877	844	267	257	10	1	VF	sandstone	
35	9057	322	1057	213	230	65	70	844	827	257	252	5	1	VF	silt	
35	9057	322	1057	230	248	70	76	827	809	252	247	5	1	VF	sandstone & gravel	
35	9057	322	1057	248	254	76	77	809	803	247	245	2	1	VF	cemented gravel	
35	9057	322	1057	254	258	77	79	803	799	245	243	1	1	VF	tight gravel	
35	9057	322	1057	258	262	79	80	799	795	243	242	1	1	VF	loose sand and gravel	
35	9057	322	1057	262	268	80	82	795	789	242	240	2	1	VF	loose sand & gravel, some clay	
35	9057	322	1057	268	295	82	90	789	762	240	232	8	1	VF	tight gravel	
35	9057	322	1057	295	306	90	93	762	751	232	229	3	1	VF	loose gravel	
35	9057	322	1057	306	308	93	94	751	749	229	228	1	1	VF	tight gravel	
35	9057	322	1057	308	326	94	99	749	731	228	223	5	1	VF	loose gravel (water sample 308-326)	
35	9057	322	1057	326	340	99	104	731	717	223	218	4	1	VF	loose silt sand & gravel	
35	9057	322	1057	340	354	104	108	717	703	218	214	4	1	VF	tight silt	
35	9057	322	1057	354	362	108	110	703	695	214	212	2	1	VF	loose gravel	
35	9057	322	1057	362	374	110	114	695	683	212	208	4	1	VF	clay gravel & sand	
35	9057	322	1057	374	394	114	120	683	663	208	202	6	1	VF	tight gravel	
35	9057	322	1057	394	406	120	124	663	651	202	198	4	2	UBF	clay some gravel	
35	9057	322	1057	406	414	124	126	651	643	198	196	2	2	UBF	loose gravel	
35	9057	322	1057	414	490	126	149	643	567	196	173	23	2	UBF	tight clay and gravel	
35	9057	322	1057	490	504	149	154	567	553	173	168	4	2	UBF	hard clay	
35	9057	322	1057	504	545	154	166	553	512	168	156	12	2	UBF	sand & gravel	
35	9057	322	1057	545	555	166	169	512	502	156	153	3	2	UBF	clay	
35	9057	322	1057	555	580	169	177	502	477	153	145	8	2	UBF	sandstone & small gravel & water	
35	9057	322	1057	580	590	177	180	477	467	145	142	3	2	UBF	clay	
35	9057	322	1057	590	620	180	189	467	437	142	133	9	2	UBF	clay and sand	
35	9057	322	1057	620	630	189	192	437	427	133	130	3	2	UBF	hard clay	
35	9057	322	1057	630	815	192	248	427	242	130	74	56	2	UBF	clay & some gravel	
35	9057	322	1057	815	855	248	261	242	202	74	61	12	2	UBF	clay, silt and water	
35	9057	322	1057	855	881	261	269	202	176	61	54	8	2	UBF	dry silt	
35	9057	322	1057	881	935	269	285	176	122	54	37	16	2	UBF	joint clay and silt	
35	9057	322	1057	935	970	285	296	122	87	37	26	11	2	UBF	silt (water sample 920)	
35	9057	322	1057	970	1178	296	359	87	-121	26	-37	63	2	UBF	clay & silt dry with little streaks of sand (water sample 1012)	
35	9057	322	1057	1178	1192	359	363	-121	-135	-37	-41	4	3	LBF	silt and sandstone	
35	9057	322	1057	1192	1194	363	364	-135	-137	-41	-42	1	3	LBF	clay and trace of sand	
35	9057	322	1057	1194	1195	364	364	-137	-138	-42	-42	0	3	LBF	hard sandstone	
35	9057	322	1057	1195	1206	364	368	-138	-149	-42	-45	3	3	LBF	clay and fine sand	
35	9057	322	1057	1206	1246	368	380	-149	-189	-45	-58	12	3	LBF	clay & silt	
35	9057	322	1057	1246	1254	380	382	-189	-197	-58	-60	2	3	LBF	soft clay and silt	
35	9057	322	1057	1254	1260	382	384	-197	-203	-60	-62	2	3	LBF	soft sandstone	
35	9057	322	1057	1260	1296	384	395	-203	-239	-62	-73	11	3	LBF	sticky clay & silt	
35	9057	322	1057	1296	1318	395	402	-239	-261	-73	-80	7	3	LBF	clay	
35	9057	322	1057	1318	1337	402	408	-261	-280	-80	-85	6	3	LBF	clay and silt	
35	9057	322	1057	1337	1340	408	408	-280	-283	-85	-86	1	3	LBF	sand & silt, very fine-hot water - don't cut in.	
35	9057	322	1057	1340	1360	408	415	-283	-303	-86	-92	6	3	LBF	clay & silt (water sample 1340)	

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35	9057	322	1057	1360	1490	415	454	-303	-433	-92	-132	40	3	LBF	clay very sticky some silt (water sample 1418)	
35	9057	322	1057	1490	1516	454	462	-433	-459	-132	-140	8	3	LBF	silt with a clay binder	
35	9057	322	1057	1516	1520	462	463	-459	-463	-140	-141	1	3	LBF	fine grain rock ledge-very hard	
35	9057	322	1057	1520	1528	463	466	-463	-471	-141	-144	2	3	LBF	silt	
35	9057	322	1057	1528	1570	466	479	-471	-513	-144	-156	13	3	LBF	silt and sand (water was cold)	
35	9057	322	1057	1570	1586	479	483	-513	-529	-156	-161	5	3	LBF	fine sand with salt water don't cut in	
35	9057	322	1057	1586	1597	483	487	-529	-540	-161	-165	3	3	LBF	clay & silt	
35	9057	322	1057	1597	1601	487	488	-540	-544	-165	-166	1	3	LBF	mountain rock & sand-water hot water sample 1596	
35	9057	322	1057	1601	1605	488	489	-544	-548	-166	-167	1	3	LBF	clay silt & sand	
35	9057	322	1057	1605	1615	489	492	-548	-558	-167	-170	3	3	LBF	fine sand stone & clay	
35	9057	322	1057	1615	1630	492	497	-558	-573	-170	-175	5	3	LBF	clay & silt (water level 600 ft.)	
35	9057	322	1057	1630	1660	497	506	-573	-603	-175	-184	9	3	LBF	sand stone inlaid in silt, no water	
35	9057	322	1057	1660	1689	506	515	-603	-632	-184	-193	9	3	LBF	a white mountain gravel in clay and silt	
35	9057	322	1057	1689	1700	515	518	-632	-643	-193	-196	3	3	LBF	white spar rock in boulder form	
35	9057	322	1057	1700	1720	518	524	-643	-663	-196	-202	6	3	LBF	white rock in clay-water rose to 169 ft(very hot water)	
35	9057	322	1057	1720	1729	524	527	-663	-672	-202	-205	3	3	LBF	white rock in sand-water level at 169 ft (water sample 1729)	
35	9057	322	1057	1729	1740	527	530	-672	-683	-205	-208	3	3	LBF	clay & silt more clay	
35	9057	322	1057	1740	1743	530	531	-683	-686	-208	-209	1	3	LBF	clay	
35	9057	322	1057	1743	1747	531	532	-686	-690	-209	-210	1	3	LBF	hard clay	
35	9057	322	1057	1747	1810	532	552	-690	-753	-210	-230	19	3	LBF	clay & silt (water level 158ft-very hot)	
35	9057	322	1057	1810	1837	552	560	-753	-780	-230	-238	8	3	LBF	silt and sandstone - with a white lime-water 158 ft.)	
35	9057	322	1057	1837	1840	560	561	-780	-783	-238	-239	1	3	LBF	hard sandstone - water level 350- ft	
35	9057	322	1057	1840	1868	561	569	-783	-811	-239	-247	9	3	LBF	clay dry	
35	9057	322	1057	1868	1871	569	570	-811	-814	-247	-248	1	3	LBF	fine sand & silt -water level 149 ft (water sample 1868)	
35	9057	322	1057	1871	1898	570	579	-814	-841	-248	-256	8	3	LBF	hard silt stone & clay	
35	9057	322	1057	1898	1910	579	582	-841	-853	-256	-260	4	3	LBF	sand some gravel & clay - water good	
35	9057	322	1057	1910	1928	582	588	-853	-871	-260	-266	5	3	LBF	clay & silt	
35	9057	322	1057	1928	1936	588	590	-871	-879	-266	-268	2	3	LBF	fine sand (water sample at 1936)	
35	9057	322	1057	1936	1968	590	600	-879	-911	-268	-278	10	3	LBF	hard clay (water sample at 1980)	
35	9057	322	1057	1968	2004	600	611	-911	-947	-278	-289	11	3	LBF	soft clay & silt with hot water	
35	9057	322	1057	2004	2048	611	624	-947	-991	-289	-302	13	3	LBF	granite boulders embedded in hard cemented sand (water sample 2054)	
35	9057	322	1057	2048	2054	624	626	-991	-997	-302	-304	2	3	LBF	granite gravel) loose (water level at 147 temp 124 degrees)	
35	9057	322	1057	2054	2070	626	631	-997	-1013	-304	-309	5	3	LBF	granite gravel - tight - water level 172	
35	9057	322	1057	2070	2073	631	632	-1013	-1016	-309	-310	1	3	LBF	hard granite ledge	
35	9057	322	1057	2073	2084	632	635	-1016	-1027	-310	-313	3	3	LBF	fine sand & granite gravel _ level 147 ft. hot salt water temp.114degrees	
35	9057	322	1057	2084	2106	635	642	-1027	-1049	-313	-320	7	3	LBF	gravel sand & gravel - filled up pipe 6 ft (water sample 2098)	
35	9057.00	322	1057	2106	2138	642	652	-1049	-1081	-320	-330	10	3	LBF	coarse sand - water level 152 ft temp 112degrees	
35	9057	322	1057	2138	2142	652	653	-1081	-1085	-330	-331	1	3	LBF	granite ledge very hard	
35	9057	322	1057	2142	2155	653	657	-1085	-1098	-331	-335	4	3	LBF	sand, clay & silt - water sample 2155 to 2190	
35	9057	322	1057	2155	2218	657	676	-1098	-1161	-335	-354	19	3	LBF	sand stone some clay or silt & granite embedded	
35	9057	322	1057	2218	2230	676	680	-1161	-1173	-354	-358	4	3	LBF	red sticky clay	

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35	9057	322	1057	2230	2235	680	681	-1173	-1178	-358	-359	2	3	LBF	sand, gravel & clay - water level 210 ft	
35	9057	322	1057	2235	2255	681	687	-1178	-1198	-359	-365	6	3	LBF	hard clay, gravel & silt temp. 124 degrees	
35	9057	322	1057	2255	2280	687	695	-1198	-1223	-365	-373	8	3	LBF	hard clay silt & sandstone water level 180	
35	9057	322	1057	2280	2311	695	704	-1223	-1254	-373	-382	9	3	LBF	soft brown sandstone	
35	9057	322	1057	2311	2318	704	707	-1254	-1261	-382	-384	2	3	LBF	granite boulders embedded in clay - water level 300ft - temp. 129degrees	
35	9057	322	1057	2318	2386	707	727	-1261	-1329	-384	-405	21	4	LUKE	rock salt ledge (don't cut) water level 168'	
35	9057	322	1057	2386	2398	727	731	-1329	-1341	-405	-409	4	4	LUKE	brown sand & salt	
35	9057	322	1057	2398	2550	731	777	-1341	-1493	-409	-455	46	4	LUKE	salt ledge	
35	9057	322	1057	2550	2556	777	779	-1493	-1499	-455	-457	2	3	LBF	granite ledge (water sample 2350)	
35	9057	322	1057	2556	2632	779	802	-1499	-1575	-457	-480	23	4	LUKE	salt	
35	9057	322	1057	2632	2636	802	803	-1575	-1579	-480	-481	1	3	LBF	sand	
35	9057	322	1057	2636	2648	803	807	-1579	-1591	-481	-485	4	4	LUKE	salt	
35	9057	322	1057	2648	2652	807	808	-1591	-1595	-485	-486	1	3	LBF	mountain gravel and sand	
35	9057	322	1057	2652	2656	808	810	-1595	-1599	-486	-487	1	3	LBF	blue rock	
35	9057	322	1057	2656	2743	810	836	-1599	-1686	-487	-514	27	4	LUKE	salt	
35	9057	322	1057	2743	2745	836	837	-1686	-1688	-514	-515	1	4	LUKE	very hard rock embedded in salt	
35	9057	322	1057	2745	2774	837	846	-1688	-1717	-515	-523	9	4	LUKE	salt	
35	9057	322	1057	2774	2781	846	848	-1717	-1724	-523	-526	2	3	LBF	large granite boulders embedded in sandstone	
35	9057	322	1057	2781	2784	848	849	-1724	-1727	-526	-526	1	4	LUKE	salt	
35	9127	313	1028	0	18	0	5	1028	1010	313	308	5	1	VF	clay	
35	9127	313	1028	18	20	5	6	1010	1008	308	307	1	1	VF	gravel	
35	9127	313	1028	20	30	6	9	1008	998	307	304	3	1	VF	boulders	
35	9127	313	1028	30	90	9	27	998	938	304	286	18	1	VF	fine sand and silt	
35	9127	313	1028	90	114	27	35	938	914	286	279	7	1	VF	gravel	
35	9127	313	1028	114	116	35	35	914	912	279	278	1	1	VF	hard pan	
35	9127	313	1028	116	125	35	38	912	903	278	275	3	1	VF	sand and gravel	
35	9127	313	1028	125	129	38	39	903	899	275	274	1	1	VF	gravel	
35	9127	313	1028	129	130	39	40	899	898	274	274	0	1	VF	hard pan	
35	9127	313	1028	130	132	40	40	898	896	274	273	1	1	VF	sand	
35	9127	313	1028	132	138	40	42	896	890	273	271	2	1	VF	caliche	
35	9127	313	1028	138	142	42	43	890	886	271	270	1	1	VF	sandy	
35	9127	313	1028	142	163	43	50	886	865	270	264	6	1	VF	sandy clay	
35	9127	313	1028	163	178	50	54	865	850	264	259	5	1	VF	sand	
35	9127	313	1028	178	188	54	57	850	840	259	256	3	1	VF	sand and gravel	
35	9127	313	1028	188	190	57	58	840	838	256	255	1	1	VF	hard pan	
35	9127	313	1028	190	205	58	62	838	823	255	251	5	1	VF	sand	
35	9127	313	1028	205	207	62	63	823	821	251	250	1	1	VF	hard pan	
35	9127	313	1028	207	214	63	65	821	814	250	248	2	1	VF	sand	
35	9127	313	1028	214	223	65	68	814	805	248	245	3	1	VF	gravel	
35	9127	313	1028	223	301	68	92	805	727	245	222	24	1	VF	silt and clay with hard streaks	
35	9127	313	1028	301	317	92	97	727	711	222	217	5	2	UBF	clay	
35	9127	313	1028	317	324	97	99	711	704	217	215	2	2	UBF	coarse sand	
35	9127	313	1028	324	347	99	106	704	681	215	208	7	2	UBF	clay	
35	9127	313	1028	347	364	106	111	681	664	208	202	5	2	UBF	sandy clay with gravel	
35	9127	313	1028	364	374	111	114	664	654	202	199	3	2	UBF	fine sand	
35	9127	313	1028	374	375	114	114	654	653	199	199	0	2	UBF	sand and gravel with hard pan	

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35	9127	313	1028	375	382	114	116	653	646	199	197	2	2	UBF	gravel	
35	9127	313	1028	382	434	116	132	646	594	197	181	16	2	UBF	tight sand with gravel	
35	9127	313	1028	434	435	132	133	594	593	181	181	0	2	UBF	hard pan	
35	9127	313	1028	435	458	133	140	593	570	181	174	7	2	UBF	tight sand	
35	9127	313	1028	458	474	140	144	570	554	174	169	5	2	UBF	sand, fine gravel	
35	9127	313	1028	474	482	144	147	554	546	169	166	2	2	UBF	silt	
35	9127	313	1028	482	523	147	159	546	505	166	154	12	2	UBF	silt and clay	Has core, but unreadable
35	9127	313	1028	523	560	159	171	505	468	154	143	11	2	UBF	sandy silt	
35	9127	313	1028	560	586	171	179	468	442	143	135	8	2	UBF	tight sand	
35	9127	313	1028	586	602	179	183	442	426	135	130	5	2	UBF	silty clay	
35	9127	313	1028	602	612	183	187	426	416	130	127	3	2	UBF	sand and silt	
35	9127	313	1028	612	623	187	190	416	405	127	124	3	2	UBF	tight sand	
35	9127	313	1028	623	674	190	205	405	354	124	108	16	2	UBF	sand and silt	
35	9127	313	1028	674	698	205	213	354	330	108	101	7	2	UBF	tight sand	
35	9127	313	1028	698	716	213	218	330	312	101	95	5	2	UBF	sandy silt	
35	9127	313	1028	716	758	218	231	312	270	95	82	13	2	UBF	tight sand	
35	9127	313	1028	758	796	231	243	270	232	82	71	12	2	UBF	silty sand	
35	9127	313	1028	796	806	243	246	232	222	71	68	3	2	UBF	silt and clay	
35	9127	313	1028	806	880	246	268	222	148	68	45	23	2	UBF	tight sand	more detailed rock descriptions in report
35	9127	313	1028	880	902	268	275	148	126	45	38	7	2	UBF	silt	
35	9127	313	1028	902	1005	275	306	126	23	38	7	31	3	LBF	red clay and shale	
35	9127	313	1028	1005	1080	306	329	23	-52	7	-16	23	3	LBF	hard red clay and shale, some gypsum	
35	9127	313	1028	1080	1195	329	364	-52	-167	-16	-51	35	3	LBF	sticky red clay with layers of gray soft sandstone and shale	
35	9127	313	1028	1195	1227	364	374	-167	-199	-51	-61	10	3	LBF	hard red clay with layers of silty sand	
35	9127	313	1028	1227	1273	374	388	-199	-245	-61	-75	14	3	LBF	hard red shale	
35	9127	313	1028	1273	1345	388	410	-245	-317	-75	-97	22	3	LBF	hard red clay, thin layers of gray sandstone	
35	9127	313	1028	1345	1423	410	434	-317	-395	-97	-120	24	3	LBF	hard red clay layers of gray silty sand and sandstone	
35	9127	313	1028	1423	1435	434	437	-395	-407	-120	-124	4	3	LBF	tight sticky red blue clay	
35	9127	313	1028	1435	1510	437	460	-407	-482	-124	-147	23	3	LBF	red clay layers of gray silty sand and soft sandstone	
35	9127	313	1028	1510	1514	460	461	-482	-486	-147	-148	1	3	LBF	red clay trace of gravel	
35	9127	313	1028	1514	1565	461	477	-486	-537	-148	-164	16	3	LBF	red clay thin layers of sand and shale	
35	9127	313	1028	1565	1570	477	479	-537	-542	-164	-165	2	3	LBF	red sandy clay trace of gravel and bentonite	
35	9127	313	1028	1570	1600	479	488	-542	-572	-165	-174	9	3	LBF	red sandy clay thin layers of pea gravel and soft gray sandstone	
35	9127	313	1028	1600	1685	488	514	-572	-657	-174	-200	26	3	LBF	soft gray sandstone layers of red clay	
35	9127	313	1028	1685	1728	514	527	-657	-700	-200	-213	13	3	LBF	brown sandy clay with gray fine sand and some sandstone	
35	9127	313	1028	1728	1760	527	536	-700	-732	-213	-223	10	3	LBF	yellow brown clay and layers of fine sharp sand	
35	9127	313	1028	1760	1893	536	577	-732	-865	-223	-264	41	3	LBF	hard sticky red clay thin layers of gray silty sand	
35	9127	313	1028	1893	1956	577	596	-865	-928	-264	-283	19	3	LBF	hard red sandy clay trace of gravel	
35	9127	313	1028	1956	1962	596	598	-928	-934	-283	-285	2	3	LBF	sticky red clay layers of red shale	
35	9127	313	1028	1962	1973	598	601	-934	-945	-285	-288	3	3	LBF	red sandy clay thin layers of bentonite	
35	9127	313	1028	1973	2000	601	610	-945	-972	-288	-296	8	3	LBF	red sandy clay thin layers of red shale	
35	9127	313	1028	2000	2068	610	630	-972	-1040	-296	-317	21	3	LBF	red sandy clay brownish yellow sand	

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35	9127	313	1028	2068	2073	630	632	-1040	-1045	-317	-318	2	3	LBF	sandy red clay and soap stone	
35	9127	313	1028	2073	2100	632	640	-1045	-1072	-318	-327	8	3	LBF	sandy red clay layers of yellow sand and bentonite	
35	9224	321	1053	0	12	0	4	1053	1041	321	317	4	1	VF	topsoil silty clay	
35	9224	321	1053	12	32	4	10	1041	1021	317	311	6	1	VF	sand & caliche	
35	9224	321	1053	32	44	10	13	1021	1009	311	308	4	1	VF	sandy clay and some pea gravel	
35	9224	321	1053	44	73	13	22	1009	980	308	299	9	1	VF	sand & gravel streaks of cement	
35	9224	321	1053	73	88	22	27	980	965	299	294	5	1	VF	caliche in clay	
35	9224	321	1053	88	114	27	35	965	939	294	286	8	1	VF	brown sandy clay	
35	9224	321	1053	114	119	35	36	939	934	286	285	2	1	VF	caliche in clay hard	
35	9224	321	1053	119	138	36	42	934	915	285	279	6	1	VF	sandy clay	
35	9224	321	1053	138	162	42	49	915	891	279	272	7	1	VF	sand & gravel	
35	9224	321	1053	162	189	49	58	891	864	272	263	8	1	VF	caliche in clay	
35	9224	321	1053	189	194	58	59	864	859	263	262	2	1	VF	caliche hard	
35	9224	321	1053	194	217	59	66	859	836	262	255	7	1	VF	sand & pea gravel	
35	9224	321	1053	217	234	66	71	836	819	255	250	5	1	VF	caliche in clay soft and hard streaks	
35	9224	321	1053	234	257	71	78	819	796	250	243	7	1	VF	sand & gravel (some) & stks sandstone water	
35	9224	321	1053	257	336	78	102	796	717	243	219	24	1	VF	caliche in sticky clay hard streaks	
35	9224	321	1053	336	344	102	105	717	709	219	216	2	1	VF	gray clay dry	
35	9224	321	1053	344	381	105	116	709	672	216	205	11	1	VF	brown silty clay soft & hard streaks water	
35	9224	321	1053	381	384	116	117	672	669	205	204	1	1	VF	sand and gravel size 3/4	
35	9224	321	1053	384	391	117	119	669	662	204	202	2	2	UBF	caliche stks gravel & sand	
35	9224	321	1053	391	396	119	121	662	657	202	200	2	2	UBF	caliche hard	
35	9224	321	1053	396	402	121	123	657	651	200	198	2	2	UBF	soft sandstone	
35	9224	321	1053	402	407	123	124	651	646	198	197	2	2	UBF	silty clay	
35	9224	321	1053	407	414	124	126	646	639	197	195	2	2	UBF	soft sandstone stks of sand	
35	9224	321	1053	414	419	126	128	639	634	195	193	2	2	UBF	sand gravel & stks caliche	
35	9224	321	1053	419	438	128	134	634	615	193	187	6	2	UBF	caliche in clay hard streaks	
35	9224	321	1053	438	444	134	135	615	609	187	186	2	2	UBF	sand gravel & stks caliche & cement	
35	9224	321	1053	444	447	135	136	609	606	186	185	1	2	UBF	sandy clay tight & little	
35	9224	321	1053	447	462	136	141	606	591	185	180	5	2	UBF	silty clay stks of caliche	
35	9224	321	1053	462	464	141	141	591	589	180	180	1	2	UBF	brown clay soft stks of sand fine	
35	9224	321	1053	464	479	141	146	589	574	180	175	5	2	UBF	soft brown clay water	
35	9224	321	1053	479	490	146	149	574	563	175	172	3	2	UBF	fine sand & some gravel & chunks of red clay	
35	9224	321	1053	490	496	149	151	563	557	172	170	2	2	UBF	sandy silt soft sandstone	
35	9224	321	1053	496	502	151	153	557	551	170	168	2	2	UBF	clay & stks caliche	
35	9224	321	1053	502	511	153	156	551	542	168	165	3	2	UBF	coarse sand	
35	9224	321	1053	511	521	156	159	542	532	165	162	3	2	UBF	silty clay & caliche	
35	9224	321	1053	521	523	159	159	532	530	162	162	1	2	UBF	coarse sand & silt	
35	9224	321	1053	523	538	159	164	530	515	162	157	5	2	UBF	caliche in red sticky clay	
35	9224	321	1053	538	554	164	169	515	499	157	152	5	2	UBF	caliche & stks of sandstone & some sand & gravel size 1/4	
35	9224	321	1053	554	567	169	173	499	486	152	148	4	2	UBF	red sticky clay	
35	9224	321	1053	567	572	173	174	486	481	148	147	2	2	UBF	caliche in red clay soft & hard stks water	
35	9224	321	1053	572	589	174	180	481	464	147	141	5	2	UBF	brown silty clay sand stks	No core log, just drilling report with intermittent information on what rocks they are drilling through.

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35	9224	321	1053	589	597	180	182	464	456	141	139	2	2	UBF	blue clay fine sand stks	
35	9224	321	1053	597	603	182	184	456	450	139	137	2	2	UBF	touch blue clay	
35	9224	321	1053	603	604	184	184	450	449	137	137	0	2	UBF	blue talc	
35	9224	321	1053	604	617	184	188	449	436	137	133	4	2	UBF	brown clay red stks	
35	9224	321	1053	617	622	188	190	436	431	133	131	2	2	UBF	touch brown clay & blue silty stks	
35	9224	321	1053	622	646	190	197	431	407	131	124	7	2	UBF	blue clay stks of sandstone & silt	
35	9224	321	1053	646	652	197	199	407	401	124	122	2	2	UBF	brown sticky clay	
35	9224	321	1053	652	656	199	200	401	397	122	121	1	2	UBF	caliche in clay some pea gravel	
35	9224	321	1053	656	670	200	204	397	383	121	117	4	2	UBF	brown silt hard streaks	
35	9224	321	1053	670	696	204	212	383	357	117	109	8	2	UBF	blue clay stks of silt soft	
35	9224	321	1053	696	730	212	223	357	323	109	98	10	2	UBF	brown clay	
35	9224	321	1053	730	745	223	227	323	308	98	94	5	2	UBF	brown clay hard streaks	
35	9224	321	1053	745	753	227	230	308	300	94	91	2	2	UBF	sticky clay	
35	9224	321	1053	753	787	230	240	300	266	91	81	10	2	UBF	brown silt hard streaks dry	
35	9224	321	1053	787	793	240	242	266	260	81	79	2	2	UBF	brown clay & stks of caliche	
35	9224	321	1053	793	798	242	243	260	255	79	78	2	2	UBF	blue silt	
35	9224	321	1053	798	815	243	248	255	238	78	73	5	2	UBF	blue silty clay with red stks of clay	
35	9224	321	1053	815	821	248	250	238	232	73	71	2	2	UBF	caliche in blue clay	
35	9224	321	1053	821	830	250	253	232	223	71	68	3	2	UBF	tough brown clay	
35	9224	321	1053	830	848	253	258	223	205	68	63	5	2	UBF	clear crystals in blue clay	
35	9224	321	1053	848	871	258	265	205	182	63	56	7	2	UBF	blue clay with hard streaks	
35	9224	321	1053	871	873	265	266	182	180	56	55	1	2	UBF	tough brown clay with silty stks	
35	9224	321	1053	873	877	266	267	180	176	55	54	1	3	LBF	hard red clay	
35	9224	321	1053	877	928	267	283	176	125	54	38	16	3	LBF	tough red clay	
35	9224	321	1053	928	980	283	299	125	73	38	22	16	3	LBF	red clay	
35	9224	321	1053	980	1004	299	306	73	49	22	15	7	3	LBF	silty gray sand red clay	
35	9224	321	1053	1004	1008	306	307	49	45	15	14	1	3	LBF	hard shell	
35	9224	321	1053	1008	1040	307	317	45	13	14	4	10	3	LBF	silty red clay, thin layers of sea mud	
35	9224	321	1053	1040	1055	317	322	13	-2	4	-1	5	3	LBF	silty red clay	
35	9224	321	1053	1055	1140	322	347	-2	-87	-1	-26	26	3	LBF	red clay, trace of gypsum, some gray clay with layers of shale	
35	9224	321	1053	1140	1205	347	367	-87	-152	-26	-46	20	3	LBF	red clay, gypsom, some shale stone	
35	9224	321	1053	1205	1250	367	381	-152	-197	-46	-60	14	3	LBF	red clay, gypsom	
35	9224	321	1053	1250	1265	381	386	-197	-212	-60	-65	5	3	LBF	red clay some gravel	
35	9224	321	1053	1265	1300	386	396	-212	-247	-65	-75	11	3	LBF	red clay, gypsom, silty sand	
35	9224	321	1053	1300	1320	396	402	-247	-267	-75	-81	6	3	LBF	red clay, silty sand some gravel, layers gray clay	
35	9224	321	1053	1320	1330	402	405	-267	-277	-81	-84	3	3	LBF	brown clay, silty sand with layers of red clay and hard shale	
35	9224	321	1053	1330	1340	405	408	-277	-287	-84	-87	3	3	LBF	red clay, silty clay stone	
35	9224	321	1053	1340	1350	408	411	-287	-297	-87	-90	3	3	LBF	red clay, gravel, salty clay	
35	9224	321	1053	1350	1370	411	418	-297	-317	-90	-97	6	3	LBF	gray silty clay, layers of red clay	
35	9224	321	1053	1370	1385	418	422	-317	-332	-97	-101	5	3	LBF	red hard clay, some silty clay	
35	9224	321	1053	1385	1515	422	462	-332	-462	-101	-141	40	3	LBF	red clay and silty sand	
35	9224	321	1053	1515	1560	462	475	-462	-507	-141	-154	14	3	LBF	silty sand	
35	9224	321	1053	1560	1595	475	486	-507	-542	-154	-165	11	3	LBF	silty sand, small layers of gravel and brown clay	
35	9224	321	1053	1595	1615	486	492	-542	-562	-165	-171	6	3	LBF	brown clay, silty sand	
35	9224	321	1053	1615	1625	492	495	-562	-572	-171	-174	3	3	LBF	silty sand, small gravel	

Well Type	Well ID	Elev. (m)	Elev. (ft)	From Depth (ft)	To Depth (ft)	From Depth (m)	To Depth (m)	Top Elev. (ft)	Bottom Elev. (ft)	Top Elev. (m)	Bottom Elev. (m)	Thickness (m)	HGUID	HGU Code	Lithology	Comments [by author]
35	9224	321	1053	1625	1660	495	506	-572	-607	-174	-185	11	3	LBF	silty sand red clay	
35	9224	321	1053	1660	1680	506	512	-607	-627	-185	-191	6	3	LBF	gray clay, silty sand shale	
35	9224	321	1053	1680	1720	512	524	-627	-667	-191	-203	12	3	LBF	red clay silty sand	
35	9224	321	1053	1720	1745	524	532	-667	-692	-203	-211	8	3	LBF	red clay silty sand, some gravel	
35	9224	321	1053	1745	1760	532	536	-692	-707	-211	-215	5	3	LBF	red clay	
35	9224	321	1053	1760	1765	536	538	-707	-712	-215	-217	2	3	LBF	blue sand	
35	9224	321	1053	1765	1790	538	546	-712	-737	-217	-225	8	3	LBF	brown silty hard clay	
35	9224	321	1053	1790	1793	546	547	-737	-740	-225	-226	1	3	LBF	sharp gravel, sand	
35	9224	321	1053	1793	1798	547	548	-740	-745	-226	-227	2	3	LBF	gray silty sand	
35	9224	321	1053	1798	1811	548	552	-745	-758	-227	-231	4	3	LBF	red shale, layers of sand	
35	9224	321	1053	1811	1814	552	553	-758	-761	-231	-232	1	3	LBF	silty sand	
35	9224	321	1053	1814	1829	553	557	-761	-776	-232	-236	5	3	LBF	red clay	
35	9224	321	1053	1829	1831	557	558	-776	-778	-236	-237	1	3	LBF	sand (blue silty)	
35	9224	321	1053	1831	1837	558	560	-778	-784	-237	-239	2	3	LBF	sand and red shale	
35	9224	321	1053	1837	1890	560	576	-784	-837	-239	-255	16	3	LBF	sticky red clay and shale	
35	9224	321	1053	1890	1894	576	577	-837	-841	-255	-256	1	3	LBF	red clay, shale and silty sand	
35	9224	321	1053	1894	1897	577	578	-841	-844	-256	-257	1	3	LBF	fine gray sand trace of pea gravel	
35	9224	321	1053	1897	1903	578	580	-844	-850	-257	-259	2	3	LBF	hard clay, sand streaks	
35	9224	321	1053	1903	1906	580	581	-850	-853	-259	-260	1	3	LBF	silty sand	
35	9224	321	1053	1906	1915	581	584	-853	-862	-260	-263	3	3	LBF	clay, shale, sandstreaks	
35	9224	321	1053	1915	1926	584	587	-862	-873	-263	-266	3	3	LBF	hard dry clay and slate	
35	9224	321	1053	1926	1937	587	590	-873	-884	-266	-269	3	3	LBF	brown clay, shale and sand	
35	9224	321	1053	1937	1939	590	591	-884	-886	-269	-270	1	3	LBF	gray sand, very salty	
35	9224	321	1053	1939	1956	591	596	-886	-903	-270	-275	5	3	LBF	brown clay, shale and sand streaks, sandstone layers	
35	9224	321	1053	1956	1965	596	599	-903	-912	-275	-278	3	3	LBF	silty brown clay	
35	9224	321	1053	1965	2000	599	610	-912	-947	-278	-289	11	3	LBF	dark brown sand clay with streaks hard shale	
35	9610	360	1182	0	4	0	1	1182	1178	360	359	1	1	VF	soil & clay	
35	9610	360	1182	4	40	1	12	1178	1142	359	348	11	1	VF	sand & gravel	
35	9610	360	1182	40	246	12	75	1142	936	348	285	63	1	VF	sand, gravel & clay	
35	9610	360	1182	246	450	75	137	936	732	285	223	62	2	UBF	clay with sand streaks	
35	9610	360	1182	450	730	137	223	732	452	223	138	85	2	UBF	sand, gravel, some clay	
35	9610	360	1182	730	871	223	265	452	311	138	95	43	2	UBF	clay with sand streaks	
35	9610	360	1182	871	1160	265	354	311	22	95	7	88	2	UBF	clay with very little sand	
35	9610	360	1182	1160	2051	354	625	22	-869	7	-265	272	2	UBF	clay with sand	
35	9736	394	1292	0	15	0	5	1292	1277	394	389	5	1	VF	top soil	
35	9736	394	1292	15	210	5	64	1277	1082	389	330	59	1	VF	sandy, some clay	
35	9736	394	1292	210	360	64	110	1082	932	330	284	46	1	VF	sandy small gravel	
35	9736	394	1292	360	380	110	116	932	912	284	278	6	2	UBF	fine sand	
35	9736	394	1292	380	580	116	177	912	712	278	217	61	2	UBF	caliche	
35	9736	394	1292	580	815	177	248	712	477	217	145	72	2	UBF	sandy caly with some gravel	
35	9736	394	1292	815	1350	248	411	477	-58	145	-18	163	2	UBF	clay	
35	9736	394	1292	1350	1370	411	418	-58	-78	-18	-24	6	3	LBF	hard clay & gravel	
35	9736	394	1292	1370	1560	418	475	-78	-268	-24	-82	58	3	LBF	cemented conglomerate	
35	9736	394	1292	1560	1620	475	494	-268	-328	-82	-100	18	3	LBF	conglomerate	
35	9736	394	1292	1620	1915	494	584	-328	-623	-100	-190	90	3	LBF	cemented conglomerate, broken	
35	9736	394	1292	1915	2165	584	660	-623	-873	-190	-266	76	3	LBF	mountain conglomerate, broken	
35	9736	394	1292	2165	2360	660	719	-873	-1068	-266	-326	59	3	LBF	cemented conglomerate, broken	

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35	9736	394	1292	2360	2425	719	739	-1068	-1133	-326	-345	20	3	LBF	very hard, no broken streaks	
35	9748	368	1207	0	32	0	10	1207	1175	368	358	10	1	VF	clay	
35	9748	368	1207	32	80	10	24	1175	1127	358	343	15	1	VF	sand & gravel	
35	9748	368	1207	80	100	24	30	1127	1107	343	337	6	1	VF	sand, gravel & boulders	
35	9748	368	1207	100	140	30	43	1107	1067	337	325	12	1	VF	sand, gravel & clay	
35	9748	368	1207	140	153	43	47	1067	1054	325	321	4	1	VF	gravel	
35	9748	368	1207	153	164	47	50	1054	1043	321	318	3	1	VF	boulders	
35	9748	368	1207	164	169	50	52	1043	1038	318	316	2	1	VF	sand, gravel & clay	
35	9748	368	1207	169	180	52	55	1038	1027	316	313	3	1	VF	clay & fine sand	
35	9748	368	1207	180	300	55	91	1027	907	313	276	37	1	VF	sand, clay & gravel streaks	
35	9748	368	1207	300	330	91	101	907	877	276	267	9	1	VF	coarse sand & rock	
35	9748	368	1207	330	355	101	108	877	852	267	260	8	2	UBF	clay with some sand	
35	9748	368	1207	355	390	108	119	852	817	260	249	11	2	UBF	clay	
35	9748	368	1207	390	483	119	147	817	724	249	221	28	2	UBF	sandy clay	
35	9748	368	1207	483	580	147	177	724	627	221	191	30	2	UBF	clay	
35	9748	368	1207	580	1605	177	489	627	-398	191	-121	312	2	UBF	sandy clay	
35	9748	368	1207	1605	1630	489	497	-398	-423	-121	-129	8	3	LBF	sand with some clay	
35	9748	368	1207	1630	1830	497	558	-423	-623	-129	-190	61	3	LBF	sand & rock with some clay	
35	9748	368	1207	1830	2145	558	654	-623	-938	-190	-286	96	3	LBF	hard sand & clay	
35	9748	368	1207	2145	2275	654	693	-938	-1068	-286	-326	40	3	LBF	sand & clay	
35	9748	368	1207	2275	2510	693	765	-1068	-1303	-326	-397	72	3	LBF	coarse sand with clay streaks	
35	9748	368	1207	2510	2523	765	769	-1303	-1316	-397	-401	4	3	LBF	hard sand & rock	
35	9748	368	1207	2523	2530	769	771	-1316	-1323	-401	-403	2	3	LBF	hard sand	
35	9748	368	1207	2530	2538	771	774	-1323	-1331	-403	-406	2	3	LBF	cemented conglomerate	
35	9748	368	1207	2538	2567	774	782	-1331	-1360	-406	-415	9	3	LBF	hard sand	
55	206656	397	1302	0	140	0	43	1302	1162	397	354	43	1	VF	coarse, granitic and volcanic sand and gravel	
55	206656	397	1302	140	170	43	52	1162	1132	354	345	9	1	VF	granitic and volcanic sand	
55	206656	397	1302	170	395	52	120	1132	907	345	277	69	1	VF	clay, with sand and gravel	
55	206656	397	1302	395	420	120	128	907	882	277	269	8	2	UBF	coarse gravel	
55	206656	397	1302	420	445	128	136	882	857	269	261	8	2	UBF	clay with sand	
55	206656	397	1302	445	530	136	162	857	772	261	235	26	3	LBF	clay with sand and gravel	
55	206656	397	1302	530	606	162	185	772	696	235	212	23	3	LBF	clay with sand	
55	206656	397	1302	606	660	185	201	696	642	212	196	16	3	LBF	sand and gravel with clay	
55	206656	397	1302	660	675	201	206	642	627	196	191	5	3	LBF	clay with fine sand	
55	206656	397	1302	675	700	206	213	627	602	191	184	8	3	LBF	transition to white volcanic ash, looks like clay	May be top of mid-Tertiary Tv/Tvs sequence
55	206656	397	1302	700	890	213	271	602	412	184	126	58	3	LBF	white volcanic ash, looks like clay	
55	206656	397	1302	890	910	271	277	412	392	126	120	6	3	LBF	brown ash	
55	206656	397	1302	910	920	277	280	392	382	120	116	3	3	LBF	basalt flow	
55	206656	397	1302	920	980	280	299	382	322	116	98	18	3	LBF	white volcanic ash, looks like clay	
55	206656	397	1302	980	995	299	303	322	307	98	94	5	3	LBF	transition of ash to basalt	
55	206656	397	1302	995	1045	303	319	307	257	94	78	15	3	LBF	basalt	
55	206656	397	1302	1045	1110	319	338	257	192	78	59	20	3	LBF	brown volcanic cinders	
55	206656	397	1302	1110	1455	338	443	192	-153	59	-47	105	3	LBF	relatively soft alternating layers of cinders, ash, basalt, and clay	
55	206656	397	1302	1455	1800	443	549	-153	-498	-47	-152	105	3	LBF	alternating layers of basalt and clays	
55	208421	389	1276	0	50	0	15	1276	1226	389	374	15	1	VF	top soil and sand	

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55	208421	389	1276	50	170	15	52	1226	1106	374	337	37	1	VF	sand and gravel with clay streaks	
55	208421	389	1276	170	230	52	70	1106	1046	337	319	18	1	VF	sand - clay and gravel	
55	208421	389	1276	230	320	70	98	1046	956	319	291	27	2	UBF	clay and sand	
55	208421	389	1276	320	360	98	110	956	916	291	279	12	2	UBF	clay, sand, and gravel	
55	208421	389	1276	360	420	110	128	916	856	279	261	18	2	UBF	clay	
55	208421	389	1276	420	530	128	162	856	746	261	227	34	2	UBF	clay, sand, and gravel	
55	208421	389	1276	530	630	162	192	746	646	227	197	30	2	UBF	clay	
55	208421	389	1276	630	700	192	213	646	576	197	176	21	2	UBF	clay, sand	
55	208421	389	1276	700	1100	213	335	576	176	176	54	122	2	UBF	clay	
55	208421	389	1276	1100	1190	335	363	176	86	54	26	27	2	UBF	sticky clay	
55	208421	389	1276	1190	1450	363	442	86	-174	26	-53	79	2	UBF	clay	
55	208421	389	1276	1450	1500	442	457	-174	-224	-53	-68	15	3	LBF	sandy clay and gravel	Contact poorly constrained by well 9736
55	208421	389	1276	1500	1660	457	506	-224	-384	-68	-117	49	3	LBF	gravel w/ streaks of clay	
55	208421	389	1276	1660	1700	506	518	-384	-424	-117	-129	12	3	LBF	clay and gravel	
55	208421	389	1276	1700	1800	518	549	-424	-524	-129	-160	30	3	LBF	gravel	
55	208421	389	1276	1800	1840	549	561	-524	-564	-160	-172	12	3	LBF	clay and gravel	
55	208421	389	1276	1840	1910	561	582	-564	-634	-172	-193	21	3	LBF	gravel, sand	
55	208421	389	1276	1910	1980	582	604	-634	-704	-193	-215	21	3	LBF	gravel w/ clay streaks	
55	209687	305	1000	0	50	0	15	1000	950	305	290	15	1	VF	top soil, clay, sand and gravel	
55	209687	305	1000	50	70	15	21	950	930	290	283	6	1	VF	clay, sand	
55	209687	305	1000	70	120	21	37	930	880	283	268	15	1	VF	gravel, sand, clay	
55	209687	305	1000	120	170	37	52	880	830	268	253	15	2	UBF	clay, sand	Correlated with Brown & Pool 1989, section EE'
55	209687	305	1000	170	210	52	64	830	790	253	241	12	2	UBF	clay	
55	209687	305	1000	210	320	64	98	790	680	241	207	34	2	UBF	clay, sand, gravel	
55	209687	305	1000	320	430	98	131	680	570	207	174	34	2	UBF	clay, sand	
55	209687	305	1000	430	610	131	186	570	390	174	119	55	2	UBF	clay	
55	209687	305	1000	610	720	186	219	390	280	119	85	34	2	UBF	clay, sand, silt	
55	209687	305	1000	720	890	219	271	280	110	85	34	52	3	LBF	clay, some gravel	
55	209687	305	1000	890	980	271	299	110	20	34	6	27	3	LBF	clay, sand	
55	209687	305	1000	980	1040	299	317	20	-40	6	-12	18	3	LBF	clay	
55	209687	305	1000	1040	1220	317	372	-40	-220	-12	-67	55	3	LBF	clay, sand, gravel	
55	209687	305	1000	1220	1260	372	384	-220	-260	-67	-79	12	3	LBF	clay	
55	209687	305	1000	1260	2040	384	622	-260	-1040	-79	-317	238	3	LBF	clay, sand w/ streaks of gravel	
55	210828	434	1424	0	40	0	12	1424	1384	434	422	12	1	VF	gravelly sand	
55	210828	434	1424	40	60	12	18	1384	1364	422	416	6	1	VF	sandy gravel	
55	210828	434	1424	60	80	18	24	1364	1344	416	410	6	1	VF	gravelly sand	
55	210828	434	1424	80	110	24	34	1344	1314	410	401	9	1	VF	clayey sand	
55	210828	434	1424	110	130	34	40	1314	1294	401	394	6	1	VF	gravelly sand	
55	210828	434	1424	130	140	40	43	1294	1284	394	391	3	1	VF	clayey sand	
55	210828	434	1424	140	170	43	52	1284	1254	391	382	9	1	VF	gravelly sand	
55	210828	434	1424	170	980	52	299	1254	444	382	135	247	2	UBF	sandy clay	
55	210828	434	1424	980	1350	299	411	444	74	135	23	113	3	LBF	clay	
55	210828	434	1424	1350	1380	411	421	74	44	23	13	9	3	LBF	gravelly sand with clay	
55	210828	434	1424	1380	1410	421	430	44	14	13	4	9	3	LBF	gravelly sand	
55	210828	434	1424	1410	1550	430	472	14	-126	4	-38	43	3	LBF	gravelly sand with clay	

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55	210828	434	1424	1550	1570	472	479	-126	-146	-38	-44	6	3	LBF	gravelly sand	
55	210828	434	1424	1570	1640	479	500	-146	-216	-44	-66	21	3	LBF	gravelly sand with clay	
55	210828	434	1424	1640	1670	500	509	-216	-246	-66	-75	9	3	LBF	gravelly sand	
55	210828	434	1424	1670	1860	509	567	-246	-436	-75	-133	58	3	LBF	gravelly sand with clay	
55	210828	434	1424	1860	1890	567	576	-436	-466	-133	-142	9	3	LBF	gravelly sand	
55	210828	434	1424	1890	1910	576	582	-466	-486	-142	-148	6	3	LBF	gravelly sand with clay	
55	210828	434	1424	1910	1930	582	588	-486	-506	-148	-154	6	3	LBF	gravelly sand	
55	210828	434	1424	1930	2050	588	625	-506	-626	-154	-191	37	3	LBF	gravelly sand with clay	
55	210828	434	1424	2050	2070	625	631	-626	-646	-191	-197	6	3	LBF	gravelly sand	
55	210828	434	1424	2070	2180	631	664	-646	-756	-197	-230	34	3	LBF	gravelly sand with clay	
55	210828	434	1424	2180	2450	664	747	-756	-1026	-230	-313	82	3	LBF	gravelly sand	
55	210828	434	1424	2450	2500	747	762	-1026	-1076	-313	-328	15	3	LBF	gravelly sand with clay	
55	210832	419	1376	0	70	0	21	1376	1306	419	398	21	1	VF	gravelly sand	
55	210832	419	1376	70	80	21	24	1306	1296	398	395	3	1	VF	silty sand with gravel	
55	210832	419	1376	80	120	24	37	1296	1256	395	383	12	1	VF	gravelly sand	
55	210832	419	1376	120	130	37	40	1256	1246	383	380	3	1	VF	gravelly sand with silt	
55	210832	419	1376	130	140	40	43	1246	1236	380	377	3	1	VF	silty sand with gravel	
55	210832	419	1376	140	160	43	49	1236	1216	377	371	6	1	VF	sandy clay with gravel	
55	210832	419	1376	160	390	49	119	1216	986	371	300	70	2	UBF	sandy clay	Contact poorly constrained
55	210832	419	1376	390	400	119	122	986	976	300	297	3	2	UBF	silty sand with gravel	
55	210832	419	1376	400	420	122	128	976	956	297	291	6	2	UBF	sandy clay	
55	210832	419	1376	420	430	128	131	956	946	291	288	3	2	UBF	silty sand with gravel	
55	210832	419	1376	430	460	131	140	946	916	288	279	9	2	UBF	sandy clay	
55	210832	419	1376	460	640	140	195	916	736	279	224	55	2	UBF	gravelly sand with silt	
55	210832	419	1376	640	900	195	274	736	476	224	145	79	2	UBF	sandy clay with gravel	
55	210832	419	1376	900	1400	274	427	476	-24	145	-7	152	3	LBF	sandy clay	
55	210832	419	1376	1400	1540	427	469	-24	-164	-7	-50	43	3	LBF	gravelly sand	
55	210832	419	1376	1540	1570	469	479	-164	-194	-50	-59	9	3	LBF	sandy clay	
55	210832	419	1376	1570	1580	479	482	-194	-204	-59	-62	3	3	LBF	clayey sand with gravel	
55	210832	419	1376	1580	1880	482	573	-204	-504	-62	-154	91	3	LBF	sandy clay with gravel	
55	210832	419	1376	1880	2010	573	613	-504	-634	-154	-193	40	3	LBF	gravelly sand with clay	
55	210834	424	1391	0	40	0	12	1391	1351	424	412	12	1	VF	gravelly sand w/ silt and clay	
55	210834	424	1391	40	90	12	27	1351	1301	412	396	15	1	VF	gravelly sand	
55	210834	424	1391	90	100	27	30	1301	1291	396	393	3	1	VF	clayey gravelly sand	
55	210834	424	1391	100	140	30	43	1291	1251	393	381	12	1	VF	gravelly sand	
55	210834	424	1391	140	180	43	55	1251	1211	381	369	12	1	VF	silty sand w/ gravel	
55	210834	424	1391	180	190	55	58	1211	1201	369	366	3	1	VF	silty sand	
55	210834	424	1391	190	230	58	70	1201	1161	366	354	12	1	VF	silty sand w/ gravel	
55	210834	424	1391	230	260	70	79	1161	1131	354	345	9	1	VF	silty sand w/ clay	
55	210834	424	1391	260	280	79	85	1131	1111	345	339	6	2	UBF	clayey sand w/ silt	
55	210834	424	1391	280	370	85	113	1111	1021	339	311	27	2	UBF	sandy clay w/ gravel	
55	210834	424	1391	370	500	113	152	1021	891	311	271	40	2	UBF	clayey sand w/ gravel	
55	210834	424	1391	500	540	152	165	891	851	271	259	12	2	UBF	gravelly sand w/ clay and silt	
55	210834	424	1391	540	580	165	177	851	811	259	247	12	2	UBF	clayey sand	
55	210834	424	1391	580	810	177	247	811	581	247	177	70	2	UBF	clayey sand w/ gravel	

Well Type	Well ID	Elev. (m)	Elev. (ft)	From Depth (ft)	To Depth (ft)	From Depth (m)	To Depth (m)	Top Elev. (ft)	Bottom Elev. (ft)	Top Elev. (m)	Bottom Elev. (m)	Thickness (m)	HGUID	HGU Code	Lithology	Comments [by author]
55	210834	424	1391	810	840	247	256	581	551	177	168	9	2	UBF	sandy clay w/ gravel	UBF/LBF ~750 ft in Dubas (2009), section MM'
55	210834	424	1391	840	910	256	277	551	481	168	147	21	2	UBF	clayey sand w/ gravel	
55	210834	424	1391	910	930	277	283	481	461	147	140	6	2	UBF	clayey sand	
55	210834	424	1391	930	940	283	287	461	451	140	137	3	2	UBF	sandy clay	
55	210834	424	1391	940	950	287	290	451	441	137	134	3	2	UBF	clayey sand	
55	210834	424	1391	950	1000	290	305	441	391	134	119	15	2	UBF	sandy clay	
55	210834	424	1391	1000	1020	305	311	391	371	119	113	6	3	LBF	clayey sand	
55	210834	424	1391	1020	1170	311	357	371	221	113	67	46	3	LBF	sandy clay	
55	210834	424	1391	1170	1180	357	360	221	211	67	64	3	3	LBF	clayey sand w/ gravel	
55	210834	424	1391	1180	1330	360	405	211	61	64	19	46	3	LBF	sandy clay	
55	210834	424	1391	1330	1430	405	436	61	-39	19	-12	30	3	LBF	gravelly sand w/ clay	
55	210834	424	1391	1430	1460	436	445	-39	-69	-12	-21	9	3	LBF	clayey sand w/ gravel	
55	210834	424	1391	1460	1480	445	451	-69	-89	-21	-27	6	3	LBF	clayey sand	
55	210834	424	1391	1480	1540	451	469	-89	-149	-27	-45	18	3	LBF	sandy clay	
55	210834	424	1391	1540	1550	469	472	-149	-159	-45	-49	3	3	LBF	clayey sand	
55	210834	424	1391	1550	1560	472	475	-159	-169	-49	-52	3	3	LBF	gravelly sand w/ clay	
55	210834	424	1391	1560	1610	475	491	-169	-219	-52	-67	15	3	LBF	gravelly sand	
55	210834	424	1391	1610	1650	491	503	-219	-259	-67	-79	12	3	LBF	silty sand w/ gravel	
55	210834	424	1391	1650	1680	503	512	-259	-289	-79	-88	9	3	LBF	sandy clay	
55	210834	424	1391	1680	1700	512	518	-289	-309	-88	-94	6	3	LBF	sandy clay w/ silt	
55	210834	424	1391	1700	1710	518	521	-309	-319	-94	-97	3	3	LBF	silty sand w/ gravel	
55	210834	424	1391	1710	1740	521	530	-319	-349	-97	-106	9	3	LBF	gravelly sand	
55	210834	424	1391	1740	1750	530	533	-349	-359	-106	-110	3	3	LBF	gravelly clayey sand	
55	210834	424	1391	1750	1837	533	560	-359	-446	-110	-136	27	3	LBF	clayey gravel	
55	504545	375	1231	0	12	0	4	1231	1219	375	372	4	1	VF	top soil, tan	
55	504545	375	1231	12	14	4	4	1219	1217	372	371	1	1	VF	loose sand and gravel	
55	504545	375	1231	14	36	4	11	1217	1195	371	364	7	1	VF	muddy sand	
55	504545	375	1231	36	48	11	15	1195	1183	364	361	4	1	VF	coarse gravel	
55	504545	375	1231	48	76	15	23	1183	1155	361	352	9	1	VF	cemented gravel in clay	
55	504545	375	1231	76	98	23	30	1155	1133	352	345	7	1	VF	dry clay	
55	504545	375	1231	98	128	30	39	1133	1103	345	336	9	1	VF	sand, gravel, clay	
55	504545	375	1231	128	139	39	42	1103	1092	336	333	3	1	VF	gravel with a little sand	
55	504545	375	1231	139	158	42	48	1092	1073	333	327	6	1	VF	cobbles, gravel, sand	
55	504545	375	1231	158	162	48	49	1073	1069	327	326	1	1	VF	clay with a little sand	
55	504545	375	1231	162	165	49	50	1069	1066	326	325	1	1	VF	gravel with sand and a little clay	
55	504545	375	1231	165	182	50	55	1066	1049	325	320	5	1	VF	gravel, clay	
55	504545	375	1231	182	250	55	76	1049	981	320	299	21	1	VF	clay, gravel	
55	504545	375	1231	250	270	76	82	981	961	299	293	6	1	VF	clay	
55	504545	375	1231	270	280	82	85	961	951	293	290	3	1	VF	clay, gravel, sand	
55	504545	375	1231	280	300	85	91	951	931	290	284	6	1	VF	gravel, sand, clay	
55	504545	375	1231	300	320	91	98	931	911	284	278	6	1	VF	sand, gravel	
55	504545	375	1231	320	340	98	104	911	891	278	272	6	1	VF	fine sand with a little gravel	
55	504545	375	1231	340	400	104	122	891	831	272	253	18	1	VF	gravel, sand, clay	
55	504545	375	1231	400	430	122	131	831	801	253	244	9	2	UBF	clay, sand	
55	504545	375	1231	430	500	131	152	801	731	244	223	21	2	UBF	sand, gravel, clay	
55	504545	375	1231	500	510	152	155	731	721	223	220	3	2	UBF	clay, sand	

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55	504545	375	1231	510	540	155	165	721	691	220	211	9	2	UBF	clay with a little sand	
55	504545	375	1231	540	1020	165	311	691	211	211	64	146	3	LBF	clay	
55	504545	375	1231	1020	1050	311	320	211	181	64	55	9	3	LBF	clay (80%) and gravel	
55	504545	375	1231	1050	1070	320	326	181	161	55	49	6	3	LBF	clay and gravel, brownish tan	
55	504545	375	1231	1070	1100	326	335	161	131	49	40	9	3	LBF	gravel, dark gray	
55	504545	375	1231	1100	1140	335	347	131	91	40	28	12	3	LBF	hard gray rock, fractured	
55	504545	375	1231	1140	1560	347	475	91	-329	28	-100	128	3	LBF	hard gray rock, with some red and brown	
55	504545	375	1231	1560	1620	475	494	-329	-389	-100	-119	18	3	LBF	harder with more red and brown	
55	504545	375	1231	1620	1630	494	497	-389	-399	-119	-122	3	3	LBF	gray with white granite	
55	504545	375	1231	1630	1689	497	515	-399	-458	-122	-140	18	3	LBF	red and brown rock	
55	504545	375	1231	1689	1710	515	521	-458	-479	-140	-146	6	3	LBF	sand, gravel, a little clay	
55	504545	375	1231	1710	1850	521	564	-479	-619	-146	-189	43	3	LBF	sandy clay, tan color	
55	504545	375	1231	1850	1870	564	570	-619	-639	-189	-195	6	3	LBF	sandy clay, gravel, white color	
55	504545	375	1231	1870	1920	570	585	-639	-689	-195	-210	15	3	LBF	sticky white lime, drills like clay	
55	504545	375	1231	1920	1968	585	600	-689	-737	-210	-225	15	3	LBF	brown sandy clay to hard rock	
55	504545	375	1231	1968	1990	600	607	-737	-759	-225	-231	7	3	LBF	black, gray, white rock (granite)	
55	504545	375	1231	1990	2020	607	616	-759	-789	-231	-241	9	3	LBF	dark brown red rock, hard	
55	504545	375	1231	2020	2060	616	628	-789	-829	-241	-253	12	3	LBF	black gray rock	
55	504545	375	1231	2060	2100	628	640	-829	-869	-253	-265	12	3	LBF	black gray rock	
55	517584	354	1162	0	100	0	30	1162	1062	354	324	30	1	VF	sand and clay	
55	517584	354	1162	100	110	30	34	1062	1052	324	321	3	1	VF	sand	
55	517584	354	1162	110	130	34	40	1052	1032	321	315	6	1	VF	sandy clay	
55	517584	354	1162	130	480	40	146	1032	682	315	208	107	1	VF	clay and gravel	
55	517584	354	1162	480	560	146	171	682	602	208	184	24	2	UBF	sand, gravel and clay	
55	517584	354	1162	560	660	171	201	602	502	184	153	30	2	UBF	sand and gravel	
55	517584	354	1162	660	730	201	223	502	432	153	132	21	3	LBF	clay	Approx. pick based on Freihofer '09 and Brown & Pool, 1989
55	517584	354	1162	730	1010	223	308	432	152	132	46	85	3	LBF	sandy clay	
55	517584	354	1162	1010	1240	308	378	152	-78	46	-24	70	3	LBF	clay with some gravel	
55	517584	354	1162	1240	1420	378	433	-78	-258	-24	-79	55	3	LBF	clay	
55	517584	354	1162	1420	1480	433	451	-258	-318	-79	-97	18	3	LBF	fractured conglomerate	
55	517584	354	1162	1480	1620	451	494	-318	-458	-97	-139	43	3	LBF	conglomerate	
55	517584	354	1162	1620	1805	494	550	-458	-643	-139	-196	56	3	LBF	conglomerate with granite	
55	522622	407	1335	0	20	0	6	1335	1315	407	401	6	1	VF	topsoil	
55	522622	407	1335	20	85	6	26	1315	1250	401	381	20	1	VF	sand and gravel	
55	522622	407	1335	85	190	26	58	1250	1145	381	349	32	3	LBF	decomposed basalt	
55	522622	407	1335	190	330	58	101	1145	1005	349	306	43	3	LBF	red and black fractured basalt	
55	522622	407	1335	330	480	101	146	1005	855	306	260	46	7	B	yellow brown and gray granite	
55	522622	407	1335	480	740	146	226	855	595	260	181	79	7	B	yellow and brown granite	
55	522622	407	1335	740	1280	226	390	595	55	181	17	165	7	B	brown, green and gray granite	
55	522622	407	1335	1280	1370	390	418	55	-35	17	-11	27	7	B	red fractured broken up zone	
55	522622	407	1335	1370	2000	418	610	-35	-665	-11	-203	192	7	B	black, gray and white granite	
55	522623	409	1342	0	25	0	8	1342	1317	409	401	8	3	LBF	topsoil and caliche? (cannot read)	
55	522623	409	1342	25	120	8	37	1317	1222	401	372	29	3	LBF	decomposed and fractured black basalt	
55	522623	409	1342	120	200	37	61	1222	1142	372	348	24	3	LBF	streaks of hard and soft basalt	
55	522623	409	1342	200	405	61	123	1142	937	348	286	62	7	B	yellow and gray fractured granite	
55	522623	409	1342	405	465	123	142	937	877	286	267	18	7	B	yellow and black fractured granite	

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55	522623	409	1342	465	490	142	149	877	852	267	260	8	7	B	second water zone aprox 25 gpm	
55	522623	409	1342	490	560	149	171	852	782	260	238	21	7	B	yellow and tan consolidated granite	
55	522623	409	1342	560	580	171	177	782	762	238	232	6	7	B	third water zone aprox 40 gpm, very fractured zone	
55	522623	409	1342	580	720	177	219	762	622	232	190	43	7	B	yellow and tan hard granite	
55	522623	409	1342	720	780	219	238	622	562	190	171	18	7	B	gray granite	
55	522623	409	1342	780	980	238	299	562	362	171	110	61	7	B	black and green granite, very hard	
55	522623	409	1342	980	1020	299	311	362	322	110	98	12	7	B	black granite	
55	522623	409	1342	1020	1200	311	366	322	142	98	43	55	7	B	black with streak of white granite, very hard	
55	522623	409	1342	1200	1500	366	457	142	-158	43	-48	91	7	B	black green and gray granite, very hard	
55	522623	409	1342	1500	2240	457	683	-158	-898	-48	-274	226	7	B	black and green granite, very hard	
55	522623	409	1342	2240	2320	683	707	-898	-978	-274	-298	24	7	B	red fractured broken up zone	
55	522623	409	1342	2320	3000	707	914	-978	-1658	-298	-505	207	7	B	black and gray granite, very hard	
55	595245	319	1046	0	20	0	6	1046	1026	319	313	6	1	VF	top soil	
55	595245	319	1046	20	120	6	37	1026	926	313	282	30	1	VF	gravel, cobbles	
55	595245	319	1046	120	190	37	58	926	856	282	261	21	1	VF	gravel, sand and cobbles	
55	595245	319	1046	190	230	58	70	856	816	261	249	12	1	VF	sand, gravel	
55	595245	319	1046	230	240	70	73	816	806	249	246	3	1	VF	gravel w/ clay stringers	
55	595245	319	1046	240	270	73	82	806	776	246	237	9	1	VF	sand, gravel, trace of clay	
55	595245	319	1046	270	320	82	98	776	726	237	221	15	1	VF	fine sand, clay	
55	595245	319	1046	320	390	98	119	726	656	221	200	21	2	UBF	clay w/ trace of gravel	
55	595245	319	1046	390	420	119	128	656	626	200	191	9	2	UBF	clay w/ more sand and gravel	
55	595245	319	1046	420	490	128	149	626	556	191	170	21	2	UBF	reddish clay	
55	595245	319	1046	490	580	149	177	556	466	170	142	27	2	UBF	soft clay w/ trace of small rocks	
55	595245	319	1046	580	710	177	216	466	336	142	102	40	3	LBF	brown clay	
55	595245	319	1046	710	730	216	223	336	316	102	96	6	3	LBF	silty clay	
55	595245	319	1046	730	800	223	244	316	246	96	75	21	3	LBF	brown clay	
55	595245	319	1046	800	860	244	262	246	186	75	57	18	3	LBF	silty clay	
55	595245	319	1046	860	1040	262	317	186	6	57	2	55	3	LBF	brown dry clay	
55	595245	319	1046	1040	1150	317	351	6	-104	2	-32	34	3	LBF	brown clay	
55	595245	319	1046	1150	1200	351	366	-104	-154	-32	-47	15	3	LBF	clay w/ find sand, silt and trace of gravel	
55	595245	319	1046	1200	1240	366	378	-154	-194	-47	-59	12	3	LBF	clay w/ more sand and gravel	
55	595245	319	1046	1240	1260	378	384	-194	-214	-59	-65	6	3	LBF	sand, fine gravel, some clay	
55	595245	319	1046	1260	1340	384	408	-214	-294	-65	-90	24	3	LBF	fine sand w/ trace of gravel and clay	
55	595245	319	1046	1340	1390	408	424	-294	-344	-90	-105	15	3	LBF	fine sand w/ more clay	
55	595245	319	1046	1390	1510	424	460	-344	-464	-105	-141	37	3	LBF	fine sand w/ less silt and clay	
55	595245	319	1046	1510	1540	460	469	-464	-494	-141	-150	9	3	LBF	fine sand w/ some clay	
55	595245	319	1046	1540	1580	469	482	-494	-534	-150	-163	12	3	LBF	coarser sand, trace of gravel and clay	
55	595245	319	1046	1580	1630	482	497	-534	-584	-163	-178	15	3	LBF	coarse sand and gravel	
55	595245	319	1046	1630	1660	497	506	-584	-614	-178	-187	9	3	LBF	coarse sand and large amounts of gravel	
55	595245	319	1046	1660	1700	506	518	-614	-654	-187	-199	12	3	LBF	sand, some gravel w/ more clay	
55	595245	319	1046	1700	1730	518	527	-654	-684	-199	-208	9	3	LBF	fine sand, trace of gravel and clay	
55	595245	319	1046	1730	1750	527	533	-684	-704	-208	-215	6	3	LBF	coarser sand, trace of gravel and clay	
55	595245	319	1046	1750	1800	533	549	-704	-754	-215	-230	15	3	LBF	coarse sand, gravel	
55	611721	316	1037	0	740	0	226	1037	297	316	90	226	8	U	no sample	
55	611721	316	1037	740	800	226	244	297	237	90	72	18	2	UBF	red clay with thin streaks brown shale	
55	611721	316	1037	800	804	244	245	237	233	72	71	1	2	UBF	hard shell	
55	611721	316	1037	804	830	245	253	233	207	71	63	8	3	LBF	red clay	

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55	611721	316	1037	830	837	253	255	207	200	63	61	2	3	LBF	hard brown shale	
55	611721	316	1037	837	868	255	265	200	169	61	51	9	3	LBF	red clay	
55	611721	316	1037	868	899	265	274	169	138	51	42	9	3	LBF	sticky brown clay and shale	
55	611721	316	1037	899	911	274	278	138	126	42	38	4	3	LBF	red clay	
55	611721	316	1037	911	938	278	286	126	99	38	30	8	3	LBF	brown clay and shale	
55	611721	316	1037	938	950	286	290	99	87	30	26	4	3	LBF	red clay and shale with thin sand streaks, silty sand	
55	611721	316	1037	950	974	290	297	87	63	26	19	7	3	LBF	red clay and shale	
55	611721	316	1037	974	979	297	298	63	58	19	18	2	3	LBF	brown and blue clay with silty sand streaks	
55	611721	316	1037	979	982	298	299	58	55	18	17	1	3	LBF	hard shell	
55	611721	316	1037	982	1020	299	311	55	17	17	5	12	3	LBF	brown and blue clay with silty sand streaks	
55	611721	316	1037	1020	1062	311	324	17	-25	5	-8	13	3	LBF	red clay and shale	
55	611721	316	1037	1062	1070	324	326	-25	-33	-8	-10	2	3	LBF	red clay and shale with gypsum crystals	
55	611721	316	1037	1070	1073	326	327	-33	-36	-10	-11	1	3	LBF	hard shell	
55	611721	316	1037	1073	1103	327	336	-36	-66	-11	-20	9	3	LBF	red clay and shale with gypsum crystals	
55	611721	316	1037	1103	1110	336	338	-66	-73	-20	-22	2	3	LBF	hard shell	
55	611721	316	1037	1110	1120	338	341	-73	-83	-22	-25	3	3	LBF	red clay and shale	
55	611721	316	1037	1120	1123	341	342	-83	-86	-25	-26	1	3	LBF	hard shell	
55	611721	316	1037	1123	1155	342	352	-86	-118	-26	-36	10	3	LBF	red clay with silty sand streaks	
55	611721	316	1037	1155	1175	352	358	-118	-138	-36	-42	6	3	LBF	red clay with silty sand streaks and sandstone ledges	
55	611721	316	1037	1175	1200	358	366	-138	-163	-42	-50	8	3	LBF	hard red shale with clay streaks (gypsum)	
55	611721	316	1037	1200	1250	366	381	-163	-213	-50	-65	15	3	LBF	red clay and shale with gypsum crystals	
55	611721	316	1037	1250	1265	381	386	-213	-228	-65	-70	5	3	LBF	red clay and silty sand streaks	
55	611721	316	1037	1265	1285	386	392	-228	-248	-70	-76	6	3	LBF	red clay and shale	
55	611721	316	1037	1285	1307	392	398	-248	-270	-76	-82	7	3	LBF	red clay and shale silty sand streaks	
55	611721	316	1037	1307	1316	398	401	-270	-279	-82	-85	3	3	LBF	hard shell, low grade sandstone	
55	611721	316	1037	1316	1347	401	411	-279	-310	-85	-95	9	3	LBF	clay and shale with sand streaks	
55	611721	316	1037	1347	1353	411	412	-310	-316	-95	-96	2	3	LBF	sand and sandstone layers	
55	611721	316	1037	1353	1362	412	415	-316	-325	-96	-99	3	3	LBF	red clay and hard shale	
55	611721	316	1037	1362	1380	415	421	-325	-343	-99	-105	5	3	LBF	brown shale with sandstone streaks	
55	611721	316	1037	1380	1416	421	432	-343	-379	-105	-116	11	3	LBF	hard brown shale	
55	611721	316	1037	1416	1424	432	434	-379	-387	-116	-118	2	3	LBF	rotten red shale and sand streaks	
55	611721	316	1037	1424	1473	434	449	-387	-436	-118	-133	15	3	LBF	red clay and shale sandstone streaks, getting more blue in color	
55	611721	316	1037	1473	1478	449	450	-436	-441	-133	-134	2	3	LBF	soft blue clay	
55	611721	316	1037	1478	1572	450	479	-441	-535	-134	-163	29	3	LBF	hard blue clay, with streaks of sulfate or gypsum	
55	611721	316	1037	1572	1678	479	511	-535	-641	-163	-195	32	3	LBF	hard and sticky blue and red clay and lots of gypsum	
55	611721	316	1037	1678	1680	511	512	-641	-643	-195	-196	1	3	LBF	granite boulder or ledge	
55	611721	316	1037	1680	1702	512	519	-643	-665	-196	-203	7	3	LBF	sticky blue clay and hard red shale and gypsum	
55	611721	316	1037	1702	1722	519	525	-665	-685	-203	-209	6	3	LBF	red clay and gypsum appeared to be thin layer of sand at 1702	
55	611721	316	1037	1722	1723	525	525	-685	-686	-209	-209	0	3	LBF	thin layer of sand, possibility of some water. Had odor of rotten eggs	
55	611721	316	1037	1723	1790	525	546	-686	-753	-209	-230	20	3	LBF	red clay and shale with trace of gravel	
55	611721	316	1037	1790	1796	546	547	-753	-759	-230	-231	2	3	LBF	white and hydrate gravel and red clay 50-50	
55	611721	316	1037	1796	1803	547	550	-759	-766	-231	-234	2	3	LBF	white boulders in cemented sand with sand streaks	

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55	611721	316	1037	1803	1821	550	555	-766	-784	-234	-239	5	3	LBF	sandy clay streaks and red clay	
55	611721	316	1037	1821	1837	555	560	-784	-800	-239	-244	5	3	LBF	sandy clay and loose gravel	
55	611721	316	1037	1837	1851	560	564	-800	-814	-244	-248	4	3	LBF	tough red clay and gravel streaks of sandy clay	
55	611721	316	1037	1851	1859	564	567	-814	-822	-248	-251	2	3	LBF	cemented gravel and streaks loose gravel	
55	611721	316	1037	1859	1878	567	572	-822	-841	-251	-256	6	3	LBF	hard red clay with trace of gravel	
55	611721	316	1037	1878	1880	572	573	-841	-843	-256	-257	1	3	LBF	cemented gravel	
55	611721	316	1037	1880	1896	573	578	-843	-859	-257	-262	5	3	LBF	hard red clay with trace of gravel, looks almost blue	
55	611721	316	1037	1896	1898	578	579	-859	-861	-262	-263	1	3	LBF	clay and gravel	
55	611721	316	1037	1898	1900	579	579	-861	-863	-263	-263	1	3	LBF	hard brown sticky clay	
55	611721	316	1037	1900	1901	579	579	-863	-864	-263	-263	0	3	LBF	running mud, water table dropped to 205	
55	611721	316	1037	1901	1918	579	585	-864	-881	-263	-269	5	3	LBF	sticky silty brown clay with trace of anhydrite gravel	
55	611721	316	1037	1918	1919	585	585	-881	-882	-269	-269	0	3	LBF	cemented gravel	
55	611721	316	1037	1919	1935	585	590	-882	-898	-269	-274	5	3	LBF	red clay anhydrite gravel, trace of granite gravel, sandstone ledges	
55	611721	316	1037	1935	1938	590	591	-898	-901	-274	-275	1	3	LBF	cemented gravel (anhydrite)	
55	616948	384	1260	0	200	0	61	1260	1060	384	323	61	8	U	no sample	
55	616948	384	1260	200	270	61	82	1060	990	323	302	21	2	UBF	moderately cemented gravel	Contact poorly constrained.
55	616948	384	1260	270	350	82	107	990	910	302	277	24	2	UBF	moderately cemented sand and gravel	
55	616948	384	1260	350	360	107	110	910	900	277	274	3	2	UBF	clay cemented sand and gravel	
55	616948	384	1260	360	370	110	113	900	890	274	271	3	2	UBF	clay and lime cemented sand and gravel	
55	616948	384	1260	370	380	113	116	890	880	271	268	3	2	UBF	clay and lime cemented sand and gravel	
55	616948	384	1260	380	390	116	119	880	870	268	265	3	2	UBF	clay and lime cemented sand and gravel	
55	616948	384	1260	390	400	119	122	870	860	265	262	3	2	UBF	moderately cemented coarse gravel and find sand	
55	616948	384	1260	400	410	122	125	860	850	262	259	3	2	UBF	same	
55	616948	384	1260	410	420	125	128	850	840	259	256	3	2	UBF	same	
55	616948	384	1260	420	430	128	131	840	830	256	253	3	2	UBF	same	
55	616948	384	1260	430	440	131	134	830	820	253	250	3	2	UBF	same	
55	616948	384	1260	440	450	134	137	820	810	250	247	3	2	UBF	same	
55	616948	384	1260	450	460	137	140	810	800	247	244	3	2	UBF	same	
55	616948	384	1260	460	470	140	143	800	790	244	241	3	2	UBF	same	
55	616948	384	1260	470	480	143	146	790	780	241	238	3	2	UBF	same	
55	616948	384	1260	480	490	146	149	780	770	238	235	3	3	LBF	same, more fines	Contact poorly constrained.
55	616948	384	1260	490	500	149	152	770	760	235	232	3	3	LBF	moderately cemented sand and gravel	
55	616948	384	1260	500	510	152	155	760	750	232	229	3	3	LBF	same	
55	616948	384	1260	510	520	155	158	750	740	229	226	3	3	LBF	same	
55	616948	384	1260	520	530	158	162	740	730	226	223	3	3	LBF	same, less fines	
55	616948	384	1260	530	540	162	165	730	720	223	220	3	3	LBF	same	
55	616948	384	1260	540	550	165	168	720	710	220	216	3	3	LBF	same	
55	616948	384	1260	550	560	168	171	710	700	216	213	3	3	LBF	same, more fines	
55	616948	384	1260	560	570	171	174	700	690	213	210	3	3	LBF	same, very little fines	
55	616948	384	1260	570	580	174	177	690	680	210	207	3	3	LBF	same	
55	616948	384	1260	580	590	177	180	680	670	207	204	3	3	LBF	same, more fines	
55	616948	384	1260	590	600	180	183	670	660	204	201	3	3	LBF	moderately cemented fine sand and coarse gravel	
55	616948	384	1260	600	610	183	186	660	650	201	198	3	3	LBF	same	

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55	616948	384	1260	610	620	186	189	650	640	198	195	3	3	LBF	same, low fines	
55	616948	384	1260	620	630	189	192	640	630	195	192	3	3	LBF	same	
55	616948	384	1260	630	640	192	195	630	620	192	189	3	3	LBF	same	
55	616948	384	1260	640	650	195	198	620	610	189	186	3	3	LBF	same	
55	616948	384	1260	650	660	198	201	610	600	186	183	3	3	LBF	well cemented sand and gravel	
55	616948	384	1260	660	670	201	204	600	590	183	180	3	3	LBF	clay cemented sand and gravel, half fine sand	
55	616948	384	1260	670	680	204	207	590	580	180	177	3	3	LBF	same	
55	616948	384	1260	680	690	207	210	580	570	177	174	3	3	LBF	same	
55	616948	384	1260	690	700	210	213	570	560	174	171	3	3	LBF	same, less clay	
55	616948	384	1260	700	710	213	216	560	550	171	168	3	3	LBF	clay cemented sand and gravel	
55	616948	384	1260	710	720	216	219	550	540	168	165	3	3	LBF	moderately cemented sand and gravel	
55	616948	384	1260	720	730	219	223	540	530	165	162	3	3	LBF	same	
55	616948	384	1260	730	740	223	226	530	520	162	159	3	3	LBF	same	
55	616948	384	1260	740	750	226	229	520	510	159	155	3	3	LBF	same	
55	616948	384	1260	750	760	229	232	510	500	155	152	3	3	LBF	same	
55	616948	384	1260	760	770	232	235	500	490	152	149	3	3	LBF	same	
55	616948	384	1260	770	780	235	238	490	480	149	146	3	3	LBF	same	
55	616948	384	1260	780	790	238	241	480	470	146	143	3	3	LBF	same	
55	616948	384	1260	790	800	241	244	470	460	143	140	3	3	LBF	same	
55	616948	384	1260	800	810	244	247	460	450	140	137	3	3	LBF	same	
55	616948	384	1260	810	820	247	250	450	440	137	134	3	3	LBF	slightly cemented sand and gravel	
55	616948	384	1260	820	830	250	253	440	430	134	131	3	3	LBF	same	
55	616948	384	1260	830	840	253	256	430	420	131	128	3	3	LBF	same	
55	616948	384	1260	840	850	256	259	420	410	128	125	3	3	LBF	same, more fines	
55	616948	384	1260	850	860	259	262	410	400	125	122	3	3	LBF	same, little clay	
55	616948	384	1260	860	870	262	265	400	390	122	119	3	3	LBF	same	
55	616948	384	1260	870	880	265	268	390	380	119	116	3	3	LBF	same, more clay	
55	616948	384	1260	880	890	268	271	380	370	116	113	3	3	LBF	cemented fine sand and gravel	
55	616948	384	1260	890	900	271	274	370	360	113	110	3	3	LBF	same	
55	616948	384	1260	900	910	274	277	360	350	110	107	3	3	LBF	clay cemented sand and gravel	
55	616948	384	1260	910	920	277	280	350	340	107	104	3	3	LBF	cemented sand and gravel	
55	616948	384	1260	920	930	280	283	340	330	104	101	3	3	LBF	same	
55	616948	384	1260	930	940	283	287	330	320	101	98	3	3	LBF	same, less fines	
55	616948	384	1260	940	950	287	290	320	310	98	95	3	3	LBF	same	
55	616948	384	1260	950	960	290	293	310	300	95	91	3	3	LBF	same	
55	616948	384	1260	960	970	293	296	300	290	91	88	3	3	LBF	clay cemented sand and gravel	
55	616948	384	1260	970	980	296	299	290	280	88	85	3	3	LBF	well cemented sand and gravel	
55	616948	384	1260	980	990	299	302	280	270	85	82	3	3	LBF	clay cemented sand and gravel	
55	616948	384	1260	990	1000	302	305	270	260	82	79	3	3	LBF	moderately cemented sand and gravel	
55	616948	384	1260	1000	1010	305	308	260	250	79	76	3	3	LBF	clay and fine semented sand, gravel	
55	616948	384	1260	1010	1020	308	311	250	240	76	73	3	3	LBF	clay cemented sand and gravel	
55	616948	384	1260	1020	1030	311	314	240	230	73	70	3	3	LBF	same, little clay	
55	616948	384	1260	1030	1100	314	335	230	160	70	49	21	3	LBF	clay cemented sand and a little gravel	
55	616948	384	1260	1100	1110	335	338	160	150	49	46	3	3	LBF	same	
55	616948	384	1260	1110	1120	338	341	150	140	46	43	3	3	LBF	same	
55	616948	384	1260	1120	1130	341	344	140	130	43	40	3	3	LBF	same, more gravel	
55	616948	384	1260	1130	1140	344	347	130	120	40	37	3	3	LBF	same	

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55	616948	384	1260	1140	1150	347	351	120	110	37	34	3	3	LBF	same	
55	616948	384	1260	1150	1160	351	354	110	100	34	31	3	3	LBF	same	
55	616948	384	1260	1160	1200	354	366	100	60	31	18	12	3	LBF	same	
55	616948	384	1260	1200	1210	366	369	60	50	18	15	3	3	LBF	limey clay with a little sand	
55	616948	384	1260	1210	1220	369	372	50	40	15	12	3	3	LBF	cemented sand and gravel with a little clay	
55	616948	384	1260	1220	1230	372	375	40	30	12	9	3	3	LBF	clay, sand and gravel	
55	616948	384	1260	1230	1240	375	378	30	20	9	6	3	3	LBF	clay cemented sand and gravel	
55	616948	384	1260	1240	1250	378	381	20	10	6	3	3	3	LBF	cemented sand and gravel	
55	616948	384	1260	1250	1260	381	384	10	0	3	0	3	3	LBF	cemented sand and gravel- mostly sand	
55	616948	384	1260	1260	1270	384	387	0	-10	0	-3	3	3	LBF	same	
55	616948	384	1260	1270	1280	387	390	-10	-20	-3	-6	3	3	LBF	same plus clay	
55	616948	384	1260	1280	1290	390	393	-20	-30	-6	-9	3	3	LBF	limey clay with a little sand and gravel	
55	616948	384	1260	1290	1300	393	396	-30	-40	-9	-12	3	3	LBF	same, more sand and gravel	
55	616948	384	1260	1300	1310	396	399	-40	-50	-12	-15	3	3	LBF	moderately cemented sand and gravel	
55	616948	384	1260	1310	1320	399	402	-50	-60	-15	-18	3	3	LBF	same	
55	616948	384	1260	1320	1330	402	405	-60	-70	-18	-21	3	3	LBF	same	
55	616948	384	1260	1330	1340	405	408	-70	-80	-21	-24	3	3	LBF	same	
55	616948	384	1260	1340	1350	408	411	-80	-90	-24	-27	3	3	LBF	cemented sand and gravel	
55	616948	384	1260	1350	1360	411	415	-90	-100	-27	-30	3	3	LBF	same	
55	616948	384	1260	1360	1370	415	418	-100	-110	-30	-33	3	3	LBF	cemented sand with a little gravel	
55	616948	384	1260	1370	1380	418	421	-110	-120	-33	-37	3	3	LBF	cemented sand and gravel	
55	616948	384	1260	1380	1390	421	424	-120	-130	-37	-40	3	3	LBF	same, with some clay	
55	616948	384	1260	1390	1400	424	427	-130	-140	-40	-43	3	3	LBF	lightly cemented sand and gravel	
55	616948	384	1260	1400	1410	427	430	-140	-150	-43	-46	3	3	LBF	clay cemented sand and gravel	
55	616948	384	1260	1410	1420	430	433	-150	-160	-46	-49	3	3	LBF	cemented sand and gravel	
55	616948	384	1260	1420	1430	433	436	-160	-170	-49	-52	3	3	LBF	clay, sand and gravel	
55	616948	384	1260	1430	1440	436	439	-170	-180	-52	-55	3	3	LBF	same	
55	616948	384	1260	1440	1450	439	442	-180	-190	-55	-58	3	3	LBF	same	
55	616948	384	1260	1450	1460	442	445	-190	-200	-58	-61	3	3	LBF	moderately cemented sand and gravel	
55	616948	384	1260	1460	1470	445	448	-200	-210	-61	-64	3	3	LBF	clay and sand with a little gravel	
55	616948	384	1260	1470	1480	448	451	-210	-220	-64	-67	3	3	LBF	moderately cemented sand and gravel	
55	616948	384	1260	1480	1490	451	454	-220	-230	-67	-70	3	3	LBF	same	
55	616948	384	1260	1490	1500	454	457	-230	-240	-70	-73	3	3	LBF	same, more sand and gravel	
55	616948	384	1260	1500	1510	457	460	-240	-250	-73	-76	3	3	LBF	same	
55	616948	384	1260	1510	1520	460	463	-250	-260	-76	-79	3	3	LBF	clay, sand and gravel	
55	616948	384	1260	1520	1530	463	466	-260	-270	-79	-82	3	3	LBF	same, more clay	
55	616948	384	1260	1530	1540	466	469	-270	-280	-82	-85	3	3	LBF	moderately cemented sand and gravel	
55	616948	384	1260	1540	1550	469	472	-280	-290	-85	-88	3	3	LBF	clay cemented sand and gravel	
55	616948	384	1260	1550	1560	472	475	-290	-300	-88	-91	3	3	LBF	same, less clay	
55	616948	384	1260	1560	1570	475	479	-300	-310	-91	-94	3	3	LBF	clay cemented sand and gravel	
55	616948	384	1260	1570	1580	479	482	-310	-320	-94	-97	3	3	LBF	moderately cemented sand and gravel	
55	616948	384	1260	1580	1590	482	485	-320	-330	-97	-101	3	3	LBF	clay, sand and gravel	
55	616948	384	1260	1590	1600	485	488	-330	-340	-101	-104	3	3	LBF	cemented sand and gravel	
55	616948	384	1260	1600	1970	488	600	-340	-710	-104	-216	113	3	LBF	clay	
55	616948	384	1260	1970	1977	600	603	-710	-717	-216	-218	2	3	LBF	hard rock	
55	625050	387	1270	0	75	0	23	1270	1195	387	364	23	1	VF	Sand and gravel	
55	625050	387	1270	75	222	23	68	1195	1048	364	320	45	1	VF	sand, streaks of gravel	

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55	625050	387	1270	222	580	68	177	1048	690	320	210	109	1	UBF	sand, gravel, streaks, clay, boulders	
55	625050	387	1270	580	775	177	236	690	495	210	151	59	2	UBF	sand, gravel, streaks clay	
55	625050	387	1270	775	868	236	265	495	402	151	123	28	2	UBF	streaks clay, sand and gravel	
55	625050	387	1270	868	931	265	284	402	339	123	103	19	3	LBF	hard sand, streaks of granite sand	Contact poorly constrained.
55	625050	387	1270	931	1014	284	309	339	256	103	78	25	3	LBF	hard sand and gravel	
55	625050	387	1270	1014	1173	309	358	256	97	78	30	48	3	LBF	sand and gravel with hard shells	
55	625050	387	1270	1173	1291	358	394	97	-21	30	-6	36	3	LBF	hard conglomerate, sand shell gravel	
55	625050	387	1270	1291	1383	394	422	-21	-113	-6	-34	28	3	LBF	hard sand, hard rock	
55	625050	387	1270	1383	1557	422	475	-113	-287	-34	-87	53	3	LBF	sand and gravel	
55	625050	387	1270	1557	1632	475	497	-287	-362	-87	-110	23	3	LBF	hard sand and gravel	
55	625050	387	1270	1632	1660	497	506	-362	-390	-110	-119	9	3	LBF	conglomerate sand	
55	625050	387	1270	1660	1734	506	529	-390	-464	-119	-141	23	3	LBF	hard sand and gravel	
55	625050	387	1270	1734	1832	529	558	-464	-562	-141	-171	30	3	LBF	hard sand, streaks chert shale, lime shells	
55	625050	387	1270	1832	1922	558	586	-562	-652	-171	-199	27	3	LBF	sand, gravel streaks and hard shale	
55	625050	387	1270	1922	2050	586	625	-652	-780	-199	-238	39	3	LBF	sand, sandy shale, streaks gravel	
OG	548	331	1085	0	240	0	73	1085	845	331	258	73	1	VF	gravel rich sediments	More detailed drill log in report, but hard to read
OG	548	331	1085	240	800	73	244	845	285	258	87	171	3	LBF	increase in mudstone	Contact estimated from Brown and Pool (1989)
OG	548	331	1085	800	1000	244	305	285	85	87	26	61	3	LBF	anhydrite	
OG	548	331	1085	1000	3425	305	1044	85	-2340	26	-713	739	4	LUKE	Top of salt (halite)	
OG	617	331	1087	0	228	0	69	1087	859	331	262	69	1	VF	surface sand and gravel	
OG	617	331	1087	228	608	69	185	859	479	262	146	116	2	UBF	sand and clay	
OG	617	331	1087	608	833	185	254	479	254	146	77	69	3	LBF	clay and hard sand	
OG	617	331	1087	833	1010	254	308	254	77	77	23	54	3	LBF	anhydrite and shale	
OG	617	331	1087	1010	3200	308	975	77	-2113	23	-644	668	4	LUKE	salt	Salt to TD
OG	627	331	1087	0	270	0	82	1087	817	331	249	82	1	VF	surface sand and caliche	
OG	627	331	1087	270	357	82	109	817	730	249	223	27	3	LBF	sand	May be MAU unit
OG	627	331	1087	357	510	109	155	730	577	223	176	47	3	LBF	sand with anhydrite	
OG	627	331	1087	510	950	155	290	577	137	176	42	134	3	LBF	sand with shale and silt	
OG	627	331	1087	950	1101	290	336	137	-14	42	-4	46	3	LBF	anhydrite	
OG	627	331	1087	1101	3210	336	978	-14	-2123	-4	-647	643	4	LUKE	salt	Salt to TD
OG	670	331	1086	0	1077	0	328	1086	9	331	3	328	8	U	sand, clay and gravel	
OG	670	331	1086	1077	1169	328	356	9	-83	3	-25	28	3	LBF	anhydrite	
OG	670	331	1086	1169	3200	356	975	-83	-2114	-25	-644	619	4	LUKE	salt	Salt to TD
OG	773	488	1600	0	2200	0	671	1600	-600	488	-183	671	8	U	basin-fill	depths and lithology approximated from newspaper clipping (Rauzi, 1991)
OG	773	488	1600	2200	2250	671	686	-600	-650	-183	-198	15	3	LBF	basalt flow	
OG	773	488	1600	2250	3900	686	1189	-650	-2300	-198	-701	503	3	LBF	basin-fill	
OG	773	488	1600	3900	3980	1189	1213	-2300	-2380	-701	-725	24	7	B	actinolite schist	
OG	803	492	1613	0	1225	0	373	1613	388	492	118	373	8	U	fresh water sands and shale	
OG	803	492	1613	1225	2017	373	615	388	-404	118	-123	241	3	LBF	shale and silt	
OG	803	492	1613	2017	2040	615	622	-404	-427	-123	-130	7	3	LBF	fresh water sandstone, coarse	
OG	803	492	1613	2040	2286	622	697	-427	-673	-130	-205	75	3	LBF	black lava beds, permeable and bearing fresh water	

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OG	803	492	1613	2286	2383	697	726	-673	-770	-205	-235	30	3	LBF	fresh water sandstone, coarse	
OG	803	492	1613	2383	2793	726	851	-770	-1180	-235	-360	125	3	LBF	salt water sandstone, medium grained and shaly	
OG	803	492	1613	2793	3090	851	942	-1180	-1477	-360	-450	91	3	LBF	shale and sandstone lenses, salt. Water bearing	
OG	803	492	1613	3090	3440	942	1049	-1477	-1827	-450	-557	107	5	TVS	volcanics	
OG	803	492	1613	3440	3894	1049	1187	-1827	-2281	-557	-695	138	5	TVS	sandstone, likely bearing fresh or brackish water	
OG	803	492	1613	3894	3940	1187	1201	-2281	-2327	-695	-709	14	5	TVS	fault gouge	
OG	803	492	1613	3940	4536	1201	1383	-2327	-2923	-709	-891	182	7	B	actinolite schist of sedimentary origin	
OG	865	331	1087	0	1010	0	308	1087	77	331	23	308	8	U	sand, gravel and clay	
OG	865	331	1087	1010	2800	308	853	77	-1713	23	-522	546	4	LUKE	salt	Luke salt at TD
OG	866	320	1051	0	74	0	23	1051	977	320	298	23	1	VF	quaternary deposits	
OG	866	320	1051	74	1716	23	523	977	-665	298	-203	500	8	U	Pliocene/Miocene deposits (various sediments). Sandstone, mudstone and claystone with anhydrite.	From Rauzi, 1991 in OG log files
OG	866	320	1051	1716	4000	523	1219	-665	-2949	-203	-899	696	4	LUKE	Miocene Salt with brown and black organic inclusions. Conspicuous layer of slightly calcareous clayey siltstone reported at 3,000 ft	
OG	877	315	1032	0	440	0	134	1032	592	315	180	134	1	VF	Conglomerate with silt	More detailed drill log in report (p. 47-65)
OG	877	315	1032	440	1420	134	433	592	-388	180	-118	299	2	UBF	Predominantly soft clay with disseminated anhydrite	
OG	877	315	1032	1420	1900	433	579	-388	-868	-118	-265	146	3	LBF	Predominantly anhydrite (50-70%) with sandy siltstone	
OG	877	315	1032	1900	2080	579	634	-868	-1048	-265	-319	55	3	LBF	Predominantly orange-red silty clay	
OG	877	315	1032	2080	2210	634	674	-1048	-1178	-319	-359	40	3	LBF	Predominantly sandy silt with diss. Anhydrite	
OG	877	315	1032	2210	2460	674	750	-1178	-1428	-359	-435	76	3	LBF	Predominantly anhydrite (50-70%) with sandy siltstone	
OG	877	315	1032	2460	2620	750	799	-1428	-1588	-435	-484	49	3	LBF	Predominantly sandy silt with diss. Anhydrite	chlorides increase from 400 to 1,500 ppm around 2,500 ft to 15,000 at 2,620 ft
OG	877	315	1032	2620	4500	799	1372	-1588	-3468	-484	-1057	573	4	LUKE	interbedded salt and clastics	
OG	877	315	1032	4500	6650	1372	2027	-3468	-5618	-1057	-1712	655	4	LUKE	99% salt with scattered siltstone	From 0877.pdf pg 42
OG	908	329	1080	0	864	0	263	1080	216	329	66	263	8	U	valley fill	
OG	908	329	1080	864	872	263	266	216	208	66	63	2	3	LBF	gypsum/anhydrite	
OG	908	329	1080	872	5135	266	1565	208	-4055	63	-1236	1299	4	LUKE	halite to TD	
OG	909	324	1064	0	80	0	24	1064	984	324	300	24	1	VF	no sample	
OG	909	324	1064	80	140	24	43	984	924	300	282	18	1	VF	sand	
OG	909	324	1064	140	210	43	64	924	854	282	260	21	2	UBF	sand, clay/claystone	
OG	909	324	1064	210	300	64	91	854	764	260	233	27	2	UBF	sand, conglomerate sand	
OG	909	324	1064	300	440	91	134	764	624	233	190	43	2	UBF	sand, clay/claystone	
OG	909	324	1064	440	760	134	232	624	304	190	93	98	2	UBF	sand, sandstone, claystone	
OG	909	324	1064	760	1050	232	320	304	14	93	4	88	3	LBF	claystone, siltstone	
OG	909	324	1064	1050	1510	320	460	14	-446	4	-136	140	3	LBF	anhydrite, claystone, carbonaceous material	
OG	909	324	1064	1510	1950	460	594	-446	-886	-136	-270	134	3	LBF	sandstone, sand, clay/claystone	
OG	909	324	1064	1950	2151	594	656	-886	-1087	-270	-331	61	3	LBF	sand	
OG	909	324	1064	2151	2330	656	710	-1087	-1266	-331	-386	55	3	LBF	sandstone, sand	
OG	909	324	1064	2330	2770	710	844	-1266	-1706	-386	-520	134	3	LBF	sand, sandstone, clay/claystone	
OG	909	324	1064	2770	2933	844	894	-1706	-1869	-520	-570	50	3	LBF	sand, sand/breccia	

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OG	909	324	1064	2933	3660	894	1116	-1869	-2596	-570	-791	222	3	LBF	sand, sand/granite wash/volcanics and metamorphic rock fragments, granite wash/conglomerate/sand	
OG	909	324	1064	3660	3810	1116	1161	-2596	-2746	-791	-837	46	3	LBF	sand/kaolinite/rock fragments, claystone	
OG	909	324	1064	3810	3960	1161	1207	-2746	-2896	-837	-883	46	3	LBF	claystone, sand	
OG	909	324	1064	3960	4250	1207	1295	-2896	-3186	-883	-971	88	3	LBF	claystone, sandstone, sand	
OG	909	324	1064	4250	4350	1295	1326	-3186	-3286	-971	-1002	30	3	LBF	claystone	
OG	909	324	1064	4350	4652	1326	1418	-3286	-3588	-1002	-1094	92	3	LBF	claystone	
OG	909	324	1064	4652	4778	1418	1456	-3588	-3714	-1094	-1132	38	3	LBF	sandstone, claystone	
OG	909	324	1064	4778	4980	1456	1518	-3714	-3916	-1132	-1194	62	3	LBF	siltstone, claystone	
OG	909	324	1064	4980	5340	1518	1628	-3916	-4276	-1194	-1303	110	4	LUKE	siltstone, salt , claystone, sand	
OG	909	324	1064	5340	5372	1628	1637	-4276	-4308	-1303	-1313	10	5	TVS	granite wash/sand	
OG	909	324	1064	5372	5377	1637	1639	-4308	-4313	-1313	-1315	2	6	TV	diorite/greenstone	Detachment fault at 5373'
OG	909	324	1064	5377	5383	1639	1641	-4313	-4319	-1315	-1316	2	6	TV	volcanics/basalt	
OG	909	324	1064	5383	5520	1641	1683	-4319	-4456	-1316	-1358	42	6	TV	basalt/metamorphics	
OG	909	324	1064	5520	5725	1683	1745	-4456	-4661	-1358	-1421	62	7	B	quartz diorite, hornblende quartz diorite/metamorphics, metavolcanics	
OG	909	324	1064	5725	5780	1745	1762	-4661	-4716	-1421	-1437	17	7	B	quartz diorite, grandiorite	
OG	909	324	1064	5780	6053	1762	1845	-4716	-4989	-1437	-1521	83	7	B	hornblende quartz diorite	
OG	911	321	1053	0	1846	0	563	1053	-793	321	-242	563	8	U	no sample	
OG	911	321	1053	1846	7468	563	2276	-793	-6415	-242	-1955	1714	4	LUKE	Luke Salt	
OG	911	321	1053	7468	7485	2276	2281	-6415	-6432	-1955	-1960	5	8	U	no record	
OG	911	321	1053	7485	7500	2281	2286	-6432	-6447	-1960	-1965	5	6	TV	Rhyodacite volcanic flows, grayish green to moderately yellowish green, glassy/hard, pervasive epidote alteration and veining. Quartz and calcite veining abundant. Chlorite increasing with depth suggesting protolith is becoming more mafic.	See OG well files for detailed log
OG	911	321	1053	7500	7800	2286	2377	-6447	-6747	-1965	-2057	91	6	TV	Rhyodacite flows/quartz diorite/metamorphics to total depth.	
OG	911	321	1053	7800	8307	2377	2532	-6747	-7254	-2057	-2211	155	7	B	Rhyodacite flows/quartz diorite/metamorphics to total depth.	
OG	912	332	1088	0	3600	0	1097	1088	-2512	332	-766	1097	8	U	no sample	no complete geologist or driller log in file
OG	912	332	1088	3600	4100	1097	1250	-2512	-3012	-766	-918	152	3	LBF	"clay section"	
OG	912	332	1088	4100	5000	1250	1524	-3012	-3912	-918	-1192	274	3	LBF	"highly porous and sand section"	
OG	912	332	1088	5000	5703	1524	1738	-3912	-4615	-1192	-1407	214	8	U	no record	
OG	912	332	1088	5703	7103	1738	2165	-4615	-6015	-1407	-1833	427	3	LBF	"top of salt section" and "base of salt"	
OG	912	332	1088	7103	7180	2165	2188	-6015	-6092	-1833	-1857	23	3	LBF	No record except "soft red clay below salt and then real dark brown clay"	
OG	912	332	1088	7180	7190	2188	2192	-6092	-6102	-1857	-1860	3	6	TV	volcanics	
OG	912	332	1088	7190	7415	2192	2260	-6102	-6327	-1860	-1928	69	6	TV	detachment fault (chlorite and epidote)	
OG	912	332	1088	7415	7425	2260	2263	-6327	-6337	-1928	-1932	3	6	TV	"volcanics"	
OG	912	332	1088	7425	7435	2263	2266	-6337	-6347	-1932	-1935	3	7	B	"coring in granite"	
OG	912	332	1088	7435	8334	2266	2540	-6347	-7246	-1935	-2209	274	8	U	no record	
OG	701	341	1118	0	30	0	9	1118	1088	341	332	9	1	VF	surface	See section CC' in Reynolds and Bartlett (2002)
OG	701	341	1118	30	40	9	12	1088	1078	332	329	3	1	VF	gravel	
OG	701	341	1118	40	60	12	18	1078	1058	329	322	6	1	VF	clay	
OG	701	341	1118	60	105	18	32	1058	1013	322	309	14	1	VF	gravel	

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OG	701	341	1118	105	145	32	44	1013	973	309	297	12	2	UBF	caliche	
OG	701	341	1118	145	200	44	61	973	918	297	280	17	2	UBF	yellow clay	
OG	701	341	1118	200	230	61	70	918	888	280	271	9	5	TVS	red sandstone	
OG	701	341	1118	230	290	70	88	888	828	271	252	18	5	TVS	brown limestone	
OG	701	341	1118	290	340	88	104	828	778	252	237	15	5	TVS	light shale	
OG	701	341	1118	340	565	104	172	778	553	237	169	69	5	TVS	brown shale	
OG	701	341	1118	565	570	172	174	553	548	169	167	2	5	TVS	sand	
OG	701	341	1118	570	800	174	244	548	318	167	97	70	5	TVS	shale and shells	
OG	701	341	1118	800	840	244	256	318	278	97	85	12	5	TVS	sand	
OG	701	341	1118	840	860	256	262	278	258	85	79	6	5	TVS	blue shale	
OG	701	341	1118	860	1070	262	326	258	48	79	15	64	5	TVS	brown shale	
OG	701	341	1118	1070	1100	326	335	48	18	15	5	9	5	TVS	brown shale	
OG	701	341	1118	1100	1120	335	341	18	-2	5	-1	6	5	TVS	brown sand	
OG	701	341	1118	1120	1240	341	378	-2	-122	-1	-37	37	5	TVS	brown sand	
OG	701	341	1118	1240	1250	378	381	-122	-132	-37	-40	3	5	TVS	gray limestone	
OG	701	341	1118	1250	1255	381	383	-132	-137	-40	-42	2	5	TVS	brown sand	
OG	701	341	1118	1255	1300	383	396	-137	-182	-42	-55	14	5	TVS	brown sand	
OG	701	341	1118	1300	1400	396	427	-182	-282	-55	-86	30	5	TVS	brown sand and shale breaks	
OG	701	341	1118	1400	1500	427	457	-282	-382	-86	-116	30	5	TVS	red shale and clay sand streaks	
OG	701	341	1118	1500	1595	457	486	-382	-477	-116	-145	29	5	TVS	brown sand	
OG	701	341	1118	1595	1605	486	489	-477	-487	-145	-148	3	5	TVS	brown sand	
OG	701	341	1118	1605	1670	489	509	-487	-552	-148	-168	20	5	TVS	rock	
OG	701	341	1118	1670	1740	509	530	-552	-622	-168	-190	21	5	TVS	lime and sand	
OG	701	341	1118	1740	1750	530	533	-622	-632	-190	-193	3	5	TVS	shells and sand	
OG	701	341	1118	1750	1900	533	579	-632	-782	-193	-238	46	5	TVS	hard sandy lime	
OG	701	341	1118	1900	1916	579	584	-782	-798	-238	-243	5	5	TVS	sand - good showing gas and oil	
OG	701	341	1118	1916	1950	584	594	-798	-832	-243	-254	10	5	TVS	lime shells very hard	
OG	701	341	1118	1950	1960	594	597	-832	-842	-254	-257	3	5	TVS	shells and sand	
OG	701	341	1118	1960	1970	597	600	-842	-852	-257	-260	3	5	TVS	hard sand show gas	
OG	701	341	1118	1970	1980	600	604	-852	-862	-260	-263	3	5	TVS	hard lime	
OG	701	341	1118	1980	2000	604	610	-862	-882	-263	-269	6	5	TVS	hard shells sand and lime	
OG	701	341	1118	2000	2010	610	613	-882	-892	-269	-272	3	5	TVS	sandy shale, gas and oil show	
OG	701	341	1118	2010	2020	613	616	-892	-902	-272	-275	3	5	TVS	sandy shale, gas and oil show	
OG	701	341	1118	2020	2028	616	618	-902	-910	-275	-277	2	5	TVS	sandy shale, gas and oil show	
OG	701	341	1118	2028	2040	618	622	-910	-922	-277	-281	4	5	TVS	sandy shale, gas and oil show	
OG	701	341	1118	2040	2050	622	625	-922	-932	-281	-284	3	5	TVS	sandy shale, gas and oil show	
OG	701	341	1118	2050	2070	625	631	-932	-952	-284	-290	6	5	TVS	sandy shale, gas and oil show	
OG	701	341	1118	2070	2085	631	636	-952	-967	-290	-295	5	5	TVS	sandy shale, gas and oil show	
OG	701	341	1118	2085	2105	636	642	-967	-987	-295	-301	6	5	TVS	sandy shale, gas and oil show	
OG	701	341	1118	2105	2120	642	646	-987	-1002	-301	-305	5	5	TVS	red rock	
OG	701	341	1118	2120	2130	646	649	-1002	-1012	-305	-308	3	5	TVS	sandy lime	
OG	701	341	1118	2130	2146	649	654	-1012	-1028	-308	-313	5	5	TVS	sandy lime gas showing	
OG	701	341	1118	2146	2158	654	658	-1028	-1040	-313	-317	4	5	TVS	sandy lime gas showing	
OG	701	341	1118	2158	2170	658	661	-1040	-1052	-317	-321	4	5	TVS	sandy lime gas showing	
OG	701	341	1118	2170	2186	661	666	-1052	-1068	-321	-326	5	5	TVS	sandy lime gas showing	
OG	701	341	1118	2186	2205	666	672	-1068	-1087	-326	-331	6	5	TVS	sandy lime gas showing	
OG	701	341	1118	2205	2220	672	677	-1087	-1102	-331	-336	5	5	TVS	sandy lime gas showing	

Well Type	Well ID	Elev. (m)	Elev. (ft)	From Depth (ft)	To Depth (ft)	From Depth (m)	To Depth (m)	Top Elev. (ft)	Bottom Elev. (ft)	Top Elev. (m)	Bottom Elev. (m)	Thickness (m)	HGUID	HGU Code	Lithology	Comments [by author]
OG	701	341	1118	2220	2235	677	681	-1102	-1117	-336	-340	5	5	TVS	sandy lime gas showing	
OG	701	341	1118	2235	2256	681	688	-1117	-1138	-340	-347	6	5	TVS	sandy lime gas showing	
OG	701	341	1118	2256	2271	688	692	-1138	-1153	-347	-351	5	5	TVS	sandy lime gas showing	
OG	701	341	1118	2271	2285	692	696	-1153	-1167	-351	-356	4	5	TVS	sandy lime gas showing	
OG	701	341	1118	2285	2305	696	703	-1167	-1187	-356	-362	6	5	TVS	sandy lime gas showing	
OG	701	341	1118	2305	2400	703	732	-1187	-1282	-362	-391	29	5	TVS	sand	
OG	701	341	1118	2400	2575	732	785	-1282	-1457	-391	-444	53	5	TVS	sand	
OG	701	341	1118	2575	2650	785	808	-1457	-1532	-444	-467	23	5	TVS	sand	
OG	701	341	1118	2650	2670	808	814	-1532	-1552	-467	-473	6	5	TVS	sandy shale	
OG	701	341	1118	2670	2870	814	875	-1552	-1752	-473	-534	61	5	TVS	pink sand	
OG	701	341	1118	2870	2875	875	876	-1752	-1757	-534	-536	2	5	TVS	silica sand - possible chert	
OG	701	341	1118	2875	2915	876	889	-1757	-1797	-536	-548	12	5	TVS	blue shale	
OG	701	341	1118	2915	3550	889	1082	-1797	-2432	-548	-741	194	5	TVS	silica?	
OG	705	370	1215	0	4	0	1	1215	1211	370	369	1	1	VF	soil	
OG	705	370	1215	4	64	1	20	1211	1151	369	351	18	1	VF	cemented hardpan	
OG	705	370	1215	64	66	20	20	1151	1149	351	350	1	1	VF	loose granite dry	
OG	705	370	1215	66	130	20	40	1149	1085	350	331	20	3	LBF	cemented hardpan	
OG	705	370	1215	130	138	40	42	1085	1077	331	328	2	3	LBF	loose granite - water	
OG	705	370	1215	138	160	42	49	1077	1055	328	322	7	3	LBF	cemented hardpan	
OG	705	370	1215	160	182	49	55	1055	1033	322	315	7	4	TVS	red and gray sandstone	Pick based on change in lithology and Reynolds and Bartlett, 2002
OG	705	370	1215	182	190	55	58	1033	1025	315	312	2	4	TVS	granite gravel and water	
OG	705	370	1215	190	198	58	60	1025	1017	312	310	2	4	TVS	gray sandstone	
OG	705	370	1215	198	282	60	86	1017	933	310	284	26	4	TVS	fine clay	
OG	705	370	1215	282	388	86	118	933	827	284	252	32	4	TVS	fine clay	
OG	705	370	1215	388	390	118	119	827	825	252	251	1	4	TVS	granite quartz	
OG	705	370	1215	390	408	119	124	825	807	251	246	5	4	TVS	clay shale	
OG	705	370	1215	408	415	124	126	807	800	246	244	2	4	TVS	shale	
OG	705	370	1215	415	423	126	129	800	792	244	241	2	4	TVS	blue granite (very hard)	
OG	705	370	1215	423	618	129	188	792	597	241	182	59	4	TVS	shale	
OG	705	370	1215	618	619	188	189	597	596	182	182	0	4	TVS	sand (oil seepage)	
OG	705	370	1215	619	653	189	199	596	562	182	171	10	4	TVS	shale with sand veins, oil seepage increases with depth	
OG	705	370	1215	653	846	199	258	562	369	171	112	59	4	TVS	shale and heavy clay	
OG	705	370	1215	846	851	258	259	369	364	112	111	2	4	TVS	sandy shale and slate	
OG	705	370	1215	851	862	259	263	364	353	111	108	3	4	TVS	shale, slate and clay	
OG	705	370	1215	862	871	263	265	353	344	108	105	3	4	TVS	shale and clay	
OG	705	370	1215	871	880	265	268	344	335	105	102	3	4	TVS	shale and sandstone etc	
OG	705	370	1215	880	889	268	271	335	326	102	99	3	4	TVS	shale and sandstone etc	
OG	705	370	1215	889	895	271	273	326	320	99	98	2	4	TVS	shale and sandstone	
OG	705	370	1215	895	902	273	275	320	313	98	95	2	4	TVS	shale	
OG	705	370	1215	902	905	275	276	313	310	95	94	1	4	TVS	shale	
OG	705	370	1215	905	906	276	276	310	309	94	94	0	4	TVS	sand - oil showing	
OG	705	370	1215	906	918	276	280	309	297	94	91	4	4	TVS	shale	
OG	705	370	1215	918	930	280	283	297	285	91	87	4	4	TVS	shale	
OG	705	370	1215	930	939	283	286	285	276	87	84	3	4	TVS	shale and sandstone	
OG	705	370	1215	939	945	286	288	276	270	84	82	2	4	TVS	shale and clay	

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OG	705	370	1215	945	953	288	290	270	262	82	80	2	4	TVS	shale and clay	
OG	705	370	1215	953	987	290	301	262	228	80	69	10	4	TVS	shale, clay and oil globs	
OG	705	370	1215	987	1011	301	308	228	204	69	62	7	4	TVS	shale, clay and oil globs	
OG	705	370	1215	1011	1028	308	313	204	187	62	57	5	4	TVS	shale and clay	
OG	705	370	1215	1028	1036	313	316	187	179	57	55	2	4	TVS	gray silica sand - streaks of clay	
OG	705	370	1215	1036	1045	316	319	179	170	55	52	3	4	TVS	same as above but less clay	
OG	705	370	1215	1045	1052	319	321	170	163	52	50	2	4	TVS	gray sandstone- soft and streaky	
OG	705	370	1215	1052	1064	321	324	163	151	50	46	4	4	TVS	dark gray sandstone with less white silica sand	
OG	705	370	1215	1064	1075	324	328	151	140	46	43	3	4	TVS	very white silica sandstone with little oil colors	
OG	705	370	1215	1075	1084	328	330	140	131	43	40	3	4	TVS	dark brown clay smelling like soapstone	
OG	705	370	1215	1084	1093	330	333	131	122	40	37	3	4	TVS	black clay w/ streaks white clay and gray and red sandstone	
OG	705	370	1215	1093	1110	333	338	122	105	37	32	5	4	TVS	conglomerate, streaks of slate and gray sand and white and brown clay	
OG	705	370	1215	1110	1117	338	340	105	98	32	30	2	4	TVS	almost pure white silica and sandstone w/ red sandstone, coarse grained	
OG	705	370	1215	1117	1130	340	344	98	85	30	26	4	4	TVS	gray silica, sandstone, streaks of white clay	
OG	705	370	1215	1130	1152	344	351	85	63	26	19	7	4	TVS	conglomerate of sand clay	
OG	705	370	1215	1152	1158	351	353	63	57	19	17	2	4	TVS	white silica sandstone, hard, fine grained	
OG	705	370	1215	1158	1170	353	357	57	45	17	14	4	4	TVS	gray sandstone and streaks of soapstone	
OG	705	370	1215	1170	1196	357	365	45	19	14	6	8	4	TVS	white silica - sandstone with white and dark clay streaks	
OG	705	370	1215	1196	1210	365	369	19	5	6	2	4	4	TVS	gray silica sandstone, streaks of black and brown clay	
OG	705	370	1215	1210	1235	369	376	5	-20	2	-6	8	4	TVS	white and gray silica sandstones, stratas of brown clay	
OG	705	370	1215	1235	1260	376	384	-20	-45	-6	-14	8	4	TVS	gray coarse sandstone with brown clay	
OG	705	370	1215	1260	1270	384	387	-45	-55	-14	-17	3	4	TVS	coarse gray sandstone	
OG	705	370	1215	1270	1282	387	391	-55	-67	-17	-20	4	4	TVS	same as above with streaks of clay	
OG	705	370	1215	1282	1293	391	394	-67	-78	-20	-24	3	4	TVS	soft gray sandstone with gray clay	
OG	705	370	1215	1293	1300	394	396	-78	-85	-24	-26	2	4	TVS	hard gray sandstone	
OG	705	370	1215	1300	1320	396	402	-85	-105	-26	-32	6	4	TVS	sandy clay with streaks of sand	
OG	705	370	1215	1320	1340	402	408	-105	-125	-32	-38	6	4	TVS	gray and brown clay with thin white silica sand	
OG	705	370	1215	1340	1349	408	411	-125	-134	-38	-41	3	4	TVS	gray and brown clay	
OG	705	370	1215	1349	1356	411	413	-134	-141	-41	-43	2	4	TVS	very dark sugar or brown sandstone	
OG	705	370	1215	1356	1365	413	416	-141	-150	-43	-46	3	4	TVS	white silica sand and red sandstone	
OG	705	370	1215	1365	1410	416	430	-150	-195	-46	-59	14	4	TVS	mostly gray and dark clays with silica sandrock	
OG	705	370	1215	1410	1418	430	432	-195	-203	-59	-62	2	4	TVS	dark colored clay with streaks white silica sand	
OG	705	370	1215	1418	1445	432	440	-203	-230	-62	-70	8	4	TVS	gray clay with sand streaks	
OG	705	370	1215	1445	1505	440	459	-230	-290	-70	-88	18	4	TVS	white and red silica sandstone with gray clay streaks	
OG	705	370	1215	1505	1530	459	466	-290	-315	-88	-96	8	4	TVS	hard gray sand and conglomerate of limestone	
OG	705	370	1215	1530	1548	466	472	-315	-333	-96	-101	5	4	TVS	fine gray sandstone	
OG	705	370	1215	1548	1577	472	481	-333	-362	-101	-110	9	4	TVS	hard gray sandstone, white streaks limestone	
OG	705	370	1215	1577	1590	481	485	-362	-375	-110	-114	4	4	TVS	dark brown sandstone	
OG	705	370	1215	1590	1680	485	512	-375	-465	-114	-142	27	4	TVS	gray and red conglomerate sandstone	
OG	705	370	1215	1680	1690	512	515	-465	-475	-142	-145	3	4	TVS	soft fine sand	
OG	705	370	1215	1690	1735	515	529	-475	-520	-145	-158	14	4	TVS	dark clay sand with clay streaks	

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OG	705	370	1215	1735	1762	529	537	-520	-547	-158	-167	8	4	TVS	brown sand and gray clay	
OG	705	370	1215	1762	1810	537	552	-547	-595	-167	-181	15	4	TVS	brown sandstone with gray clay	
OG	705	370	1215	1810	1860	552	567	-595	-645	-181	-197	15	4	TVS	75% gray clay, 25% light sand	
OG	705	370	1215	1860	1882	567	574	-645	-667	-197	-203	7	4	TVS	dark brown sand	
OG	705	370	1215	1882	1905	574	581	-667	-690	-203	-210	7	4	TVS	very dark brown sand with gray clay	
OG	705	370	1215	1905	1928	581	588	-690	-713	-210	-217	7	4	TVS	brown and rusty iron sandstone	
OG	705	370	1215	1928	1940	588	591	-713	-725	-217	-221	4	4	TVS	rusty iron sand, red	
OG	705	370	1215	1940	1962	591	598	-725	-747	-221	-228	7	4	TVS	brown and rusty sand with gray sandstone	
OG	705	370	1215	1962	1978	598	603	-747	-763	-228	-233	5	4	TVS	dark and brown sandstone	
OG	705	370	1215	1978	1986	603	605	-763	-771	-233	-235	2	4	TVS	gray sandstone with gray clay	
OG	705	370	1215	1986	2021	605	616	-771	-806	-235	-246	11	4	TVS	brown and rusty sand	
OG	705	370	1215	2021	2045	616	623	-806	-830	-246	-253	7	4	TVS	gray silica sand with brown sand and clay streaks	
OG	705	370	1215	2045	2070	623	631	-830	-855	-253	-261	8	4	TVS	gray sandstone and gray clay	
OG	705	370	1215	2070	2100	631	640	-855	-885	-261	-270	9	4	TVS	gray sand	
OG	705	370	1215	2100	2130	640	649	-885	-915	-270	-279	9	4	TVS	gray sand	
OG	705	370	1215	2130	2140	649	652	-915	-925	-279	-282	3	4	TVS	gray and blue sandstone	
OG	705	370	1215	2140	2182	652	665	-925	-967	-282	-295	13	4	TVS	gray sand stratas with gray clay	
OG	705	370	1215	2182	2210	665	674	-967	-995	-295	-303	9	4	TVS	gray sandstone with shale	
OG	705	370	1215	2210	2230	674	680	-995	-1015	-303	-309	6	4	TVS	shale stratas with brown sandstone	
OG	705	370	1215	2230	2257	680	688	-1015	-1042	-309	-318	8	4	TVS	gray sandstone and gray clay	
OG	705	370	1215	2257	2312	688	705	-1042	-1097	-318	-334	17	4	TVS	red and gray clay and streaks of sand	
OG	705	370	1215	2312	2340	705	713	-1097	-1125	-334	-343	9	4	TVS	gray clay and sandstone	
OG	705	370	1215	2340	2354	713	718	-1125	-1139	-343	-347	4	4	TVS	gray clay with gray sandstone	
OG	705	370	1215	2354	2374	718	724	-1139	-1159	-347	-353	6	4	TVS	gray sandstone with gray clay	
OG	705	370	1215	2374	2387	724	728	-1159	-1172	-353	-357	4	4	TVS	gray sand rock with red sand	
OG	705	370	1215	2387	2399	728	731	-1172	-1184	-357	-361	4	4	TVS	gray sandstone	
OG	705	370	1215	2399	2404	731	733	-1184	-1189	-361	-362	2	4	TVS	gray sandstone	
OG	705	370	1215	2404	2428	733	740	-1189	-1213	-362	-370	7	4	TVS	gray sandstone	
OG	705	370	1215	2428	2466	740	752	-1213	-1251	-370	-381	12	4	TVS	sandstone and clay	
OG	705	370	1215	2466	2489	752	759	-1251	-1274	-381	-388	7	4	TVS	sandstone and clay	
OG	705	370	1215	2489	2492	759	760	-1274	-1277	-388	-389	1	4	TVS	gray sandstone	
OG	705	370	1215	2492	2497	760	761	-1277	-1282	-389	-391	2	4	TVS	light gray sandstone, fine grained	
OG	705	370	1215	2497	2553	761	778	-1282	-1338	-391	-408	17	4	TVS	hard sandstone	
OG	705	370	1215	2553	2560	778	780	-1338	-1345	-408	-410	2	4	TVS	hard fine grained sandstone with clay streaks	
OG	705	370	1215	2560	2586	780	788	-1345	-1371	-410	-418	8	4	TVS	hard fine grained sandstone with clay streaks	
OG	705	370	1215	2586	2591	788	790	-1371	-1376	-418	-419	2	4	TVS	same but little trace of clay	
OG	705	370	1215	2591	2598	790	792	-1376	-1383	-419	-422	2	4	TVS	straight sandstone	
OG	705	370	1215	2598	2668	792	813	-1383	-1453	-422	-443	21	4	TVS	mostly sand with trace of clay	
OG	705	370	1215	2668	2690	813	820	-1453	-1475	-443	-450	7	4	TVS	gray sandstone	
OG	705	370	1215	2690	2698	820	822	-1475	-1483	-450	-452	2	4	TVS	light silica sand	
OG	705	370	1215	2698	2705	822	824	-1483	-1490	-452	-454	2	4	TVS	same as above	
OG	705	370	1215	2705	2722	824	830	-1490	-1507	-454	-459	5	4	TVS	some light silica sand with blue limestone	
OG	705	370	1215	2722	2735	830	834	-1507	-1520	-459	-463	4	4	TVS	no sample	
OG	705	370	1215	2735	2768	834	844	-1520	-1553	-463	-473	10	4	TVS	gray sandstone	
OG	705	370	1215	2768	2783	844	848	-1553	-1568	-473	-478	5	4	TVS	clay and sandstone	
OG	705	370	1215	2783	2818	848	859	-1568	-1603	-478	-489	11	4	TVS	clay	
OG	715	340	1115	0	10	0	3	1115	1105	340	337	3	1	VF	clayey silt	

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OG	715	340	1115	10	20	3	6	1105	1095	337	334	3	1	VF	silty sand	
OG	715	340	1115	20	35	6	11	1095	1080	334	329	5	1	VF	silty sand and gravel	
OG	715	340	1115	35	100	11	30	1080	1015	329	309	20	1	VF	sandy silt	
OG	715	340	1115	100	230	30	70	1015	885	309	270	40	1	VF	silty sand and gravel	
OG	715	340	1115	230	320	70	98	885	795	270	242	27	2	UBF	sandy silt	
OG	715	340	1115	320	507	98	155	795	608	242	185	57	2	UBF	silty and clayey sand and gravel	
OG	715	340	1115	507	1257	155	383	608	-142	185	-43	229	3	LBF	sand and clayey silt	
OG	715	340	1115	1257	1965	383	599	-142	-850	-43	-259	216	3	LBF	sandy and clayey silt	
OG	715	340	1115	1965	2003	599	611	-850	-888	-259	-271	12	3	LBF	silty and sandy clay	
OG	716	368	1208	0	2	0	1	1208	1206	368	368	1	1	VF	silty sand and gravel	
OG	716	368	1208	2	48	1	15	1206	1160	368	354	14	1	VF	gravel and sand	
OG	716	368	1208	48	63	15	19	1160	1145	354	349	5	1	VF	sandy silt and clay	
OG	716	368	1208	63	78	19	24	1145	1130	349	344	5	1	VF	silty to sandy clay	
OG	716	368	1208	78	93	24	28	1130	1115	344	340	5	1	VF	sand and gravel	
OG	716	368	1208	93	136	28	41	1115	1072	340	327	13	1	VF	silty sand	
OG	716	368	1208	136	310	41	94	1072	898	327	274	53	1	VF	sand	
OG	716	368	1208	310	865	94	264	898	343	274	105	169	2	UBF	silty sand	
OG	716	368	1208	865	1390	264	424	343	-182	105	-55	160	2	UBF	sand and gravel	
OG	716	368	1208	1390	1402	424	427	-182	-194	-55	-59	4	3	LBF	sandy silt	
OG	716	368	1208	1402	1990	427	607	-194	-782	-59	-238	179	3	LBF	silty sand and gravel	
OG	717	398	1305	0	150	0	46	1305	1155	398	352	46	1	VF	sand, clay, gravel and cobbles	More detailed log in OG files, p. 6
OG	717	398	1305	150	746	46	227	1155	559	352	170	182	2	UBF	sandy clay and clayey sand and abundant caliche	
OG	717	398	1305	746	1743	227	531	559	-438	170	-134	304	3	LBF	clay and water sands	
OG	717	398	1305	1743	1745	531	532	-438	-440	-134	-134	1	3	LBF	brown sandstone	
OG	717	398	1305	1745	1930	532	588	-440	-625	-134	-191	56	3	LBF	clay and brown sand	
OG	717	398	1305	1930	1935	588	590	-625	-630	-191	-192	2	3	LBF	brown sandstone	
OG	717	398	1305	1935	2208	590	673	-630	-903	-192	-275	83	3	LBF	clay	
OG	717	398	1305	2208	2210	673	674	-903	-905	-275	-276	1	3	LBF	gray sand showing globules of oil	
OG	717	398	1305	2210	2430	674	741	-905	-1125	-276	-343	67	3	LBF	sand and sandy lime	
OG	717	398	1305	2430	2518	741	767	-1125	-1213	-343	-370	27	3	LBF	lime	
OG	717	398	1305	2518	2540	767	774	-1213	-1235	-370	-376	7	3	LBF	brown sand, showing light oil	
OG	717	398	1305	2540	3040	774	927	-1235	-1735	-376	-529	152	3	LBF	sand, sandstone with streaks of shale	
OG	717	398	1305	3040	3050	927	930	-1735	-1745	-529	-532	3	3	LBF	hard blue lime	
OG	717	398	1305	3050	3115	930	949	-1745	-1810	-532	-552	20	3	LBF	sandstone	
OG	717	398	1305	3115	3132	949	955	-1810	-1827	-552	-557	5	3	LBF	blue lime	
OG	717	398	1305	3132	3180	955	969	-1827	-1875	-557	-572	15	3	LBF	sandy lime and shale	
OG	717	398	1305	3180	3252	969	991	-1875	-1947	-572	-593	22	3	LBF	alternate streaks of shale and lime	
OG	717	398	1305	3252	3280	991	1000	-1947	-1975	-593	-602	9	3	LBF	black shale saturated with oil, showing some gas	
OG	717	398	1305	3280	3350	1000	1021	-1975	-2045	-602	-623	21	3	LBF	sandy shale, sandstone, and lime	
OG	720	496	1627	0	7	0	2	1627	1620	496	494	2	1	VF	soil	
OG	720	496	1627	7	3100	2	945	1620	-1473	494	-449	943	8	U	sand and gravel- valley fill	
OG	720	496	1627	3100	3800	945	1158	-1473	-2173	-449	-662	213	5	TVS	conglomerate	
OG	720	496	1627	3800	4970	1158	1515	-2173	-3343	-662	-1019	357	6	TV	volcanic rock	Oil showing between 4650-4660
OG	527	331	1085	0	880	0	268	1085	205	331	63	268	8	U	Unknown	CDL log indicates two formation densities above salt

Well Type	Well ID	Elev. (m)	Elev. (ft)	From Depth (ft)	To Depth (ft)	From Depth (m)	To Depth (m)	Top Elev. (ft)	Bottom Elev. (ft)	Top Elev. (m)	Bottom Elev. (m)	Thickness (m)	HGUID	HGU Code	Lithology	Comments [by author]
OG	527	331	1085	880	4503	268	1373	205	-3418	63	-1042	1104	4	LUKE	Luke Salt	

Hydro D	HGU Code	HGU Name
1	VF	Valley Fill
2	UBF	Upper Basin Fill
3	LBF	Lower Basin Fill
4	LUKE	Luke Salt Deposit
5	TVS	Pre-Basin and Range red sediments
6	TV	Pre-Basin and Range felsic to mafic volcanics
7	B	Granitic or Metamorphic basement
8	U	unknown, not determinable or no sample